

| ESTIMATE OF FOR CONSTRUCTION OF ADDITIONAL DORMITORY & STAFF QUARTERS AT JNV<br>KUPWARA, JAMMU AND KASHMIR |   |                                   |                                   |                                   |
|--|---|-----------------------------------|-----------------------------------|-----------------------------------|
| Sl.<br>No.   | Description   | as per Detailed Estimate          |                                   |                                   |
|  |   | Amount<br>DSR -2023<br>(In Lac's) | Amount<br>DSR -2022<br>(In Lac's) | Amount<br>Non-DSR -<br>(In Lac's) |
| <b>A.</b>  | <b>Buildings work</b>   |                                   |                                   |                                   |
| 1  | Balance Part of school Building for 04 nos classroom & 04 Nos Laboratories including corridor & Toilets Blocks for bosy and girls<br>Plinth area=624.08 sqmt  | 177.49                            | 4.34                              | 5.78                              |
| 2  | Left over work of 0.25 Unit Boys Dormitory with 01 nos warden residence (Double Storey, RCC framed structure), Plinth area 327.00 + 55.00= 382.00 Sqm   | 10.27                             | 1.04                              | 1.00                              |
| 3  | Left over work of 0.25 Unit Boys Dormitory with 01 nos warden residence (Double Storey, RCC framed structure), Plinth area 327.00 + 55.00=382.00 Sqm..  | 128.21                            | 4.68                              | 2.62                              |
| 4  | Left over work of 0.25 Unit Girls Dormitory with 01 nos warden residence (Double Storey, RCC framed structure), Plinth area 327.00 + 55.00=382.00 Sqm.  | 10.27                             | 1.04                              | 1.00                              |
| 5  | Balance 0.50 Unit Girls Dormitory with 02 nos warden residence (Double Storey, RCC framed structure), Plinth area 691.50 +110.00=801.50 Sqm.  | 226.76                            | 15.38                             | 11.89                             |
| 6  | Principal Residence- 01 no. (Single Storey, RCC framed structure), Plinth area 106.00 Sqm.  | 21.66                             | 3.83                              | 2.67                              |
| 7  | 6 Type-III staff quarters 21 nos. 18 Nos Type-III and 03 Nos in lieu of warden residence (03 nos Blocks of G+2 Storey and 01 No Blocks of G+1 Storey, RCC framed structure), Plinth area 21x60 = 1260.00 Sqm. | 320.34                            | 42.13                             | 12.10                             |
| 8  | Type-II staff quarters 13 no. (02 Block of G+2 Storey and 01 Single Storied, RCC framed structure), Plinth area 13x50 = 650.00 sqm.   | 164.29                            | 22.40                             | 7.50                              |
| 9  | Guest House - 01 no. (Single Storey, RCC framed structure), Plinth area 60.00 Sqm.  | 17.30                             | 1.96                              | 0.92                              |
|  |   |                                   |                                   |                                   |
|  | <b>Sub Total :</b>  | <b>1076.59</b>                    | <b>96.80</b>                      | <b>45.48</b>                      |
| 10   | Add C.I 28.97%  | 311.89                            | 28.04                             |                                   |
|  |   |                                   |                                   |                                   |
|  | <b>Total "A"</b>  | <b>1388.48</b>                    | <b>124.84</b>                     | <b>45.48</b>                      |
| 11   | Add For Development Works <b>Total "B"</b>  | 223.52                            | 16.86                             | 68.72                             |
| 12   | Add For Campus Boundary wall along with Main Entry Gate <b>Total "C"</b>  | 218.14                            | 0.63                              | 0.63                              |
|  | <b>Total : "A", "B", "C"</b>  | <b>1830.14</b>                    | <b>142.33</b>                     | <b>114.83</b>                     |
|  | <b>G.Total</b>  | <b>2087.30</b>                    |                                   |                                   |

[illegible]

| NAME OF WORK : PROPOSED JAWAHAR NAVODAYA VIDYALAYA PHASE B BALANCE WORK AT JNV KUPWARA (J&K) |  |                      |                     |                     |
|--|--|----------------------|---------------------|---------------------|
| SUMMARY OF DEVELOPMENT WORKS   |  |                      |                     |                     |
| S.N.   | PARTICULARS OF ITEMS   |                      |                     |                     |
|  |  | DSR-2023             | DSR-2022            | Non-DSR             |
| <b>1</b>   | <b>DEVELOPMENT OF CAMPUS</b>   |                      |                     |                     |
| <b>1.1</b>   | Earth filling for road   | 73,713.62            |                     |                     |
| <b>1.2.</b>  | CC Road 3.50 Mtr   | 4,312,013.37         |                     |                     |
| <b>1.3</b>   | CC Pathway 2.00 Mtr  | 2,736,594.90         |                     |                     |
| <b>1.4</b>   | OUTER DRAIN ARROUND THE BUILDING (230X300)   | 1,009,180.21         |                     |                     |
| <b>1.5</b>   | EXTERNAL DRAIN ARROUND THE BUILDING (300X450)  | 251,063.45           |                     |                     |
| <b>1.6</b>   | EXTERNAL WATER SUPPLY DISTRIBUTION LINE  | 748,897.33           |                     | -                   |
| <b>1.7</b>   | EXTERNAL SEWER LINE  | 836,511.94           |                     |                     |
| <b>1.8</b>   | SEPTIC TANK 100 USERS 02 NUMBER  | 563,186.98           |                     |                     |
| <b>1.10</b>  | SEPTIC TANK 50 USERS 01 NUMBER   | 362,622.54           |                     |                     |
| <b>1.11</b>  | Mini Sports Complex  | 3,781,965.14         |                     | 1,563,056.00        |
| <b>1.12</b>  | Tube Well  | 576,160.60           |                     | 285,160.40          |
| <b>1.13</b>  | Running Track - 200 Meter  | 2,080,485.00         |                     |                     |
| <b>1.14</b>  | Open Gym with 11 nos exercise equipment i.e. Multi Station Gym (Dip Station, Monkey Bars, Pull-up station, Push up Bar, Horse Rider, shoulder press, leg press, chest press), Elliptical Exerciser, Double cross walker, Triple Twister standing, Air Walker, Arm Wheel (shoulder wheel), Air Swing, Rowing Machine, Balance Beam, Weight assisted chest press, parallel bar along with Base of the area & all around CC Paver Block |                      |                     | 3,000,000.00        |
| <b>2</b>   | <b>EXTERNAL ELECTRIFICATION</b>  |                      |                     |                     |
| <b>2.1</b>   | HT/ LT PANEL   |                      |                     | 900,000.00          |
| <b>2.2</b>   | STREET LIGHTING USING UNDER GROUND CABLES  |                      |                     | 1,124,011.53        |
| <b>2.3</b>   | EXTERNAL CABLE LAYING / CABLE CONNECTION USING U.G. CABLES FROM SUB STATION TO FEEDER PILLER / BUILDING AND PUMP HOUSE AND EARTHING  |                      | 1,306,942.88        |                     |
|  |  | <b>17,332,395.08</b> | <b>1,306,942.88</b> | <b>6,872,227.93</b> |
|  | <b>TOTAL (A)</b>   | <b>173.31</b>        | <b>13.07</b>        | <b>68.72</b>        |
|  | ADD C.I 28.97% (derived as (138-107)/107x100 = 28.97% as on 04/2023 of Kupwara on PAR-2023 & DSR-2023  | 50.21                | 3.79                |                     |
|  | <b>TOTAL (B)</b>   | <b>223.52</b>        | <b>16.86</b>        | <b>68.72</b>        |
|  | <b>GRAND TOTAL</b>   | <b>309.10</b>        |                     |                     |
|  |  |                      |                     |                     |
|  |  |                      |                     |                     |
|  |  |                      |                     |                     |
|  |  |                      |                     |                     |
| SUMMARY OF BOUNDARY WALL WORKS   |  |                      |                     |                     |
| S.N.   | PARTICULARS OF ITEMS   |                      |                     |                     |
|  |  | DSR-2023             | DSR-2022            | Non-DSR             |
| <b>1</b>   | <b>DEVELOPMENT OF CAMPUS</b>   |                      |                     |                     |
| <b>1.1</b>   | Boundary wall with 1.80 Mtr height masonry work with 600 mm dia concertina coil on top as per NVS standard drawing (Total Length = 648.00 Meters)  | 12,090,818.16        |                     |                     |

| S.N. | PARTICULARS OF ITEMS  |                      |                  |                  |
|------|---|----------------------|------------------|------------------|
|      |   | DSR-2023             | DSR-2022         | Non-DSR          |
| 1.2. | Cost of Repair work of existing campus boundary wall<br>(Total length = 657.00 Mtr)                             | 3,117,953.69         |                  |                  |
| 1.3. | Main entry Gate (shall be 6.00 mtrs, wide as per fire norms)<br>along with sentry booth/guard room)             | 1,704,549.22         | 49,406.20        | 62,500.00        |
|      |   | <b>16,913,903.89</b> | <b>49,423.06</b> | <b>62,568.72</b> |
|      | <b>TOTAL (A)</b>  | <b>169.14</b>        | <b>0.49</b>      | <b>0.63</b>      |
|      | ADD C.I 28.97% (derived as $(138-107)/107 \times 100 = 28.97\%$ as on 04/2023 of Kupwara on PAR-2023 & DSR-2023 | 49.00                | 0.14             |                  |
|      | <b>TOTAL (B)</b>  | <b>218.14</b>        | <b>0.63</b>      | <b>0.63</b>      |
|      | <b>GRAND TOTAL</b>  | <b>219.40</b>        |                  |                  |



| ESTIMATE OF FOR CONSTRUCTION OF ADDITIONAL DORMITORY & STAFF QUARTERS AT JNV KUPWARA, JAMMU AND KASHMIR |  |            |          |      |          |                    |                       |
|---|--|------------|----------|------|----------|--------------------|-----------------------|
| ABSTRACT OF COST  |  |            |          |      |          |                    |                       |
| #NAME?  |  |            |          |      |          |                    |                       |
| S.N.  | DESCRIPTION OF ITEM  | DSR - 2023 | QUANTITY | UNIT | RATES    | AMOUNT DSR<br>ITEM | AMOUNT<br>[M.R. ITEM] |
| <b>A</b>  | <b>Earth Work</b>  |            |          |      |          |                    |                       |
| 1   | Earth work in excavation by mechanical means (Hydraulic excavator) / manual means in foundation trenches or drains (not exceeding 1.5 m in width or 10 sqm on plan), including dressing of sides and ramming of bottoms, lift upto 1.5 m, including getting out the excavated soil and disposal of surplus excavated soil as directed, within a lead of 50 m.<br>.All kinds of soil.   | 2.8.1      | 432.180  | CUM  | 260.30   | 112,496.45         |                       |
| 2   | Filling available excavated earth (excluding rock) in trenches, plinth, sides of foundations etc. in layers not exceeding 20cm in depth,consolidating each deposited layer by ramming and watering, lead upto 50 m and lift upto 1.5 m.  | 2.25       | 432.180  | CUM  | 196.00   | 84,707.28          |                       |
| 3   | Extra for every additional lift of 1.5 m or part thereof in excavation / banking excavated or stacked materials.<br>All kinds of soil  | 2.26.1     | 108.050  | CUM  | 126.80   | 13,700.74          |                       |
| <b>B</b>  | <b>Concrete Work</b>   |            |          |      |          |                    |                       |
| 4   | Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level :1:5:10 (1 cement : 5 coarse sand (zoneIII)derived from natural sources : 10 graded stone aggregate 40 mm nominal size derived from natural sources)  | 4.1.10     | 21.610   | CUM  | 6518.60  | 140,866.95         |                       |
| <b>C</b>  | <b>Reinforced Cement Concrete</b>  |            |          |      |          |                    |                       |
| 5   | Centering and shuttering including strutting, propping etc. and removal of form for all heights :  |            |          |      |          |                    |                       |
| (a)   | Foundations, footings, bases of columns, etc. for mass concrete.   | 5.9.1      | 62.100   | SQM  | 392.15   | 24,352.52          |                       |
| (c)   | Suspended floors, roofs, landings, balconies and access platform   | 5.9.3      |          | SQM  | 927.25   | -                  |                       |
| (d)   | Lintels, beams, plinth beams, girders, bressumers and cantilevers  | 5.9.5      | 618.380  | RM   | 736.40   | 455,375.03         |                       |
| (e)   | Columns,Pillars, Piers, Abutments, Posts and Struts.   | 5.9.6      | 106.920  | SQM  | 961.30   | 102,782.20         |                       |
| (f)   | Edges of slabs and breaks in floors and walls Under 20 cm wide.  | 5.9.16.1   | 109.000  | SQM  | 208.55   | 22,731.95          |                       |
| 6   | Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete <b>upto plinth level</b> . Thermo-Mechanically Treated bars of grade Fe-500D or more.  | 5.22.6     | 207.694  | QTL. | 10785.00 | 2,239,978.17       |                       |
| 7   | Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete <b>above plinth level</b> . Thermo-Mechanically Treated bars of grade Fe-500 D or more.  | 5.22.A.6   | 154.629  | QTL. | 10785.00 | 1,667,677.00       |                       |
| 8   | Add for plaster drip course/ groove in plastered surface or moulding to R.C.C. projections.  | 5.30       | 383.000  | RM   | 78.40    | 30,027.20          |                       |
| 9   | Providing and laying in position ready mixed or site batched design mix cement concrete for reinforced cement concrete work; using coarse aggregate and fine aggregate derived from natural sources, Portland Pozzolana / Ordinary Portland /Portland Slag cement, admixtures in recommended proportions as per IS: 9103 to accelerate / retard setting of concrete, to improve durability and workability without impairing strength; including pumping of concrete to site of laying, curing, carriage for all leads; but excluding the cost of centering, shuttering, finishing and reinforcement as per direction of the engineer-in-charge; for the following grades of concrete.<br>Note: Extra cement up to 10% of the minimum specified cement content in design mix shall be payable separately. In case the cement content in design mix is more than 110% of the specified minimum cement content, the contractor shall have discretion to either re-design the mix or bear the cost of extra cement. | 5.33       |          |      |          |                    |                       |
| (I)   | <b>All works upto plinth level</b>   | 5.33.1     |          |      |          |                    |                       |
|   | <b>Concrete of M25 grade with minimum cement content of 330 kg /cum</b>  | 5.33.1.1   |          |      |          |                    |                       |
|   | (i) R.C.C. work in Footing   | 5.33.1.1   | 122.330  | CUM  | 9504.75  | 1,162,716.07       |                       |
|   | (ii) R.C.C. work in Beam   | 5.33.1.1   | 26.600   | CUM  | 9504.75  | 252,826.35         |                       |
|   | (iii) R.C.C. work in Columns   | 5.33.1.1   | 4.370    | CUM  | 9504.75  | 41,535.76          |                       |
|   | (iv) R.C.C. work in Grade Slab   | 5.33.1.1   | 93.610   | CUM  | 9504.75  | 889,739.65         |                       |
|   | (v) R.C.C. work in RETAINING Wall  | 5.33.1.1   |          | CUM  | 9504.75  | -                  |                       |
| (II)  | <b>All works above plinth level upto floor V level</b>   | 5.33.2     |          |      |          |                    |                       |
|   | <b>Concrete of M25 grade with minimum cement content of 330 kg /cum</b>  | 5.33.2.1   |          |      |          |                    |                       |
|   | (i) R.C.C. work in Lintel  | 5.33.2.1   | 2.620    | CUM  | 9860.40  | 25,834.25          |                       |
|   | (ii) R.C.C. work in Beam   | 5.33.2.1   | 59.940   | CUM  | 9860.40  | 591,032.38         |                       |
|   | (iii) R.C.C. work in Columns   | 5.33.2.1   | 11.660   | CUM  | 9860.40  | 114,972.26         |                       |
|   | (iv) R.C.C. work in Slab   | 5.33.2.1   | 81.130   | CUM  | 9860.40  | 799,974.25         |                       |
| <b>D</b>  | <b>Masonry Work</b>  |            |          |      |          |                    |                       |
| 10  | Half brick masonry with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in superstructure above plinth level up to floor V level.Cement mortar 1:4 (1 cement :4 coarse sand)  | 6.13.2     | 178.610  | Sqm  | 1123.80  | 200,721.92         |                       |
| 11  | Extra for providing and placing in position 2 Nos 6mm dia. M.S. bars at every third course of half brick masonry.  | 6.15       | 178.610  | SQM  | 104.80   | 18,718.33          |                       |

| S.N.     | DESCRIPTION OF ITEM  | DSR - 2023 | QUANTITY | UNIT | RATES   | AMOUNT DSR<br>ITEM | AMOUNT<br>[M.R. ITEM] |
|----------|--|------------|----------|------|---------|--------------------|-----------------------|
| 12       | Brick work with non modular fly ash bricks conforming to IS:12894, class designation 10 average compressive strength in superstructure above plinth level up to floor V level in : Cement mortar 1:6 (1 cement : 6 coarse sand)  | 6.34.2     | 165.660  | CUM  | 8752.55 | 1,449,947.43       |                       |
| 13       | Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in foundation and plinth in: Cement mortar 1:6 (1 cement : 6 coarse sand)   | 6.1.2      | 77.250   | CUM  | 7132.25 | 550,966.31         |                       |
| <b>E</b> | <b>Cladding Work</b>   |            |          |      |         |                    |                       |
|          | Providing and fixing 18 mm thick gang saw cut, mirror polished, premoulded and prepolished, machine cut for kitchen platforms, vanity counters, window sills, facias and similar locations of required size, approved shade, colour and texture laid over 20 mm thick base cement mortar 1:4 (1 cement : 4 coarse sand), joints treated with white cement, mixed with matching pigment, epoxy touch ups, including rubbing, curing, moulding and polishing to edges to give high gloss finish etc. complete at all levels. |            |          |      |         |                    |                       |
| 14       | Area of slab upto 0.50 sqm   | 8.2.2.1    | 13.08    | SQM  | 5413.50 | 70,808.58          |                       |
| 15       | Area of slab over 0.50 sqm   | 8.2.2.2    | 78.24    | SQM  | 5136.30 | 401,864.11         |                       |
| 16       | Providing edge moulding to 18mm thick marble stone counters, Vanities etc. including machine polishing to edge to give high gloss finish etc. complete as per design approved by Engineer-in-Charge.<br>Granite work   | 8.3.2      | 130.44   | RM   | 510.95  | 66,648.32          |                       |
| 17       | Extra for fixing marble /granite stone over and above corresponding basic item, in facia and drops of width upto 150 mm with epoxy resin based adhesive including cleaning etc. complete.  | 8.4        | 130.44   | RM   | 568.55  | 74,161.66          |                       |
| 18       | Extra for providing opening of required size & shape for wash basins/ kitchen sink in kitchen platform, vanity counters and similar location in marble/Granite/stone work including necessary holes for pillar taps etc. including moulding, rubbing and polishing of cut edges etc. complete.   | 8.5        | 12.00    | EACH | 978.70  | 11,744.40          |                       |
| 19       | Stone tile (polished) work for wall lining over 12 mm thick bed of cement mortar 1:3 (1 cement : 3 coarse sand) and cement slurry @ 3.3 kg/sqm including pointing in white cement complete. <b>8mm thick Granite of any colour and shade</b>   | 8.9.1.2    | 162.730  | SQM  | 3617.55 | 588,683.91         |                       |
| 20       | Providing and fixing 1st quality ceramic glazed wall tiles conforming to IS: 15622 (thickness to be specified by the manufacturer), of approved make, in all colours, shades except burgundy, bottle green, black of any size as approved by Engineer-in-Charge, in skirting, risers of steps and dados, over 12 mm thick bed of cement mortar 1:3 (1 cement : 3 coarse sand) and jointing with grey cement slurry @ 3.3kg per sqm, including pointing in white cement mixed with pigment of matching shade complete.      | 8.31       | 362.110  | SQM  | 1267.95 | 459,137.37         |                       |
| <b>F</b> | <b>Wood and PVC Work</b>   |            |          |      |         |                    |                       |
| 21       | Providing and fixing ISI marked flush door shutters conforming to IS : 2202 (Part I) non-decorative type, core of block board construction with frame of 1st class hard wood and well matched commercial 3 ply veneering with vertical grains or cross bands and face veneers on both faces of shutters:   | 9.21       |          |      |         |                    |                       |
|          | 35 mm thick including ISI marked Stainless Steel butt hinges with necessary screws   | 9.21.1     | 91.980   | SQM  | 2392.65 | 220,075.95         |                       |
| 22       | Extra for providing lipping with 2nd class teak wood battens 25 mm minimum depth on all edges of flush door shutters (over all area of door shutter to be measured).   | 9.23       | 91.980   | SQM  | 462.35  | 42,526.95          |                       |
| 23       | Extra for cutting rebate in flush door shutters (Total area of the shutter to be measured).  | 9.26       | 3.780    | SQM  | 106.70  | 403.33             |                       |
| 24       | Providing and fixing M.S. grills of required pattern in frames of windows etc. with M.S. flats, square or round bars etc. including priming coat with approved steel primer all complete. Fixed to steel windows by welding.   | 9.48.1     | 4045.680 | KG   | 219.10  | 886,408.49         |                       |
| 25       | Providing and fixing oxidised M.S. casement stays (straight peg type) with necessary screws etc. complete.   |            |          |      |         |                    |                       |
| (i)      | 300 mm weighing not less than 200 gms  | 9.68.1     | 230.00   | NOS  | 67.40   | 15,502.00          |                       |
| (ii)     | 250 mm weighing not less than 150 gms  | 9.68.2     | 189.00   | NOS  | 61.05   | 11,538.45          |                       |
| 26       | Providing and fixing aluminium hanging floor door stopper ISI marked anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour or shade with necessary screws etc. complete. Twin rubber stopper   | 9.101.2    | 69.000   | NOS  | 72.35   | 4,992.15           |                       |

| S.N.     | DESCRIPTION OF ITEM  | DSR - 2023 | QUANTITY | UNIT | RATES   | AMOUNT DSR<br>ITEM | AMOUNT<br>[M.R. ITEM] |
|----------|--|------------|----------|------|---------|--------------------|-----------------------|
| 27       | Providing and fixing Fiber Glass Reinforced plastic (FRP) Door Frames of cross-section 90 mm x 45 mm having single rebate of 32 mm x 15 mm to receive shutter of 30 mm thickness. The laminate shall be moulded with fire resistant grade unsaturated polyester resin and chopped mat. Door frame laminate shall be 2mm thick and shall be filled with suitable wooden block in all the three legs. The frame shall be covered with fiber glass from all sides. M.S. stay shall be provided at the bottom to steady the frame.   | 9.121      | 167.550  | RM   | 570.95  | 95,662.67          |                       |
| 28       | Providing and fixing to existing door frames.<br>30 mm thick Fiberglass Reinforced Plastic (F.R.P.) flush door shutter in different plain and wood finish made with fire retardant grade unsaturated polyester resin, moulded to 3 mm thick FRP laminate all around, with suitable wooden blocks inside at required places for fixing of fittings and polyurethane foam (PUF)/Polystyrene foam to be used as filler material throughout the hollow panel, casted monolithically with testing parameters of F.R.P. laminate conforming to table - 3 of IS: 14856, complete as per direction of Engineer-in-charge   | 9.122.2    | 51.980   | SQM  | 4488.95 | 233,335.62         |                       |
| 29       | Providing & Fixing decorative high pressure laminated sheet of plain / wood grain in gloss / matt/ suede finish with high density protective surface layer and reverse side of adhesive bonding quality conforming to IS : 2046 Type S, including cost of adhesive of approved quality. 1.0 mm thick   | 9.127.2    | 183.96   | SQM  | 897.30  | 165,067.31         |                       |
| 30       | Providing and fixing bright /matt finished Stainless Steel handles of approved quality & make with necessary screws etc all complete. (a) 125 mm.  | 9.165.1    | 138.000  | NOS  | 119.20  | 16,449.60          |                       |
| 31       | Providing & fixing Stainless steel sliding door bolts ISI marked anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour or shade with nuts and screws etc complete. (a) 250mm x 16mm .  | M.R.       | 68.000   | NOS  | 560.00  |                    | 38,080.00             |
| 32       | Providing and fixing stainless steel towerbolts (barrel type) with necessary screws etc. complete.   |            |          |      |         |                    |                       |
|          | 300 x 10mm   | M.R.       | 68.000   | NOS  | 448.00  |                    | 30,464.00             |
|          | 150 x 10mm   | M.R.       | 68.000   | NOS  | 392.00  |                    | 26,656.00             |
| <b>G</b> | <b>Steel Work</b>  |            |          |      |         |                    |                       |
| 33       | Providing and fixing factory made ISI marked steel glazed doors, windows and ventilators, side /top /centre hung, with beading and all members such as F7D, F4B, K11 B and K12 B etc. complete of standard rolled steel sections, joints mitred and flash butt welded and sash bars tenoned and riveted, including providing and fixing of hinges, pivots, including priming coat of approved steel primer, but excluding the cost of other fittings, complete all as per approved design, (sectional weight of only steel members shall be measured for payment). Fixing with 15x3 mm lugs 10 cm long embedded in cement concrete block 15x10x10 cm of C.C. 1:3:6 (1 Cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size). | 10.11.1    | 458.46   | KG   | 131.05  | 60,081.18          |                       |
| 34       | Providing and fixing M.S. Tubular frames for doors, windows, ventilators and cupboard with rectangular/ L-Type sections, made of 1.60 mm thick M.S. Sheet, joints mitred, welded and grinded finish, with profiles of required size, including fixing of necessary butt hinges and screws and applying a priming coat of approved steel primer. Fixing with 15x3 mm lugs 10 cm long embedded in cement concrete block 15x10x10 cm of C.C. 1:3:6 (1 Cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size)   | 10.15.1    | 1353.48  | Kg   | 195.20  | 264,199.30         |                       |
| 35       | Providing & fixing glass panes with putty and glazing clips in steel doors, windows, clerestory windows, all complete with : 4.0 mm thick glass panes.   | 10.30.1    | 32.780   | SQM  | 1064.65 | 34,899.23          |                       |
| 36       | Providing and fixing stainless steel ( Grade 304) railing made of Hollow tubes, channels, plates etc., including welding, grinding, buffing, polishing and making curvature (wherever required) and fitting the same with necessary stainless steel nuts and bolts complete, i/c fixing the railing with necessary accessories & stainless steel dash fasteners , stainless steel bolts etc., of required size, on the top of the floor or the side of waist slab with suitable arrangement as per approval of Engineer-in-charge.   | 10.28      | 137.050  | KG   | 772.40  | 105,857.42         |                       |
| <b>H</b> | <b>Flooring</b>  |            |          |      |         |                    |                       |
| 37       | Chequered precast cement concrete tiles 22 mm thick in footpath & courtyard, jointed with neat cement slurry mixed with pigment to match the shade of tiles, including rubbing and cleaning etc. complete, on 20 mm thick bed of cement mortar 1:4 (1 cement: 4 coarse sand). <b>Medium shade pigment using 50% white cement 50% Grey cement</b>   | 11.20.2    | 17.410   | SQM  | 1328.35 | 23,126.57          |                       |

| S.N.     | DESCRIPTION OF ITEM  | DSR - 2023 | QUANTITY | UNIT | RATES   | AMOUNT DSR<br>ITEM | AMOUNT<br>[M.R. ITEM] |
|----------|--|------------|----------|------|---------|--------------------|-----------------------|
| 38       | Providing and fixing 10 mm thick acid and/or alkali resistant tiles of approved make and colour using acid and/or alkali resisting mortar bedding, and joints filled with acid and/or alkali resisting cement as per IS : 4457, complete as per the direction of Engineer-in- Charge.In flooring on a bed of 10 mm thick mortar 1:4 (1 acid proof cement : 4 coarse sand) Acid and alkali resistant tile.  | 11.21.1.1  | 62.330   | SQM  | 1738.15 | 108,338.89         |                       |
| 39       | Providing and fixing 10 mm thick acid and/or alkali resistant tiles of approved make and colour using acid and/or alkali resisting mortar bedding, and joints filled with acid and/or alkali resisting cement as per IS : 4457, complete as per the direction of Engineer-in- Charge.In dado/skirting on 12 mm thick mortar 1:4 (1 acid proof cement : 4 coarse sand) Acid and alkali resistant tile.  | 11.21.2    | 48.470   | SQM  | 1884.90 | 91,361.10          |                       |
| 40       | Kota stone slab flooring over 20 mm (average) thick base laid over and jointed with grey cement slurry mixed with pigment to match the shade of the slab, including rubbing and polishing complete with base of cement mortar 1 : 4 (1 cement : 4 coarse sand) : 25 mm thick   | 11.26.1    | 16.730   | SQM  | 1948.25 | 32,594.22          |                       |
| 41       | Kota stone slabs 20 mm thick in risers of steps, skirting, dado and pillars laid on 12 mm (average) thick cement mortar 1:3 (1 cement: 3 coarse sand) and jointed with grey cement slurry mixed with pigment to match the shade of the slabs, including rubbing and polishing complete.  | 11.27      | 2.510    | SQM  | 2354.70 | 5,909.12           |                       |
| 42       | Providing and laying Vitrified tiles in floor in different sizes (thickness to be specified by the manufacturer) with water absorption less than 0.08% and conforming to IS:15622, of approved brand & manufacturer, in all colours and shade, laid on 20 mm thick cement mortar 1:4 (1 cement: 4 coarse sand) jointing with grey cement slurry @3.3 kg/sqm including grouting the joints with white cement and matching pigments etc. The tiles must be cut with the zero chipping diamond cutter only . Laying of tiles will be done with the notch trowel, plier, wedge, clips of required thickness, leveling system and rubber mallet for placing the tiles gently and easily.Glazed Vitrified tiles<br><b>Matt/Antiskid</b> finish of size<br><b>Size of Tile 600 x 600 mm</b> | 11.41A.3.1 | 36.000   | SQM  | 1464.85 | 52,734.60          |                       |
| 43       | Providing and laying vitrified floor tiles in different sizes (thickness to be specified by the manufacturer) with water absorption less than 0.08% and conforming to IS: 15622, of approved make, in all colours and shades, laid on 20mm thick cement mortar 1:4 (1 cement : 4 coarse sand), jointing with grey cement slurry @ 3.3kg/sqm including grouting the joints with white cement and matching pigments etc., complete. (a) Size of Tile 600x600 mm  | 11.41.2    | 445.771  | SQM  | 1553.45 | 692,483.63         |                       |
| 44       | Providing and laying Vitrified tiles in different sizes (thickness to be specified by manufacturer), with water absorption less than 0.08 % and onforming to I.S. 15622, of approved make, in all colours & shade, in skirting, riser of steps, over 12 mm thick bed of cement mortar 1:3 (1 cement: 3 coarse sand), jointing with grey cement slurry @ 3.3kg/sqm including grouting the joint with white cement & matching pigments etc. complete. Size of Tile 600x600 mm  | 11.46.2    | 66.866   | SQM  | 1623.05 | 108,526.40         |                       |
| <b>I</b> | <b>Finishing</b>   |            |          |      |         |                    |                       |
| 45       | 15 mm cement plaster on the rough side of single or half brick wall of mix : 1:6 (1 cement: 6 coarse sand)   | 13.5.2     | 457.800  | SQM  | 395.35  | 180,991.23         |                       |
| 46       | 12mm cement plaster in single coat on fair side of single or half brick wall for exterior plastering up to floor two level including internal rounded angles chamfers, and/or rounded angles not exceeding 80mm in girth and finished even and smooth no extra for mixing any additive. 1:6 (1 cement: 6 coarse sand)  | 13.4.2     | 100.490  | SQM  | 343.65  | 34,533.39          |                       |
| 47       | 6 mm cement plaster on ceiling (a) 1:3(1 cement:3 fine sand)   | 13.16.1    | 624.080  | SQM  | 300.45  | 187,504.84         |                       |
| 48       | Distempering with oil bound washable distemper of approved brand and manufacture to give an even shade : New work (two or more coats) over and including water thinnable priming coat with cement primer.  | 13.41.1    | 724.570  | SQM  | 185.65  | 134,516.42         |                       |
| 49       | Finishing walls with textured exterior paint of required shade: New work (Two or more coats applied @ 3.28 ltr/10 sqm) over and including priming coat of exterior primer applied @ 2.20kg/10 sqm  | 13.45.1    | 91.560   | SQM  | 223.60  | 20,472.82          |                       |
| 50       | Finishing walls with Premium Acrylic Smooth exterior paint with Silicone additives of required shade. New work (Two or more coats applied @ 1.43 ltr/ 10 sqm. over and including priming coat of exterior primer applied @ 2.20 kg/ 10 sqm).   | 13.47.1    | 366.240  | SQM  | 171.10  | 62,663.66          |                       |
|          | <b>Applying priming coat:</b>  | 13.50      |          |      |         |                    |                       |
| 51       | With ready mixed aluminum primer of approved brand and manufacture on resinous wood and plywood.   | 13.50.2    | 22.680   | SQM  | 74.65   | 1,693.06           |                       |

| S.N.     | DESCRIPTION OF ITEM  | DSR - 2023 | QUANTITY               | UNIT | RATES        | AMOUNT DSR<br>ITEM   | AMOUNT<br>[M.R. ITEM] |
|----------|--|------------|------------------------|------|--------------|----------------------|-----------------------|
| 52       | <b>Applying priming coat:</b><br>With ready mixed red oxide zinc chromate primer of approved brand and manufacture on steel galvanised iron/ steel works   | 13.50.3    | 81.890                 | SQM  | 67.40        | 5,519.39             |                       |
| 53       | "Painting with synthetic enamel paint of approved brand and manufacture of required colour to give an even shade :Two or more coats on new work over an under coat of suitable shade with ordinary paint of approved brand and manufacture"  | 13.62.1    | 81.890                 | SQM  | 226.25       | 18,527.61            |                       |
| 54       | Providing and applying white cement based putty of average thickness 1 mm, of approved brand and manufacturer, over the plastered wall surface to prepare the surface even and smooth complete.  | 13.80      | 624.080                | SQM  | 156.05       | 97,387.68            |                       |
| <b>J</b> | <b>Water Proofing</b>  |            |                        |      |              |                      |                       |
| 55       | Providing and laying water proofing treatment in sunken portion of WCs, bathroom etc., by applying cement slurry mixed with water proofing cement compound consisting of applying : a) First layer of slurry of cement @ 0.488 kg/sqm mixed with water proofing cement compound @ 0.253 kg/sqm. This layer will be allowed to air cure for 4 hours. b) Second layer of slurry of cement @ 0.242 kg/sqm mixed with water proofing cement compound @ 0.126 kg/sqm. This layer will be allowed to air cure for 4 hours followed with water curing for 48 hours. The rate includes preparation of surface, treatment and sealing of all joints, corners, junctions of pipes and masonry with polymer mixed slurry. | 22.5       | 62.60                  | SQM  | 617.05       | 38,627.33            |                       |
| 56       | Providing and filling of AAC Lightweight Broken Blocks sunken portions.  | MR         | 10.360                 | CUM  | 4132.00      |                      | 42,807.52             |
| 57       | Providing and fixing 8mm thick glass shelves in labs.  | 21.3.3     | 28.170                 | SQM  | 1685.40      | 47,477.72            |                       |
| 58       | Painting top of roofs with bitumen of approved quality @ 17kg per 10 sqm impregnated with a coat of coarse sand at 60 cudm per 10 sqm, including cleaning the slab surface with brushes and finally with a piece of cloth lightly soaked in kerosene oil complete :  | 12.15      |                        |      |              |                      |                       |
|          | With residual type petroleum bitumen of grade VG -10   | 12.15.1    | 624.08                 | SQM  | 166.20       | 103,722.10           |                       |
|          |  |            |                        |      |              |                      |                       |
|          |  |            |                        |      | <b>TOTAL</b> | <b>16,872,440.23</b> | <b>138,007.52</b>     |
|          |  |            | <b>Say Rs. In Lacs</b> |      |              | <b>168.72</b>        | <b>1.38</b>           |

| PLUMBING INTERNAL ESTIMATE  |                       |                   |                   |
|---|-----------------------|-------------------|-------------------|
| ESTIMATE OF FOR CONSTRUCTION OF ADDITIONAL DORMITORY & STAFF QUARTERS AT JNV KUPWARA, JAMMU AND KASHMIR |                       |                   |                   |
| Sl. No.   | Description           | School Building   |                   |
|   |                       | DSR Items -2023   | NS Items          |
| 1   | Sanitary Installation | 552,877.70        | 173,595.00        |
| 2   | Water Supply          | 163,606.58        | 72,190.00         |
| 3   | Drainage              | 160,171.55        | 12,288.00         |
|   | <b>Total</b>          | <b>876,655.83</b> | <b>258,073.00</b> |
|   | Say in Lacs           | 8.77              | 2.58              |

| PLUMBING INTERNAL ESTIMATE   |         |   |           |      |   |           |
|--|---------|---|-----------|------|---|-----------|
| ESTIMATE OF FOR CONSTRUCTION OF ADDITIONAL DORMITORY & STAFF QUARTERS AT JNV |         |   |           |      |   |           |
| S.No.  | DSR '23 | Description   | Rate      | Unit | school Building for 04 nos classroom & 04 Nos Laboratories including corridor & Toilets Blocks for boys and girls |           |
|  |         |   |           |      | Qty   | Amount    |
|  |         |   |           |      | DSR   | MR        |
|  |         | <b>Sub Head – I Sanitary Installation</b>   |           |      |   |           |
| 1.1  | 17.1    | Providing and fixing water closet squatting pan (Indian type W.C. pan ) with 100 mm sand cast Iron P or S trap, 10 litre low level white P.V.C. flushing cistern, including flush pipe, with manually controlled device (handle lever) conforming to IS : 7231, with all fittings and fixtures complete, including cutting and making good the walls and floors wherever required:.   |           |      |   |           |
|  | 17.1.1  | White Vitreous china Orissa pattern W.C. pan of size 580x440 mm with integral type foot rests.  | 6,767.40  | each | 9   | 60,906.60 |
|  |         |   |           |      |   |           |
| 1.2  | 17.3    | Providing and fixing white vitreous china pedestal type water closet (European type) with seat and lid, 10 litre low level white vitreous china flushing cistern & C.P. flush bend with fittings & C.I. brackets, 40 mm flush bend, overflow arrangement with specials of standard make and mosquito proof coupling of approved municipal design complete, including painting of fittings and brackets, cutting and making good the walls and floors wherever required :                |           |      |   |           |
|  | 17.3.1  | W.C. pan with ISI marked white solid plastic seat and lid   | 8,006.60  | each | 0   | -         |
|  |         |   |           |      |   |           |
| 1.3  | 17.81   | Providing and fixing floor mounted, white vitreous china single piece, double traps syphonic water closet of approved brand/make, shape, size and pattern including integrated white vitreous china cistern of capacity 10 litres with dual flushing system, including all fittings and fixtures with seat cover, cistern fittings, nuts, bolts and gasket etc including making connection with the existing P/S trap, complete in all respect as per directions of Engineer-in-Charge. | 18,212.90 | each | 0   | -         |
|  |         |   |           |      |   |           |
| 1.4  | 17.80   | Providing and fixing white vitreous china battery based infrared sensor operated urinal of approx. size 610 x 390 x 370 mm having pre & post flushing with water (250 ml & 500 ml consumption), having water inlet from back side, including fixing to wall with suitable brackets all as per manufacturers specification and direction of Engineer-in-charge.  | 7,979.20  | each | 0   | -         |
|  |         |   |           |      |   |           |
| 1.5  | 17.7    | Providing and fixing wash basin with C.I. brackets, 15 mm C.P. brass pillar taps, 32 mm C.P. brass waste of standard pattern, including painting of fittings and brackets, cutting and making good the walls wherever require:  |           |      |   |           |
| 1.5.1  | 17.7.3  | White Vitreous China Wash basin size 550x400 mm with a pair of 15 mm C.P. brass pillar taps   | 2,301.75  | each | 4.00  | 9,207.00  |
|  |         |   |           |      |   |           |
| 1.6  | NSI-1   | Providing and fixing white vitreous china wash basin under counter basin, with C.I. concealed type brackets fixed to walls with GI rag bolts or approved fasteners etc., including 32 mm CP brass waste coupling, including painting of fittings and brackets, cutting and making good the walls wherever required all complete (Granite counter top will be measured and paid separately under relevent item): as per approved make and decision of engineer-in-charge                 | 4,689.00  | each | 9   | 42,201.00 |
| 1.7  | 17.34   | Providing and fixing toilet paper holder :  |           |      |   |           |
|  | 17.34.1 | C.P. brass  | 803.70    | each | 9   | 7,233.30  |
|  |         |   |           |      |   |           |

|      | DSR '23   |  |          |       | Qty | Amount     |
|------|-----------|--|----------|-------|-----|------------|
| 1.8  | NSI-2     | Providing and fixing CP brass auto closing system basin pillar tap / hand wash o as approved by Engineer- In Charge  | 5,092.00 | each  | 9   | 45,828.00  |
| 1.9  | NSI-3     | Providing and fixing CP brass single lever basin mixer without popo with 450mm long braided hose (connection pipe) basin pillar tap of Jaquar LYR-38001B or Equivalent as approved by Engineer- In Charge.   | 7,406.00 | each  | 4   | 29,624.00  |
| 1.10 | 17.22A    | Providing and fixing 32mm C.P brass bottle Trap of approved quality & make as per the direction of engineer-in-charge.   | 1,034.80 | each  | 13  | 13,452.40  |
| 1.11 | 17.31     | Providing and fixing 600x450 mm beveled edge mirror of superior glass (of approved quality) complete with 6 mm thick hard board ground fixed to wooden cleats with C.P. brass screws and washers complete.   | 1,607.95 | Sqm   | 13  | 20,903.35  |
| 1.12 | 17.10     | Providing and fixing Stainless Steel A ISI 304 (18/8) kitchen sink as per IS : 13983 with C.I. brackets and stainless steel plug 40 mm, including painting of fittings and brackets, cutting and making good the walls wherever required :   |          |       |     |            |
|      | 17.10.1   | Kitchen sink with drain board  |          |       |     |            |
|      | 17.10.1.1 | 510x1040 mm bowl depth 250mm   | 6945.60  | each  | 1   | 6,945.60   |
|      | 17.10.2   | Kitchen sink without drain board   |          |       |     |            |
|      | 17.10.2.2 | 610x460 mm bowl depth 200 mm   | 3,873.80 | each  | 0   | -          |
| 1.13 | 17.11     | Providing and fixing white vitreous china laboratory sink with C.I. brackets, C.P. brass chain with rubber plug, 40 mm C.P brass waste and 40mm C.P. brass trap with necessary C.P. brass unions complete, including painting of fittings and brackets, cutting and making good the wall wherever required : |          |       |     |            |
|      | 17.11.1   | Size 450x300x150 mm  | 5,020.85 | each  | 6   | 30,125.10  |
| 1.14 | 17.28     | Providing and fixing P.V.C. waste pipe for sink or wash basin including P.V.C. waste fittings complete.  |          |       |     |            |
|      | 17.28.2   | Flexible pipe  |          |       |     |            |
|      | 17.28.2.2 | 40 mm dia  | 119.55   | each  | 7   | 836.85     |
| 1.15 | 17.35     | Providing and fixing soil, waste and vent pipes :  |          |       |     |            |
|      | 17.35.1   | 100 mm dia   |          |       |     |            |
|      | 17.35.1.3 | Hubless centrifugally cast (spun) iron pipes epoxy coated inside & outside IS:15905  | 1,169.30 | meter | 162 | 189,426.60 |
| 1.16 | 17.38     | Providing and fixing bend of required degree with access door, insertion rubber washer 3 mm thick, bolts and nuts complete.  |          |       |     |            |
|      | 17.38.1   | 100 mm   |          |       |     |            |
|      | 17.38.1.3 | Hubless centrifugally cast (spun) iron epoxy coated inside & outside I.S. 15905  | 567.20   | each  | 1   | 567.20     |
| 1.17 | 17.39     | Providing and fixing plain bend of required degree.  |          |       |     |            |
|      | 17.39.1   | 100 mm   |          |       |     |            |
|      | 17.39.1.3 | Hubless centrifugally cast (spun) iron pipe epoxy inside & outside IS: 15905   | 368.00   | each  | 45  | 16,560.00  |
| 1.18 | 17.40     | Providing and fixing heel rest sanitary bend   |          |       |     |            |
|      | 17.40.1   | 100 mm dia   |          |       |     |            |
|      | 17.40.1.2 | Sand cast iron S&S as per IS - 3989  | 548.70   | each  | 6   | 3,292.20   |
| 1.19 | 17.42     | Providing and fixing double equal plain junction of required degree  |          |       |     |            |
|      | 17.42.1   | 100x100x100x100 mm   |          |       |     |            |



|      | DSR '23    |  |          |       | Qty | Amount    |
|------|------------|--|----------|-------|-----|-----------|
|      | 17.42.1.3  | Hubless centrifugally cast (spun) iron pipe epoxy inside & outside IS: 15905   | 760.70   | each  | 4   | 3,042.80  |
| 1.20 | 17.43      | Providing and fixing single equal plain junction of required degree with access door, insertion rubber washer 3 mm thick, bolts and nuts complete.   |          |       |     |           |
|      | 17.43.1    | 100x100x100 mm   |          |       |     |           |
|      | 17.43.1.2  | sand cast Iron S&S as per IS: 3989   | 925.70   | each  | 12  | 11,108.40 |
| 1.21 | 17.44      | Providing and fixing single equal plain junction of required degree  |          |       |     |           |
|      | 17.44.1    | 100x100x100 mm   |          |       |     |           |
|      | 17.44.1.3  | Hubless centrifugally cast (spun) iron pipe epoxy inside & outside IS: 15905   | 581.45   | each  | 12  | 6,977.40  |
| 1.22 | 17.56      | Providing and fixing terminal guard:   |          |       |     |           |
|      | 17.56.1    | 100 mm   |          |       |     |           |
|      | 17.56.1.3  | Hubless centrifugally cast (spun) iron pipe epoxy inside & outside IS: 15905   | 427.80   | each  | 6   | 2,566.80  |
| 1.23 | 17.57A     | Providing and fixing shielded coupling for Hubless centrifugally cast iron pipes   |          |       |     |           |
|      | 17.57A.1   | 100 mm   |          |       |     |           |
|      | 17.57A.1.1 | S S 304 grade coupling with EPDM rubber gasket   | 432.05   | each  | 162 | 69,992.10 |
| 1.24 | 17.59      | Providing and fixing M.S. stays and clamps for sand cast iron/centrifugally cast (spun) iron pipes of diameter :   |          |       |     |           |
|      | 17.59.1    | 100 mm   | 139.70   | each  | 6   | 838.20    |
| 1.25 | 17.65      | Painting sand cast iron/ centrifugally cast (spun) iron soil, waste vent pipes and fittings with two coats of synthetic enamel paint of any colour such as chocolate grey, or buff etc. over a coat of primer (of approved quality) for new work :   |          |       |     |           |
|      | 17.65.1    | 100 mm diameter pipe   | 82.80    | meter | 60  | 4,968.00  |
| 1.26 | 17.37      | Providing and fixing M.S. holder-bat clamps of approved design to Sand Cast iron/cast iron (spun) pipe embedded in and including cement concrete blocks 10x10x10cm of 1:2:4 mix (1 cement : 2 coarse sand : 4 graded stone aggregate 20mm nominal size) including cost of cutting holes and making good the walls etc. : |          |       |     |           |
|      | 17.37.1    | 100 mm diameter pipe   | 362.85   | each  | 30  | 10,885.50 |
| 1.27 | 18.10      | Providing and fixing G.I. soil / waste pipes complete with G.I. fittings and clamps, i/c cutting and making good the walls etc.  |          |       |     |           |
|      | 18.10.4    | 32 mm dia. nominal bore  | 667.00   | metre | 25  | 16,675.00 |
|      | 18.10.5    | 40 mm dia. nominal bore  | 811.90   | metre | 15  | 12,178.50 |
|      | 18.10.6    | 50 mm dia. nominal bore  | 1,048.35 | metre | 10  | 10,483.50 |
| 1.28 | 17.60      | Providing and fixing trap of self cleansing design with screwed down or hinged grating with or without vent arm complete, including cost of cutting and making good the walls and floors :   |          |       |     |           |
|      | 17.60.1    | 100 mm inlet and 100 mm outlet   |          |       |     |           |
|      | 17.60.1.3  | Hubless centrifugally cast (spun) iron epoxy coated inside & outside as per IS:15905   | 854.55   | each  | 10  | 8,545.50  |
| 1.29 | 18.77      | Cutting holes up to 15 x 15 cm in R.C.C. floors and roofs for passing drain pipe etc. and repairing the hole after insertion of drain pipe etc. with cement concrete 1:2:4 ( 1 Cement : 2 course sand : 4 graded stone aggregate 20 mm nominal size ) , including finishing complete so as to make it leak proof.        | 452.00   | each  | 10  | 4,520.00  |

|      | DSR '23   |  |          |       | Qty | Amount    |  |
|------|-----------|--|----------|-------|-----|-----------|--|
| 1.30 | NSI-4     | Providing & fixing in position GI 100x50 elbow floor drain including cost of cutting and making good the walls and floors wherever required.   | 1,541.00 | each  | 10  | 15,410.00 |  |
| 1.31 | NSI-5     | Providing and fixing 125 mm dia S/S grating (with or without hole) for floor or Nahani trap.   | 620.00   | each  | 20  | 12,400.00 |  |
| 1.32 | NSI-6     | Providing and fixing soap dish holder from wall of standard shape with fittings of approved quality with all complete. Make Jaquar - ACN-1131N & Equivalent  | 1,159.00 | each  | 0   | -         |  |
| 1.33 | NSI-7     | Providing and fixing soap dispenser with glass bottle from wall of standard shape with fittings of approved quality with all complete. Make Jaquar - ACN-1135N & Equivalent  | 2,095.00 | each  |     | -         |  |
| 1.34 | NSI-8     | Providing & fixing 600 mm towel rail long stainless steel from wall face with concealed fittings arrangement of approved quality with all complete. Make Jaquar - CAN-1111SM   | 2,025.00 | each  | 4   | 8,100.00  |  |
| 1.35 | 18.65     | Providing and fixing PTMT soap Dish Holder having length of 138mm, breadth 102mm, height of 75mm with concealed fitting arrangements, weighing not less than 106 gms.  | 111.45   | each  | 9   | 1,003.05  |  |
| 136  | 17.73     | Providing and fixing PTMT towel rail complete with brackets fixed to wooden cleats with CP brass screws with concealed fittings arrangement of approved quality and colour.  |          |       |     |           |  |
|      | 17.73.2   | 600 mm long towel rail with total length of 645 mm, width 78 mm and effective height of 88 mm, weighing not less than 190 gms.   | 708.95   | each  | 0   | -         |  |
| 1.37 | 12.22     | Making khurras 45x45 cm with average minimum thickness of 5 cm cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate of 20 mm nominal size) over P.V.C. sheet 1 m x 1 m x 400 micron, finished with 12 mm cement plaster 1:3 (1 cement : 3 coarse sand) and a coat of neat cement, rounding the edges and making and finishing the outlet complete. | 298.25   | each  | 4   | 1,193.00  |  |
| 1.38 | 12.41.2   | Providing and fixing on wall face unplasticised Rigid PVC rain water pipes conforming to IS : 13592 Type A, including jointing with seal ring conforming to IS : 5382, leaving 10 mm gap for thermal expansion,<br>(i) Single socketed pipes.<br>110 mm diameter   | 377.40   | metre | 60  | 22,644.00 |  |
| 1.39 | 12.42     | Providing and fixing on wall face unplasticised - PVC moulded fittings/ accessories for unplasticised Rigid PVC rain water pipes conforming to IS : 13592 Type A, including jointing with seal ring conforming to IS : 5382, leaving 10 mm gap for thermal expansion.  |          |       |     |           |  |
|      | 12.42.1   | Coupler  |          |       |     |           |  |
|      | 12.42.1.2 | 110 mm   | 136.15   | each  | 10  | 1,361.50  |  |
|      | 12.42.3   | Single tee with door   |          |       |     |           |  |
|      | 12.42.3.2 | 110x110x110 mm   | 234.15   | each  | 5   | 1,170.75  |  |
|      | 12.42.5   | Bend 87.5°   |          |       |     |           |  |
|      | 12.42.5.2 | 110 mm   | 150.35   | each  | 5   | 751.75    |  |
|      | 12.42.6   | Shoe (Plain)   |          |       |     |           |  |
|      | 12.42.6.2 | 110 mm Shoe  | 131.85   | each  | 5   | 659.25    |  |

|      | DSR '23 |  |           |       | Qty | Amount                       |
|------|---------|--|-----------|-------|-----|------------------------------|
| 1.40 | 12.43   | Providing and fixing unplasticised -PVC pipe clips of approved design to unplasticised - PVC rain water pipes by means of 50x50x50 mm hard wood plugs, screwed with M.S. screws of required length, including cutting brick work and fixing in cement mortar 1:4 (1 cement : 4 coarse sand) and making good the wall etc. complete.  |           |       |     |                              |
|      | 12.43.2 | 110 mm   | 371.30    | each  | 5   | 1,856.50                     |
| 1.41 | NSI-9   | Supplying and fixing of HDPE pipe (PE grade 63 - PN-8 ) conforming to IS 14333-1996 chemical waste pipes jointed with rubber ring with good quality lubricant with fittings inclusive of all necessary specials like bends, tees, offsets, junctions etc laid under floor/under ceiling/on walls with suitable clamps and specials curing, necessary chasing, jointing and restoring to original conditions, testing etc. including all other incidental charges etc. complete for successful completion of work as per specifications, and as directed by Engineer -in- Charge. |           |       |     |                              |
|      | a)      | 110 mm outer dia   | 1,543.00  | metre | 10  | 15,430.00                    |
|      | b)      | 50 mm outer dia  | 558.00    | metre | 6   | 3,348.00                     |
| 1.42 | NSI-10  | Providing & fixing in position upvc P"or S" trap of self cleaning design of following sizes for the embedded areas Making proper connection with chemical sealant joint , cutting chase / hole in floors /slabs and bringing the same in proper condition in cement concrete 1:2:4 mix complete as required. including cost of cutting and making good the walls and floors wherever required.   | 627.00    | each  | 2   | 1,254.00                     |
| 1.43 | NSI-11  | Providing & Fixing water cooler with stainless steel having storage capacity of 80 liter & cooling capacity 60 liter / hour with Reverse osmosis system & ultra violet membrane TDS reduction 90% having automatic back wash system with filtration unit & all other required accessories complete in all respect as per direction of the engineer in charge .   | 65,604.00 | each  | 0   | -                            |
|      |         | <b>TOTAL</b>   |           |       |     | <b>552,877.70 173,595.00</b> |
|      |         | <b>Sub Head – II Water Supply</b>  |           |       |     |                              |
| 2.1  | 18.10   | Providing and fixing G.I. pipes complete with G.I. fittings and clamps, i/c cutting and making good the walls etc.   |           |       |     |                              |
|      |         | <b>Internal work – Exposed on wall.</b>  |           |       |     |                              |
|      | 18.10.2 | 20 mm nominal outer dia Pipes  | 437.30    | metre | 40  | 17,492.00                    |
|      | 18.10.3 | 25 mm nominal outer dia Pipes  | 551.70    | metre | 40  | 22,068.00                    |
|      | 18.10.4 | 32 mm nominal outer dia Pipes  | 667.00    | metre | 15  | 10,005.00                    |
|      | 18.10.5 | 40 mm nominal outer dia Pipes  | 811.90    | metre | 10  | 8,119.00                     |
|      | 18.10.6 | 50 mm nominal outer dia Pipes  | 1,048.35  | metre | 10  | 10,483.50                    |
|      | NSI-12a | 65 mm nominal outer dia Pipes  | 1,084.00  | metre | 0   | -                            |
|      | NSI-12b | 80 mm nominal outer dia Pipes  | 1,276.00  | metre | 0   | -                            |
| 2.2  | 18.8    | Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply, including all CPVC plain & brass threaded fittings, i/c fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and the cost of cutting chases and making good the same including testing of joints complete as per direction of Engineer in Charge.   |           |       |     |                              |
|      |         | Concealed including cutting chases and making good the wall etc.   |           |       |     |                              |
|      | 18.8.2  | 15 mm nominal outer dia Pipes  | 537.60    | metre | 28  | 14,784.00                    |
|      | 18.8.3  | 20 mm nominal outer dia Pipes  | 627.25    | metre | 28  | 17,249.38                    |

|      | DSR '23   |   |          |           | Qty   | Amount    |           |
|------|-----------|---|----------|-----------|-------|-----------|-----------|
|      | 18.8.4    | 25 mm nominal outer dia Pipes   | 739.30   | metre     | 22    | 16,264.60 |           |
| 2.3  | 18.17     | Providing and fixing gun metal gate valve with C.I. wheel of approved quality (screwed end) :   |          |           |       |           |           |
|      | 18.17.1A  | 20 mm dia. nominal bore   | 539.95   | each      | 2     | 1,079.90  |           |
|      | 18.17.1   | 25 mm dia. nominal bore   | 622.40   | each      | 6     | 3,734.40  |           |
|      | 18.17.2   | 32 mm dia. nominal bore   | 689.60   | each      | 2     | 1,379.20  |           |
|      | 18.17.3   | 40 mm dia. nominal bore   | 826.10   | each      | 2     | 1,652.20  |           |
|      | 18.17.4   | 50 mm dia. nominal bore   | 1,026.65 | each      | 2     | 2,053.30  |           |
| 2.4  | 18.18     | Providing and fixing ball valve (brass) of approved quality, High or low pressure, with plastic floats complete :   |          |           |       |           |           |
|      | 18.18.3   | 25 mm nominal bore  | 464.05   | each      | 2     | 928.10    |           |
| 2.5  | NSI-13    | Providing and fixing hand held ablution fitting (health faucet) with 1.2 meter long flexible tube and wall hook, all complete approved engineer-in-charge   | 2,373.00 | each      | 9     |           | 21,357.00 |
| 2.6  | NSI-14    | Supply and fixing of 15mm CP brass 2 -Way Bib Cock with wall flange and suitable length CP brass extension pipe all of approved engineer-in-charge  | 2,654.00 | each      | 9     |           | 23,886.00 |
| 2.7  | 18.48     | Providing and placing on terrace (at all floor levels) polyethylene water storage tank, IS : 12701 marked, with cover and suitable locking arrangement and making necessary holes for inlet, outlet and overflow pipes but without fittings and the base support for tank | 11.00    | per litre | 2,500 | 27,500.00 |           |
| 2.8  | 18.51     | Providing and fixing C.P. brass long nose bib cock of approved quality conforming to IS standards and weighing not less than 810 gms.   |          |           |       |           |           |
|      | 18.51.1   | 15 mm nominal bore  | 796.95   | each      | 6     | 4,781.70  |           |
| 2.9  | 18.52     | Providing and fixing C.P. brass stop cock (concealed) of standard design and of approved make conforming to IS:8931.  |          |           |       |           |           |
|      | 18.52.1   | 15 mm nominal bore  | 670.45   | each      | 0     | -         |           |
| 2.10 | 18.53     | Providing and fixing C.P. brass angle valve for basin mixer and geyser points of approved quality conforming to IS:8931   |          |           |       |           |           |
|      | 18.53.1   | 15mm nominal bore   | 574.30   | each      | 6     | 3,445.80  |           |
| 2.11 | 18.21     | Providing and fixing uplasticised PVC connection pipe with brass unions :   |          |           |       |           |           |
|      | 18.21.2   | 45 cm length  |          |           |       |           |           |
|      | 18.21.2.1 | 15 mm nominal bore  | 97.75    | each      | 6     | 586.50    |           |
| 2.12 | 18.22     | Providing and fixing C.P. brass shower rose with 15 or 20 mm inlet :  |          |           |       |           |           |
|      | 18.22.2   | 150 mm diameter   | 222.35   | each      | 0     | -         |           |
| 2.13 | 17.22B    | Providing and fixing CP Brass Single lever telephonic wall mixer of quality & make as approved by Engineer in charge.   |          |           |       |           |           |
|      |           | (a) 15 mm nominal dia   | 6,940.75 | each      | 0     | -         |           |
| 2.14 | NSI-15    | Providing , Fixing, testing and commissioning of CP Brass 150 mm x 150 mm Shower head with wall flange with all accessories as required and making good the walls wherever required. ( MAKE-JAQUAR -Model No- OHS-35495 or EQUIVALENT.)                                   | 4,875.00 | each      | 0     |           | -         |

|      | DSR '23  |   |           |       | Qty  | Amount            |                  |
|------|----------|---|-----------|-------|------|-------------------|------------------|
| 2.15 | NSI-16   | Supply ,Erection , Testing & Commissioning of Automatic water level control panel & related accessories for pumping automation with consisting of automatic water level controller , level sensor with stainless steel probe, motorized butterfly valve, motorized valve controller with complete in all respect.   |           |       |      |                   |                  |
|      | a        | upto 50 mm dia. nominal bore  | 26,947.00 | each  | 1    |                   | 26,947.00        |
|      |          | <b>TOTAL</b>  |           |       |      | <b>163,606.58</b> | <b>72,190.00</b> |
|      |          | <b>SUBHEAD – III Drainage</b>   |           |       |      |                   |                  |
| 3.1  | NSI-17   | Supply and fixing HDPE double wall corrugated ( DWC ) I.S 16098 ( Part - 2 ) 3013 for soil / waste pipe under ground drainage system with jointed with rubber ring with good quality lubricant for fittings, inclusive of all necessary specials like bends, tees, offsets, junctions, re excavation and refilling etc complete.  |           |       |      |                   |                  |
|      | a        | 150 mm diameter   | 1,024.00  | metre | 12   |                   | 12,288.00        |
|      | b        | 200 mm diameter   | 1,298.00  | metre | 0    |                   | -                |
| 3.2  | 19.4     | Providing and fixing square-mouth S.W. gully trap class SP-1 complete with C.I. grating brick masonry chamber with water tight C.I. cover with frame of 300 x300 mm size (inside) the weight of cover to be not less than 4.50 kg and frame to be not less than 2.70 kg as per standard design :  |           |       |      |                   |                  |
|      | 19.4.3   | 180x150 mm size P type  |           |       |      |                   |                  |
|      | 19.4.3.1 | With fly ash bricks (non modular) bricks of class designation 7.5   | 2,802.15  | each  | 6    | 16,812.90         |                  |
| 3.3  | 19.6     | Providing and laying non-pressure NP2 class (light duty) R.C.C. pipes with collars jointed with stiff mixture of cement mortar in the proportion of 1:2 (1 cement : 2 fine sand) including testing of joints etc. complete :  |           |       |      |                   |                  |
|      | 19.6.2   | 150 mm dia. R.C.C. pipe   | 556.45    | metre | 10   | 5,564.50          |                  |
|      | 19.6.3   | 250 mm dia. R.C.C. pipe   | 899.80    | metre |      | -                 |                  |
|      | 19.6.4   | 300 mm dia. R.C.C. pipe   | 994.30    | metre |      | -                 |                  |
| 3.4  | 19.7     | Constructing brick masonry manhole in cement mortar 1:4 (1 cement :4 coarse sand) with RCC top slab with 1:2:4 mix ( 1 cement : 2 coarse sand : 4 stone aggregate 20 mm nominal size ) , foundation concrete 1:4:8 mix (1 cement : 4 coarse sand : 8 stone aggregate 40 mm nominal size ) inside plastering 12 mm thick with cement mortar 1:3 (1 cement : 3 coarse sand) finished with a floating coat of neat cement, foundation concrete 1:3:6 mix (1 cement :3 coarse sand : 6 graded stone aggregate 40 mm nominal size),and making necessary channel in cement concrete 1:2:4 (1 cement :2 coarse sand :4 graded stone aggregate 20 mm nominal size) finished with a floating coat of neat cement complete as per standard design . |           |       |      |                   |                  |
|      | 19.7.1   | inside size 90x80 cms and 45 cms deep including CI cover with frame ( light duty ) 455x610 mm internal dimensions total weight of cover & frame to be not less than 38 kg (weight of cover 23 kg & weight of frame 15 kg )  |           |       |      |                   |                  |
|      | 19.7.1.1 | with common burnt clay FPS ( non modular ) bricks of class designation 7.5  | 12,770.55 | Each  | 5.00 | 63,852.75         |                  |
| 3.5  | 19.8     | Extra depth for manhole 90x80 cm  |           |       |      |                   |                  |
|      | 19.8.1.1 | With FPS bricks class designation 7.5   | 8,825.40  | Metre | 1.00 | 8,825.40          |                  |
|      |          |   |           |       |      |                   |                  |
|      |          |   |           |       |      |                   |                  |

|     | DSR '23 |  |          |      | Qty   | Amount            |
|-----|---------|--|----------|------|-------|-------------------|
| 3.6 | 19.16   | Providing orange colour safety foot rest of minimum 6 mm thick plastic encapsulated as per IS : 10910, on 12 mm dia steel bar conforming to IS:1786, having minimum cross section as 23 mmx25 mm and over all minimum length 263 mm and width as 165 mm with minimum 112 mm space between protruded legs having 2 mm tread on top surface by ribbing or chequering esides necessary and adequate anchoring projections on tail length on 138 mm as per standard drawing and suitable to with stand the bend test and chemical resistance test as per pecifications and having manufacture's permanent identification mark to be visible even after fixing,including fixing in manholes with 30x20x15 cm cement concrete block 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size) complete as per design. | 553.70   | Each | 10.00 | 5,537.00          |
| 3.7 | 19.27   | Constructing brick masonry road gully chamber 50x45x60 cm with bricks in cement mortar 1:4 (1 cement : 4 coarse sand) including 500x450 mm pre-cast R.C.C. horizontal grating with frame complete as per standard design :   |          |      |       |                   |
|     | 19.27.1 | With common burnt clay F.P.S. (non modular) bricks of class designation 7.5  | 5,957.90 | Each | 10.00 | 59,579.00         |
|     |         | <b>TOTAL</b>   |          |      |       | <b>160,171.55</b> |
|     |         |  |          |      |       | <b>12,288.00</b>  |

**ESTIMATE OF FOR CONSTRUCTION OF ADDITIONAL DORMITORY & STAFF QUARTERS AT JNV  
KUPWARA, JAMMU AND KASHMIR**

**ABSTRACT OF COST FOR ELECTRICAL WORKS school Building for 04 nos classroom & 04 Nos Laboratories  
including corridor & Toilets Blocks for boso and girls (G+2)**

| Sl.No.     | Name of Work                                  | TOTAL AMOUNT(IN RS.) |                   |
|------------|---|----------------------|-------------------|
|            |   | DSR-2022             | MR                |
|            |   |                      |                   |
| <b>I</b>   | <b>SUB HEAD - I: CIRCUIT CUM POINT WIRING</b> | <b>280,325.00</b>    | <b>95,085.55</b>  |
| <b>II</b>  | <b>SUBHEAD -II - FITTINGS &amp; FIXTURES</b>  | <b>32,760.00</b>     | <b>62,544.92</b>  |
| <b>III</b> | <b>SUBHEAD - III - DISTRIBUTION BOARDS</b>    | <b>89,918.00</b>     | <b>-</b>          |
| <b>V</b>   | <b>SUBHEAD - V - LIGHTNING CONDUCTOR</b>      | <b>30,926.00</b>     | <b>24,082.88</b>  |
|            | <b>TOTAL</b>                                  | <b>433,929.00</b>    | <b>181,713.35</b> |
|            | <b>Say in lacs</b>                            | <b>4.34</b>          | <b>1.82</b>       |

| ESTIMATE OF FOR CONSTRUCTION OF ADDITIONAL DORMITORY & STAFF QUARTERS AT JNV KUPWARA, JAMMU AND KASHMIR  |              |   |       |     |          |          |              |
|--|--------------|---|-------|-----|----------|----------|--------------|
| Detailed Estimate for ELECTRICAL Works school Building for 04 nos classroom & 04 Nos Laboratories including corridor & Toilets Blocks for boys and girls |              |   |       |     |          |          |              |
| S.No.  | DSR-2022/NSI | Description   | Unit  | Qty | Rate     |          | Amount       |
|  |              |   |       |     | DSR-2022 | NSI      | DSR-2022 NSI |
|  |              | <b>SUB HEAD - I: CIRCUIT CUM POINT WIRING</b>   |       |     |          |          |              |
|  |              | <b>SWITCH CONTROL LIGHT POINTS</b>  |       |     |          |          |              |
| 1  | DSR 1.10     | Wiring for light point/ fan point/ exhaust fan point/ call bell point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable in surface / recessed medium class PVC conduit, with modular switch, modular plate, suitable GI box and earthing the point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable etc. as required.                              |       |     |          |          |              |
| 1.1  | DSR 1.10.3   | Group C   | Point | 50  | 1,467.00 |          | 73,350.00    |
| 2  | DSR-1.55     | Wiring for group controlled (looped) light point/fan point/exhaust fan point/ call bell point ( without Independent switch etc.) with 1.5 sq. mm FRLS PVC insulated copper conductor single core cable in surface/ recessed PVC conduit, and earthing the point with 1.5 sq. mm FRLS PVC insulated copper conductor single core cable etc as required. (Switch Control Secondary Points)  | Point | 12  | 858.00   |          | 10,296.00    |
| 2.1  | DSR-1.55.3   | Group C   |       |     |          |          |              |
| 3  | DSR-1.3      | Wiring for light point/ fan point/ exhaust fan point/ call bell point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable in surface / recessed steel conduit, with modular switch, modular plate, suitable GI box and earthing the point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable etc. as required. (Switch Control Primary Points)         |       |     |          |          |              |
| 3.1  | DSR-1.3.3    | Group C   | Point | 1   | 1,845.00 |          | 1,845.00     |
| 4  | DSR-1.54     | Wiring for group controlled (looped) light point/fan point/exhaust fan point/ call bell point (without Independent switch etc.) with 1.5 sq. mm FRLS PVC insulated copper conductor single core cable in surface/ recessed steel conduit, and earthing the point with 1.5 sq. mm FRLS PVC insulated copper conductor single core cable etc as required. (Switch Control Secondary Points) |       |     |          |          |              |
| 4.1  | DSR-1.54.3   | Group C   | Point | 2   | 1,094.00 |          | 2,188.00     |
|  |              | <b>MCB CONTROL LIGHT POINTS</b>   |       |     |          |          |              |
| 5  | NSI-1        | Wiring for light point/ fan point/ exhaust fan point/ call bell point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable in surface / recessed FRLS PVC conduit, with modular switch, modular plate, suitable GI box and earthing the point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable etc. as required. (Switch Control Primary Points)      |       |     |          |          |              |
| 5.1  | NSI-1.1      | Primary point controlled by one MCB.  | Point | 2   |          | 1,523.13 | 3,046.25     |
| 5.2  | NSI-1.2      | Same as item above but <b>Secondary point.</b> i.e. Points to be looped with Primary point with 2.5 sqmm wire and Point wiring  | Point | 2   |          | 1,354.89 | 2,709.79     |
| 6  | DSR 1.12     | Wiring for light/ power plug with 2X4 sq. mm FRLS PVC insulated copper conductor single core cable in surface/ recessed medium class PVC conduit alongwith 1 No. 4 sq. mm FRLS PVC insulated copper conductor single core cable for loop earthing as required.  | Metre | 150 | 334.00   |          | 50,100.00    |
| 7  | DSR 1.14     | Wiring for circuit/ submain wiring alongwith earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface/ recessed medium class PVC conduit as required.   |       |     |          |          |              |
| 7.1  | DSR 1.14.1   | 2 X 1.5 sq. mm + 1 X 1.5 sq. mm earth wire  | Metre | 50  | 233.00   |          | 11,650.00    |
| 7.2  | DSR 1.14.2   | 2 X 2.5 sq. mm + 1 X 2.5 sq. mm earth wire  | Metre | 180 | 275.00   |          | 49,500.00    |
| 7.3  | DSR 1.14.4   | 2 X 6 sq. mm + 1 X 6 sq. mm earth wire  | Metre | 50  | 439.00   |          | 21,950.00    |
| 7.4  | DSR 1.14.5   | 2 x 10 sq. mm + 1 x 10 sq.mm earth wire   | Metre | 10  | 570.00   |          | 5,700.00     |
| 7.5  | DSR 1.14.10  | 4 X 10 sq. mm + 2 X 6 sq. mm earth wire   | Metre | 10  | 1,005.00 |          | 10,050.00    |
| 7.6  | DSR 1.14.11  | 4 X 16 sq. mm + 2 X 6 sq. mm earth wire   | Metre | 10  | 1,365.00 |          | 13,650.00    |
| 8  | DSR 1.31     | Supplying and fixing suitable size GI box with modular plate and cover in front on surface or in recess including providing and fixing 3 pin 5/6 Amp modular socket outlet and 5/6 A modular switch, connection etc. as required.   | Each  | 18  | 477.00   |          | 8,586.00     |
|  |              |   |       |     |          |          |              |



|      |            |   |      |    |        |           |                   |                  |
|------|------------|---|------|----|--------|-----------|-------------------|------------------|
| 9    | NSI-2      | Supply and Wiring for 250 volts single phase and neutral 2 Nos 6 amps socket outlet with control by 1 No switched with 2.5 sq.mm PVC insulated copper conductor 1100 volts grade stranded flexible FRLS wires in concealed or surface mounted 25 mm dia 2mm thick PVC conduit including providing and fixing of 6 amps 3 pin switch socket outlet of approved make and design in 2 mm thick GI box with grid plate and earthing of third pin of the socket with 2.5 Sq. mm PVC insulated copper conductor stranded flexible FRLS wire.(maximum four no. of switches socket shall be connected on one circuit) | Each | 18 |        | 1,781.84  |                   | 32,073.10        |
| 10   | DSR 1.32   | Supplying and fixing suitable size GI box with modular plate and cover in front on surface or in recess, including providing and fixing 6 pin 5/6 & 15/16 A modular socket outlet and 15/16 A modular switch, connections etc. as required.   | Each | 18 | 586.00 |           | 10,548.00         |                  |
| 11   | NSI-3      | Supplying and fixing 63 A, 415 V, TPN Industrial type socket outlet, with 4 pole and earth, metal enclosed plug top alongwith 63 A "C" curve, TPMCB, in sheet steel enclosure, on surface or in recess, with chained metal cover for the socket outlet and complete with connections, testing and commissioning etc. as required.   | Each | 2  |        | 11,284.98 |                   | 22,569.96        |
| 12   | NSI-4      | Supplying and fixing 80 A, 415 V, TPN Industrial type socket outlet, with 4 pole and earth, metal enclosed plug top alongwith 80 A "C" curve, TPMCB, in sheet steel enclosure, on surface or in recess, with chained metal cover for the socket outlet and complete with connections, testing and commissioning etc. as required.   | Each | 2  |        | 17,343.23 |                   | 34,686.46        |
| 13   | DSR-1.33   | Supplying and fixing 3 pin, 5 A ceiling rose on the existing junction box/ wooden block including connections etc. as required.   | Each | 6  | 87.00  |           | 522.00            |                  |
| 14   | DSR-1.57   | Supplying & fixing suitable size GI box with modular plate and cover in front on surface or in recess i/c providing and fixing 25 amp modular socket outlet and 25 Amps modular SP MCB, "C" curve including connection, painting etc. as required. (AC's & Gysers)  | Each | 6  | 727.00 |           | 4,362.00          |                  |
| 15   | DSR 1.24   | Supplying and fixing following modular switch/ socket on the existing modular plate & switch box including connections but excluding modular plate etc. as required.  |      |    |        |           |                   |                  |
| 15.1 | DSR 1.24.6 | Telephone socket outlet   | Nos  | 6  | 148.00 |           | 888.00            |                  |
| 16   | DSR 1.27   | Supplying and fixing following size/ modules, GI box alongwith modular base & cover plate for modular switches in recess etc. as required.  |      |    |        |           |                   |                  |
| 16.1 | DSR 1.27.1 | 1 or 2 Module (75mmX75mm)   | Nos  | 2  | 298.00 |           | 596.00            |                  |
| 16.2 | DSR 1.27.4 | 6 module (78mm X 205 mm X 50 mm)  | Nos  | 2  | 402.00 |           | 804.00            |                  |
| 17   | DSR 1.24   | Supplying and fixing following size/ modules, GI box alongwith modular base & cover plate for modular switches in recess etc. as required.  |      |    |        |           |                   |                  |
| 17.1 | DSR 1.24.4 | 3 pin , 5/6 amps socket outlet  | Each | 2  | 122.00 |           | 244.00            |                  |
| 17.1 | DSR 1.24.1 | 5/6 amps switch   | Each | 2  | 103.00 |           | 206.00            |                  |
| 18   | DSR 1.21   | Supplying and fixing of following sizes of medium class PVC conduit along with accessories in surface/recess including cutting the wall and making good the same in case of recessed conduit as required.   |      |    |        |           |                   |                  |
| 18.1 | DSR 1.21.2 | 25 mm   | Mtr  | 10 | 145.00 |           | 1,450.00          |                  |
| 18.2 | DSR 1.21.3 | 32 mm   | Mtr  | 10 | 184.00 |           | 1,840.00          |                  |
|      |            | <b>TOTAL CARRIED TO SUMMARY FOR SUBHEAD - I</b>   |      |    |        |           | <b>280,325.00</b> | <b>95,085.55</b> |
|      |            | <b>SUBHEAD -II - FITTINGS &amp; FIXTURES</b>  |      |    |        |           |                   |                  |
| 1    | NSI-1      | Supply, Installation, Testing and Commissioning of 10 W Bulk head Light.  | Each | 6  |        | 1,544.26  |                   | 9,265.56         |
| 2    | NSI-2      | Supply, Installation, Testing and Commissioning of 5W Mirror Light.   | Each | 4  |        | 593.95    |                   | 2,375.78         |
| 3    | NSI-3      | Supply, Installation, Testing and Commissioning of 18W Surface/Recessed Mounted LED circular Downlighter.   | Each | 12 |        | 1,960.02  |                   | 23,520.27        |
| 4    | NSI-4      | Supply, Installation, Testing and Commissioning of 18/20W Wall/Surface mouted 4 ft. LED   | Each | 0  |        | 1,128.50  |                   | -                |
| 5    | NSI-5      | Supply, Installation, Testing and Commissioning of 15W Surface mounted LED Square Downlighter.  | Each | 6  |        | 1,781.84  |                   | 10,691.03        |

|     |            |   |      |     |           |            |                  |                  |
|-----|------------|---|------|-----|-----------|------------|------------------|------------------|
| 6   | NSI-6      | Supply, Installation, Testing and Commissioning of 150 W CHANDELIER   | Each | 0   |           | 118,789.25 |                  | -                |
|     |            |   |      |     |           |            |                  |                  |
| 7   | NSI-7      | Supply, Installation, Testing and Commissioning of 12/9W Recessed mounted LED circular Downlighter.   | Each | 0   |           | 1,425.47   |                  | -                |
|     |            |   |      |     |           |            |                  |                  |
| 8   | NSI-8      | Supply, Installation, Testing and Commissioning of 9W (Nominal) Wall Bracket Light  | Each | 0   |           | 296.97     |                  | -                |
|     |            |   |      |     |           |            |                  |                  |
| 9   | DSR-19.1   | Supply, Installation, Testing and Commissioning of 1200 mm sweep, BEE 5 star rated, ceiling fan with Brush Less Direct Current (BLDC) Motor, class of insulation: B, 3 nos. blades, 30 cm long down rod, 2nos. canopies, shackle kit, safety rope, copper winding, Power Factor not less than 0.9, Service Value (CM/M/W) minimum 6.00, Air delivery minimum 210 Cum/Min , 350 RPM (tolerance as per IS : 374-2019), THD less than 10%, remote or electronic regulator unit for speed control and all remaining accessories including safety pin, nut bolts, washers, temperature rise=75 degree C (max.), insulation resistance more than 2 mega ohm, suitable for 230 V, 50 Hz, single phase AC Supply, earthing etc. complete as required. | Each | 12  | 2,730.00  |            | 32,760.00        | -                |
|     |            |   |      |     |           |            |                  |                  |
| 10  | NSI-9      | Supply Installation, Testing and Commissioning of 250 mm dia Domestic Exhaust Fan   | Each | 6   |           | 2,782.04   |                  | 16,692.27        |
|     |            |   |      |     |           |            |                  |                  |
|     |            |   |      |     |           |            |                  |                  |
|     |            | <b>TOTAL CARRIED TO SUMMARY FOR SUBHEAD - II</b>  |      |     |           |            | <b>32,760.00</b> | <b>62,544.92</b> |
|     |            |   |      |     |           |            |                  |                  |
|     |            | <b>SUBHEAD - III - DISTRIBUTION BOARDS</b>  |      |     |           |            |                  |                  |
|     |            |   |      |     |           |            |                  |                  |
| 1   | DSR 2.3    | Supplying and fixing following way, single pole and neutral, sheet steel, MCB distribution board, 240 V, on surface/ recess, complete with tinned copper bus bar, neutral bus bar, earth bar, din bar, interconnections, powder painted including earthing etc. as required. (But without MCB/RCCB/Isolator)  |      |     |           |            |                  |                  |
| 1.1 | DSR 2.3.1  | 6 way, Double door  | Each | 0   | 2,206.00  |            | -                |                  |
| 1.2 | DSR 2.3.2  | 8 way, Double door  | Each | 0   | 2,573.00  |            | -                |                  |
| 1.3 | DSR 2.3.3  | 12 way, Double door   | Each | 2   | 2,315.00  |            | 4,630.00         |                  |
|     |            |   |      |     |           |            |                  |                  |
| 2   | DSR 2.4    | Supplying and fixing following way, three pole and neutral, sheet steel, MCB distribution board, 415 volts, on surface/ recess complete with tinned copper busbar, neutral busbar, earth bar, din bar, detachable gland plate, interconnections, phosphatized and powder painted including earthing etc. as required. (But without MCB/ RCCB/ Isolator)   |      |     |           |            |                  |                  |
| 2.1 | DSR 2.4.1  | 4 way (4 + 12), Double door   | Each | 0   | 4,091.00  |            | -                |                  |
| 2.2 | DSR 2.4.2  | 6 way (4 + 18), Double door   | Each | 0   | 4,974.00  |            | -                |                  |
| 2.3 | DSR 2.4.3  | 8 way (4 + 24), Double door   | Each | 2   | 5,967.00  |            | 11,934.00        |                  |
|     |            |   |      |     |           |            |                  |                  |
| 3   | DSR 2.5    | Supplying and fixing of following ways surface/ recess mounting, vertical type, 415 V, TPN MCB distribution board of sheet steel, dust protected, duly powder painted, inclusive of 200 A tinned copper bus bar, common neutral link, earth bar, din bar for mounting MCBs (but without MCBs and incomer) as required . (Note :Vertical type MCB TPDB is normally used where 3 phase outlets are required.)   |      |     |           |            |                  |                  |
| 3.1 | DSR 2.5.3  | 12 way (4 + 36), Double door  | Each | 2   | 12,833.00 |            | 25,666.00        |                  |
|     |            |   |      |     |           |            |                  |                  |
| 4   | DSR 2.10   | Supplying and fixing 5 A to 32 A rating, 240/415 V, 10 kA, "C" curve, miniature circuit breaker suitable for inductive load of following poles in the existing MCB DB complete with connections, testing and commissioning etc. as required.  |      |     |           |            |                  |                  |
| 4.1 | 2.10.1     | Single Pole   | Each | 112 | 256.00    |            | 28,672.00        |                  |
| 4.2 | 2.10.2     | Single Pole Neutral   | Each | 0   | 599.00    |            | -                |                  |
|     |            |   |      |     |           |            |                  |                  |
| 5   | DSR 2.12   | Supplying and fixing following rating, double pole, 240 V, isolator in the existing MCB DB complete with connections, testing and commissioning etc. as required.   |      |     |           |            |                  |                  |
| 5.1 | DSR 2.12.1 | 40 A  | Each | 2   | 435.00    |            | 870.00           |                  |
| 5.2 | DSR 2.12.2 | 63 A  | Each | 0   | 527.00    |            | -                |                  |
|     |            |   |      |     |           |            |                  |                  |
| 6   | DSR 2.13   | Supplying and fixing following rating, four pole, 415 V, isolator in the existing MCB DB complete with connections, testing and commissioning etc. as required.   |      |     |           |            |                  |                  |
| 6.1 | DSR 2.13.1 | 40 A  | Each | 1   | 970.00    |            | 970.00           |                  |
| 6.2 | DSR 2.13.2 | 63 A  | Each | 1   | 1,034.00  |            | 1,034.00         |                  |
|     |            |   |      |     |           |            |                  |                  |

|     |            |  |       |    |           |           |                  |                  |
|-----|------------|--|-------|----|-----------|-----------|------------------|------------------|
| 7   | DSR 2.14   | Supplying and fixing following rating, double pole, (single phase and neutral), 240 V, residual current circuit breaker (RCCB), having a sensitivity current 30 mA in the existing MCB DB complete with connections, testing and commissioning etc. as required.   |       |    |           |           |                  |                  |
| 7.1 | DSR 2.14.1 | 25 A   | Each  | 0  | 2,028.00  |           | -                |                  |
| 7.2 | DSR 2.14.2 | 40 A   | Each  | 4  | 2,642.00  |           | 10,568.00        |                  |
| 7.3 | DSR 2.14.3 | 63 A   | Each  | 2  | 2,722.00  |           | 5,444.00         |                  |
| 8   | DSR 2.11   | Supplying and fixing single pole blanking plate in the existing MCB DB complete etc. as required.  | Each  | 10 | 13.00     |           | 130.00           |                  |
|     |            | <b>TOTAL CARRIED TO SUMMARY FOR SUBHEAD - III</b>  |       |    |           |           | <b>89,918.00</b> | <b>-</b>         |
|     |            | <b>SUBHEAD - V - LIGHTNING CONDUCTOR</b>   |       |    |           |           |                  |                  |
| 1   | DSR 5.6    | Earthing with Cu. earth Plate 600mm x 600mm x 3mm thick including accessories, and providing masonry enclosure with cover plate (CI heavy duty) having locking arrangement and watering pipe of 2.7 mtr long etc. with charcoal or coke and salt ) as required.  | Sets  | 1  | 13,838.00 |           | 13,838.00        |                  |
| 2   | DSR 6.2    | Providing and fixing of lightning conductor finial, made of 25 mm dia 300 mm long, G.I. tube, having single prong at top, with 85 mm dia 6 mm thick G.I. base plate including holes etc. complete as required.   | Each  | 1  | 518.00    |           | 518.00           |                  |
| 3   | DSR 6.4    | Jointing copper / G.I. tape (with another copper/ G I tape, base of the finial or any other metallic object) by riveting / nut bolting/ sweating and soldering etc as required.  | Each  | 5  | 113.00    |           | 565.00           |                  |
| 4   | DSR 6.7    | Providing and fixing G.I. tape 20 mm X 3 mm thick on parapet or surface of wall for lightning conductor complete as required.(For horizontal run)  | Metre | 60 | 126.00    |           | 7,560.00         |                  |
| 5   | DSR 6.8    | Providing and fixing G.I. tape 20 mm X 3 mm thick on parapet or surface of wall for lightning conductor complete as required.(For vertical run)  | Metre | 20 | 197.00    |           | 3,940.00         |                  |
| 6   | DSR 6.12   | Providing and fixing testing joint, made of 20 mm X 3 mm thick G.I. strip, 125 mm long, with 4 nos. of G.I. bolts, nuts, chuck nuts and spring washers etc. complete as required.  | Each  | 5  | 121.00    |           | 605.00           |                  |
| 7   | DSR 6.14   | Providing and laying G.I. tape 32 mm X 6 mm from earth electrode directly in ground as required.   | Metre | 20 | 195.00    |           | 3,900.00         |                  |
| 8   | NSI-1      | Supply of Lightnig counter - LCD screen shows the number of lightning strikes, hour and date of lightning events Buttons enable TIME/DATE setting and log viewing. Replaceable battery, working life minimum five years, meet the requirements for IS/IEC 62305 and IEC 62561-2.Tested for Electrical ,Mechanical and Chemical as per IEC 62561. | Nos.  | 1  |           | 24,082.88 |                  | 24,082.88        |
|     |            | <b>TOTAL CARRIED TO SUMMARY SHEET FOR SUBHEAD V</b>  |       |    |           |           | <b>30,926.00</b> | <b>24,082.88</b> |

**ESTIMATE OF FOR CONSTRUCTION OF ADDITIONAL DORMITORY & STAFF QUARTERS  
AT JNV KUPWARA, JAMMU AND KASHMIR**

**SUMMARY OF CIVIL WORK GIRLS DORMITORY 0.25 Unit (48 bedded) Block-A**

| S. No.                             | DSR Item /<br>Chapter no. | Description                | DSR-Amount (Rs.)  | NDSR-Amount<br>(Rs.) |
|------------------------------------|---------------------------|----------------------------|-------------------|----------------------|
| 1                                  | 4                         | CONCRETE WORK              | 29,972.00         |                      |
| 2                                  | 5                         | REINFORCED CEMENT CONCRETE | 28,348.80         |                      |
| 3                                  | 6                         | BRICK WORK                 | 24,652.15         |                      |
| 4                                  |                           | MARBLE WORK                | 38,521.70         |                      |
| 5                                  | 9                         | WOOD WORK & PVC WORK       | 89,518.50         |                      |
| 6                                  | 10                        | STEEL WORK                 | 80,867.75         |                      |
| 7                                  | 12                        | ROOFING                    | 224,670.00        |                      |
| 8                                  | 13                        | FINISHING                  | 250,487.00        | -                    |
| <b>Total</b><br><b>Say in Lacs</b> |                           |                            | <b>767,037.90</b> | <b>-</b>             |
|                                    |                           |                            | <b>7.67</b>       |                      |

# ESTIMATE OF FOR CONSTRUCTION OF ADDITIONAL DORMITORY & STAFF QUARTERS AT JNV KUPWARA,

## COST ESTIMATE OF GIRLS DORMITORY

| S. No.     | Ref. No  | Description  | Unit            | Quantity | DSR 23 Rate | DSR-Amount<br>(Rs.) | NDSR-Amount<br>(Rs.) |
|------------|----------|--|-----------------|----------|-------------|---------------------|----------------------|
| <b>1.0</b> | <b>2</b> | <b>EARTH WORK</b>  |                 |          |             |                     |                      |
| 1.01       | 2.8      | Earth work in excavation by mechanical means (Hydraulic excavator) / manual means in foundation trenches or drains (not exceeding 1.5 m in width or 10 sqm on plan), including dressing of sides and ramming of bottoms, lift upto 1.5 m, including getting out the excavated soil and disposal of surplus excavated soil as directed, within a lead of 50 m.  |                 |          |             | -                   |                      |
| a)         | 2.8.1    | All kinds of soil  | Cum             | 920.00   | 166.40      | 153,088.00          |                      |
| 1.02       | 2.25     | Filling available excavated earth (excluding rock) in trenches, plinth, sides of foundations etc. in layers not exceeding 20cm in depth, consolidating each deposited layer by ramming and watering, lead up to 50 m and lift upto 1.5 m.  | Cum             | 1366.00  | 125.75      | 171,774.50          |                      |
| 1.03       | 2.27     | Supplying and filling in plinth with sand under floors, including watering, ramming, consolidating and dressing complete.  | Cum             | 150.40   | 917.75      | 138,029.60          |                      |
| 1.04       | 2.34     | Supplying chemical emulsion in sealed containers including delivery as specified.  |                 |          |             |                     |                      |
| a)         | 2.34.1   | Chlorpyriphos/ Lindane emulsifiable concentrate of 20%   | litre           | 285.30   | 185.95      | -                   |                      |
| 1.05       | 2.35     | Diluting and injecting chemical emulsion for POST-CONSTRUCTIONAL anti-termite treatment (excluding the cost of chemical emulsion) :  |                 |          |             |                     |                      |
|            | 2.35.3   | Treatment of soil under existing floors using chemical emulsion @ one litre per hole, 300 mm apart including drilling 12 mm diameter holes and plugging with cement mortar 1 : 2 (1 cement : 2 Coarse sand) to match the existing floor:   |                 |          |             |                     |                      |
| a)         | 2.35.3.1 | With Chlorpyriphos/Lindane E.C. 20% with 1% concentration  | Sqm             | 285.30   | 131.90      | -                   |                      |
| 1.04       | 16.3     | Supplying and stacking at site.  |                 |          |             |                     |                      |
| a)         | 16.3.9   | Good earth   | Cum             | 814.00   | 332.55      | 270,695.70          |                      |
|            |          | <b>Total of sub-head</b>   |                 |          |             | <b>733,587.80</b>   |                      |
| <b>1.0</b> | <b>4</b> | <b>CONCRETE WORK</b>   |                 |          |             |                     |                      |
| 1.01       | 4.1      | Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level :   |                 |          |             | -                   |                      |
| a)         | 4.1.10   | 1:5:10 (1 Cement : 5 coarse sand (zone-III) : 10 graded stone aggregate 40 mm nominal size)  | Cum             | 0.00     | 5520.30     | -                   |                      |
| 1.01       | 4.2      | Providing and laying cement concrete in retaining walls, return walls, walls (any thickness) including attached pilasters, columns, piers, abutments, pillars, posts, struts, buttresses, string or lacing courses, parapets, coping, bed blocks, anchor blocks, plain window sills, fillets, sunken floor etc., up to floor five level, excluding the cost of centering, shuttering and finishing : |                 |          |             | -                   |                      |
| a)         | 4.2.3    | 1:2:4 (1 Cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size).  | Cum             | 0.69     | 9895.20     |                     |                      |
| 1.02       | 4.10     | Providing and laying damp-proof course 40mm thick with cement concrete 1:2:4 (1 cement : 2 coarse sand (zone-III): 4 graded stone aggregate 12.5mm nominal size)   | Sqm             | 0.00     | 614.05      | -                   |                      |
| 1.03       | 4.12     | Extra for providing and mixing water proofing material in cement concrete work in doses by weight of cement as per manufacturer's specification.   | Per 50Kg Cement | 0.00     | 56.55       | -                   |                      |
| 1.04       | 4.13     | Providing & applying a coat of residual petroleum bitumen of grade of VG-10 of approved quality using 1.7kg per square metre on damp proof course after cleaning the surface with brushes and finally with a piece of cloth lightly soaked in kerosene oil.  | Sqm             | 0.00     | 110.00      | -                   |                      |

|                          |          |   |          |       |         |                  |
|--------------------------|----------|---|----------|-------|---------|------------------|
| 1.02                     | 4.17     | Making plinth protection 50mm thick of cement concrete 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size) over 75mm thick bed of dry brick ballast 40 mm nominal size, well rammed and consolidated and grouted with fine sand, including necessary excavation, levelling & dressing & finishing the top smooth.  | Sqm      | 40.00 | 749.30  | 29,972.00        |
| <b>Total of sub-head</b> |          |   |          |       |         | <b>29,972.00</b> |
| <b>2.0</b>               | <b>5</b> | <b>REINFORCED CEMENT CONCRETE</b>   |          |       |         |                  |
| 2.01                     | 5.9      | Centering and shuttering including strutting, propping etc. and removal of form for all heights:  |          |       |         |                  |
| a)                       | 5.9.1    | Foundations, footings, bases of columns, etc. for mass concrete   | Sqm      | 0.00  | 284.85  | -                |
| b)                       | 5.9.2    | Walls (any thickness) including attached pilasters, buttresses, plinth and string courses etc   | Sqm      |       | 609.30  | -                |
| c)                       | 5.9.6    | Columns, Pillars, Piers, Abutments, Posts and Struts  | Sqm      | 0.00  | 733.70  | -                |
| d)                       | 5.9.15   | Small lintels not exceeding 1.5 m clear span, moulding as in cornices, window sills, string courses, bands, copings, bed plates, anchor blocks and the like   | Sqm      |       | 284.85  | -                |
| e)                       | 5.9.16   | Edges of slabs and breaks in floors and walls   |          |       |         |                  |
| f)                       | 5.9.16.1 | Under 20 cms wide   | metre    | 0.00  | 173.25  | -                |
| a)                       | 5.9.3    | Suspended floors, roofs, landings, balconies and access platform.   | Sqm      | 10.00 | 927.25  |                  |
| b)                       | 5.9.21   | Lintels, beams, plinth beams, girders, bressumers and cantilevers. with water proof ply 12 mm thick   | Sqm      | 0.00  | 641.60  | -                |
| 2.02                     | 5.18     | Providing precast cement concrete Jali 1:2:4 (1 cement : 2 coarse sand(zone-III) : 4 graded stone aggregate 6mm nominal size), reinforced with 1.6 mm dia mild steel wire, including centering and shuttering, roughening cleaning, fixing and finishing with cement mortar 1:3 (1 cement: 3 fine sand) etc. complete, excluding plastering of the jambs, sills and soffits.  |          |       |         |                  |
| a)                       | 5.18.1   | 50 mm thick   | Sqm      | 0.00  | 1474.05 | -                |
| 2.03                     | 5.22     | Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete upto plinth level.  |          |       |         | -                |
| a)                       | 5.22.6   | Thermo-Mechanically Treated bars of grade Fe-500D or more.  | kilogram |       | 83.50   | -                |
| 2.02                     | 5.22A    | Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete above plinth level.   |          |       |         |                  |
| a)                       | 5.22A.6  | Thermo-Mechanically Treated bars of grade Fe-500 D or more.   | kilogram | 80.00 | 107.85  | 8,628.00         |
| 2.04                     | 5.29     | Providing and fixing sheet covering over expansion joints with iron screws as per design.   |          |       |         |                  |
| i)                       | 5.29.2   | Aluminium fluted strips 3.15 mm thick.  |          |       |         |                  |
| a)                       | 5.29.2.2 | 200 mm wide   | Metre    | 0.00  | 654.95  | -                |
| 2.05                     | 5.30     | Add for plaster drip course/ groove in plastered surface or moulding to R.C.C. projections.   | metre    |       | 58.90   | -                |
| 2.03                     | 5.33     | Providing and laying in position machine batched and machine mixed design mix M-25 grade cement concrete for reinforced cement concrete work, using cement content as per approved design mix, including pumping of concrete to site of laying but excluding the cost of centering, shuttering, finishing and reinforcement, including admixtures in recommended proportions as per IS: 9103 to accelerate, retard setting of concrete, improve workability without impairing strength and durability as per direction of Engineer-in-charge. (Note : Cement content considered in this item is @ 330 kg/cum. "Excess/ less cement used as per design mix is payable/recoverable separately). |          |       |         |                  |
| (i)                      | 5.33.1   | All works upto plinth level   | Cum      | 0.00  | 7997.30 | -                |
| (ii)                     | 5.33.2   | All works above plinth level upto floor V level   | Cum      | 2.00  | 9860.40 | 19,720.80        |
| 2.04                     | 5.35     | Add for using extra cement in the items of design mix over and above the specified cement content therein.  | Quintal  | 0.00  | 688.45  |                  |
| <b>Total of sub-head</b> |          |   |          |       |         | <b>28,348.80</b> |
| <b>3.0</b>               | <b>6</b> | <b>BRICK WORK</b>   |          |       |         |                  |
| 3.01                     | 6.1      | Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in foundation and plinth in:   |          |       |         |                  |
| a)                       | 6.1.2    | Cement mortar 1:6 (1 cement : 6 coarse sand)  | Cum      | 0.00  | 6157.45 | -                |

|      |        |   |       |      |         |           |
|------|--------|---|-------|------|---------|-----------|
| 3.01 | 6.4    | Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in superstructure above plinth level up to floor V level in all shapes and sizes in :                            |       |      |         | -         |
| a)   | 6.4.2  | Cement mortar 1:6 (1 cement : 6 coarse sand)  | Cum   | 2.00 | 9105.95 | 18,211.90 |
| 3.02 | 6.13   | Half brick masonry with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in superstructure above plinth level up to floor V level.  |       |      |         | -         |
| a)   | 6.13.2 | Cement mortar 1:4 (1 cement :4 coarse sand)   | Sqm   | 5.00 | 1123.80 | 5,619.00  |
| 3.03 | 6.15   | Extra for providing and placing in position 2 Nos 6mm dia. M.S. bars at every third course of half brick masonry.   | Sqm   | 5.00 | 104.80  | 524.00    |
| 3.04 | 6.44   | Brick edging 7cm wide 11.4 cm deep to plinth protection with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 including grouting with cement mortar 1:4 (1 cement : 4 fine sand). | Metre | 5.00 | 59.45   | 297.25    |

**Total of sub-head**

**24,652.15**

**4.0 8 MARBLE WORK**

|      |         |  |       |       |         |           |
|------|---------|--|-------|-------|---------|-----------|
| 4.01 | 8.2     | Providing and fixing 18 mm thick gang saw cut, mirror polished, premoulded and prepolished, machine cut for kitchen platforms, vanity counters, window sills, facias and similar locations of required size, approved shade, colour and texture laid over 20 mm thick base cement mortar 1:4 (1 cement : 4 coarse sand), joints treated with white cement, mixed with matching pigment, epoxy touch ups, including rubbing, curing, moulding and polishing to edges to give high gloss finish etc. complete at all levels. |       |       |         |           |
| a)   | 8.2.1   | Raj Nagar Plain white marble/ Udaipur green marble/ Zebra black marble   |       |       |         |           |
| (i)  | 8.2.1.2 | Area of slab over 0.50 sqm   | Sqm   | 3.00  | 3078.40 | 9,235.20  |
| b)   | 8.2.2   | Granite of any colour and shade  |       |       |         |           |
| i)   | 8.2.2.2 | Area of slab over 0.50 sqm   | sqm   | 3.00  | 5136.30 | 15,408.90 |
| 4.02 | 8.3     | Providing edge moulding to 18 mm thick marble stone counters, Vanities etc., including machine polishing to edge to give high gloss finish etc. complete as per design approved by Engineer-in-Charge.   |       |       |         | -         |
| a)   | 8.3.1   | Marble work  | Metre | 10.00 | 298.60  | 2,986.00  |
| b)   | 8.3.2   | Granite work   | Metre | 0.00  | 418.85  | -         |
| 4.03 | 8.4     | Extra for fixing marble /granite stone, over and above corresponding basic item, in facia and drops of width upto 150 mm with epoxy resin based adhesive, including cleaning etc. complete.  | Metre | 13.00 | 568.55  | 7,391.15  |
| 4.04 | 8.5     | Extra for providing opening of required size & shape for wash basin/ kitchen sink in kitchen platform, vanity counter and similar location in marble/ Granite/ stone work, including necessary holes for pillar taps etc. including moulding, rubbing and polishing of cut edges etc. complete.  | Each  | 1.00  | 978.70  | -         |
| 4.05 | 8.10    | Providing and fixing stone slab with table rubbed, edges rounded and polished, of size 75x50 cm deep and 1.8 cm thick, fixed in urinal partitions by cutting a chase of appropriate width with chase cutter and embedding the stone in the chase with epoxy grout or with cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 6 mm nominal size) as per direction of Engineer-in-charge and finished smooth.  |       |       |         |           |
| a)   | 8.10.1  | White Agaria Marble Stone  | Sqm   | 1.00  | 3500.45 | 3,500.45  |

**Total of sub-head**

**38,521.70**

**5.0 9 WOOD WORK & PVC WORK**

|      |       |   |     |      |           |   |
|------|-------|---|-----|------|-----------|---|
| 5.01 | 9.1   | Providing wood work in frames of doors, windows, clerestory windows and other frames, wrought framed and fixed in position with hold fast lugs or with dash fasteners of required dia & length ( hold fast lugs or dash fastener shall be paid for separately). |     |      |           |   |
| a)   | 9.1.1 | Second class teak wood  | Cum | 0.00 | 130183.05 | - |

|      |            |  |       |       |          |           |
|------|------------|--|-------|-------|----------|-----------|
| 5.01 | 9.12       | Extra for providing frosted glass panes 4 mm thick instead of ordinary float glass panes 4 mm thick in doors, windows and clerestory window shutters. (Area of opening for glass panes excluding portion inside rebate shall be measured).   | Sqm   | 7.00  | 176.40   | 1,234.80  |
| 5.02 | 9.20       | Providing and fixing ISI marked flush door shutters conforming to IS : 2202 (Part I) decorative type, core of block board construction with frame of 1st class hard wood and well matched teak 3 ply veneering with vertical grains or cross bands and face veneers on both faces of shutters.           |       |       |          | -         |
| a)   | 9.20.3     | 25 mm thick (for cupboard) including ISI marked nickel plated bright finished M.S. Piano hinges IS : 3818 marked with necessary screws   | Sqm   | 0.00  | 2464.70  | -         |
| 5.02 | 9.21       | Providing and fixing ISI marked flush door shutters conforming to IS : 2202 (Part I) non-decorative type, core of block board construction with frame of 1st class hard wood and well matched commercial 3 ply veneering with vertical grains or cross bands and face veneers on both faces of shutters: |       |       |          | -         |
| a)   | 9.21.1     | 35 mm thick including ISI marked Stainless Steel butt hinges with necessary screws   | Sqm   | 7.00  | 2392.65  | 16,748.55 |
| 5.03 | 9.23       | Extra for providing lipping with 2nd class teak wood battens 25 mm minimum depth on all edges of flush door shutters (over all area of door shutter to be measured).   | Sqm   | 7.00  | 462.35   | 3,236.45  |
| 5.04 | 9.26       | Extra for cutting rebate in flush door shutters (Total area of the shutter to be measured).  | Sqm   | 7.00  | 106.70   | 746.90    |
| 5.05 | 9.27       | Providing and fixing wire gauge shutters using galvanized M.S. wire gauge of average width of aperture 1.4 mm in both directions with wire of dia 0.63 mm, for doors, windows and clerestory windows with hinges and necessary screws :  |       |       |          |           |
| i)   | 9.27.1     | 35 mm thick shutters   |       |       |          |           |
| a)   | 9.27.1.1.2 | Kiln seasoned and chemically treated hollock wood  | Sqm   | 7.00  | 3,599.20 | 25,194.40 |
| 5.06 | 9.46       | Providing and fixing curtain rods of 1.25 mm thick chromium plated brass plate, with two chromium plated brass brackets fixed with C.P. brass screws and wooden plugs, etc., wherever necessary complete :   |       |       |          |           |
| a)   | 9.46.2     | 20 mm dia  | Metre | 0.00  | 375.25   | -         |
| 5.07 | 9.48       | Providing and fixing M.S. grills of required pattern in frames of windows etc. with M.S. flats, square or round bars etc. including priming coat with approved steel primer all complete.  |       |       |          | -         |
| a)   | 9.48.1     | Fixed to steel windows by welding  | Kg    | 80.00 | 219.10   | 17,528.00 |
| 5.08 | 9.51       | Providing and fixing fly proof galvanized M.S. wire gauge to windows and clerestory windows using wire gauge with average width of aperture 1.4 mm in both directions with wire of dia 0.63 mm all complete.   |       |       |          |           |
| a)   | 9.51.2     | With 12 mm mild steel U beading  | Sqm   | 13.00 | 939.20   | 12,209.60 |
| 5.09 | 9.59       | Providing and fixing ISI marked oxidised M.S. single acting spring hinges with necessary screws etc. complete :  |       |       |          |           |
| a)   | 9.59.1     | 150 mm   | Each  | 6.00  | 291.35   | 1,748.10  |
| 5.10 | 9.63       | Providing and fixing ISI marked oxidised M.S. tower bolt black finish, (Barrel type) with necessary screws etc. complete :   |       |       |          | -         |
| a)   | 9.63.3     | 150x10 mm  | Each  | 20.00 | 59.45    | 1,189.00  |
| 5.11 | 9.66       | Providing and fixing ISI marked oxidised M.S. handles conforming to IS:4992 with necessary screws etc. complete :  |       |       |          | -         |
| a)   | 9.66.2     | 100 mm   | Each  | 20.00 | 32.55    | 651.00    |
| 5.12 | 9.67       | Providing and fixing oxidised M.S. hasp and staple (safety type) conforming to IS : 363 with necessary screws etc. complete :  |       |       |          | -         |
| a)   | 9.67.3     | 90 mm  | Each  | 0.00  | 21.70    | -         |
| 5.12 | 9.68       | Providing and fixing oxidised M.S. casement stays (straight peg type) with necessary screws etc. complete.   |       |       |          |           |
| a)   | 9.68.2     | 250 mm weighing not less than 150 gms  | Each  | 20.00 | 61.05    | 1,221.00  |
| 5.13 | 9.79       | Providing and fixing special quality bright finished brass cupboard or ward robe locks with four levers of approved quality including necessary screws etc. complete.  |       |       |          |           |
| a)   | 9.79.4     | 75 mm  | Each  | 0.00  | 318.10   | -         |



|                          |         |   |       |      |                  |          |
|--------------------------|---------|---|-------|------|------------------|----------|
| 5.13                     | 9.96    | Providing and fixing aluminium sliding door bolts, ISI marked anodised (anodic coating not less than grade AC 10 as per IS : 1868), transparent or dyed to required colour or shade, with nuts and screws etc. complete :   |       |      |                  |          |
| a)                       | 9.96.1  | 300x16 mm   | Each  | 5.00 | 303.25           | 1,516.25 |
| b)                       | 9.96.2  | 250x16 mm   | Each  | 4.00 | 260.60           | 1,042.40 |
| 5.14                     | 9.97    | Providing and fixing aluminium tower bolts, ISI marked, anodised (anodic coating not less than grade AC 10 as per IS : 1868 ) transparent or dyed to required colour or shade, with necessary screws etc. complete :  |       |      |                  |          |
| a)                       | 9.97.2  | 250x10 mm   | Each  | 5.00 | 115.15           | 575.75   |
| b)                       | 9.97.4  | 150x10 mm   | Each  | 7.00 | 82.55            | 577.85   |
| 5.15                     | 9.100   | Providing and fixing aluminium handles, ISI marked, anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour or shade, with necessary screws etc. complete :   |       |      |                  |          |
| a)                       | 9.100.1 | 125 mm  | Each  | 8.00 | 66.25            | 530.00   |
| b)                       | 9.100.2 | 100 mm  | Each  | 5.00 | 59.55            | 297.75   |
| 5.16                     | 9.101   | Providing and fixing aluminium hanging floor door stopper, ISI marked, anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour and shade, with necessary screws etc. complete.  |       |      |                  | -        |
| a)                       | 9.101.2 | Twin rubber stopper   | Each  | 8.00 | 72.35            | 578.80   |
| 5.17                     | 9.111   | Providing and fixing wooden moulded corner beading of triangular shape to the junction of panelling etc. with iron screws, plugs and priming coat on unexposed surface etc. complete 2nd class teak wood.   |       |      |                  | -        |
| a)                       | 9.111.1 | 50x50 mm (base and height)  | Metre | 0.00 | 250.25           | -        |
| 5.17                     | 9.127.2 | Providing and fixing PVC rigid foam sheet 1 mm thick on existing door shutters (bathroom and W.C. doors) using synthetic rubber based adhesive.   | sqm   | 3.00 | 897.30           | 2,691.90 |
| 5.18                     | 9.130   | Providing and fixing cup board shutters with 25 mm thick veneered particle board IS : 3097 marked, exterior grade (Grade I), of approved make, including 2nd class teak wood lipping of 25 mm wide x 12 mm thick with necessary screws and bright finished stainless steel piano hinges, complete as per direction of Engineer-in-Charge. |       |      |                  |          |
| a)                       | 9.130.1 | With decorative veneering on one side and commercial veneering on other side  | Sqm   | 0.00 | 1647.95          | -        |
| <b>Total of sub-head</b> |         |   |       |      | <b>89,518.50</b> |          |

## 6.00 10 STEEL WORK

|      |         |  |    |        |        |           |
|------|---------|--|----|--------|--------|-----------|
| 6.01 | 10.11   | Providing and fixing factory made ISI marked steel glazed doors, windows and ventilators, side /top /centre hung, with beading and all members such as F7D, F4B, K11 B and K12 B etc. complete of standard rolled steel sections, joints mitred and flash butt welded and sash bars tenoned and riveted, including providing and fixing of hinges, pivots, including priming coat of approved steel primer, but excluding the cost of other fittings, complete all as per approved design, (sectional weight of only steel members shall be measured for payment). |    |        |        |           |
| a)   | 10.11.1 | Fixing with 15x3 mm lugs 10 cm long embedded in cement concrete block 15x10x10 cm of C.C. 1:3:6 (1 Cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size)   | Kg | 130.00 | 131.05 | 17,036.50 |
| 6.02 | 10.13   | Providing and fixing T-iron frames for doors, windows and ventilators of mild steel Tee-sections, joints mitred and welded, including fixing of necessary butt hinges and screws and applying a priming coat of approved steel primer.   |    |        |        |           |
| a)   | 10.13.1 | Fixing with 15x3 mm lugs 10 cm long embedded in cement concrete block 15x10x10 cm of C.C. 1:3:6 (1 Cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size)   | Kg | 90.00  | 141.70 | 12,753.00 |
| 6.03 | 10.15   | Providing and fixing M.S. Tubular frames for doors, windows, ventilators and cupboard with rectangular/ L-Type sections, made of 1.60 mm thick M.S. Sheet, joints mitred, welded and grinded finish, with profiles of required size, including fixing of necessary butt hinges and screws and applying a priming coat of approved steel primer.  |    |        |        | -         |

|                          |           |  |       |        |                  |           |
|--------------------------|-----------|--|-------|--------|------------------|-----------|
| a)                       | 10.15.1   | Fixing with 15x3 mm lugs 10 cm long embedded in cement concrete block 15x10x10 cm of C.C. 1:3:6 (1 Cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size)   | Kg    | 0.00   | 137.3            | -         |
| 6.03                     | 10.17     | Providing and fixing M.S. fan clamp type I or II of 16 mm dia M.S. bar, bent to shape with hooked ends in R.C.C. slabs or beams during laying, including painting the exposed portion of loop, all as per standard design complete.  | Each  | 5.00   | 226.00           | 1,130.00  |
| 6.03                     | 10.18     | Providing and fixing circular/ Hexagonal cast iron or M.S. sheet box for ceiling fan clamp, of internal dia 140 mm, 73 mm height, top lid of 1.5 mm thick M.S. sheet with its top surface hacked for proper bonding, top lid shall be screwed into the cast iron/ M.S. sheet box by means of 3.3 mm dia round headed screws, one lock at the corners. Clamp shall be made of 12 mm dia M.S. bar bent to shape as per standard drawing.   | Each  | 5.00   | 220.65           | 1,103.25  |
| 6.04                     | 10.26     | Providing and fixing hand rail of approved size by welding etc. to steel ladder railing, balcony railing, staircase railing and similar works, including applying priming coat of approved steel primer.   |       |        |                  |           |
| a)                       | 10.26.1   | M.S. tube  | Kg    | 140.00 | 196.80           | 27,552.00 |
| 6.05                     | 10.28     | Providing and fixing stainless steel ( Grade 304) railing made of Hollow tubes, channels, plates etc., including welding, grinding, buffing, polishing and making curvature (wherever required) and fitting the same with necessary stainless steel nuts and bolts complete, i/c fixing the railing with necessary accessories & stainless steel dash fasteners, stainless steel bolts etc., of required size, on the top of the floor or the side of waist slab with suitable arrangement as per approval of Engineer-in-charge, (for payment purpose only weight of stainless steel members shall be considered excluding fixing accessories such as nuts, bolts, fasteners etc.). | Kg    | 0.00   | 575.45           | -         |
| 6.05                     | 10.30     | Providing & fixing glass panes with putty and glazing clips in steel doors, windows, clerestory windows, all complete with :   |       |        |                  |           |
| a)                       | 10.30.1   | 4.0 mm thick glass panes   | Sqm   | 20.00  | 1064.65          | 21,293.00 |
| <b>Total of sub-head</b> |           |  |       |        | <b>80,867.75</b> |           |
| <b>7.00</b>              | <b>11</b> | <b>FLOORING</b>  |       |        |                  |           |
| 7.01                     | 11.4      | 52 mm thick cement concrete flooring with concrete hardener topping, under layer 40 mm thick cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) and top layer 12 mm thick cement hardener consisting of mix 1:2 (1 cement hardener mix : 2 graded stone aggregate 6 mm nominal size) by volume, hardening compound mixed @ 2 litre per 50 kg of cement or as per manufacturer's specifications. This includes cost of cement slurry, but excluding the cost of nosing of steps etc. complete.  | Sqm   | 0.00   | 787.50           | -         |
| 7.02                     | 11.6      | Cement plaster skirting up to 30 cm height, with cement mortar 1:3 (1 cement : 3 coarse sand), finished with a floating coat of neat cement.   |       |        |                  |           |
| a)                       | 11.6.1    | 18 mm thick  | Sqm   | 0.00   | 521.15           | -         |
| 7.02                     | 11.13     | Providing and fixing glass strips in joints of terrazo/ cement concrete floors.  |       |        |                  |           |
| a)                       | 11.13.1   | 40 mm wide and 4 mm thick  | Metre | 0.00   | 75.15            | -         |
| 7.01                     | 11.26     | Kota stone slab flooring over 20 mm (average) thick base laid over and jointed with grey cement slurry mixed with pigment to match the shade of the slab, including rubbing and polishing complete with base of cement mortar 1 : 4 (1 cement : 4 coarse sand) :   |       |        |                  |           |
| a)                       | 11.26.1   | 25 mm thick.   | Sqm   | 367.00 | 1948.25          | -         |
| 7.02                     | 11.27     | Kota stone slabs 20 mm thick in risers of steps, skirting, dado and pillars laid on 12 mm (average) thick cement mortar 1:3 (1 cement: 3 coarse sand) and jointed with grey cement slurry mixed with pigment to match the shade of the slabs, including rubbing and polishing complete.  | Sqm   | 65.00  | 2354.70          | -         |
| 7.03                     | 11.31     | Extra for pre finished nosing in treads of steps of Kota stone/ sand stone slab.   | Metre | 76.00  | 191.40           | -         |

|                          |           |   |      |        |         |            |
|--------------------------|-----------|---|------|--------|---------|------------|
| 7.04                     | 11.32     | Extra for Kota stone/ sand stone in treads of steps and risers using single length up to 1.05 metre.  | Sqm  | 28.00  | 44.15   | -          |
| 7.05                     | 8.31      | Providing and fixing 1st quality ceramic glazed wall tiles conforming to IS: 15622 (thickness to be specified by the manufacturer), of approved make, in all colours, shades except burgundy, bottle green, black of any size as approved by Engineer-in-Charge, in skirting, risers of steps and dados, over 12 mm thick bed of cement mortar 1:3 (1 cement : 3 coarse sand) and jointing with grey cement slurry @ 3.3kg per sqm, including pointing in white cement mixed with pigment of matching shade complete.   | Sqm  | 200.00 | 1267.95 | -          |
| 7.06                     | 11.37     | Providing and laying Ceramic glazed floor tiles of size 300x300 mm (thickness to be specified by the manufacturer) of 1st quality conforming to IS : 15622 of approved make in colours such as White, Ivory, Grey, Fume Red Brown, laid on 20 mm thick cement mortar 1:4 (1 Cement : 4 Coarse sand), jointing with grey cement slurry @ 3.3kg/sqm including pointing the joints with white cement and matching pigment etc., complete.  | Sqm  | 20.00  | 1096.55 | -          |
| 7.07                     | 11.41     | Providing and laying vitrified floor tiles in different sizes (thickness to be specified by the manufacturer) with water absorption less than 0.08% and conforming to IS: 15622, of approved make, in all colours and shades, laid on 20mm thick cement mortar 1:4 (1 cement : 4 coarse sand), jointing with grey cement slurry @ 3.3kg/sqm including grouting the joints with white cement and matching pigments etc., complete.   |      |        |         |            |
| a)                       | 11.41.2   | Size of Tile 600x600 mm   | Sqm  | 0.00   | 1500.55 | -          |
| 7.08                     | 11.46     | Providing and laying Vitrified tiles in different sizes (thickness to be specified by manufacturer), with water absorption less than 0.08 % and conforming to I.S. 15622, of approved make, in all colours & shade, in skirting, riser of steps, over 12 mm thick bed of cement mortar 1:3 (1 cement: 3 coarse sand), jointing with grey cement slurry @ 3.3kg/sqm including grouting the joint with white cement & matching pigments etc. complete.  |      |        |         |            |
| a)                       | 11.46.2   | Size of Tile 600x600 mm   | Sqm  | 0.00   | 1545.85 | -          |
| 7.07                     | 16.68     | Providing and laying 60mm thick factory made cement concrete interlocking paver block of M -30 grade made by block making machine with strong vibratory compaction, of approved size, design & shape, laid in required colour and pattern over and including 50mm thick compacted bed of coarse sand, filling the joints with line sand etc. all complete as per the direction of Engineer-in-charge.   | Sqm  | 0.00   | 859.35  | -          |
| <b>Total of sub-head</b> |           |   |      |        |         | -          |
| <b>8.00</b>              | <b>12</b> | <b>ROOFING</b>  |      |        |         |            |
| 8.01                     | 12.22     | Making khurras 45x45 cm with average minimum thickness of 5 cm cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate of 20 mm nominal size) over P.V.C. sheet 1 m x1 m x 400 micron, finished with 12 mm cement plaster 1:3 (1 cement : 3 coarse sand) and a coat of neat cement, rounding the edges and making and finishing the outlet complete.   | Each | 20.00  | 298.25  | 5,965.00   |
| 8.02                     | 12.50     | Providing and fixing pre-coated galvanised iron profile sheets (size, shape and pitch of corrugation as approved by Engineer-in-charge) 0.50 mm (+ 0.05 %) total coated thickness with zinc coating 120 grams per sqm as per IS: 277, in 240 mpa steel grade, 5-7 microns epoxy primer on both side of the sheet and polyester top coat 15-18 microns. Sheet should have protective guard film of 25 microns minimum to avoid scratches during transportation and should be supplied in single length upto 12 metre or as desired by Engineer-in-charge. The sheet shall be fixed using self drilling /self tapping screws of size (5.5x 55 mm) with EPDM seal, complete upto any pitch in horizontal/ vertical or curved surfaces, excluding the cost of purlins, rafters and trusses and including cutting to size and shape wherever required. | Sqm  | 150.00 | 738.65  | 110,797.50 |

|             |           |  |       |        |         |                   |
|-------------|-----------|--|-------|--------|---------|-------------------|
| 8.03        | 12.53     | Providing and Fixing 15 mm thick densified tegular edged eco friendly light weight calcium silicate false ceiling tiles of approved texture of size 595 x 595 mm in true horizontal level, suspended on inter locking metal grid of hot dipped galvanised steel sections (galvanising @ 120 grams per sqm including both side) consisting of main 'T' runner suitably spaced at joints to get required length and of size 24x38 mm made from 0.33 mm thick (minimum) sheet, spaced 1200 mm centre to centre, and cross "T" of size 24x28 mm made out of 0.33 mm (Minimum) sheet, 1200 mm long spaced between main 'T' at 600 mm centre to centre to form a grid of 1200x600 mm and secondary cross 'T' of length 600 mm and size 24 x28 mm made of 0.33 mm thick (Minimum) sheet to be inter locked at middle of the 1200x 600 mm panel to form grid of size 600x600 mm, resting on periphery walls /partitions on a Perimeter wall angle pre-coated steel of size(24x24X3000 mm made of 0.40 mm thick (minimum) sheet with the help of rawl plugs at 450 mm centre to centre with 25 mm long dry wall screws @ 230 mm interval and laying 15 mm thick densified edges calicum silicate ceiling tiles of approved texture in the grid. including. cutting/ making opening for services like diffusers. | Sqm   | 50.00  | 2158.15 | 107,907.50        |
|             |           | <b>Total of sub-head</b>   |       |        |         | <b>224,670.00</b> |
| <b>9.00</b> | <b>13</b> | <b>FINISHING</b>   |       |        |         |                   |
| 9.01        | 13.4      | 12 mm cement plaster of mix  |       |        |         | -                 |
| a)          | 13.4.2    | 1:6 (1 cement: 6 coarse sand)  | Sqm   | 50.00  | 343.65  | 17,182.50         |
|             |           |  |       |        |         | -                 |
| 9.02        | 13.5      | 15 mm cement plaster on rough side of single or half brick wall of mix:  |       |        |         |                   |
| a)          | 13.5.1    | 1:4 (1 cement: 4 coarse sand)  | Sqm   | 400.00 | 318.95  | 127,580.00        |
| b)          | 13.5.2    | 1:6 (1 cement: 6 coarse sand)  | Sqm   | 50.00  | 395.35  | 19,767.50         |
| 9.03        | 13.9      | Cement plaster 1:3 (1 cement: 3 coarse sand) finished with a floating coat of neat cement.   |       |        |         |                   |
| a)          | 13.9.2    | 20 mm Cement Plaster   | Sqm   | 30.00  | 587.20  | 17,616.00         |
| 9.03        | 13.16     | 6mm cement plaster of mix  |       |        |         | -                 |
| a)          | 13.16.1   | 1:3 (1 cement : 3 fine sand)   | Sqm   | 30.00  | 300.45  | 9,013.50          |
|             |           |  |       |        |         | -                 |
| 9.04        | 13.37     | White washing with lime to give an even shade :  |       |        |         |                   |
| a)          | 13.37.1   | New work (three or more coats)   | Sqm   | 50.00  | 39.05   | 1,952.50          |
| 9.05        | 13.41     | Distempering with oil bound washable distemper of approved brand and manufacture to give an even shade :   |       |        |         |                   |
| a)          | 13.41.1   | New work (two or more coats) over and including water thinnable priming coat with cement primer  | Sqm   | 60.00  | 185.65  | 11,139.00         |
| 9.06        | 13.47     | Finishing walls with Premium Acrylic Smooth exterior paint with Silicone additives of required shade:  |       |        |         |                   |
| a)          | 13.47.1   | New work (Two or more coats applied @ 1.43 ltr/10 sqm over and including priming coat of exterior primer applied @ 2.20 kg/10 sqm)   | Sqm   | 60.00  | 171.10  | 10,266.00         |
| 9.07        | 13.50     | Applying priming coat:   |       |        |         |                   |
| a)          | 13.50.2   | With ready mixed pink or Grey primer of approved brand and manufacture on wood work (hard and soft wood)   | Sqm   | 60.00  | 74.65   | 4,479.00          |
| b)          | 13.50.3   | With ready mixed red oxide zinc chromate primer of approved brand and manufacture on steel galvanised iron/ steel works  | Sqm   | 60.00  | 67.40   | 4,044.00          |
| 9.08        | 13.62     | Painting with synthetic enamel paint of approved brand and manufacture to give an even shade :   |       |        |         | -                 |
| a)          | 13.62.1   | Two or more coats on new work  | Sqm   | 60.00  | 226.25  | 13,575.00         |
| 9.09        | 13.65     | Painting with black anti-corrosive bitumastic paint of approved brand and manufacture to give an even shade :  |       |        |         |                   |
| a)          | 13.65.1   | Two or more coats on new work  | Sqm   | 0.00   | 106.05  | -                 |
| 9.10        | 13.73     | Forming groove of uniform size in the top layer of washed stone grit plaster as per approved pattern using wooden battens, nailed to the under layer, including removal of wooden battens, repair to the edges of panels and finishing the groove complete as per specifications and direction of the Engineer-in-charge :   |       |        |         |                   |
| a)          | 13.73.1   | 15 mm wide and 15 mm deep groove   | metre | 60.00  | 75.15   | 4,509.00          |
| 9.11        | 13.80     | Providing and applying white cement based putty of average thickness 1 mm, of approved brand and manufacturer, over the plastered wall surface to prepare the surface even and smooth complete.  | Sqm   | 60.00  | 156.05  | 9,363.00          |
| 9.12        | MR        | Epoxy paint of approved brand and manufacture to give an even shade :  |       |        |         | -                 |

|    |                               |     |       |        |                                       |
|----|-------------------------------|-----|-------|--------|---------------------------------------|
| a) | Two or more coats on old work | Sqm | 60.00 | 123.00 |                                       |
|    | <b>Total of sub-head</b>      |     |       |        | <div>250,487.00</div> <div>0.00</div> |

**ESTIMATE OF FOR CONSTRUCTION OF ADDITIONAL DORMITORY & STAFF  
QUARTERS AT JNV KUPWARA, JAMMU AND KASHMIR**

**SUMMARY OF PLUMBING WORK GIRLS DORMITORY**

| <b>S. No.</b> | <b>DESCRIPTION</b>         | <b>AMOUNT (Rs.)</b> |
|---------------|----------------------------|---------------------|
| 1             | EARTH WORK                 | 3,521.50            |
| 2             | ROOFING                    | 12,195.75           |
| 3             | SANITARY INSTALLATIONS     | 106,434.20          |
| 4             | WATER SUPPLY               | 70,044.30           |
| 5             | SEWARAGE & DRAINAGE        | 67,327.25           |
|               | <b>TOTAL DSR ITEMS</b>     | <b>259,523.00</b>   |
| 6             | NON SCHEDULE ITEMS         | -                   |
|               | <b>TOTAL NON DSR ITEMS</b> | <b>-</b>            |
|               | <b>TOTAL (A+B)</b>         | <b>259,523.00</b>   |
|               | <b>Say</b>                 | <b>2.60 Lakh</b>    |

**ESTIMATE OF FOR CONSTRUCTION OF ADDITIONAL DORMITORY & STAFF QUARTERS AT JNV KUPWARA,**

**PHE COST ESTIMATE OF Girls DORMITORY**

| S. No. | Ref. No   | Description   | Unit  | Qty   | DSR 23 Rate | Amount (Rs.)    |
|--------|-----------|---|-------|-------|-------------|-----------------|
| 1      | 2         | 3   | 4     | 5     | 6           | 7.00            |
| 1.00   | 2.00      | <b>EARTH WORK</b>   |       |       |             |                 |
| 1.02   | 2.10      | Excavating trenches of required width for pipes, cables, etc including excavation for sockets, and dressing of sides, ramming of bottoms, depth upto 1.5 m, including getting out the excavated soil, and then returning the soil as required, in layers not exceeding 20 cm in depth, including consolidating each deposited layer by ramming, watering, etc. and disposing of surplus excavated soil as directed, within a lead of 50 m : |       |       |             |                 |
|        | 2.10.1    | All kinds of soil   |       |       |             |                 |
| a)     | 2.10.1.1  | Pipes, cables etc, not exceeding 80 mm dia.   | Metre | 10.00 | 215.60      | -               |
| b)     | 2.10.1.2  | Pipes, cables etc. exceeding 80 mm dia. but not exceeding 300 mm dia  | Metre | 10.00 | 352.15      | 3,521.50        |
| 1.03   | 2.25      | Filling available excavated earth (excluding rock) in trenches, plinth, sides of foundations etc. in layers not exceeding 20cm in depth, consolidating each deposited layer by ramming and watering, lead up to 50 m and lift upto 1.5 m.   | Cum   | 4.00  | 196.00      | -               |
|        |           | <b>Total of sub-head</b>  |       |       |             | <b>3,521.50</b> |
| 2.00   | 12.00     | <b>ROOFING</b>  |       |       |             |                 |
| 2.01   | 12.41     | Providing and fixing on wall face unplasticised Rigid PVC rain water pipes conforming to IS : 13592 Type A, including jointing with seal ring conforming to IS : 5382, leaving 10 mm gap for thermal expansion, (i) Single socketed pipes.  |       |       |             |                 |
| A)     | 12.41.2   | 110 mm diameter   | Metre | 20.00 | 377.40      | 7,548.00        |
| 2.02   | 12.42     | Providing and fixing on wall face unplasticised - PVC moulded fittings/ accessories for unplasticised Rigid PVC rain water pipes conforming to IS : 13592 Type A, including jointing with seal ring   |       |       |             |                 |
| i)     | 12.42.1   | Coupler   |       |       |             |                 |
| a)     | 12.42.1.2 | 110 mm  | Each  | 5.00  | 136.15      | 680.75          |
| ii)    | 12.42.5   | Bend 87.5°  |       |       |             |                 |
| a)     | 12.42.5.2 | 110 mm bend   | Each  | 5.00  | 150.35      | 751.75          |
| iii)   | 12.42.6   | Shoe (Plain)  |       |       |             |                 |
| a)     | 12.42.6.2 | 110 mm Shoe   | Each  | 5.00  | 131.85      | 659.25          |
| 2.03   | 12.43     | Providing and fixing unplasticised -PVC pipe clips of approved design to unplasticised - PVC rain water pipes by means of 50x50x50 mm hard wood plugs, screwed with M.S. screws of required length, including cutting brick work and fixing in cement mortar 1:4 (1 cement : 4 coarse sand) and making good the wall etc. complete.   |       |       |             |                 |
| a)     | 12.43.2   | 110 mm  | Each  | 6.00  | 371.30      | 2,227.80        |
| 2.04   | 12.44     | Providing and fixing to the inlet mouth of rain water pipe cast iron grating 15 cm diameter and weighing not less than 440 grams.   | Each  | 6.00  | 54.70       | 328.20          |

**Total of sub-head**

**12,195.75**

**3.00 17.00 SANITARY INSTALLATIONS**

|      |           |   |       |      |         |           |
|------|-----------|---|-------|------|---------|-----------|
| 3.01 | 17.1      | Providing and fixing water closet squatting pan (Indian type W.C. pan ) with 100 mm sand cast Iron P or S trap, 10 litre low level white P.V.C. flushing cistern, including flush pipe, with manually controlled device (handle lever) conforming to IS : 7231, with all fittings and                                       |       |      |         |           |
| a)   | 17.1.1    | White Vitreous china Orissa pattern W.C. pan of size 580x440 mm with integral type foot rests   | Each  | 3.00 | 6767.40 | 20,302.20 |
| 3.02 | 17.7      | Providing and fixing wash basin with C.I. brackets, 15 mm C.P. brass pillar taps, 32 mm C.P. brass waste of standard pattern, including painting of fittings and brackets, cutting and making good the walls wherever require:  |       |      |         |           |
| a)   | 17.7.4    | White Vitreous China Flat back wash basin size 550x 400 mm with single 15 mm C.P. brass pillar tap  | Each  | 1.00 | 1879.20 | 1,879.20  |
| 3.03 | 17. 35    | Providing and fixing soil, waste and vent pipes.  |       |      |         |           |
| a)   | 17.35.1   | 100 mm dia.   |       |      |         |           |
| i)   | 17.35.1.2 | Centrifugally cast (spun) iron socket & spigot (S&S) pipe as per IS: 3989   | Metre | 8.00 | 1180.75 | 9,446.00  |
| b)   | 17.35.2   | 75mm diameter   |       |      |         | -         |
| i)   | 17.35.2.2 | Centrifugally cast (spun) iron socketed pipe as per IS: 3989  | Metre | 8.00 | 1186.00 | 9,488.00  |
|      |           |   |       |      |         | -         |
| 3.04 | 17. 37    | Providing and fixing M.S. holder-bat clamps of approved design to Sand Cast iron/cast iron (spun) pipe embedded in and including cement concrete blocks 10x10x10 cm of 1:2:4 mix (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size), including cost of cutting holes and making good the walls etc. : |       |      |         |           |
| a)   | 17.37.1   | For 100 mm dia. pipe  | Each  | 8.00 | 362.85  | 2,902.80  |
| b)   | 17.37.2   | For 75 mm dia. pipe   | Each  | 8.00 | 360.00  | 2,880.00  |
|      |           |   |       |      |         | -         |
| 3.05 | 17. 38    | Providing and fixing bend of required degree with access door, insertion rubber washer 3 mm thick, bolts and nuts complete.   |       |      |         |           |
| a)   | 17.38.1   | 100 mm  |       |      |         | -         |
| i)   | 17.38.1.2 | Sand cast iron S&S as per IS - 3989   | Each  | 3.00 | 705.20  | 2,115.60  |
| b)   | 17.38.2   | 75 mm   |       |      |         | -         |
| i)   | 17.38.2.2 | Sand cast iron S&S as per IS- 3989  | Each  | 3.00 | 522.80  | 1,568.40  |
|      |           |   |       |      |         | -         |
| 3.06 | 17. 39    | Providing and fixing plain bend of required degree.   |       |      |         |           |
| a)   | 17.39.1   | 100 mm  |       |      |         | -         |
| i)   | 17.39.1.2 | Sand cast iron S&S as per IS:3989   | Each  | 3.00 | 570.05  | 1,710.15  |
| b)   | 17.39.2   | 75 mm   |       |      |         | -         |
| i)   | 17.39.2.2 | Sand cast iron S&S as per IS:3989   | Each  | 3.00 | 390.50  | 1,171.50  |
|      |           |   |       |      |         | -         |
| 3.07 | 17. 40    | Providing and fixing heel rest sanitary bend  |       |      |         |           |
| a)   | 17.40.1   | 100 mm dia  |       |      |         | -         |
| i)   | 17.40.1.2 | Sand cast iron S&S as per IS - 3989   | Each  | 2.00 | 548.70  | 1,097.40  |
| b)   | 17.40.2   | 75 mm dia   |       |      |         | -         |
| i)   | 17.40.2.2 | Sand cast iron S&S as per IS - 3989   | Each  | 2.00 | 504.30  | 1,008.60  |
|      |           |   |       |      |         | -         |
| 3.08 | 17. 43    | Providing and fixing single equal plain junction of required degree with access door, insertion rubber washer 3mm thick, bolts and nuts complete.   |       |      |         |           |
| a)   | 17.43.1   | 100x100x100mm   |       |      |         | -         |
| i)   | 17.43.1.2 | Sand cast iron S&S as per IS - 3989   | Each  | 3.00 | 925.70  | 2,777.10  |
| b)   | 17.43.2   | 75x75x75mm  |       |      |         | -         |
| i)   | 17.43.2.2 | Sand cast iron S&S as per IS - 3989   | Each  | 3.00 | 665.05  | 1,995.15  |
|      |           |   |       |      |         | -         |



|      |           |   |       |       |         |  |           |
|------|-----------|---|-------|-------|---------|--|-----------|
| 3.09 | 17. 44    | Providing and fixing single equal plain junction of required degree   |       |       |         |  | -         |
| a)   | 17.44.1   | 100x100x100mm   |       |       |         |  | -         |
| i)   | 17.44.1.2 | Sand cast iron S&S as per IS - 3989   | Each  | 2.00  | 811.90  |  | 1,623.80  |
| b)   | 17.44.2   | 75x75x75mm  |       |       |         |  | -         |
| i)   | 17.44.2.2 | Sand cast iron S&S as per IS - 3989   | Each  | 2.00  | 561.20  |  | 1,122.40  |
| 3.10 | 17. 55    | Providing and fixing door piece, insertion rubber washer 3mm thick,   |       |       |         |  | -         |
| a)   | 17.55.1   | 100 mm  |       |       |         |  | -         |
| i)   | 17.55.1.2 | Sand cast iron S&S as per IS - 3989   | Each  | 3.00  | 683.85  |  | 2,051.55  |
| b)   | 17.55.2   | 75 mm   |       |       |         |  | -         |
| i)   | 17.55.2.2 | Sand cast iron S&S as per IS - 3989   | Each  | 3.00  | 537.00  |  | 1,611.00  |
| 3.11 | 17. 56    | Providing and fixing terminal guard :   |       |       |         |  | -         |
| a)   | 17.56.1   | 100 mm  |       |       |         |  | -         |
| i)   | 17.56.1.2 | Sand cast iron S&S as per IS - 3989   | Each  | 3.00  | 506.00  |  | 1,518.00  |
| b)   | 17.56.2   | 75 mm   |       |       |         |  | -         |
| i)   | 17.56.2.2 | Sand cast iron S&S as per IS - 3989   | Each  | 3.00  | 404.75  |  | 1,214.25  |
| 3.12 | 17. 57    | Providing and fixing collar :   |       |       |         |  | -         |
| a)   | 17.57.1   | 100 mm  |       |       |         |  | -         |
| i)   | 17.57.1.2 | Sand cast iron S&S as per IS - 3989   | Each  | 5.00  | 513.15  |  | 2,565.75  |
| b)   | 17.57.2   | 75 mm   |       |       |         |  | -         |
| i)   | 17.57.2.2 | Sand cast iron S&S as per IS - 3989   | Each  | 5.00  | 362.05  |  | 1,810.25  |
| 3.13 | 17. 58    | Providing lead caulked joints to sand cast iron/centrifugally cast (spun) iron pipes and fittings of diameter :   |       |       |         |  | -         |
| a)   | 17.58.1   | 100 mm  | Each  | 20.00 | 622.50  |  | 12,450.00 |
| b)   | 17.58.2   | 75 mm   | Each  | 20.00 | 526.25  |  | 10,525.00 |
| 3.14 | 17. 59    | Providing and fixing M.S. stays and clamps for sand cast iron/centrifugally cast (spun) iron pipes of diameter :  |       |       |         |  | -         |
| a)   | 17.59.1   | 100 mm  | Each  | 3.00  | 139.70  |  | 419.10    |
| b)   | 17.59.2   | 75 mm   | Each  | 3.00  | 90.30   |  | 270.90    |
| 3.15 | 17.60     | Providing and fixing trap of self cleansing with screwed down or hinged grating with or without vent arm complete, including cost of  |       |       |         |  | -         |
| a)   | 17.60.1   | 100 mm inlet and 100 mm outlet  |       |       |         |  | -         |
| i)   | 17.60.1.1 | Sand cast iron S&S as per IS: 3989.   | Each  | 3.00  | 1996.50 |  | 5,989.50  |
| 3.16 | 17.61     | Cutting chases in brick masonry walls for following diameter sand cast iron/ centrifugally cast (spun) iron pipes and making good the same with cement concrete 1:3:6 ( 1 cement : 3 coarse sand :6 graded stone aggregate 12.5 mm nominal size), including necessary plaster |       |       |         |  | -         |
| a)   | 17.61.1   | 100 mm dia  | Metre | 3.00  | 713.20  |  | 2,139.60  |
| 3.17 | 17.65     | Painting sand cast iron/ centrifugally cast (spun) iron soil, waste vent pipes and fittings with two coats of synthetic enamel paint of any colour such as chocolate grey, or buff etc. over a coat of primer (of approved quality) for new work :                            |       |       |         |  | -         |
| a)   | 17.65.1   | 100 mm diameter pipe  | Metre | 2.00  | 82.80   |  | 165.60    |
| b)   | 17.65.2   | 75 mm diameter pipe   | Metre | 2.00  | 62.95   |  | 125.90    |
| 3.18 | 17.69     | Providing and fixing PTMT Waste Coupling for wash basin and sink, of approved quality and colour.   |       |       |         |  | -         |
| a)   | 17.69.2   | Waste coupling 38 mm dia of 83 mm length and 77mm breadth, weighing not less than 60 gms  | Each  | 1.00  | 122.40  |  | 122.40    |
| 3.19 | 17.70     | Providing and fixing PTMT Bottle Trap for Wash basin and sink.  |       |       |         |  | -         |

|                          |              |  |       |       |        |                   |   |
|--------------------------|--------------|--|-------|-------|--------|-------------------|---|
| a)                       | 17.70.1      | Bottle trap 31mm single piece moulded with height of 270 mm, effective length of tail pipe 260 mm from the centre of the waste coupling, 77 mm breadth with 25 mm minimum water seal, weighing not less than 260 gms   | Each  | 1.00  | 367.10 | 367.10            | - |
| <b>Total of sub-head</b> |              |  |       |       |        | <b>106,434.20</b> |   |
| 4.00                     | <b>18.00</b> | <b>WATER SUPPLY</b>  |       |       |        |                   | - |
| 4.01                     | 18.7         | Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply, including all CPVC plain & brass threaded fittings, including fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and testing of joints complete as per direction of Engineer in Charge.   |       |       |        |                   | - |
|                          |              | <b>Internal work - Exposed on wall</b>   |       |       |        |                   | - |
| a)                       | 18.7.2       | 20 mm nominal outer dia Pipes  | Metre | 2.50  | 335.00 | 837.50            |   |
| b)                       | 18.7.3       | 25 mm nominal outer dia Pipes  | Metre | 3.00  | 401.55 | 1,204.65          |   |
| c)                       | 18.7.4       | 32 mm nominal outer dia Pipes  | Metre | 6.00  | 518.75 | 3,112.50          |   |
| 4.02                     | 18.8         | Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply, including all CPVC plain & brass threaded fittings, i/c fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and the cost of cutting chases and making good the same including testing of joints complete as per direction of Engineer in Charge. |       |       |        |                   | - |
|                          |              | Concealed work, including cutting chases and making good the walls etc.  |       |       |        |                   | - |
| a)                       | 18.8.1       | 15 mm nominal outer dia Pipes  | Metre | 6.00  | 497.80 | 2,986.80          |   |
| b)                       | 18.8.2       | 20 mm nominal outer dia Pipes  | Metre | 5.00  | 537.60 | 2,688.00          |   |
| c)                       | 18.8.3       | 25 mm nominal outer dia Pipes  | Metre | 10.00 | 627.25 | 6,272.50          |   |
| d)                       | 18.8.4       | 32 mm nominal outer dia Pipes  | Metre | 4.00  | 739.30 | 2,957.20          |   |
| 4.03                     | 18.9         | Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply including all CPVC plain & brass threaded fittings This includes jointing of pipes & fittings with one step CPVC solvent cement, trenching, refilling & testing of joints complete as per direction of Engineer in Charge.  |       |       |        |                   | - |
| a)                       | 18.9.2       | 20 mm nominal outer dia Pipes  | Metre | 10.00 | 274.30 | 2,743.00          |   |
| b)                       | 18.9.3       | 25 mm nominal outer dia Pipes  | Metre | 5.00  | 355.40 | 1,777.00          |   |
| c)                       | 18.9.4       | 32 mm nominal outer dia Pipes  | Metre | 10.00 | 438.60 | 4,386.00          |   |
| 4.04                     | 18.13        | Making connection of G.I. distribution branch with G.I. main of following sizes by providing and fixing tee, including cutting and threading the pipe etc. complete :  |       |       |        |                   | - |
| a)                       | 18.13.1      | 25 to 40 mm nominal bore   | Each  | 1.00  | 911.90 | 911.90            |   |
| 4.05                     | 18.16        | Providing and fixing brass stop cock of approved quality :   |       |       |        |                   | - |
| a)                       | 18.16.1      | 15 mm nominal bore   | Each  | 5.00  | 353.25 | 1,766.25          |   |
| b)                       | 18.16.2      | 20 mm nominal bore   | Each  | 3.00  | 379.20 | 1,137.60          |   |
| 4.06                     | 18.17        | Providing and fixing gun metal gate valve with C.I. wheel of approved quality (screwed end) :  |       |       |        |                   | - |
| a)                       | 18.17.1      | 25mm nominal bore  | Each  | 5.00  | 622.40 | 3,112.00          |   |
| b)                       | 18.17.2      | 32mm nominal bore  | Each  | 3.00  | 689.60 | 2,068.80          |   |
| c)                       | 18.17.3      | 40mm nominal bore  | Each  | 3.00  | 826.10 | 2,478.30          |   |

|       |           |  |       |         |         |                  |
|-------|-----------|--|-------|---------|---------|------------------|
| 4.07  | 18.18     | Providing and fixing ball valve (brass) of approved quality, High or low pressure, with plastic floats complete :  |       |         |         | -                |
| a)    | 18.18.3   | 25 mm nominal bore   | Each  | 2.00    | 464.05  | 928.10           |
|       |           |  |       |         |         | -                |
| 4.08  | 18.19     | Providing and fixing gun metal non-return valve of approved quality (screwed end)  |       |         |         | -                |
| a)    | 18.19.1   | 25 mm nominal bore   |       |         |         |                  |
| (i)   | 18.19.1.2 | Vertical   | Each  | 1.00    | 624.10  | 624.10           |
| b)    | 18.19.2   | 32 mm nominal bore   |       |         |         |                  |
| (ii)  | 18.19.2.2 | Vertical   | Each  | 1.00    | 850.25  | 850.25           |
| c)    | 18.19.3   | 40 mm nominal bore   |       |         |         | -                |
| (iii) | 18.19.3.2 | Vertical   | Each  | 1.00    | 1134.70 | 1,134.70         |
|       |           |  |       |         |         | -                |
| 4.09  | 18.20     | Providing and fixing brass ferrule with C.I. mouth cover including boring and tapping the main :   |       |         |         | -                |
| a)    | 18.20.3   | 25 mm nominal bore   | Each  | 3.00    | 486.80  | 1,460.40         |
|       |           |  |       |         |         | -                |
| 4.10  | 18.21     | Providing and fixing uplasticised PVC connection pipe with brass unions :  |       |         |         | -                |
| a)    | 18.21.2   | 45 cm length   |       |         |         | -                |
| i)    | 18.21.2.1 | 15 mm nominal bore   | Each  | 4.00    | 97.75   | 391.00           |
|       |           |  |       |         |         | -                |
| 4.12  | 18.48     | Providing and placing on terrace (at all floor levels) polyethylene water storage tank, IS : 12701 marked, with cover and suitable locking arrangement and making necessary holes for inlet, outlet and Rectangular tank   | Lite  | 1000.00 | 11.00   | 11,000.00        |
| a)    | 18.48B    |  |       |         |         | -                |
| 4.13  | 18.49     | Providing and fixing C.P. brass bib cock of approved quality conforming to IS:8931 :   |       |         |         | -                |
| a)    | 18.49.1   | 15 mm nominal bore   | Each  | 12.00   | 506.80  | 6,081.60         |
|       |           |  |       |         |         | -                |
| 4.14  | 18.51     | Providing and fixing C.P. brass long body bib cock of approved quality conforming to IS standards and weighing not less than 690 gms.  |       |         |         |                  |
| a)    | 18.51.1   | 15 mm nominal bore   | Each  | 2.00    | 798.95  | 1,597.90         |
| 4.15  | 18.52     | Providing and fixing C.P. brass stop cock (concealed) of standard design and of approved make conforming to IS:8931.   |       |         |         | -                |
| a)    | 18.52.1   | 15 mm nominal bore.  | Each  | 5.00    | 670.45  | 3,352.25         |
|       |           |  |       |         |         | -                |
|       |           |  |       |         |         | -                |
| 4.17  | 18.58     | Providing and fixing PTMT grating of approved quality and colour.  |       |         |         | -                |
| a)    | 18.58.1   | Circular type.   |       |         |         | -                |
| i)    | 18.58.1.1 | 100 mm nominal dia.  | Each  | 10.00   | 37.60   | 376.00           |
|       |           |  |       |         |         | -                |
| 4.18  | 18.77     | Cutting holes up to 15x15 cm in R.C.C. floors and roofs for passing drain pipe etc. and repairing the hole after insertion of drain pipe etc. with cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size), including finishing complete so as to make it leak proof. | Each  | 4.00    | 452.00  | 1,808.00         |
|       |           |  |       |         |         | -                |
|       |           | <b>Total of sub-head</b>   |       |         |         | <b>70,044.30</b> |
| 5.00  | <b>19</b> | <b>SEWAGE &amp; DRAINAGE</b>   |       | 0.00    | 0.00    | -                |
| 5.01  | 19.1      | Providing, laying and jointing glazed stoneware pipes class SP-1 with stiff mixture of cement mortar in the proportion of 1:1 (1 cement : 1 fine sand) including testing of joints etc. complete :   |       |         |         |                  |
| a)    | 19.1.1    | 100 mm diameter  | Metre | 7.00    | 443.60  | 3,105.20         |

|                          |           |  |       |      |          |                  |
|--------------------------|-----------|--|-------|------|----------|------------------|
| b)                       | 19.1.2    | 150 mm diameter  | Metre | 6.00 | 695.80   | 4,174.80         |
| 5.02                     | 19.2      | Providing and laying cement concrete 1:5:10 (1 cement : 5 coarse sand : 10 graded stone aggregate 40 mm nominal size) all-round S.W. pipes including bed concrete as per standard design :   |       |      |          | -                |
| a)                       | 19.2.1    | 100 mm diameter S.W. pipe  | Metre | 7.00 | 964.75   | 6,753.25         |
| b)                       | 19.2.2    | 150 mm diameter S.W. pipe  | Metre | 6.00 | 1179.85  | 7,079.10         |
| 5.03                     | 19.4      | Providing and fixing square-mouth S.W. gully trap class SP-1 complete with C.I. grating brick masonry chamber with water tight C.I. cover with frame of 300 x300 mm size (inside) the weight of cover to be not less than 4.50 kg and frame to be not less than 2.70   |       |      |          | -                |
| a)                       | 19.4.2    | 150 x 100 mm size P type   |       |      |          | -                |
| i)                       | 19.4.2.1  | With common burnt clay F.P.S. (non modular) bricks of class designation 7.5  | Each  | 2.00 | 2734.20  | 5,468.40         |
| 5.04                     | 19.7      | Constructing brick masonry manhole in cement mortar 1:4 ( 1 cement : 4 coarse sand ) with R.C.C. top slab with 1:2:4 mix (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size), foundation concrete 1:4:8 mix (1 cement : 4 coarse sand : 8 graded stone aggregate 40 mm nominal size), inside plastering 12 mm thick with cement mortar 1:3 (1 cement : 3 coarse sand) finished with floating coat of neat cement and making channels in cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) finished with a floating coat of neat cement complete as per standard design : |       |      |          | -                |
| a)                       | 19.7.1    | Inside size 90x80 cm and 45 cm deep including C.I. cover with frame (light duty) 455x610 mm internal dimensions, total weight of cover and frame to be not less than 38 kg (weight of cover 23 kg and weight of frame 15 kg) :   |       |      |          | -                |
| i)                       | 19.7.1.1  | With common burnt clay F.P.S. (non modular) bricks of class designation 7.5  | Each  | 2.00 | 12770.55 | 25,541.10        |
| 5.05                     | 19.8      | Extra for depth for manholes :   |       |      |          | -                |
| a)                       | 19.8.1    | Size 90x80 cm  |       |      |          | -                |
| i)                       | 19.8.1.1  | With common burnt clay F.P.S. (non modular) bricks of class designation 7.5  | Metre | 1.00 | 8825.40  | 8,825.40         |
| 5.06                     | 19.15.2   | Providing M.S. foot rests including fixing in manholes with 20x20x10cm cement concrete blocks 1:3:6 (1 cement : 3 coarse sand : 6graded stone aggregate 20 mm nominalsize) as per standard design :  | Each  | 4.00 | 496.50   | 1,986.00         |
| 5.07                     | 19.19     | Providing and fixing in position pre-cast R.C.C. manhole cover and frame of required shape and approved quality  |       |      |          | -                |
| a)                       | 19.19.2   | MD - 10  |       |      |          | -                |
| i)                       | 19.19.2.1 | Square shape 450 mm internal dimension   | Each  | 2.00 | 1386.55  | 2,773.10         |
| 5.08                     | 19.21     | Making connection of drain or sewer line with existing manhole including breaking into and making good the walls, floors with cement concrete 1:2:4 mix (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) cement plastered on both sides with cement mortar 1:3 (1 cement : 3 coarse sand), finished with a floating coat of neat cement and making necessary channels for the drain etc. complete :  |       |      |          | -                |
| a)                       | 19.21.1   | For pipes 100 to 250 mm diameter   | Each  | 2.00 | 810.45   | 1,620.90         |
| <b>Total of sub-head</b> |           |  |       |      |          | <b>67,327.25</b> |

**ESTIMATE OF FOR CONSTRUCTION OF ADDITIONAL DORMITORY & STAFF QUARTERS AT****ABSTRACT**

| <b>SUB<br/>HEAD</b> | <b>PARTICULARS</b>           | <b>AMOUNT<br/>SR ITEMS</b> | <b>AS PER<br/>NS ITEMS</b> |
|---------------------|------------------------------|----------------------------|----------------------------|
| <b>I</b>            | WIRING                       | 44,060.00                  | -                          |
| <b>II</b>           | SUPPLY OF FITTINGS AND FANS  | 4,619.00                   | 91,886.90                  |
| <b>III</b>          | BOARDS & DISTRIBUTION BOARDS | 38,136.00                  | -                          |
| <b>IV</b>           | EARTHING                     | 11,125.00                  | -                          |
| <b>V</b>            | STREET LIGHTING ON BUILDING  | 6,378.00                   | 8,257.25                   |
|                     | <b>TOTAL</b>                 | <b>104,318.00</b>          | <b>100,144.15</b>          |
|                     |                              | <b>Say in Lacs</b>         | <b>1.04</b>                |
|                     |                              |                            | <b>1.00</b>                |

**ESTIMATE OF FOR CONSTRUCTION OF ADDITIONAL DORMITORY & STAFF QUARTERS AT JNV KUPWARA, JAMMU AND KASHMIR**

**Cost Estimate of Girls Dormitory**

(All Amount in Rs.)

| Sl. No. | DSR-2022 | DESCRIPTION  | UNIT  | QTY.  | RATE (AS PER SR) | RATE (AS PER NS) | AMOUNT (SR ITEMS) | AMOUNT (NS ITEMS) |
|---------|----------|--|-------|-------|------------------|------------------|-------------------|-------------------|
| 1.00    |          | <b>SUBHEAD - I - WIRING</b>  |       |       |                  |                  |                   |                   |
| 1.01    | 1.10     | Wiring for light point/ fan point/ exhaust fan point/ call bell point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable in surface / recessed medium class PVC conduit, with modular switch, modular plate, suitable GI box and earthing the point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable etc. as required. |       |       |                  |                  |                   |                   |
| a)      | 1.10.3   | Group C  | Each  | 8.00  | 1467.00          |                  | 11736.00          | 0.00              |
| 1.02    | 1.12     | Wiring for light/ power plug with 2X4 sq. mm FRLS PVC insulated copper conductor single core cable in surface/ recessed medium class PVC conduit alongwith 1 No. 4 sq. mm FRLS PVC insulated copper conductor single core cable for loop earthing as required.   | Metre | 10.00 | 334.00           |                  | 3340.00           | 0.00              |
| 1.03    | 1.6      | Wiring for light/ power plug with 4X4 sq. mm FRLS PVC insulated copper conductor single core cable in surface/ recessed steel conduit alongwith 2 Nos. 4 sq. mm FRLS PVC insulated copper conductor single core cable for loop earthing as required.   | Metre | 10.00 | 662.00           |                  | 6620.00           | 0.00              |
| 1.04    | 1.27     | Supplying and fixing following size/ modules, GI box alongwith modular base & cover plate for modular switches in recess etc. as required.   | Each  | 10.00 | 343.00           |                  | 3430.00           | 0.00              |
| a)      | 1.27.3   | 4 Module (125 mmX75 mm)  |       |       |                  |                  |                   |                   |
| 1.05    | 1.24     | Supplying and fixing following modular switch/ socket on the existing modular plate & switch box including connections but excluding modular plate etc. as required.   |       |       |                  |                  |                   |                   |
| a)      | 1.24.3   | 15/16 A switch   | Each  | 5.00  | 156.00           |                  | 780.00            | 0.00              |
| b)      | 1.24.4   | 3 pin 5/6 A socket outlet  | Each  | 5.00  | 122.00           |                  | 610.00            | 0.00              |
| c)      | 1.24.7   | TV antenna socket outlet   | Each  | 5.00  | 148.00           |                  | 740.00            | 0.00              |
| 1.06    | 1.7      | Wiring for circuit/ submain wiring alongwith earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface/ recessed steel conduit as required.   |       |       |                  |                  |                   |                   |
| a)      | 1.7.1    | 2 X 1.5 sq. mm + 1 X 1.5 sq. mm earth wire   | Metre | 5.00  | 327.00           |                  | 1635.00           | 0.00              |
| b)      | 1.7.4    | 2 X 6 sq. mm + 1 X 6 sq. mm earth wire   | Metre | 5.00  | 589.00           |                  | 2945.00           | 0.00              |
| c)      | 1.7.5    | 2 X 10 sq. mm + 1 X 6 sq. mm earth wire  | Metre | 5.00  | 710.00           |                  | 3550.00           | 0.00              |
| d)      | 1.7.8    | 4 X 4 sq. mm + 2 X 4 sq. mm earth wire   | Metre | 5.00  | 677.00           |                  | 3385.00           | 0.00              |
| 1.07    | 1.19     | Supplying and drawing co-axial TV cable RG-6 grade, 0.7 mm solid copper conductor PE insulated, shielded with fine tinned copper braid and protected with PVC sheath in the existing surface/ recessed steel/ PVC conduit as required.   | Metre | 10.00 | 47.00            |                  | 470.00            | 0.00              |
| 1.08    | 1.20     | Supplying and fixing of following sizes of steel conduit along with accessories in surface/recess including painting in case of surface conduit, or cutting the wall and making good the same in case of recessed conduit as required.   |       |       |                  |                  |                   |                   |
| a)      | 1.20.2   | 25 mm  | Metre | 10.00 | 256.00           |                  | 2560.00           | 0.00              |
| 1.09    | 1.27     | Supplying and fixing following size/ modules, GI box alongwith modular base & cover plate for modular switches in recess etc. as required.   |       |       |                  |                  |                   |                   |
| a)      | 1.27.1   | 1 or 2 Module (75 mmX75 mm)  | Each  | 3.00  | 298.00           |                  | 894.00            | 0.00              |
| 1.10    | 1.21     | Supplying and fixing of following sizes of medium class PVC conduit along with accessories in surface/recess including cutting the wall and making good the same in case of recessed conduit as required.  |       |       |                  |                  |                   |                   |
| a)      | 1.21.1   | 20 mm  | Metre | 5.00  | 128.00           |                  | 640.00            |                   |
| b)      | 1.21.2   | 25 mm  | Metre | 5.00  | 145.00           |                  | 725.00            |                   |
|         |          | <b>TOTAL OF SUBHEAD - I</b>  |       |       |                  |                  | <b>44060.00</b>   | <b>0.00</b>       |
| 2.00    |          | <b>SUBHEAD - II - SUPPLY &amp; INSTALLATION OF FITTINGS</b>  |       |       |                  |                  |                   |                   |
| 2.01    | M . R    | Supplying of following box type Fl. fitting made out of CRCA sheet finished in antirust treated non-yellowing super white stove enamelled paint duly wired with copper wound heavy duty choke starter holder, starter but without lamp complete etc. as reqd.  |       |       |                  |                  |                   |                   |

|      |        |  |      |      |        |         |                |                 |
|------|--------|--|------|------|--------|---------|----------------|-----------------|
| a)   |        | Mounting rail for TLED lamps 1600 Lumens (TMC 501 P 1xT-LED with Essential LED 18W Tube)   | Each | 5.00 |        | 585.35  | 0.00           | 2926.75         |
| b)   |        | Sereno 42 watt 2950 lumens philips SP824 P LED 30S-5000 GR OA  | Each | 5.00 |        | 9366.25 | 0.00           | 46831.25        |
| 2.02 | M . R  | Supplying of wall mounted suitable for 1300 Lumens complete with ballast & accessories such as wire guard etc. complete as required.   |      |      |        |         |                |                 |
| a)   |        | 15W Astra Surface & wall mounted 1300 Lumens ( Philips BN150W LED13S-6500 PSE OD GR )  | Each | 3.00 |        | 2458.65 | 0.00           | 7375.95         |
| 2.03 | M.R    | Supplying of wall bracket light fittings suitable for 11 / 13 W CFL lamp. The fitting shall be made up of M.S. powder coated provided with integral ballast, frosted glass and 1 no. 11 / 13 W lamp duly wired upto the connector block complete as required. (Decon Cat. No.05AAM)                                      | Each | 5.00 |        | 1170.80 | 0.00           | 5854.00         |
| 2.04 | M.R    | Supplying of ceiling light fittings suitable for 1 x 15/20 W LED lamp. The fitting shall be made up of M.S. powder coated provided with electronic ballast, 1 no. 15/20 W LED lamp duly wired upto the connector block etc. complete as required.  |      |      |        |         |                |                 |
|      |        | Cirrus Mini Pro 15 / 20 watt & 1100 /1600 Lumens (Philips SM200C LED11S 6500 PSU OD WH)  | Each | 5.00 |        | 2868.45 | 0.00           | 14342.25        |
| 2.05 | M.R.   | Supplying of bulk head fittings suitable for 10 W LED lamp complete with ballast & accessories such as glass, wire guard, 60 W CFL lamp etc. complete as required.   |      |      |        |         |                |                 |
|      |        | Endural LED-Bulkhead, 10 W, 600 lumen Such as (Philips WT202W LED6S CW PSU S2 PC)  | Each | 2.00 |        | 1697.60 | 0.00           | 3395.20         |
| 2.06 | M . R  | Supplying of exhaust fan, all complete with mounting ring frame i/c bracket, but without regulator with shutters in the following sizes. (G.E. ALSTHOM, KHAITAN & HAVELL'S COMPANY)  |      |      |        |         |                |                 |
| a)   | a)     | 300 mm 4 Pole  | Each | 3.00 |        | 1639.10 | 0.00           | 4917.30         |
| 2.07 | M . R  | Supplying of 1400 mm sweep A.C. electric Ceiling fans, capacitor type with double ball bearing complete with 300 mm down rod, canopies, shackles, blades, but without regulator suitable for operation on 230 / 240 Volts, 50 Hz, single phase, A.C. supply. (CROMPTON, KHAITAN & HAVELL'S COMPANY)                      | Each | 3.00 |        | 2081.40 | 0.00           | 6244.20         |
| 2.08 | 1.25   | Supplying and fixing two module stepped type electronic fan regulator on the existing modular plate switch box including connections but excluding modular plate etc. as required.   | Each | 3.00 | 369.00 |         | 1107.00        | 0.00            |
| 2.09 | 1.45   | Installation, testing and commissioning of ceiling fan, including wiring the down rods of standard length (upto 30 cm) with 1.5 sq. mm FRLS PVC insulated, copper conductor, single core cable, including providing and fixing phenolic laminated sheet cover on the fan box etc. as required.                           | Each | 3.00 | 339.00 |         | 1017.00        | 0.00            |
| 2.10 | 1.41   | Installation, testing and commissioning of pre-wired, Light Fixture / compact fluorescent fitting of all types, complete with all accessories and tube/lamp etc. directly on ceiling/ wall, including connections with 1.5 sq. mm FRLS PVC insulated, copper conductor, single core cable and earthing etc. as required. | Each | 4.00 | 206.00 |         | 824.00         | 0.00            |
| 2.11 | 1.50   | Installation of exhaust fan in the existing opening, including making good the damage, connection, testing, commissioning etc. as required.  |      |      |        |         |                |                 |
| a)   | 1.50.1 | Upto 450 mm sweep  | Each | 2.00 | 450.00 |         | 900.00         | 0.00            |
| 2.12 | 1.51   | Extra for fixing the louvers/ shutters complete with frame for a exhaust fan of all sizes.   | Each | 2.00 | 207.00 |         | 414.00         | 0.00            |
| 2.13 | 1.35   | Installation, testing and commissioning of wall bracket /ceiling fittings of all sizes and shapes containing upto two GLS/CFL/ LED lamps per fitting, complete with all accessories including connections etc. as required.  | Each | 3.00 | 119.00 |         | 357.00         | 0.00            |
| 2.14 | 1.38   | Supplying and fixing call bell/ buzzer suitable for single phase, 230 V, complete as required.   | Each | 0.00 | 99.00  |         | 0.00           | 0.00            |
|      |        | <b>TOTAL OF SUBHEAD - II.</b>  |      |      |        |         | <b>4619.00</b> | <b>91886.90</b> |
| 3.00 |        | <b>SUBHEAD - III - DISTRIBUTION BOARD</b>  |      |      |        |         |                |                 |

|      |        |   |       |       |         |         |                 |             |
|------|--------|---|-------|-------|---------|---------|-----------------|-------------|
| 3.01 | 2.4    | Supplying and fixing following way, horizontal type three pole and neutral, sheet steel, MCB distribution board, 415 V, on surface/ recess, complete with tinned copper bus bar, neutral bus bar, earth bar, din bar, interconnections, powder painted including earthing etc. as required. (But without MCB/RCCB/ Isolator)                          |       |       |         |         |                 |             |
| a)   | 2.4.2  | 6 way (4 + 18), Double door   | Each  | 2.00  | 4974.00 |         | 9948.00         | 0.00        |
| 3.02 | 2.13   | Supplying and fixing following rating, four pole, 415 V, isolator in the existing MCB DB complete with connections, testing and commissioning etc. as required.   |       |       |         |         |                 |             |
| a)   | 2.13.3 | 100 A   | Each  | 2.00  | 1227.00 |         | 2454.00         | 0.00        |
| 3.03 | 2.15   | Supplying and fixing following rating, four pole, (three phase and neutral), 415 V, residual current circuit breaker (RCCB), having a sensitivity current 30 mA in the existing MCB DB complete with connections, testing and commissioning etc. as required.   |       |       |         |         |                 |             |
| a)   | 2.15.3 | 63 A  | Each  | 2.00  | 2872.00 |         | 5744.00         | 0.00        |
| 3.04 | 2.12   | Supplying and fixing following rating, double pole, 240 V, isolator in the existing MCB DB complete with connections, testing and commissioning etc. as required.   |       |       |         |         |                 |             |
| a)   | 2.12.1 | 40 amps   | Each  | 2.00  | 435.00  |         | 870.00          | 0.00        |
| 3.05 | 2.3    | Supplying and fixing following way, single pole and neutral, sheet steel, MCB distribution board, 240 volts, on surface/ recess, complete with tinned copper bus bar, neutral bus bar, earth bar, din bar, interconnections, powder painted including earthing etc. as required. (But without MCB/RCCB/Isolator)                                      |       |       |         |         |                 |             |
| a)   | 2.3.3  | 12 way , Double door  | Each  | 2.00  | 2053.00 |         | 4106.00         | 0.00        |
| b)   | 2.3.4  | 16 way, Double door   | Each  | 2.00  | 2453.00 |         | 4906.00         | 0.00        |
| 3.06 | 2.14   | Supplying and fixing following rating, double pole, (single phase and neutral), 240 V, residual current circuit breaker (RCCB), having a sensitivity current 30 mA in the existing MCB DB complete with connections, testing and commissioning etc. as required.  |       |       |         |         |                 |             |
| (a)  | 2.14.1 | 25 A  | Each  | 2.00  | 2028.00 |         | 4056.00         | 0.00        |
| (b)  | 2.14.2 | 40 A  | Each  | 2.00  | 2642.00 |         | 5284.00         | 0.00        |
| 3.07 | 2.10   | Supplying and fixing 5 A to 32 A rating, 240/415 V, 10 kA, "C" curve, miniature circuit breaker suitable for inductive load of following poles in the existing MCB DB complete with connections, testing and commissioning etc. as required.  |       |       |         |         |                 |             |
| a)   | 2.10.1 | Single pole   | Each  | 3.00  | 256.00  |         | 768.00          | 0.00        |
|      |        | <b>TOTAL OF SUBHEAD - III.</b>  |       |       |         |         | <b>38136.00</b> | <b>0.00</b> |
| 4.00 |        | <b>SUBHEAD - IV - EARTHING</b>  |       |       |         |         |                 |             |
| 4.01 | 5.2    | Earthing with G.I. earth pipe 4.5 meter long, 40 mm dia including accessories, and providing masonry enclosure with cover plate having locking arrangement and watering pipe etc. with charcoal/ coke and salt as required.   | Each  | 1.00  | 6855.00 |         | 6855.00         | 0.00        |
| 4.02 | 5.12   | Providing and laying earth connection from earth electrode with 6 SWG dia G.I. Wire in 15 mm dia G.I. pipe from earth electrode including connection with G.I. thimble excavation and re-filling as required.   | Metre | 10.00 | 287.00  |         | 2870.00         | 0.00        |
| 4.03 | 5.16   | Providing and fixing 6 SWG dia G.I. wire on surface or in recess for loop earthing as required.   | Metre | 20.00 | 70.00   |         | 1400.00         | 0.00        |
|      |        | <b>TOTAL OF SUBHEAD - IV</b>  |       |       |         |         | <b>11125.00</b> | <b>0.00</b> |
| 5.00 |        | <b>SUBHEAD - V - STREET LIGHTING ON BUILDING</b>  |       |       |         |         |                 |             |
| 5.01 | M.R.   | Supplying, installing, testing and commissioning of 2 x 36W general purpose fluorescent street light fittings with sheet aluminium housing and UV stabilized acrylic cover complete with chokes, starter holders, condensers, reflector cover etc. as reqd. <b>(Philips Cat No. TRC 33 / 236 HPF) (To be fixed directly on wall of building)</b>      | Set   | 2.00  |         | 3234.55 | 0.00            | 6469.10     |
| 5.02 | 12.34  | Supplying and fixing of 32 mm dia X 2.00 meter long G.I. pipe (medium class) bracket for mounting of fluorescent / HPMV / HPSV street light fitting on pole including bending the pipe to the required shape, 2 Nos. 40 mm X 3 mm flat iron clamps with nuts, bolts and washer, painting the flat iron with primer and finish paint etc. as required. | Each  | 2.00  | 1477.00 |         | 2954.00         | 0.00        |



|      |         |   |       |      |        |        |                  |                  |
|------|---------|---|-------|------|--------|--------|------------------|------------------|
| 5.03 | MR      | Supply of following sizes of FRLS 1.1 KV stranded compact circular aluminium conductor screened with extruded semi conducting compound, XLPE insulated, Al round wire armoured & overall PVC sheathed cable conforming to IS to IS 7098 (Part-I) with latest amendments   |       |      |        |        |                  |                  |
| a)   | a)      | 2 x 4 sq.mm   | Metre | 3.00 |        | 98.45  | 0.00             | 295.35           |
| 5.04 | 7.1     | Laying of one number PVC insulated and PVC sheathed / XLPE power cable of 1.1 kV grade of following size direct in ground including excavation, sand cushioning, protective covering and refilling the trench etc. as required.   |       |      |        |        |                  |                  |
| a)   | 7.1.1   | Upto 35 sq. mm  | Metre | 2.00 | 387.00 |        | 774.00           | 0.00             |
| 5.05 | 7.5     | Laying of one number PVC insulated and PVC sheathed / XLPE power cable of 1.1 kV grade of following size in the existing RCC/ HUME/ METAL pipe as required.   |       |      |        |        |                  |                  |
| a)   | 7.5.1   | Upto 35 sq. mm  | Metre | 2.00 | 37.00  |        | 74.00            | 0.00             |
| 5.06 | 7.7     | Laying and fixing of one number PVC insulated and PVC sheathed / XLPE power cable of 1.1 kV grade of following size on wall surface as required.  |       |      |        |        |                  |                  |
| a)   | 7.7.1   | Upto 35 sq. mm (clamped with 1mm thick saddle)  | Metre | 2.00 | 55.00  |        | 110.00           | 0.00             |
| 5.07 | 9.1     | Supplying and making end termination with brass compression gland and aluminium lugs for following size of PVC insulated and PVC sheathed / XLPE aluminium conductor cable of 1.1 kV grade as required.   |       |      |        |        |                  |                  |
| a)   | 9.1.1   | 2 X 6 sq. mm (19mm)   | Each  | 2.00 | 240.00 |        | 480.00           | 0.00             |
| 5.08 | MR      | Supply & fixing of 150x200 mm 60mm deep MS junction box recess or surface on wall with 3mm bakalite cover 15 overlapping 15 all sides of junction Box & housing 4way 32amps bakelite connector to terminate incoming & outgoing armoured cable & wiring the light fixture with 3x1.5 sq mm PVC insulated copper wire including interconnection etc as required. (Cost of termination of armoured cable with gland is not to be included as the same is payable under separate item no 5.07 of this SUBHEAD) | Each  | 2.00 |        | 746.40 | 0.00             | 1492.80          |
| 5.09 | 14.14   | Providing, laying and fixing following dia RCC pipe NP2 class (light duty) in ground complete with RCC collars, jointing with cement mortar 1:2 (1 cement : 2 fine sand) including trenching (75 cm deep) and refilling etc. as required.   |       |      |        |        |                  |                  |
| a)   | 14.14.1 | 100 mm dia  | Metre | 3.00 | 662.00 |        | 1986.00          | 0.00             |
|      |         | <b>TOTAL OF SUBHEAD - V.</b>  |       |      |        |        | <b>6378.00</b>   | <b>8257.25</b>   |
|      |         | <b>TOTAL (I TO V)</b>   |       |      |        |        | <b>104318.00</b> | <b>100144.15</b> |
|      |         | <b>G. TOTAL (I TO V)</b>  |       |      |        |        |                  | <b>204462.15</b> |

| ESTIMATE OF FOR CONSTRUCTION OF ADDITIONAL DORMITORY & STAFF QUARTERS AT JNV KUPWARA, JAMMU AND KASHMIR  |   |          |          |      |          |                 |                    |
|--|---|----------|----------|------|----------|-----------------|--------------------|
| ABSTRACT OF COST   |   |          |          |      |          |                 |                    |
| Left over work of 0.25 Unit Boys Dormitory with 01 nos warden residence (Double Storey, RCC framed structure). Plinth area 327.00 + 55.00=382.00 Sqm., |   |          |          |      |          |                 |                    |
| S.N.   | DESCRIPTION OF ITEM   | DSR-2021 | QUANTITY | UNIT | RATES    | AMOUNT DSR ITEM | AMOUNT [M.R. ITEM] |
| <b>A Earth Work</b>  |   |          |          |      |          |                 |                    |
| 1  | Earth work in excavation by mechanical means (Hydraulic excavator) / manual means in foundation trenches or drains (not exceeding 1.5 m in width or 10 sqm on plan), including dressing of sides and ramming of bottoms, lift upto 1.5 m, including getting out the excavated soil and disposal of surplus excavated soil as directed, within a lead of 50 m. All kinds of soil   | 2.8.1    | 216.18   | CUM  | 260.30   | 56,271.65       |                    |
| 2  | Filling available excavated earth (excluding rock) in trenches, plinth, sides of foundations etc. in layers not exceeding 20cm in depth,consolidating each deposited layer by ramming and watering, lead upto 50 m and lift upto 1.5 m.   | 2.25     | 129.71   | CUM  | 196.00   | 25,423.16       |                    |
| 3  | Supplying and filling in plinth with sand under floors, including watering, ramming,consolidating and dressing complete.  | 2.27     | 20.19    | CUM  | 2123.75  | 42,878.51       |                    |
| 4  | Excavating, supplying and filling of local earth (including royalty) by mechanical transport upto a lead of 5km also including ramming and watering of the earth in layers not exceeding 20 cm in trenches, plinth, sides of foundation etc. complete.  | 2.25a    | 60.29    | CUM  | 700.50   | 42,233.15       |                    |
| <b>B Concrete Work</b>   |   |          |          |      |          |                 |                    |
| 5  | Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level :1:5:10 (1 cement : 5 coarse sand (zone-III) derived from natural sources : 10 graded stone aggregate 40 mm nominal size derived from natural sources)   | 4.1.10   | 35.11    | CUM  | 6518.60  | 228,868.05      |                    |
| 6  | Providing and laying damp-proof course 40mm thick with cement concrete 1:2:4 (1 cement : 2 coarse sand (zone-III) derived from natural sources : 4 graded stone aggregate 12.5mm nominal size derived from natural sources)   | 4.10     | 30.97    | SQM  | 410.85   | 12,724.02       |                    |
| 7  | Providing & applying a coat of residual petroleum bitumen of grade of VG-10 of approved quality using 1.7kg per square metre on damp proof course after cleaning the surface with brushes and finally with a piece of cloth lightly soaked in kerosene oil.   | 4.13     | 30.97    | SQM  | 146.15   | 4,526.27        |                    |
| 8  | Making plinth protection 50mm thick of cement concrete 1:3:6 (1 cement : 3 coarse sand (zone-III) derived from natural sources : 6 graded stone aggregate 20 mm nominal size derived from natural sources) over 75mm thick bed of dry brick ballast 40 mm nominal size, well rammed and consolidated and grouted with fine sand,including necessary excavation,levelling & dressing & finishing the top smooth.   | 4.17     | 61.430   | SQM  | 749.30   | 46,029.50       |                    |
| 9  | Brick edging in full brick width and half brick depth including excavation, refilling and disposal of surplus earth lead upto 50 metres. With common burnt clay F.P.S. (non modular) bricks of class designation 7.5  | 16.7.1   | 102.38   | RM   | 194.30   | 19,892.43       |                    |
| <b>C Reinforced Cement Concrete</b>  |   |          |          |      |          |                 |                    |
| 10   | Centering and shuttering including strutting, propping etc. and removal of form for all heights :   |          |          |      |          |                 |                    |
| (a)  | Foundations, footings, bases of columns, etc. for mass concrete.  | 5.9.1    | 67.39    | SQM  | 392.15   | 26,426.99       |                    |
| (b)  | Suspended floors, roofs, landings, balconies and access platform.   | 5.9.3    | 612.59   | SQM  | 927.25   | 568,024.08      |                    |
| (c)  | Lintels, beams, plinth beams, girders, bressumers   | 5.9.5    | 440.83   | SQM  | 736.40   | 324,627.21      |                    |
| (d)  | Columns,Pillars, Piers, Abutments, Posts and Struts.  | 5.9.6    | 472.42   | SQM  | 961.30   | 454,137.35      |                    |
| (e)  | Edges of slabs and breaks in floors and walls Under 20 cm wide.   | 5.9.16.1 | 491.08   | RM   | 208.55   | 102,414.73      |                    |
| 11   | Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete upto plinth level. Thermo-Mechanically Treated bars of grade Fe-500D or more.   | 5.22.6   | 62.44    | QTL  | 10785.00 | 673,415.40      |                    |
| 12   | Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete above plinth level. Thermo-Mechanically Treated bars of grade Fe-500 D or more.   | 5.22.A.6 | 136.81   | QTL  | 10785.00 | 1,475,495.85    |                    |
| 13   | Add for plaster drip course/ groove in plastered surface or moulding to R.C.C. projections.   | 5.30     | 364.65   | RM   | 78.40    | 28,588.56       |                    |
| 14   | Providing and laying in position ready mixed or site batched design mix cement concrete for reinforced cement concrete work; using coarse aggregate and fine aggregate derived from natural sources, Portland Pozzolana / Ordinary Portland /Portland Slag cement, admixtures in recommended proportions as per IS: 9103 to accelerate / retard setting of concrete, to improve durability and workability without impairing strength; including pumping of concrete to site of laying, curing, carriage for all leads; but excluding the cost of centering, shuttering, finishing and reinforcement as per direction of the engineer-in-charge; for the following grades of concrete.<br>Note: Extra cement up to 10% of the minimum specified cement content in design mix shall be payable separately. In case the cement content in design mix is more than 110% of the specified minimum cement content, the contractor shall have discretion to either re-design the mix or bear the cost of extra cement.  | 5.33     |          |      |          |                 |                    |
| (I)  | All works upto plinth level   | 5.33.1   |          |      |          |                 |                    |
|  | Concrete of M25 grade with minimum cement content of 330 kg /cum  | 5.33.1.1 |          |      |          |                 |                    |
|  | (i) R.C.C. work in Footing  | 5.33.1.1 | 49.56    | CUM  | 9504.75  | 471,055.41      |                    |
|  | (ii) R.C.C. work in Beam  | 5.33.1.1 | 16.09    | CUM  | 9504.75  | 152,931.43      |                    |
|  | (iii) R.C.C. work in Columns  | 5.33.1.1 | 3.34     | CUM  | 9504.75  | 31,745.87       |                    |
| (II)   | All works above plinth level upto floor V level   | 5.33.2   |          |      |          |                 |                    |
|  | Concrete of M25 grade with minimum cement content of 330 kg /cum  | 5.33.2.1 |          |      |          |                 |                    |
|  | (i) R.C.C. work in Lintel   | 5.33.2.1 | 1.53     | CUM  | 9860.40  | 15,086.41       |                    |
|  | (ii) R.C.C. work in Beam  | 5.33.2.1 | 23.45    | CUM  | 9860.40  | 231,226.38      |                    |
|  | (iii) R.C.C. work in Columns  | 5.33.2.1 | 33.64    | CUM  | 9860.40  | 331,703.86      |                    |
|  | (iv) R.C.C. work in Slab  | 5.33.2.1 | 78.71    | CUM  | 9860.40  | 776,112.08      |                    |
| <b>Expansion Joint Treatment</b>   |   |          |          |      |          |                 |                    |
| 15   | Providing and fixing of expansion joint system related with floor location as per drawings and direction of Engineer-In-Charge. The joints system will be of extruded aluminum base members, self aligning / self centering arrangement and support plates etc. as per ASTM B221-02. The system shall be such that it provides floor to floor /floor to wall expansion control system for various vertical location in load application areas that commodates multi directional seismic movement without stress to it's components. System shall consist of metal profiles with a universal aluminum base member designed to accommodate various project conditions and finish floor treatments. The cover plate shall be designed of width and thickness required to satisfy projects movement and loading requirements and secured to base members by utilizing manufacturer's pre-engineered self- centering arrangement that freely rotates / moves in all directions. The Self - centering arrangement shall exhibit circular sphere ends that lock and slide inside the corresponding aluminum extrusion cavity to allow freedom of movement and flexure in all directions including vertical displacement. Provision of Moisture Barrier Membrane in the Joint | 5.44     |          |      |          | -               |                    |
|  | Floor Joint of 100 mm gap   | 5.44.1   | 3.60     | RM   | 6392.55  | 23,013.18       |                    |

|                            |   |         |        |     |         |              |  |
|----------------------------|---|---------|--------|-----|---------|--------------|--|
| 16                         | Providing and fixing of expansion joint system related with wall joint (internal/ external) location as per drawings and direction of Engineer-In- Charge. The joints shall be of extruded aluminum base members, self aligning / centering arrangement and support plates as per ASTM B221- 02. The material shall be such that it provides an Expansion Joints System suitable for vertical wall to wall/ wall to corner application, both new and existing construction in office Buildings & complexes with no slipping down tendency amongst the components of the Joint System. The Joint System shall utilize light weight aluminum profiles exhibiting minimal exposed aluminum surfaces mechanically snap locking the multicellular to facilitate movement. (Material shall conform to ASTM 6063).   | 5.45    |        |     |         |              |  |
|                            | Wall Joint of 100 mm gap  | 5.45.1  | 17.90  | RM  | 5305.65 | 94,971.14    |  |
| 17                         | Providing and fixing of expansion joint system of approved make and manufacture for various roof locations as per approved drawings and direction of Engineer-In-Charge. The joints shall be of extruded aluminum base members with, self aligning and self centering arrangement support plates as per ASTM B221-02. The system shall be such that it provides water tight roof to roof /roof to corner joint cover expansion control system that is capable of accommodating multidirectional seismic movement without stress to its components. System shall consist of metal profile that incorporates a universal aluminum base member designed to   |         |        |     |         |              |  |
|                            | accommodate various project conditions and roof treatments. The cover plate shall be designed of width and thickness required to satisfy movement and loading requirements and secured to base members by utilizing manufacturer's pre-engineered self-centering arrangement that freely rotates / moves in all directions. The Self centering arrangement shall exhibit circular sphere ends that lock and slide inside the corresponding aluminum extrusion cavity to allow freedom of movement and flexure in all directions including vertical displacement. The Joint System shall resists damage or deterioration from the impact of falling ice, exposure to UV, airborne contaminants and occasional foot traffic from maintenance personnel. Provision of Moisture Barrier Membrane in the Joint System to have water tight joint is mandatory requirement. (Material shall conform to ASTM 6063.) |         |        |     |         |              |  |
|                            | Roof Joint of 100 mm gap  | 5.46.1  | 7.04   | RM  | 5985.70 | 42,139.33    |  |
| <b>D Masonry Work</b>      |   |         |        |     |         |              |  |
| 18                         | Half brick masonry with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in superstructure above plinth level up to floor V level. <b>Cement mortar 1:4 (1 cement :4 coarse sand)</b>   | 6.13.2  | 150.22 | SQM | 1123.80 | 168,817.24   |  |
| 19                         | Extra for providing and placing in position 2 Nos 6mm dia. M.S. bars at every third course of half brick masonry.   | 6.15    | 150.22 | SQM | 104.80  | 15,743.06    |  |
| 20                         | Brick work with non modular fly ash bricks conforming to IS:12894, class designation 10 average compressive strength in superstructure above plinth level up to floor V level in : <b>Cement mortar 1:6 (1 cement : 6 coarse sand)</b>  | 6.34.2  | 138.22 | CUM | 8752.55 | 1,209,777.46 |  |
| 21                         | Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in foundation and plinth in: Cement mortar 1:6 (1 cement : 6 coarse sand)  | 6.1.2   | 29.70  | CUM | 7132.25 | 211,827.83   |  |
| <b>E Cladding Work</b>     |   |         |        |     |         |              |  |
|                            | Providing and fixing 18 mm thick gang saw cut, mirror polished, premoulded and prepolished, machine cut for kitchen platforms, vanity counters, window sills , facias and similar locations of required size, approved shade, colour and texture laid over 20 mm thick base cement mortar 1:4 (1 cement : 4 coarse sand), joints treated with white cement, mixed with matching pigment, epoxy touch ups, including rubbing, curing, moulding and polishing to edges to give high gloss finish etc. complete at all levels.   | 8.2     |        |     |         |              |  |
|                            | Granite stone slab colour black, Cherry/Ruby red  | 8.2.2   |        |     |         |              |  |
| 22                         | Area of slab upto 0.50 sqm  | 8.2.2.1 | 0.70   | SQM | 5413.50 | 3,789.45     |  |
| 23                         | Area of slab over 0.50 sqm  | 8.2.2.2 | 4.16   | SQM | 5136.30 | 21,367.01    |  |
| 24                         | Providing edge moulding to 18mm thick marble stone counters, Vanities etc. including machine polishing to edge to give high gloss finish etc. complete as per design approved by Engineer-in-Charge.  | 8.3     |        |     |         |              |  |
|                            | Granite work  | 8.3.2   | 6.94   | RM  | 510.95  | 3,545.99     |  |
| 25                         | Extra for fixing marble /granite stone over and above corresponding basic item, in facia and drops of width upto 150 mm with epoxy resin based adhesive including cleaning etc. complete.   | 8.4     | 6.94   | RM  | 568.55  | 3,945.74     |  |
| 26                         | Extra for providing opening of required size & shape for wash basins/ kitchen sink in kitchen platform, vanity counters and similar location in marble/Granite/stone work including necessary holes for pillar taps etc. including moulding, rubbing and polishing of cut edges etc. complete.  | 8.5     | 2.00   | NO  | 978.70  | 1,957.40     |  |
| 27                         | Providing and fixing 1st quality ceramic glazed wall tiles conforming to IS: 15622 (thickness to be specified by the manufacturer), of approved make, in all colours, shades except burgundy, bottle green, black of any size as approved by Engineer-in-Charge, in skirting, risers of steps and dados, over 12 mm thick bed of cement mortar 1:3 (1 cement : 3 coarse sand) and jointing with grey cement slurry @ 3.3kg per sqm, including pointing in white cement mixed with pigment of matching shade complete.   | 8.31    | 144.24 | SQM | 1267.95 | 182,889.11   |  |
| <b>F Wood and PVC Work</b> |   |         |        |     |         |              |  |
| 28                         | Providing and fixing ISI marked flush door shutters conforming to IS : 2202 (Part I) non-decorative type, core of block board construction with frame of 1st class hard wood and well matched commercial 3 ply veneering with vertical grains or cross bands and face veneers on both faces of shutters:35 mm thick including ISI marked Stainless Steel butt hinges with necessary screws  | 9.21.1  | 52.95  | SQM | 2392.65 | 126,690.82   |  |
| 29                         | Extra for providing lipping with 2nd class teak wood battens 25 mm minimum depth on all edges of flush door shutters (over all area of door shutter to be measured).  | 9.23    | 52.95  | SQM | 462.35  | 24,481.43    |  |
| 30                         | Extra for cutting rebate in flush door shutters (Total area of the shutter to be measured).   | 9.26    | 27.13  | SQM | 106.7   | 2,894.77     |  |
| 31                         | Providing and fixing M.S. grills of required pattern in frames of windows etc. with M.S. flats, square or round bars etc. including priming coat with approved steel primer all complete. Fixed to steel windows by welding.  | 9.48.1  | 411.00 | KG  | 219.10  | 90,050.10    |  |
| 32                         | Providing and fixing oxidised M.S. casement stays (straight peg type) with necessary screws etc. complete.  |         |        |     |         |              |  |
| (i)                        | 300 mm weighing not less than 200 gms   | 9.68.1  | 78.00  | NOS | 67.40   | 5,257.20     |  |
| (ii)                       | 250 mm weighing not less than 150 gms   | 9.68.2  | 30.00  | NOS | 61.05   | 1,831.50     |  |
| 33                         | Providing and fixing aluminium hanging floor door stopper ISI marked anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour or shade with necessary screws etc. complete. Twin rubber stopper  | 9.101.2 | 57.05  | NOS | 72.35   | 4,127.57     |  |
| 34                         | Providing and fixing factory made door frame (single rebate) made out of single piece extruded solid PVC foam profile with homogenous fine cellular structure having smooth outer integral skin having 62 mm width & 32 mm thickness, frame will be mitred & Jointed with self driven self tapping screws of size 38 mm x 4 mm & PVC solvent cement, including fixing the frame to wall with suitable dia & length anchor fastener as per manufacturer's specification and direction of Engineer-in-charge.   | 9.123   | 58.50  | RM  | 696.00  | 40,716.00    |  |

|                     |  |             |         |      |         |            |           |
|---------------------|--|-------------|---------|------|---------|------------|-----------|
| 35                  | Providing and fixing PVC rigid foam sheet 1 mm thick on existing door shutters (bathroom and W.C. doors) using synthetic rubber based adhesive.  | 9.125       | 17.85   | SQM  | 1045.95 | 18,670.21  |           |
| 36                  | Providing and fixing wire gauge shutters using stainless steel grade 304 wire gauge with wire of dia 0.5 mm and average width of aperture 1.4 mm in both directions for doors, windows and clerestory windows with necessary screws : 30 mm thick shutters With ISI marked stainless steel butt hinges of required size Kiln seasoned and chemically treated hollock wood  | 9.134.2.2.2 | 21.42   | SQM  | 3619.60 | 77,531.83  |           |
| 37                  | Providing and fixing fly proof stainless steel grade 304 wire gauge, to windows and clerestory windows using wire gauge with average width of aperture 1.4 mm in both directions with wire of dia. 0.50 mm all complete. <b>With 12 mm mild steel U beading</b>  | 9.135.2     | 60.84   | SQM  | 1228.00 | 74,711.52  |           |
| 38                  | Providing and fixing 6mm thick both sides Pre-laminated cement bonded wood particle board as per IS : 15786:2008 of approved brand and shade with suitable full threaded steel screws etc. on the backing of racks, drawer, cupboard, kitchen cabinet under kitchen counter etc. all complete as per direction of Engineer in-charge.  | 9.167       | 2.18    | SQM  | 1010.60 | 2,203.11   |           |
| 39                  | Providing and fixing cupboard shutter with 19mm thick one side decorative and other side balancing lamination factory pressed BWP grade marine ply as per IS 710 of approved brand including 2mm thick PVC edge banding tape with hot glue by edge bending machine etc. with auto closing spring loaded hinges (hydraulic type) etc. complete as per direction of Engineer in-charge.(Payment of providing and fixing auto closing hinges shall be paid separately)  | 9.168       | 2.18    | SQM  | 2829.25 | 6,167.77   |           |
| 40                  | Providing and fixing 19mm thick both side balancing lamination factory pressed BWP grade marine ply as per IS 710 of approved brand boxes,shelves,racks,almirah, cupboard and drawer etc. including necessary nails,screws etc. complete as per direction of Engineer-in-charge.   | 9.169       | 10.14   | SQM  | 2593.15 | 26,294.54  |           |
| 41                  | Providing and fixing stainless steel fancy handle of approved make fixed with SS screws etc. complete as per direction of Engineer-in-charge.<br><b>100 mm for Kitchen Cabinets</b>  | Analysis    | 16.00   | Nos. | 95.00   | 1,520.00   |           |
| 42                  | Providing and fixing stainless steel soft closing spring hinges at 0 degree hinges (hydraulic type) of approved make/brand to cupboard shutters with full threaded steel screws including making necessary recess in board and finished etc. complete as per direction of Engineer-in-charge   | 9.171       | 32.00   | Nos. | 272.00  | 8,704.00   |           |
| 43                  | Providing and fixing bright /matt finished Stainless Steel handles of approved quality & make with necessary screws etc all complete. (a) 125 mm.  | 9.165.1     | 116.00  | NOS  | 119.20  | 13,827.20  |           |
| 44                  | Providing & fixing Stainless steel sliding door bolts ISI marked anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour or shade with nuts and screws etc complete. (a) 250mm x 16mm .  | M.R.        | 41.00   | NOS  | 560.00  |            | 22,960.00 |
| 45                  | Providing and fixing stainless steel towerbolts (barrel type) with necessary screws etc. complete.   |             |         |      |         |            |           |
| (i)                 | 200 x 10mm   | M.R.        | 41.00   | NOS  | 448.00  |            | 18,368.00 |
| (ii)                | 150 x 10mm   | M.R.        | 41.00   | NOS  | 392.00  |            | 16,072.00 |
| <b>G Steel Work</b> |  |             |         |      |         |            |           |
| 46                  | Providing and fixing factory made ISI marked steel glazed doors, windows and ventilators, side /top /centre hung, with beading and all members such as F7D, F4B, K11 B and K12 B etc. complete of standard rolled steel sections, joints mitred and flash butt welded and sash bars tenoned and riveted, including providing and fixing of hinges, pivots, including priming coat of approved steel primer, but excluding the cost of other fittings, complete all as per approved design, (sectional weight of only steel members shall be measured for payment). Fixing with 15x3 mm lugs 10 cm long embedded in cement concrete block 15x10x10 cm of C.C. 1:3:6 (1 Cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size). | 10.11.1     | 1095.12 | KG   | 131.05  | 143,515.48 |           |
| 47                  | Providing and fixing T-iron frames for doors, windows and ventilators of mild steel Tee-sections, joints mitred and welded, including fixing of necessary butt hinges and screws and applying a priming coat of approved steel primer<br>Fixing with 15x3 mm lugs 10 cm long embedded in cement concrete block 15x10x10 cm of C.C. 1:3:6 (1 Cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size   | 10.13.1     | 644.82  | KG   | 141.70  | 91,370.99  |           |
| 48                  | Providing and fixing M.S. Tubular frames for doors, windows, ventilators and cupboard with rectangular/ L-Type sections, made of 1.60 mm thick M.S. Sheet, joints mitred, welded and grinded finish, with profiles of required size, including fixing of necessary butt hinges and screws and applying a priming coat of approved steel primer. Fixing with 15x3 mm lugs 10 cm long embedded in cement concrete block 15x10x10 cm of C.C. 1:3:6 (1 Cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size)   | 10.15.1     | 1285.44 | Kg   | 195.20  | 250,917.89 |           |
| 49                  | Providing and fixing stainless steel ( Grade 304) railing made of Hollow tubes, channels, plates etc., including welding, grinding, buffing, polishing and making curvature (wherever required) and fitting the same with necessary stainless steel nuts and bolts complete, i/c fixing the railing with necessary accessories & stainless steel dash fasteners , stainless steel bolts etc., of required size, on the top of the floor or the side of waist slab with suitable arrangement as per approval of Engineer-in-charge.   | 10.28       | 216.000 | KG   | 772.40  | 166,838.40 |           |
| 50                  | Steel work welded in built up sections/ framed work, including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer using structural steel etc. as required.In gratings, frames, guard bar, ladder, railings, brackets, gates and similar works  | 10.25.2     | 371.520 | KG   | 172.60  | 64,124.35  |           |
| 51                  | Providing & fixing glass panes with putty and glazing clips in steel doors, windows, clerestory windows, all complete with : 4.0 mm thick glass panes.   | 10.30.1     | 103.83  | SQM  | 1064.65 | 110,542.61 |           |
| <b>H Flooring</b>   |  |             |         |      |         |            |           |
| 52                  | Cement concrete flooring 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate) finished with a floating coat of neat cement, including cement slurry, but excluding the cost of nosing of steps etc. complete.<br>40 mm thick with 20 mm nominal size stone aggregate  | 11.3.1      | 1.080   | SQM  | 614.20  | 663.34     |           |
| 53                  | Chequerred precast cement concrete tiles 22 mm thick in footpath & courtyard, jointed with neat cement slurry mixed with pigment to match the shade of tiles, including rubbing and cleaning etc. complete, on 20 mm thick bed of cement mortar 1:4 (1 cement: 4 coarse sand). <b>Medium shade pigment using 50% white cement 50% Grey cement</b>  | 11.20.2     | 21.600  | SQM  | 1328.35 | 28,692.36  |           |
| 54                  | Kota stone slab flooring over 20 mm (average) thick base laid over and jointed with grey cement slurry mixed with pigment to match the shade of the slab, including rubbing and polishing complete with base of cement mortar 1 : 4 (1 cement : 4 coarse sand) : <b>25 mm thick</b>  | 11.26.1     | 334.70  | SQM  | 1948.25 | 652,079.28 |           |
| 55                  | Kota stone slabs 20 mm thick in risers of steps, skirting, dado and pillars laid on 12 mm (average) thick cement mortar 1:3 (1 cement: 3 coarse sand) and jointed with grey cement slurry mixed with pigment to match the shade of the slabs, including rubbing and polishing complete.  | 11.27       | 33.86   | SQM  | 2354.70 | 79,730.14  |           |

|   |  |          |         |     |                    |                      |                   |
|---|--|----------|---------|-----|--------------------|----------------------|-------------------|
| 56  | Providing and laying Vittrified tiles in floor in different sizes (thickness to be specified by the manufacturer) with water absorption less than 0.08% and conforming to IS:15622, of approved brand & manufacturer, in all colours and shade, laid on 20 mm thick cement mortar 1:4 (1 cement: 4 coarse sand) jointing with grey cement slurry @3.3 kg/sqm including grouting the joints with white cement and matching pigments etc. The tiles must be cut with the zero chipping diamond cutter only . Laying of tiles will be done with the notch trowel, plier, wedge, clips of required thickness, leveling system and rubber mallet for placing the tiles gently and easily.Glazed Vittrified tiles <b>Matt/Antiskid</b> finish of size <b>Size of Tile 600 x 600 mm</b>   | 11.41A.3 | 45.57   | SQM | 1464.85            | 66,753.21            |                   |
| 57  | Providing and laying vitrified floor tiles in different sizes (thickness to be specified by the manufacturer) with water absorption less than 0.08% and conforming to IS: 15622, of approved make, in all colours and shades, laid on 20mm thick cement mortar 1:4 (1 cement : 4 coarse sand), jointing with grey cement slurry @ 3.3kg/sqm including grouting the joints with white cement and matching pigments etc., complete. <b>Size of Tile 600x600 mm</b>   | 11.41.2  | 42.29   | SQM | 1553.45            | 65,695.40            |                   |
| 58  | Providing and laying Vittrified tiles in different sizes (thickness to be specified by manufacturer), with water absorption less than 0.08 % and conforming to I.S. 15622, of approved make, in all colours & shade, in skirting, riser of steps, over 12 mm thick bed of cement mortar 1:3 (1 cement: 3 coarse sand), jointing with grey cement slurry @ 3.3kg/sqm including grouting the joint with white cement & matching pigments etc. complete. <b>Size of Tile 600x600 mm</b>   | 11.46.2  | 5.22    | SQM | 1623.05            | 8,472.32             |                   |
| 59  | Providing and laying 60mm thick faciry made cement concrete interlocking paver block of M -30 grade made by block making machine with strong vibratory compaction, of approved size, design & shape, laid in required colour and pattern over and including 50mm thick compacted bed of coarse sand, filling the joints with line sand etc. all complete as per the direction of Engineer-in-charge.   | 16.68    | 52.97   | SQM | 972.00             | 51,486.84            |                   |
| 60  | P & laying cement concrete   | analysis | 26.410  | SQM | 1390.56            | 36,724.69            |                   |
| <b>I Finishing</b>                            |  |          |         |     |                    |                      |                   |
| 61  | 15 mm cement plaster on the rough side of single or half brick wall of mix : 1:6 (1 cement: 6 coarse sand)   | 13.5.2   | 759.43  | SQM | 395.35             | 300,240.65           |                   |
| 62  | 12mm cement plaster in single coat on fair side of single or half brick wall for exterior plastering up to floor two level including internal rounded angles chamfers, and/or rounded angles not exceeding 80mm in girth and finished even and smooth no extra for mixing any additive. 1:6 (1 cement: 6 coarse sand)  | 13.4.2   | 887.18  | SQM | 343.65             | 304,879.41           |                   |
| 63  | 6 mm cement plaster on ceiling (a) 1:3(1 cement:3 fine sand)   | 13.16.1  | 446.29  | SQM | 300.45             | 134,087.83           |                   |
| 64  | Distempering with oil bound washable distemper of approved brand and manufacture to give an even shade : New work (two or more coats) over and including water thinnable priming coat with cement primer.  | 13.41.1  | 1333.47 | SQM | 185.65             | 247,558.71           |                   |
| 65  | Finishing walls with Premium Acrylic Smooth exterior paint with Silicone additives of required shade. New work (Two or more coats applied @ 1.43 ltr/ 10 sqm. over and including priming coat of exterior primer applied @ 2.20 kg/ 10 sqm).   | 13.47.1  | 759.43  | SQM | 171.10             | 129,938.47           |                   |
| <b>Steel Painting:</b> Applying priming coat: |  |          |         |     |                    |                      |                   |
| 66  | With ready mixed red oxide zink chromate primer of approved brand and manufacture on steel galvanised iron/steel works.  | 13.50.3  | 198.54  | SQM | 67.40              | 13,381.60            |                   |
| 67  | "Painting with synthetic enamel paint of approved brand and manufacture of required colour to give an even shade :Two or more coats on new work over an under coat of suitable shade with ordinary paint of approved brand and manufacture"  | 13.62.1  | 448.20  | SQM | 226.25             | 101,405.25           |                   |
| 68  | Painting with black anti-corrosive bitumastic paint of approved brand and manufacture to give an even shade :<br>Two or more coats on new work   | 13.65.1  | 3.62    | SQM | 140.25             | 507.71               |                   |
| 69  | Providing and applying white cement based putty of average thickness 1 mm, of approved brand and manufacturer, over the plastered wall surface to prepare the surface even and smooth complete.  | 13.80    | 446.29  | SQM | 156.05             | 69,643.55            |                   |
| <b>J Water Proofing</b>                       |  |          |         |     |                    |                      |                   |
| 70  | Providing and laying water proofing treatment in sunken portion of WCs, bathroom etc., by applying cement slurry mixed with water proofing cement compound consisting of applying : a) First layer of slurry of cement @ 0.488 kg/sqm mixed with water proofing cement compound @ 0.253 kg/sqm. This layer will be allowed to air cure for 4 hours. b) Second layer of slurry of cement @ 0.242 kg/sqm mixed with water proofing cement compound @ 0.126 kg/sqm. This layer will be allowed to air cure for 4 hours followed with water curing for 48 hours. The rate includes preparation of surface, treatment and sealing of all joints, corners, junctions of pipes and masonry with polymer mixed slurry.   | 22.5     | 76.09   | SQM | 617.05             | 46,951.33            |                   |
| 71  | Providing and laying in situ seven course water proofing treatment with APP (Atactic poly-propylene) modified Polymeric memberane over roof consisting of first coat of bitumen primer @ 0.40 litre per sqm, 2nd, 4th & 6th courses of bonding material @ 1.20 Kg/sqm, which shall consist of blown type bitumen of grade 85/25 conforming to IS : 702, 3rd and 5th layers of roofing membrane APP modified Polymeric membrane 1.5 mm thick of 2.25 Kg/sqm weight consisting of five layers prefabricated with centre core as 20 micron HMHDPE film sandwiched on both sides with polymeric mix and the polymeric mix is protected on both side with 20 micron HMHDPE film. 7th, the top most layer shall be finished with brick tiles of class designation 10 grouted with cement mortar 1:3 (1cement : 3 fine sand) mixed with 2% integral water proofing compound by weight of cement over a 12 mm layer of cement mortar 1:3 (1 cement : 3 fine sand) and finished neat (item of laying brick tiles shall be paid for separately). | 14.86    | 121.43  | SQM | 730.55             | 88,710.69            |                   |
| 72  | Providing and laying brick tiles over mumty roofs, grouted with cement mortar 1:3 (1 cement : 3 fine sand) mixed with 2% of integral water proofing compound by weight of cement, over 12 mm layer of cement mortar 1:3 (1 cement : 3 fine sand) and finished neat:<br>With common burnt clay F.P.S. (non modular) brick tiles of class designation 10   | 12.19    | 121.430 | SQM | 607.40             | 73,756.58            |                   |
| 73  | Providing and filling of AAC Lightweight Broken Blocks sunken portions.  | M.R.     | 15.84   | CUM | 4132.00            |                      | 65,450.88         |
| 74  | 2.1 Mt Ht. Boundary Wall   | Analysis | 32.65   | RM  | 14577.60           | 475,885.75           |                   |
|   |  |          |         |     | <b>TOTAL</b>       | <b>12,455,856.68</b> | <b>122,850.88</b> |
|   |  |          |         |     | <b>Say in lacs</b> | <b>124.56</b>        | <b>1.23</b>       |

| ESTIMATE OF FOR CONSTRUCTION OF ADDITIONAL DORMITORY & STAFF<br>QUARTERS AT JNV KUPWARA, JAMMU AND KASHMIR  |                       |                     |                  |
|---|-----------------------|---------------------|------------------|
| Left over work of 0.25 Unit Boys Dormitory with 01 nos warden residence (Double<br>Storey, RCC framed structure), Plinth area 327.00 + 55.00=382.00 Sqm.. |                       |                     |                  |
| PLUMBING INTERNAL ESTIMATE  |                       |                     |                  |
| Sl. No.   | Description           | Amount              |                  |
|   |                       | DSR Items -<br>2021 | NS Items         |
| 1   | Sanitary Installation | 225,238.75          | 24,326.00        |
| 2   | Water Supply          | 93,959.60           | 15,210.00        |
| 3   | Drainage              | 45,399.53           | 2,048.00         |
|   | <b>Total</b>          | <b>364,597.88</b>   | <b>41,584.00</b> |
|   | <b>Say in lacs</b>    | <b>3.65</b>         | <b>0.42</b>      |

| ESTIMATE OF FOR CONSTRUCTION OF ADDITIONAL DORMITORY & STAFF QUARTERS AT JNV KUPWARA, JAMMU AND KASHMIR  |         |   |     |      |           |           |    |
|--|---------|---|-----|------|-----------|-----------|----|
| PLUMBING INTERNAL ESTIMATE   |         |   |     |      |           |           |    |
| Left over work of 0.25 Unit Boys Dormitory with 01 nos warden residence (Double Storey, RCC framed structure), Plinth area 327.00 + 55.00=382.00 Sqm.. |         |   |     |      |           |           |    |
| S.No.  | DSR '21 | Description   | Qty | Unit | Rate      | Amount    |    |
|  |         |   |     |      |           | DSR-2021  | MR |
|  |         | <b>Sub Head – I Sanitary Installation</b>   |     |      |           |           |    |
| 1.1  | 17.1    | Providing and fixing water closet squatting pan (Indian type W.C. pan ) with 100 mm sand cast Iron P or S trap, 10 litre low level white P.V.C. flushing cistern, including flush pipe, with manually controlled device (handle lever) conforming to IS : 7231, with all fittings and fixtures complete, including cutting and making good the walls and floors wherever required:.   |     |      |           |           |    |
|  | 17.1.1  | White Vitreous china Orissa pattern W.C. pan of size 580x440 mm with integral type foot rests.  | 6   | each | 6,767.40  | 40,604.40 |    |
| 1.2  | 17.3    | Providing and fixing white vitreous china pedestal type water closet (European type) with seat and lid, 10 litre low level white vitreous china flushing cistern & C.P. flush bend with fittings & C.I. brackets, 40 mm flush bend, overflow arrangement with specials of standard make and mosquito proof coupling of approved municipal design complete, including painting of fittings and brackets, cutting and making good the walls and floors wherever required :                |     |      |           |           |    |
|  | 17.3.1  | W.C. pan with ISI marked white solid plastic seat and lid   | 1   | each | 8,006.60  | 8,006.60  |    |
| 1.3  | 17.81   | Providing and fixing floor mounted, white vitreous china single piece, double traps syphonic water closet of approved brand/make, shape, size and pattern including integrated white vitreous china cistern of capacity 10 litres with dual flushing system, including all fittings and fixtures with seat cover, cistern fittings, nuts, bolts and gasket etc including making connection with the existing P/S trap, complete in all respect as per directions of Engineer-in-Charge. | 0   | each | 18,212.90 | -         |    |
| 1.4  | 17.80   | Providing and fixing white vitreous china battery based infrared sensor operated urinal of approx. size 610 x 390 x 370 mm having pre & post flushing with water (250 ml & 500 ml consumption), having water inlet from back side, including fixing to wall with suitable brackets all as per manufacturers specification and direction of Engineer-in-charge.  | 0   | each | 7,979.20  | -         |    |
| 1.5  | 17.7    | Providing and fixing wash basin with C.I. brackets, 15 mm C.P. brass pillar taps, 32 mm C.P. brass waste of standard pattern, including painting of fittings and brackets, cutting and making good the walls wherever require:  |     |      |           |           |    |

|       |           |   |   |      |          |          |          |
|-------|-----------|---|---|------|----------|----------|----------|
| 1.5.1 | 17.7.3    | White Vitreous China Wash basin size 550x400 mm with a pair of 15 mm C.P. brass pillar taps   | 1 | each | 2,301.75 | 2,301.75 |          |
| 1.6   | NSI-1     | Providing and fixing white vitreous china wash basin under counter basin, with C.I. concealed type brackets fixed to walls with GI rag bolts or approved fasteners etc., including 32 mm CP brass waste coupling, including painting of fittings and brackets, cutting and making good the walls wherever required all complete (Granite counter top will be measured and paid separately under relevant item): as per approved make and decision of engineer-in-charge | 0 | each | 4,689.00 |          | -        |
| 1.7   | 17.34     | Providing and fixing toilet paper holder :  |   |      |          |          |          |
|       | 17.34.1   | C.P. brass  | 1 | each | 803.70   | 803.70   |          |
| 1.8   | NSI-2     | Providing and fixing CP brass auto closing system basin pillar tap / hand wash of Jaquar PRS - 001 or Equivalent as approved by Engineer- In Charge   | 1 | each | 5,092.00 |          | 5,092.00 |
| 1.9   | NSI-3     | Providing and fixing CP brass single lever basin mixer without popo with 450mm long braided hose (connection pipe) basin pillar tap of Jaquar LXR-38001B or Equivalent as approved by Engineer- In Charge.  | 1 | each | 7,406.00 |          | 7,406.00 |
| 1.10  | 17.22A    | Providing and fixing 32mm C.P brass bottle Trap of approved quality & make as per the direction of engineer-in-charge.  | 1 | each | 1,034.80 | 1,034.80 |          |
| 1.11  | 17.31     | Providing and fixing 600x450 mm beveled edge mirror of superior glass (of approved quality) complete with 6 mm thick hard board ground fixed to wooden cleats with C.P. brass screws and washers complete.  | 1 | Sqm  | 1,607.95 | 1,607.95 |          |
| 1.12  | 17.10     | Providing and fixing Stainless Steel A ISI 304 (18/8) kitchen sink as per IS : 13983 with C.I. brackets and stainless steel plug 40 mm, including painting of fittings and brackets, cutting and making good the walls wherever required :  |   |      |          |          |          |
|       | 17.10.1   | Kitchen sink with drain board   |   |      |          |          |          |
|       | 17.10.1.1 | 510x1040 mm bowl depth 250mm  | 1 | each | 6945.60  | 6,945.60 |          |
|       | 17.10.2   | Kitchen sink without drain board  |   |      |          |          |          |
|       | 17.10.2.2 | 610x460 mm bowl depth 200 mm  | 0 | each | 3,873.80 | -        |          |
| 1.13  | 17.11     | Providing and fixing white vitreous china laboratory sink with C.I. brackets, C.P. brass chain with rubber plug, 40 mm C.P brass waste and 40mm C.P. brass trap with necessary C.P. brass unions complete, including painting of fittings and brackets, cutting and making good the wall wherever required :  |   |      |          |          |          |
|       | 17.11.1   | Size 450x300x150 mm   | 0 | each | 5,020.85 | -        |          |
| 1.14  | 17.28     | Providing and fixing P.V.C. waste pipe for sink or wash basin including P.V.C. waste fittings complete.   |   |      |          |          |          |
|       | 17.28.2   | Flexible pipe   |   |      |          |          |          |



|             |                   |  |    |       |          |           |  |
|-------------|-------------------|--|----|-------|----------|-----------|--|
|             | <b>17.28.2.2</b>  | 40 mm dia  | 1  | each  | 119.55   | 119.55    |  |
| <b>1.15</b> | <b>17.35</b>      | Providing and fixing soil, waste and vent pipes :  |    |       |          |           |  |
|             | <b>17.35.1</b>    | 100 mm dia   |    |       |          |           |  |
|             | <b>17.35.1.3</b>  | Hubless centrifugally cast (spun) iron pipes epoxy coated inside & outside IS:15905  | 60 | meter | 1,169.30 | 70,158.00 |  |
| <b>1.16</b> | <b>17.38</b>      | Providing and fixing bend of required degree with access door, insertion rubber washer 3 mm thick, bolts and nuts complete.                        |    |       |          |           |  |
|             | <b>17.38.1</b>    | 100 mm   |    |       |          |           |  |
|             | <b>17.38.1.3</b>  | Hubless centrifugally cast (spun) iron epoxy coated inside & outside I.S. 15905  | 2  | each  | 567.20   | 1,134.40  |  |
| <b>1.17</b> | <b>17.39</b>      | Providing and fixing plain bend of required degree.  |    |       |          |           |  |
|             | <b>17.39.1</b>    | 100 mm   |    |       |          |           |  |
|             | <b>17.39.1.3</b>  | Hubless centrifugally cast (spun) iron pipe epoxy inside & outside IS: 15905   | 2  | each  | 368.00   | 736.00    |  |
| <b>1.18</b> | <b>17.40</b>      | Providing and fixing heel rest sanitary bend   |    |       |          |           |  |
|             | <b>17.40.1</b>    | 100 mm dia   |    |       |          |           |  |
|             | <b>17.40.1.2</b>  | Sand cast iron S&S as per IS - 3989  | 2  | each  | 548.70   | 1,097.40  |  |
| <b>1.19</b> | <b>17.42</b>      | Providing and fixing double equal plain junction of required degree  |    |       |          |           |  |
|             | <b>17.42.1</b>    | 100x100x100x100 mm   |    |       |          |           |  |
|             | <b>17.42.1.3</b>  | Hubless centrifugally cast (spun) iron pipe epoxy inside & outside IS: 15905   | 2  | each  | 760.70   | 1,521.40  |  |
| <b>1.20</b> | <b>17.43</b>      | Providing and fixing single equal plain junction of required degree with access door, insertion rubber washer 3 mm thick, bolts and nuts complete. |    |       |          |           |  |
|             | <b>17.43.1</b>    | 100x100x100 mm   |    |       |          |           |  |
|             | <b>17.43.1.2</b>  | sand cast Iron S&S as per IS: 3989   | 2  | each  | 925.70   | 1,851.40  |  |
| <b>1.21</b> | <b>17.44</b>      | Providing and fixing single equal plain junction of required degree  |    |       |          |           |  |
|             | <b>17.44.1</b>    | 100x100x100 mm   |    |       |          |           |  |
|             | <b>17.44.1.3</b>  | Hubless centrifugally cast (spun) iron pipe epoxy inside & outside IS: 15905   | 6  | each  | 581.45   | 3,488.70  |  |
| <b>1.22</b> | <b>17.56</b>      | Providing and fixing terminal guard:   |    |       |          |           |  |
|             | <b>17.56.1</b>    | 100 mm   |    |       |          |           |  |
|             | <b>17.56.1.3</b>  | Hubless centrifugally cast (spun) iron pipe epoxy inside & outside IS: 15905   | 1  | each  | 427.80   | 427.80    |  |
| <b>1.23</b> | <b>17.57A</b>     | Providing and fixing shielded coupling for Hubless centrifugally cast iron pipes   |    |       |          |           |  |
|             | <b>17.57A.1</b>   | 100 mm   |    |       |          |           |  |
|             | <b>17.57A.1.1</b> | S S 304 grade coupling with EPDM rubber gasket   | 6  | each  | 432.05   | 2,592.30  |  |
| <b>1.24</b> | <b>17.59</b>      | Providing and fixing M.S. stays and clamps for sand cast iron/centrifugally cast (spun) iron pipes of diameter :                                   |    |       |          |           |  |

|             |                  |  |    |       |          |           |          |
|-------------|------------------|--|----|-------|----------|-----------|----------|
|             | <b>17.59.1</b>   | 100 mm   | 1  | each  | 139.70   | 139.70    |          |
| <b>1.25</b> | <b>17.65</b>     | Painting sand cast iron/ centrifugally cast (spun) iron soil, waste vent pipes and fittings with two coats of synthetic enamel paint of any colour such as chocolate grey, or buff etc. over a coat of primer (of approved quality) for new work :   |    |       |          |           |          |
|             | <b>17.65.1</b>   | 100 mm diameter pipe   | 40 | meter | 82.80    | 3,312.00  |          |
| <b>1.26</b> | <b>17.37</b>     | Providing and fixing M.S. holder-bat clamps of approved design to Sand Cast iron/cast iron (spun) pipe embedded in and including cement concrete blocks 10x10x10cm of 1:2:4 mix (1 cement : 2 coarse sand : 4 graded stone aggregate 20mm nominal size) including cost of cutting holes and making good the walls etc. : |    |       |          |           |          |
|             | <b>17.37.1</b>   | 100 mm diameter pipe   | 6  | each  | 362.85   | 2,177.10  |          |
| <b>1.27</b> | <b>18.10</b>     | Providing and fixing G.I. soil / waste pipes complete with G.I. fittings and clamps, i/c cutting and making good the walls etc.  |    |       |          |           |          |
|             | <b>18.10.4</b>   | 32 mm dia. nominal bore  | 20 | metre | 667.00   | 13,340.00 |          |
|             | <b>18.10.5</b>   | 40 mm dia. nominal bore  | 10 | metre | 811.90   | 8,119.00  |          |
|             | <b>18.10.6</b>   | 50 mm dia. nominal bore  | 20 | metre | 1,048.35 | 20,967.00 |          |
| <b>1.28</b> | <b>17.60</b>     | Providing and fixing trap of self cleansing design with screwed down or hinged grating with or without vent arm complete, including cost of cutting and making good the walls and floors :   |    |       |          |           |          |
|             | <b>17.60.1</b>   | 100 mm inlet and 100 mm outlet   |    |       |          |           |          |
|             | <b>17.60.1.3</b> | Hubless centrifugally cast (spun) iron epoxy coated inside & outside as per IS:15905   | 6  | each  | 854.55   | 5,127.30  |          |
| <b>1.29</b> | <b>18.77</b>     | Cutting holes up to 15 x 15 cm in R.C.C. floors and roofs for passing drain pipe etc. and repairing the hole after insertion of drain pipe etc. with cement concrete 1:2:4 ( 1 Cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size ) , including finishing complete so as to make it leak proof.        | 4  | each  | 452.00   | 1,808.00  |          |
| <b>1.30</b> | <b>NSI-4</b>     | Providing & fixing in position GI 100x50 elbow floor drain including cost of cutting and making good the walls and floors wherever required.   | 4  | each  | 1,541.00 |           | 6,164.00 |
| <b>1.31</b> | <b>NSI-5</b>     | Providing and fixing 125 mm dia S/S grating (with or without hole)for floor or Nahani trap.  | 4  | each  | 620.00   |           | 2,480.00 |
| <b>1.32</b> | <b>NSI-6</b>     | Providing and fixing soap dish holder from wall of standard shape with fittings of approved quality with all complete. Make Jaquar - ACN-1131N & Equivalent  | 1  | each  | 1,159.00 |           | 1,159.00 |
| <b>1.33</b> | <b>NSI-7</b>     | Providing and fixing soap dispenser with glass bottle from wall of standard shape with fittings of approved quality with all complete. Make Jaquar - ACN-1135N & Equivalent  | 0  | each  | 2,095.00 |           | -        |

|      |           |  |    |       |          |           |          |
|------|-----------|--|----|-------|----------|-----------|----------|
| 1.34 | NSI-8     | Providing & fixing 600 mm towel rail long stainless steel from wall face with concealed fittings arrangement of approved quality with all complete. Make Jaquar - CAN-1111SM   | 1  | each  | 2,025.00 |           | 2,025.00 |
| 1.35 | 18.65     | Providing and fixing PTMT soap Dish Holder having length of 138mm, breadth 102mm, height of 75mm with concealed fitting arrangements, weighing not less than 106 gms.  | 0  | each  | 111.45   | -         |          |
| 136  | 17.73     | Providing and fixing PTMT towel rail complete with brackets fixed to wooden cleats with CP brass screws with concealed fittings arrangement of approved quality and colour.  |    |       |          |           |          |
|      | 17.73.2   | 600 mm long towel rail with total length of 645 mm, width 78 mm and effective height of 88 mm, weighing not less than 190 gms.   | 2  | each  | 708.95   | 1,417.90  |          |
| 1.37 | 12.22     | Making khurras 45x45 cm with average minimum thickness of 5 cm cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate of 20 mm nominal size) over P.V.C. sheet 1 m x 1 m x 400 micron, finished with 12 mm cement plaster 1:3 (1 cement : 3 coarse sand) and a coat of neat cement, rounding the edges and making and finishing the outlet complete. | 2  | each  | 298.25   | 596.50    |          |
| 1.38 | 12.41     | Providing and fixing on wall face unplasticised Rigid PVC rain water pipes conforming to IS : 13592 Type A, including jointing with seal ring conforming to IS : 5382, leaving 10 mm gap for thermal expansion, (i) Single socketed pipes.   | 40 | metre | 377.40   | 15,096.00 |          |
| 1.39 | 12.42     | Providing and fixing on wall face unplasticised - PVC moulded fittings/ accessories for unplasticised Rigid PVC rain water pipes conforming to IS : 13592 Type A, including jointing with seal ring conforming to IS : 5382, leaving 10 mm gap for thermal expansion.  |    |       |          |           |          |
|      | 12.42.1   | Coupler  |    |       |          |           |          |
|      | 12.42.1.1 | 110 mm   | 40 | each  | 136.15   | 5,446.00  |          |
|      | 12.42.3   | Single tee with door   |    |       |          |           |          |
|      | 12.42.3.2 | 110x110x110 mm   | 2  | each  | 234.15   | 468.30    |          |
|      | 12.42.5   | Bend 87.5°   |    |       |          |           |          |
|      | 12.42.5.2 | 110 mm   | 2  | each  | 150.35   | 300.70    |          |
|      | 12.42.6   | Shoe (Plain)   |    |       |          |           |          |
|      | 12.42.6.1 | 110 mm Shoe  | 2  | each  | 131.85   | 263.70    |          |
| 1.40 | 12.43     | Providing and fixing unplasticised -PVC pipe clips of approved design to unplasticised - PVC rain water pipes by means of 50x50x50 mm hard wood plugs, screwed with M.S. screws of required length, including cutting brick work and fixing in cement mortar 1:4 (1 cement : 4 coarse sand) and making good the wall etc. complete.                                      |    |       |          |           |          |
|      | 12.43.2   | 110 mm   | 6  | each  | 371.30   | 2,227.80  |          |

|      |         |  |    |       |           |                   |                  |
|------|---------|--|----|-------|-----------|-------------------|------------------|
| 1.41 | NSI-9   | Supplying and fixing of HDPE pipe (PE grade 63 - PN-8 ) confirming to IS 14333-1996 chemical waste pipes jointed with rubber ring with good quality lubricant with fittings inclusive of all necessary specials like bends, tees, offsets, junctions etc laid under floor/under ceiling/on walls with suitable clamps and specials curing, necessary chasing, jointing and restoring to original conditions, testing etc. including all other incidental charges etc. complete for successful completion of work as per specifications, and as directed by Engineer -in- Charge. |    |       |           |                   |                  |
|      | a)      | 110 mm outer dia   | 0  | metre | 1,543.00  |                   | -                |
|      | b)      | 50 mm outer dia  | 0  | metre | 558.00    |                   | -                |
| 1.42 | NSI-10  | Providing & fixing in position upvc P"or S" trap of self cleaning design of following sizes for the embedded areas Making proper connection with chemical sealant joint , cutting chase / hole in floors /slabs and bringing the same in proper condition in cement concrete 1:2:4 mix complete as required. including cost of cutting and making good the walls and floors wherever required.   | 0  | each  | 627.00    |                   | -                |
| 1.43 | NSI-11  | Providing & Fixing water cooler wth stainless steel having storage capacity of 80 liter & cooling capacity 60 liter / hour with Reverse osmosis system & ultra violet membrane TDS reduction 90% having automatic back wash system with filtration unit & all other required accessories complete in all respect as per direction of the engineer in charge .  | 0  | each  | 65,604.00 |                   | -                |
|      |         | <b>TOTAL</b>   |    |       |           | <b>225,238.75</b> | <b>24,326.00</b> |
|      |         | <b>Sub Head – II Water Supply</b>  |    |       |           |                   |                  |
| 2.1  | 18.10   | Providing and fixing G.I. pipes complete with G.I. fittings and clamps, i/c cutting and making good the walls etc.   |    |       |           |                   |                  |
|      |         | <b>Internal work – Exposed on wall.</b>  |    |       |           |                   |                  |
|      | 18.10.2 | 20 mm nominal outer dia Pipes  | 15 | metre | 437.30    | 6,559.50          |                  |
|      | 18.10.3 | 25 mm nominal outer dia Pipes  | 10 | metre | 551.70    | 5,517.00          |                  |
|      | 18.10.4 | 32 mm nominal outer dia Pipes  | 10 | metre | 667.00    | 6,670.00          |                  |
|      | 18.10.5 | 40 mm nominal outer dia Pipes  | 10 | metre | 811.90    | 8,119.00          |                  |
|      | 18.10.6 | 50 mm nominal outer dia Pipes  | 10 | metre | 1,048.35  | 10,483.50         |                  |
|      | NSI-12a | 65 mm nominal outer dia Pipes  | 0  | metre | 1,084.00  |                   | -                |
|      | NSI-12b | 80 mm nominal outer dia Pipes  | 0  | metre | 1,276.00  |                   | -                |

|      |          |  |       |           |          |           |          |
|------|----------|--|-------|-----------|----------|-----------|----------|
| 2.2  | 18.8     | Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply, including all CPVC plain & brass threaded fittings, i/c fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and the cost of cutting chases and making good the same including testing of joints complete as per direction of Engineer in Charge. |       |           |          |           |          |
|      |          | Concealed including cutting chases and making good the wall etc.   |       |           |          |           |          |
|      | 18.8.2   | 15 mm nominal outer dia Pipes  | 10    | metre     | 537.60   | 5,376.00  |          |
|      | 18.8.3   | 20 mm nominal outer dia Pipes  | 10    | metre     | 627.25   | 6,272.50  |          |
|      | 18.8.4   | 25 mm nominal outer dia Pipes  | 5     | metre     | 739.30   | 3,696.50  |          |
| 2.3  | 18.17    | Providing and fixing gun metal gate valve with C.I. wheel of approved quality (screwed end) :  |       |           |          |           |          |
|      | 18.17.1A | 20 mm dia. nominal bore  | 1     | each      | 539.95   | 539.95    |          |
|      | 18.17.1  | 25 mm dia. nominal bore  | 2     | each      | 622.40   | 1,244.80  |          |
|      | 18.17.2  | 32 mm dia. nominal bore  | 2     | each      | 689.60   | 1,379.20  |          |
|      | 18.17.3  | 40 mm dia. nominal bore  | 1     | each      | 826.10   | 826.10    |          |
|      | 18.17.4  | 50 mm dia. nominal bore  | 1     | each      | 1,026.65 | 1,026.65  |          |
| 2.4  | 18.18    | Providing and fixing ball valve (brass) of approved quality, High or low pressure, with plastic floats complete :  |       |           |          |           |          |
|      | 18.18.3  | 25 mm nominal bore   | 1     | each      | 464.05   | 464.05    |          |
| 2.5  | NSI-13   | Providing and fixing hand held ablution fitting (health faucet) with 1.2 meter long flexible tube and wall hook, all complete approved engineer-in-charge  | 1     | each      | 2,373.00 |           | 2,373.00 |
| 2.6  | NSI-14   | Supply and fixing of 15mm CP brass 2 -Way Bib Cock with wall flange and suitable length CP brass extension pipe all of approved engineer-in-charge   | 3     | each      | 2,654.00 |           | 7,962.00 |
| 2.7  | 18.48    | Providing and placing on terrace (at all floor levels) polyethylene water storage tank, IS : 12701 marked, with cover and suitable locking arrangement and making necessary holes for inlet, outlet and overflow pipes but without fittings and the base support for tank  | 2,500 | per litre | 11.00    | 27,500.00 |          |
| 2.8  | 18.51    | Providing and fixing C.P. brass long nose bib cock of approved quality conforming to IS standards and weighing not less than 810 gms.  |       |           |          |           |          |
|      | 18.51.1  | 15 mm nominal bore   | 0     | each      | 796.95   | -         |          |
| 2.9  | 18.52    | Providing and fixing C.P. brass stop cock (concealed) of standard design and of approved make conforming to IS:8931.   |       |           |          |           |          |
|      | 18.52.1  | 15 mm nominal bore   | 0     |           | 670.45   | -         |          |
| 2.10 | 18.53    | Providing and fixing C.P. brass angle valve for basin mixer and geyser points of approved quality conforming to IS:8931  |       |           |          |           |          |
|      | 18.53.1  | 15mm nominal bore  | 2     | each      | 574.30   | 1,148.60  |          |
| 2.11 | 18.21    | Providing and fixing uplasticised PVC connection pipe with brass unions :  |       |           |          |           |          |

|             |                  |  |    |       |           |                  |                  |
|-------------|------------------|--|----|-------|-----------|------------------|------------------|
|             | <b>18.21.2</b>   | 45 cm length   |    |       |           |                  |                  |
|             | <b>18.21.2.1</b> | 15 mm nominal bore   | 2  | each  | 97.75     | 195.50           |                  |
| <b>2.12</b> | <b>18.22</b>     | Providing and fixing C.P. brass shower rose with 15 or 20 mm inlet :   |    |       |           |                  |                  |
|             | <b>18.22.2</b>   | 150 mm diameter  | 0  | each  | 222.35    | -                |                  |
| <b>2.13</b> | <b>17.22B</b>    | Providing and fixing CP Brass Single lever telephonic wall mixer of quality & make as approved by Engineer in charge.  |    |       |           |                  |                  |
|             |                  | (a) 15 mm nominal dia  | 1  | each  | 6,940.75  | 6,940.75         |                  |
| <b>2.14</b> | <b>NSI-15</b>    | Providing , Fixing, testing and commissioning of CP Brass 150 mm x 150 mm Shower head with wall flange with all accessories as required and making good the walls wherever required. ( MAKE-JAQUAR -Model No-OHS-35495 or EQUIVALENT.)   | 1  | each  | 4,875.00  |                  | 4,875.00         |
| <b>2.15</b> | <b>NSI-16</b>    | Supply ,Erection , Testing & Commissioning of Automatic water level control panel & related accessories for pumping automation with consisting of automatic water level controller , level sensor with stainless steel probe, motorized butterfly valve, motorized valve controller with complete in all respect.                |    |       |           |                  |                  |
|             | <b>a</b>         | upto 50 mm dia. nominal bore   | 0  | each  | 26,947.00 |                  | -                |
|             |                  | <b>TOTAL</b>   |    |       |           | <b>93,959.60</b> | <b>15,210.00</b> |
|             |                  | <b>SUBHEAD – III Drainage</b>  |    |       |           |                  |                  |
| <b>3.1</b>  | <b>NSI-17</b>    | Supply and fixing HDPE double wall corrugated ( DWC ) I.S 16098 ( Part - 2 ) 3013 for soil / waste pipe under ground drainage system with jointed with rubber ring with good quality lubricant for fittings, inclusive of all necessary specials like bends, tees, offsets, junctions, re excavation and refilling etc complete. |    |       |           |                  |                  |
|             | <b>a</b>         | 150 mm diameter  | 2  | metre | 1,024.00  |                  | 2,048.00         |
|             | <b>b</b>         | 200 mm diameter  | 0  | metre | 1,298.00  |                  | -                |
| <b>3.2</b>  | <b>19.4</b>      | Providing and fixing square-mouth S.W. gully trap class SP-1 complete with C.I. grating brick masonry chamber with water tight C.I. cover with frame of 300 x300 mm size (inside) the weight of cover to be not less than 4.50 kg and frame to be not less than 2.70 kg as per standard design :                                 |    |       |           |                  |                  |
|             | <b>19.4.3</b>    | 180x150 mm size P type   |    |       |           |                  |                  |
|             | <b>19.4.3.1</b>  | With fly ash bricks (non modular) bricks of class designation 7.5  | 2  | each  | 2,802.15  | 5,604.30         |                  |
| <b>3.3</b>  | <b>19.6</b>      | Providing and laying non-pressure NP2 class (light duty) R.C.C. pipes with collars jointed with stiff mixture of cement mortar in the proportion of 1:2 (1 cement : 2 fine sand) including testing of joints etc. complete :   |    |       |           |                  |                  |
|             | <b>19.6.2</b>    | 150 mm dia. R.C.C. pipe  | 20 | metre | 556.45    | 11,129.00        |                  |
|             | <b>19.6.3</b>    | 250 mm dia. R.C.C. pipe  | 0  | metre | 899.80    | -                |                  |

|            |                 |   |      |       |           |                  |                 |
|------------|-----------------|---|------|-------|-----------|------------------|-----------------|
|            | <b>19.6.4</b>   | 300 mm dia. R.C.C. pipe   | 0    | metre | 994.30    | -                |                 |
| <b>3.4</b> | <b>19.7</b>     | Constructing brick masonry manhole in cement mortar 1:4 (1 cement :4 coarse sand) with RCC top slab with 1:2:4 mix ( 1 cement : 2 coarse sand : 4 stone aggregate 20 mm nominal size ) , foundation concrete 1:4:8 mix (1 cement : 4 coarse sand : 8 stone aggregate 40 mm nominal size ) inside plastering 12 mm thick with cement mortar 1:3 (1 cement : 3 coarse sand) finished with a floating coat of neat cement, foundation concrete 1:3:6 mix (1 cement :3 coarse sand : 6 graded stone aggregate 40 mm nominal size),and making necessary channel in cement concrete 1:2:4 (1 cement :2 coarse sand :4 graded stone aggregate 20 mm nominal size) finished with a floating coat of neat cement complete as per standard design . |      |       |           |                  |                 |
|            | <b>19.7.1</b>   | inside size 90x80 cms and 45 cms deep including CI cover with frame ( light duty ) 455x610 mm internal dimensions total weight of cover & frame to be not less than 38 kg (weight of cover 23 kg & weight of frame 15 kg )  |      |       |           |                  |                 |
|            | <b>19.7.1.1</b> | with common burnt clay FPS ( non modular ) bricks of class designation 7.5  | 1.00 | Each  | 12,770.55 | 12,770.55        |                 |
| <b>3.5</b> | <b>19.8</b>     | Extra depth for manhole 90x80 cm  |      |       |           |                  |                 |
|            | <b>19.8.1.1</b> | With FPS bricks class designation 7.5   | 0.20 | Metre | 8,825.40  | 1,765.08         |                 |
| <b>3.6</b> | <b>19.16</b>    | #####   | 4.00 | Each  | 553.70    | 2,214.80         |                 |
| <b>3.7</b> | <b>19.27</b>    | Constructing brick masonry road gully chamber 50x45x60 cm with bricks in cement mortar 1:4 (1 cement : 4 coarse sand) including 500x450 mm pre-cast R.C.C. horizontal grating with frame complete as per standard design :  |      |       |           |                  |                 |
|            | <b>19.27.1</b>  | With common burnt clay F.P.S. (non modular) bricks of class designation 7.5   | 2.00 | Each  | 5,957.90  | 11,915.80        |                 |
|            |                 | <b>TOTAL</b>  |      |       |           | <b>45,399.53</b> | <b>2,048.00</b> |

| ESTIMATE OF FOR CONSTRUCTION OF ADDITIONAL DORMITORY & STAFF<br>QUARTERS AT JNV KUPWARA, JAMMU AND KASHMIR  |  |                      |                  |
|---|--|----------------------|------------------|
| Left over work of 0.25 Unit Boys Dormitory with 01 nos warden residence (Double Storey,<br>RCC framed structure), Plinth area 327.00 + 55.00=382.00 Sqm.. |  |                      |                  |
| Girls Dormitory Electrical work   |  |                      |                  |
| Sl.No.  | Name of Work                           | TOTAL AMOUNT(IN RS.) |                  |
|   |  | DSR-2022             | MR               |
|   |  |                      |                  |
| I   | SUB HEAD - I: CIRCUIT CUM POINT WIRING | 299,137.00           | 23,574.43        |
| II  | SUBHEAD -II - FITTINGS & FIXTURES      | 65,520.00            | 73,922.25        |
| III   | SUBHEAD - III - DISTRIBUTION BOARDS    | 77,469.00            | -                |
| IV  | SUB HEAD-IV , LIGHTNING CONDUCTOR      | 26,017.00            |                  |
|   | <b>TOTAL</b>                           | <b>468,143.00</b>    | <b>97,496.68</b> |
|   | <b>Say in Lacs</b>                     | <b>4.68</b>          | <b>0.97</b>      |



| ESTIMATE OF FOR CONSTRUCTION OF ADDITIONAL DORMITORY & STAFF QUARTERS AT JNV KUPWARA, JAMMU AND KASHMIR  |              |   |       |     |          |          |            |           |
|--|--------------|---|-------|-----|----------|----------|------------|-----------|
| Detailed Estimate for ELECTRICAL Works   |              |   |       |     |          |          |            |           |
| Left over work of 0.25 Unit Boys Dormitory with 01 nos warden residence (Double Storey, RCC framed structure), Plinth area 327.00 + 55.00=382.00 Sqm.. |              |   |       |     |          |          |            |           |
| S.No.  | DSR-2022/NSI | Description   | Unit  | Qty | Rate     |          | Amount     |           |
|  |              |   |       |     | DSR-2022 | NSI      | DSR-2022   | NSI       |
|  |              | SUB HEAD - I: CIRCUIT CUM POINT WIRING  |       |     |          |          |            |           |
|  |              | SWITCH CONTROL LIGHT POINTS   |       |     |          |          |            |           |
| 1  | DSR 1.10     | Wiring for light point/ fan point/ exhaust fan point/ call bell point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable in surface / recessed medium class PVC conduit, with modular switch, modular plate, suitable GI box and earthing the point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable etc. as required.  |       |     |          |          |            |           |
| 1.1  | DSR 1.10.3   | Group C   | Point | 80  | 1,467.00 |          | 117,360.00 |           |
| 2  | DSR-1.55     | Wiring for group controlled (looped) light point/fan point/exhaust fan point/ call bell point ( without Independent switch etc.) with 1.5 sq. mm FRLS PVC insulated copper conductor single core cable in surface/ recessed PVC conduit, and earthing the point with 1.5 sq. mm FRLS PVC insulated copper conductor single core cable etc as required. (Switch Control Secondary Points)  | Point | 6   | 858.00   |          | 5,148.00   |           |
| 2.1  | DSR-1.55.3   | Group C   |       |     |          |          |            |           |
| 3  | DSR-1.3      | Wiring for light point/ fan point/ exhaust fan point/ call bell point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable in surface / recessed steel conduit, with modular switch, modular plate, suitable GI box and earthing the point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable etc. as required. (Switch Control Primary Points)   |       |     |          |          |            |           |
| 3.1  | DSR-1.3.3    | Group C   | Point | 0   | 1,845.00 |          | -          |           |
| 4  | DSR-1.54     | Wiring for group controlled (looped) light point/fan point/exhaust fan point/ call bell point (without Independent switch etc.) with 1.5 sq. mm FRLS PVC insulated copper conductor single core cable in surface/ recessed steel conduit, and earthing the point with 1.5 sq. mm FRLS PVC insulated copper conductor single core cable etc as required. (Switch Control Secondary Points)   |       |     |          |          |            |           |
| 4.1  | DSR-1.54.3   | Group C   | Point | 0   | 1,094.00 |          | -          |           |
|  |              | MCB CONTROL LIGHT POINTS  |       |     |          |          |            |           |
| 5  | NSI-1        | Wiring for light point/ fan point/ exhaust fan point/ call bell point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable in surface / recessed steel conduit, with modular switch, modular plate, suitable GI box and earthing the point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable etc. as required. (Switch Control Primary Points)   |       |     |          |          |            |           |
| 5.1  | NSI-1.1      | Primary point controlled by one MCB.  | Point | 2   |          | 1,523.13 |            | 3,046.25  |
| 5.2  | NSI-1.2      | Same as item above but Secondary point. i.e. Points to be looped with Primary point with 2.5 sqmm wire and Point wiring   | Point | 2   |          | 1,354.89 |            | 2,709.79  |
| 6  | DSR 1.5      | Wiring for light/ power plug with 2X4 sq. mm FRLS PVC insulated copper conductor single core cable in surface/ recessed steel conduit alongwith 1 No. 4 sq. mm FRLS PVC insulated copper conductor single core cable for loop earthing as required.   | Metre | 80  | 433.00   |          | 34,640.00  |           |
| 7  | DSR 1.7      | Wiring for circuit/ submain wiring alongwith earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface/ recessed steel conduit as required.  |       |     |          |          |            |           |
| 7.1  | DSR 1.7.1    | 2 X 1.5 sq. mm + 1 X 1.5 sq. mm earth wire  | Metre | 8   | 327.00   |          | 2,616.00   |           |
| 7.2  | DSR 1.7.2    | 2 X 2.5 sq. mm + 1 X 2.5 sq. mm earth wire  | Metre | 250 | 369.00   |          | 92,250.00  |           |
| 7.3  | DSR 1.7.4    | 2 X 6 sq. mm + 1 X 6 sq. mm earth wire  | Metre | 40  | 589.00   |          | 23,560.00  |           |
| 7.4  | DSR 1.7.5    | 2 x 10 sq. mm + 1 x 10 sq.mm earth wire   | Metre | 0   | 710.00   |          | -          |           |
| 7.5  | DSR 1.7.10   | 4 X 10 sq. mm + 2 X 6 sq. mm earth wire   | Metre | 5   | 1,166.00 |          | 5,830.00   |           |
| 7.6  | DSR 1.7.11   | 4 X 16 sq. mm + 2 X 6 sq. mm earth wire   | Metre | 5   | 1,645.00 |          | 8,225.00   |           |
| 8  | DSR 1.31     | Supplying and fixing suitable size GI box with modular plate and cover in front on surface or in recess including providing and fixing 3 pin 5/6 Amp modular socket outlet and 5/6 A modular switch, connection etc. as required.   | Each  | 6   | 477.00   |          | 2,862.00   |           |
| 9  | NSI-2        | Supply and Wiring for 250 volts single phase and neutral 2 Nos 6 amps socket outlet with control by 1 No switched with 2.5 sq.mm PVC insulated copper conductor 1100 volts grade stranded flexible FRLS wires in concealed or surface mounted 25 mm dia 2mm thick PVC conduit including providing and fixing of 6 amps 3 pin switch socket outlet of approved make and design in 2 mm thick GI box with grid plate and earthing of third pin of the socket with 2.5 Sq. mm PVC insulated copper conductor stranded flexible FRLS wire.(maximum four no. of switches socket shall be connected on one circuit) | Each  | 10  |          | 1,782    |            | 17,818.39 |
| 10   | DSR 1.32     | Supplying and fixing suitable size GI box with modular plate and cover in front on surface or in recess, including providing and fixing 6 pin 5/6 & 15/16 A modular socket outlet and 15/16 A modular switch, connections etc. as required.   | Each  | 6   | 586.00   |          | 3,516.00   |           |

|  |            |  |      |    |          |                   |                  |
|--|------------|--|------|----|----------|-------------------|------------------|
| 11   | NSI-3      | Supplying and fixing 63 A, 415 V, TPN Industrial type socket outlet, with 4 pole and earth, metal enclosed plug top alongwith 63 A "C" curve, TPMCB, in sheet steel enclosure, on surface or in recess, with chained metal cover for the socket outlet and complete with connections, testing and commissioning etc. as required.  | Each | 0  |          | 11,284.98         | -                |
| 12   | NSI-4      | Supplying and fixing 80 A, 415 V, TPN Industrial type socket outlet, with 4 pole and earth, metal enclosed plug top alongwith 80 A "C" curve, TPMCB, in sheet steel enclosure, on surface or in recess, with chained metal cover for the socket outlet and complete with connections, testing and commissioning etc. as required.  | Each | 0  |          | 17,343.23         | -                |
| 13   | DSR-1.33   | Supplying and fixing <b>3 pin, 5 A ceiling rose</b> on the existing junction box/ wooden block including connections etc. as required.   | Each | 10 | 87.00    |                   | 870.00           |
| 14   | DSR-1.57   | Supplying & fixing suitable size GI box with modular plate and cover in front on surface or in recess i/c providing and fixing 25 amp modular socket outlet and 25 Amps modular SP MCB, "C" curve including connection, painting etc. as required. (AC's & Gysers)   | Each | 2  | 727.00   |                   | 1,454.00         |
| 15   | DSR 1.24   | Supplying and fixing following modular switch/ socket on the existing modular plate & switch box including connections but excluding modular plate etc. as required.   |      |    |          |                   |                  |
| 15.1   | DSR 1.24.6 | Telephone socket outlet  | Nos  | 1  | 148.00   |                   | 148.00           |
| 16   | DSR 1.27   | Supplying and fixing following size/ modules, GI box alongwith modular base & cover plate for modular switches in recess etc. as required.   |      |    |          |                   |                  |
| 16.1   | DSR 1.27.1 | 1 or 2 Module (75mmX75mm)  | Nos  | 0  | 298.00   |                   | -                |
| 16.2   | DSR 1.27.4 | 6 module (78mm X 205 mm X 50 mm)   | Nos  | 0  | 402.00   |                   | -                |
| 17   | DSR 1.24   | Supplying and fixing following size/ modules, GI box alongwith modular base & cover plate for modular switches in recess etc. as required.   |      |    |          |                   |                  |
| 17.1   | DSR 1.24.4 | 3 pin , 5/6 amps socket outlet   | Each | 0  | 122.00   |                   | -                |
| 17.1   | DSR 1.24.1 | 5/6 amps switch  | Each | 0  | 103.00   |                   | -                |
| 18   | DSR 1.21   | Supplying and fixing of following sizes of medium class PVC conduit along with accessories in surface/recess including cutting the wall and making good the same in case of recessed conduit as required.  |      |    |          |                   |                  |
| 18.1   | DSR 1.21.2 | 25 mm  | Mtr  | 2  | 145.00   |                   | 290.00           |
| 18.2   | DSR 1.21.3 | 32 mm  | Mtr  | 2  | 184.00   |                   | 368.00           |
| <b>TOTAL CARRIED TO SUMMARY FOR SUBHEAD - I</b>  |            |  |      |    |          | <b>299,137.00</b> | <b>23,574.43</b> |
| <b>SUBHEAD -II - FITTINGS &amp; FIXTURES</b>     |            |  |      |    |          |                   |                  |
| 1  | NSI-1      | Supply, Installation, Testing and Commissioning of 10 W Bulk head Light.   | Each | 0  |          | 1,158.20          | -                |
| 2  | NSI-2      | Supply, Installation, Testing and Commissioning of 5W Mirror Light.  | Each | 0  |          | 445.46            | -                |
| 3  | NSI-3      | Supply, Installation, Testing and Commissioning of 18W Surface/Recessed Mounted LED circular Downlighter.  | Each | 20 |          | 1,470.02          | 29,400.34        |
| 4  | NSI-4      | Supply, Installation, Testing and Commissioning of 18/20W Wall/Surface mouted 4 ft. LED  | Each | 1  |          | 1,336.38          | 1,336.38         |
| 5  | NSI-5      | Supply, Installation, Testing and Commissioning of 15W Surface mounted LED Square Downlighter.   | Each | 5  |          | 1,380.93          | 6,904.63         |
| 6  | NSI-6      | Supply, Installation, Testing and Commissioning of 150 W CHANDELIER  | Each | 0  |          | 89,091.94         | -                |
| 7  | NSI-7      | Supply, Installation, Testing and Commissioning of 12/9W Recessed mounted LED circular Downlighter.  | Each | 20 |          | 1,069.10          | 21,382.06        |
| 8  | NSI-8      | Supply, Installation, Testing and Commissioning of 9W (Nominal) Wall Bracket Light   | Each | 6  |          | 222.73            | 1,336.38         |
| 9  | DSR 1.21   | Supply, Installation, Testing and Commissioning of 1200 mm sweep, BEE 5 star rated, ceiling fan with Brush Less Direct Current (BLDC) Motor, class of insulation: B, 3 nos. blades, 30 cm long down rod, 2nos. canopies, shackle kit, safety rope, copper winding, Power Factor not less than 0.9, Service Value (CM/M/W) minimum 6.00, Air delivery minimum 210 Cum/Min , 350 RPM (tolerance as per IS : 374-2019),THD less than 10%, remote or electronic regulator unit for speed control and all remaining accessories including safety pin, nut bolts, washers, temperature rise=75 degree C (max.), insulation resistance more than 2 mega ohm, suitable for 230 V, 50 Hz, single phase AC Supply, earthing etc. complete as required. | Each | 24 | 2,730.00 |                   | 65,520.00        |
| 10   | NSI-9      | Supply Installation, Testing and Commissioning of 250 mm dia Domestic Exhaust Fan  | Each | 6  |          | 2,260.41          | 13,562.47        |
| <b>TOTAL CARRIED TO SUMMARY FOR SUBHEAD - II</b> |            |  |      |    |          | <b>65,520.00</b>  | <b>73,922.25</b> |
| <b>SUBHEAD - III - DISTRIBUTION BOARDS</b>       |            |  |      |    |          |                   |                  |

|  |                                   |   |       |      |           |  |           |   |
|--|-----------------------------------|---|-------|------|-----------|--|-----------|---|
| 1  | DSR 2.3                           | Supplying and fixing following way, single pole and neutral, sheet steel, MCB distribution board, 240 V, on surface/ recess, complete with tinned copper bus bar, neutral bus bar, earth bar, din bar, interconnections, powder painted including earthing etc. as required. (But without MCB/RCCB/Isolator)  |       |      |           |  |           |   |
| 1.1  | DSR 2.3.1                         | 6 way, Double door  | Each  | 0    | 2,206.00  |  | -         |   |
| 1.2  | DSR 2.3.2                         | 8 way, Double door  | Each  | 0    | 2,573.00  |  | -         |   |
| 1.3  | DSR 2.3.3                         | 12 way, Double door   | Each  | 0    | 2,315.00  |  | -         |   |
| 2  | DSR 2.4                           | Supplying and fixing following way, three pole and neutral, sheet steel, MCB distribution board, 415 volts, on surface/ recess complete with tinned copper busbar, neutral busbar, earth bar, din bar, detachable gland plate, interconnections, phosphatized and powder painted including earthing etc. as required. (But without MCB/ RCCB/ Isolator)   |       |      |           |  |           |   |
| 2.1  | DSR 2.4.1                         | 4 way (4 + 12), Double door   | Each  | 0    | 4,091.00  |  | -         |   |
| 2.2  | DSR 2.4.2                         | 6 way (4 + 18), Double door   | Each  | 0    | 4,974.00  |  | -         |   |
| 2.3  | DSR 2.4.3                         | 8 way (4 + 24), Double door   | Each  | 1    | 5,967.00  |  | 5,967.00  |   |
| 3  | DSR 2.5                           | Supplying and fixing of following ways surface/ recess mounting, vertical type, 415 V, TPN MCB distribution board of sheet steel, dust protected, duly powder painted, inclusive of 200 A tinned copper bus bar, common neutral link, earth bar, din bar for mounting MCBs (but without MCBs and incomer) as required . (Note :Vertical type MCB TPDB is normally used where 3 phase outlets are required.) |       |      |           |  |           |   |
| 3.1  | DSR 2.5.3                         | 12 way (4 + 36), Double door  | Each  | 4    | 12,833.00 |  | 51,332.00 |   |
| 4  | DSR 2.10                          | Supplying and fixing 5 A to 32 A rating, 240/415 V, 10 kA, "C" curve, miniature circuit breaker suitable for inductive load of following poles in the existing MCB DB complete with connections, testing and commissioning etc. as required.  |       |      |           |  |           |   |
| 4.1  | 2.10.1                            | Single Pole   | Each  | 20   | 256.00    |  | 5,120.00  |   |
| 4.2  | 2.10.2                            | Single Pole Neutral   | Each  | 0    | 599.00    |  | -         |   |
| 5  | DSR 2.12                          | Supplying and fixing following rating, double pole, 240 V, isolator in the existing MCB DB complete with connections, testing and commissioning etc. as required.   |       |      |           |  |           |   |
| 5.1  | DSR 2.12.1                        | 40 A  | Each  | 0    | 435.00    |  | -         |   |
| 5.2  | DSR 2.12.2                        | 63 A  | Each  | 0    | 527.00    |  | -         |   |
| 6  | DSR 2.13                          | Supplying and fixing following rating, four pole, 415 V, isolator in the existing MCB DB complete with connections, testing and commissioning etc. as required.   |       |      |           |  |           |   |
| 6.1  | DSR 2.13.1                        | 25 A  | Each  | 0    | 970.00    |  | -         |   |
| 6.1  | DSR 2.13.1                        | 40 A  | Each  | 0    | 970.00    |  | -         |   |
| 6.2  | DSR 2.13.2                        | 63 A  | Each  | 4    | 1,034.00  |  | 4,136.00  |   |
| 7  | DSR 2.14                          | Supplying and fixing following rating, double pole, (single phase and neutral), 240 V, residual current circuit breaker (RCCB), having a sensitivity current 30 mA in the existing MCB DB complete with connections, testing and commissioning etc. as required.  |       |      |           |  |           |   |
| 7.1  | DSR 2.14.1                        | 25 A  | Each  | 0    | 2,028.00  |  | -         |   |
| 7.2  | DSR 2.14.2                        | 40 A  | Each  | 0    | 2,642.00  |  | -         |   |
| 7.3  | DSR 2.14.3                        | 63 A  | Each  | 4    | 2,722.00  |  | 10,888.00 |   |
| 8  | DSR 2.11                          | Supplying and fixing single pole blanking plate in the existing MCB DB complete etc. as required.   | Each  | 2    | 13.00     |  | 26.00     |   |
| TOTAL CARRIED TO SUMMARY FOR SUBHEAD - III |                                   |   |       |      |           |  | 77,469.00 | - |
| VI   | SUB HEAD-IV , LIGHTNING CONDUCTOR |   |       |      |           |  |           |   |
| 1  | 6.2                               | Providing and fixing of lightning conductor finial, made of 25 mm dia 300 mm long, G.I. tube, having single prong at top, with 85 mm dia 6 mm thick G.I. base plate including holes etc. complete as required.  | Each  | 1.0  | 518.00    |  | 518.00    |   |
| 2  | 6.3                               | Fixing of lightning conductor finial (single prong) with base plate including holes etc. complete as required.  | Each  | 1.0  | 360.00    |  | 360.00    |   |
| 3  | 6.4                               | Jointing copper / G.I. tape (with another copper/ G I tape, base of the finial or any other metallic object) by riveting / nut bolting/ sweating and soldering etc as required.   | Metre | 5.0  | 113.00    |  | 565.00    |   |
| 4  | 6.7                               | Providing and fixing G.I. tape 20 mm X 3 mm thick on parapet or surface of wall for lightning conductor complete as required.(For horizontal run)   | Metre | 30.0 | 126.00    |  | 3,780.00  |   |
| 5  | 6.8                               | Providing and fixing G.I. tape 20 mm X 3 mm thick on parapet or surface of wall for lightning conductor complete as required.(For vertical run)   | Metre | 30.0 | 197.00    |  | 5,910.00  |   |
| 6  | 6.10                              | Fixing of copper/ G.I. tape 20 mm X 3 mm thick on parapet or surface of wall for lightning conductor complete as required.(For vertical run)  | Metre | 15.0 | 162.00    |  | 2,430.00  |   |
| 7  | 6.12                              | Providing and fixing testing joint, made of 20 mm X 3 mm thick G.I. strip, 125 mm long, with 4 nos. of G.I. bolts, nuts, chuck nuts and spring washers etc. complete as required.   | Each  | 12.0 | 121.00    |  | 1,452.00  |   |

|   |      |   |       |     |          |  |                  |  |
|---|------|---|-------|-----|----------|--|------------------|--|
|   |      |   |       |     |          |  |                  |  |
| 8 | 5.4  | Earthing with G.I. earth plate 600 mm X 600 mm X 6 mm thick including accessories, and providing masonry enclosure with cover plate having locking arrangement and watering pipe of 2.7 metre long etc. with charcoal/ coke and salt as required. Details of cost for one Set | Each  | 1.0 | 7,472.00 |  | 7,472.00         |  |
| 9 | 5.11 | Providing and fixing 25 mm X 5 mm G.I. strip in 40 mm dia G.I. pipe from earth electrode including connection with G.I. nut, bolt, spring, washer excavation and re-filling etc. as required.   | Metre | 5.0 | 706.00   |  | 3,530.00         |  |
|   |      | <b>TOTAL SUB HEAD (VI)</b>  |       |     |          |  | <b>26,017.00</b> |  |
|   |      |   |       |     |          |  |                  |  |

**ESTIMATE OF FOR CONSTRUCTION OF ADDITIONAL DORMITORY & STAFF QUARTERS  
AT JNV KUPWARA, JAMMU AND KASHMIR**

**SUMMARY OF CIVIL WORK GIRLS DORMITORY 0.25 Unit (48 bedded) Block-A**

| S. No.             | DSR Item /<br>Chapter no. | Description                | DSR-Amount (Rs.)  | NDSR-Amount<br>(Rs.) |
|--------------------|---------------------------|----------------------------|-------------------|----------------------|
| 1                  | 4                         | CONCRETE WORK              | 29,972.00         |                      |
| 2                  | 5                         | REINFORCED CEMENT CONCRETE | 28,348.80         |                      |
| 3                  | 6                         | BRICK WORK                 | 24,652.15         |                      |
| 4                  |                           | MARBLE WORK                | 38,521.70         |                      |
| 5                  | 9                         | WOOD WORK & PVC WORK       | 89,518.50         |                      |
| 6                  | 10                        | STEEL WORK                 | 80,867.75         |                      |
| 7                  | 12                        | ROOFING                    | 224,670.00        |                      |
| 8                  | 13                        | FINISHING                  | 250,487.00        | -                    |
| <b>Total</b>       |                           |                            | <b>767,037.90</b> | <b>-</b>             |
| <b>Say in Lacs</b> |                           |                            | <b>7.67</b>       |                      |

# ESTIMATE OF FOR CONSTRUCTION OF ADDITIONAL DORMITORY & STAFF QUARTERS AT JNV KUPWARA,

## COST ESTIMATE OF GIRLS DORMITORY

| S. No.     | Ref. No  | Description  | Unit            | Quantity | DSR 23 Rate | DSR-Amount<br>(Rs.) | NDSR-Amount<br>(Rs.) |
|------------|----------|--|-----------------|----------|-------------|---------------------|----------------------|
| <b>1.0</b> | <b>2</b> | <b>EARTH WORK</b>  |                 |          |             |                     |                      |
| 1.01       | 2.8      | Earth work in excavation by mechanical means (Hydraulic excavator) / manual means in foundation trenches or drains (not exceeding 1.5 m in width or 10 sqm on plan), including dressing of sides and ramming of bottoms, lift upto 1.5 m, including getting out the excavated soil and disposal of surplus excavated soil as directed, within a lead of 50 m.  |                 |          |             | -                   |                      |
| a)         | 2.8.1    | All kinds of soil  | Cum             | 920.00   | 166.40      | 153,088.00          |                      |
| 1.02       | 2.25     | Filling available excavated earth (excluding rock) in trenches, plinth, sides of foundations etc. in layers not exceeding 20cm in depth, consolidating each deposited layer by ramming and watering, lead up to 50 m and lift upto 1.5 m.  | Cum             | 1366.00  | 125.75      | 171,774.50          |                      |
| 1.03       | 2.27     | Supplying and filling in plinth with sand under floors, including watering, ramming, consolidating and dressing complete.  | Cum             | 150.40   | 917.75      | 138,029.60          |                      |
| 1.04       | 2.34     | Supplying chemical emulsion in sealed containers including delivery as specified.  |                 |          |             |                     |                      |
| a)         | 2.34.1   | Chlorpyriphos/ Lindane emulsifiable concentrate of 20%   | litre           | 285.30   | 185.95      | -                   |                      |
| 1.05       | 2.35     | Diluting and injecting chemical emulsion for POST-CONSTRUCTIONAL anti-termite treatment (excluding the cost of chemical emulsion) :  |                 |          |             |                     |                      |
|            | 2.35.3   | Treatment of soil under existing floors using chemical emulsion @ one litre per hole, 300 mm apart including drilling 12 mm diameter holes and plugging with cement mortar 1 : 2 (1 cement : 2 Coarse sand) to match the existing floor:   |                 |          |             |                     |                      |
| a)         | 2.35.3.1 | With Chlorpyriphos/Lindane E.C. 20% with 1% concentration  | Sqm             | 285.30   | 131.90      | -                   |                      |
| 1.04       | 16.3     | Supplying and stacking at site.  |                 |          |             |                     |                      |
| a)         | 16.3.9   | Good earth   | Cum             | 814.00   | 332.55      | 270,695.70          |                      |
|            |          | <b>Total of sub-head</b>   |                 |          |             | <b>733,587.80</b>   |                      |
| <b>1.0</b> | <b>4</b> | <b>CONCRETE WORK</b>   |                 |          |             |                     |                      |
| 1.01       | 4.1      | Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level :   |                 |          |             | -                   |                      |
| a)         | 4.1.10   | 1:5:10 (1 Cement : 5 coarse sand (zone-III) : 10 graded stone aggregate 40 mm nominal size)  | Cum             | 0.00     | 5520.30     | -                   |                      |
| 1.01       | 4.2      | Providing and laying cement concrete in retaining walls, return walls, walls (any thickness) including attached pilasters, columns, piers, abutments, pillars, posts, struts, buttresses, string or lacing courses, parapets, coping, bed blocks, anchor blocks, plain window sills, fillets, sunken floor etc., up to floor five level, excluding the cost of centering, shuttering and finishing : |                 |          |             | -                   |                      |
| a)         | 4.2.3    | 1:2:4 (1 Cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size).  | Cum             | 0.69     | 9895.20     |                     |                      |
| 1.02       | 4.10     | Providing and laying damp-proof course 40mm thick with cement concrete 1:2:4 (1 cement : 2 coarse sand (zone-III): 4 graded stone aggregate 12.5mm nominal size)   | Sqm             | 0.00     | 614.05      | -                   |                      |
| 1.03       | 4.12     | Extra for providing and mixing water proofing material in cement concrete work in doses by weight of cement as per manufacturer's specification.   | Per 50Kg Cement | 0.00     | 56.55       | -                   |                      |
| 1.04       | 4.13     | Providing & applying a coat of residual petroleum bitumen of grade of VG-10 of approved quality using 1.7kg per square metre on damp proof course after cleaning the surface with brushes and finally with a piece of cloth lightly soaked in kerosene oil.  | Sqm             | 0.00     | 110.00      | -                   |                      |

|                          |          |   |          |       |         |                  |
|--------------------------|----------|---|----------|-------|---------|------------------|
| 1.02                     | 4.17     | Making plinth protection 50mm thick of cement concrete 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size) over 75mm thick bed of dry brick ballast 40 mm nominal size, well rammed and consolidated and grouted with fine sand, including necessary excavation, levelling & dressing & finishing the top smooth.  | Sqm      | 40.00 | 749.30  | 29,972.00        |
| <b>Total of sub-head</b> |          |   |          |       |         | <b>29,972.00</b> |
| <b>2.0</b>               | <b>5</b> | <b>REINFORCED CEMENT CONCRETE</b>   |          |       |         |                  |
| 2.01                     | 5.9      | Centering and shuttering including strutting, propping etc. and removal of form for all heights:  |          |       |         |                  |
| a)                       | 5.9.1    | Foundations, footings, bases of columns, etc. for mass concrete   | Sqm      | 0.00  | 284.85  | -                |
| b)                       | 5.9.2    | Walls (any thickness) including attached pilasters, buttresses, plinth and string courses etc   | Sqm      |       | 609.30  | -                |
| c)                       | 5.9.6    | Columns, Pillars, Piers, Abutments, Posts and Struts  | Sqm      | 0.00  | 733.70  | -                |
| d)                       | 5.9.15   | Small lintels not exceeding 1.5 m clear span, moulding as in cornices, window sills, string courses, bands, copings, bed plates, anchor blocks and the like   | Sqm      |       | 284.85  | -                |
| e)                       | 5.9.16   | Edges of slabs and breaks in floors and walls   |          |       |         |                  |
| f)                       | 5.9.16.1 | Under 20 cms wide   | metre    | 0.00  | 173.25  | -                |
| a)                       | 5.9.3    | Suspended floors, roofs, landings, balconies and access platform.   | Sqm      | 10.00 | 927.25  |                  |
| b)                       | 5.9.21   | Lintels, beams, plinth beams, girders, bressumers and cantilevers. with water proof ply 12 mm thick   | Sqm      | 0.00  | 641.60  | -                |
| 2.02                     | 5.18     | Providing precast cement concrete Jali 1:2:4 (1 cement : 2 coarse sand(zone-III) : 4 graded stone aggregate 6mm nominal size), reinforced with 1.6 mm dia mild steel wire, including centering and shuttering, roughening cleaning, fixing and finishing with cement mortar 1:3 (1 cement: 3 fine sand) etc. complete, excluding plastering of the jambs, sills and soffits.  |          |       |         |                  |
| a)                       | 5.18.1   | 50 mm thick   | Sqm      | 0.00  | 1474.05 | -                |
| 2.03                     | 5.22     | Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete upto plinth level.  |          |       |         | -                |
| a)                       | 5.22.6   | Thermo-Mechanically Treated bars of grade Fe-500D or more.  | kilogram |       | 83.50   | -                |
| 2.02                     | 5.22A    | Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete above plinth level.   |          |       |         |                  |
| a)                       | 5.22A.6  | Thermo-Mechanically Treated bars of grade Fe-500 D or more.   | kilogram | 80.00 | 107.85  | 8,628.00         |
| 2.04                     | 5.29     | Providing and fixing sheet covering over expansion joints with iron screws as per design.   |          |       |         |                  |
| i)                       | 5.29.2   | Aluminium fluted strips 3.15 mm thick.  |          |       |         |                  |
| a)                       | 5.29.2.2 | 200 mm wide   | Metre    | 0.00  | 654.95  | -                |
| 2.05                     | 5.30     | Add for plaster drip course/ groove in plastered surface or moulding to R.C.C. projections.   | metre    |       | 58.90   | -                |
| 2.03                     | 5.33     | Providing and laying in position machine batched and machine mixed design mix M-25 grade cement concrete for reinforced cement concrete work, using cement content as per approved design mix, including pumping of concrete to site of laying but excluding the cost of centering, shuttering, finishing and reinforcement, including admixtures in recommended proportions as per IS: 9103 to accelerate, retard setting of concrete, improve workability without impairing strength and durability as per direction of Engineer-in-charge. (Note : Cement content considered in this item is @ 330 kg/cum. "Excess/ less cement used as per design mix is payable/recoverable separately). |          |       |         |                  |
| (i)                      | 5.33.1   | All works upto plinth level   | Cum      | 0.00  | 7997.30 | -                |
| (ii)                     | 5.33.2   | All works above plinth level upto floor V level   | Cum      | 2.00  | 9860.40 | 19,720.80        |
| 2.04                     | 5.35     | Add for using extra cement in the items of design mix over and above the specified cement content therein.  | Quintal  | 0.00  | 688.45  |                  |
| <b>Total of sub-head</b> |          |   |          |       |         | <b>28,348.80</b> |
| <b>3.0</b>               | <b>6</b> | <b>BRICK WORK</b>   |          |       |         |                  |
| 3.01                     | 6.1      | Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in foundation and plinth in:   |          |       |         |                  |
| a)                       | 6.1.2    | Cement mortar 1:6 (1 cement : 6 coarse sand)  | Cum      | 0.00  | 6157.45 | -                |

|      |        |   |       |      |         |           |
|------|--------|---|-------|------|---------|-----------|
| 3.01 | 6.4    | Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in superstructure above plinth level up to floor V level in all shapes and sizes in :                            |       |      |         | -         |
| a)   | 6.4.2  | Cement mortar 1:6 (1 cement : 6 coarse sand)  | Cum   | 2.00 | 9105.95 | 18,211.90 |
| 3.02 | 6.13   | Half brick masonry with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in superstructure above plinth level up to floor V level.  |       |      |         | -         |
| a)   | 6.13.2 | Cement mortar 1:4 (1 cement :4 coarse sand)   | Sqm   | 5.00 | 1123.80 | 5,619.00  |
| 3.03 | 6.15   | Extra for providing and placing in position 2 Nos 6mm dia. M.S. bars at every third course of half brick masonry.   | Sqm   | 5.00 | 104.80  | 524.00    |
| 3.04 | 6.44   | Brick edging 7cm wide 11.4 cm deep to plinth protection with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 including grouting with cement mortar 1:4 (1 cement : 4 fine sand). | Metre | 5.00 | 59.45   | 297.25    |

**Total of sub-head**

**24,652.15**

**4.0 8 MARBLE WORK**

|      |         |  |       |       |         |           |
|------|---------|--|-------|-------|---------|-----------|
| 4.01 | 8.2     | Providing and fixing 18 mm thick gang saw cut, mirror polished, premoulded and prepolished, machine cut for kitchen platforms, vanity counters, window sills, facias and similar locations of required size, approved shade, colour and texture laid over 20 mm thick base cement mortar 1:4 (1 cement : 4 coarse sand), joints treated with white cement, mixed with matching pigment, epoxy touch ups, including rubbing, curing, moulding and polishing to edges to give high gloss finish etc. complete at all levels. |       |       |         |           |
| a)   | 8.2.1   | Raj Nagar Plain white marble/ Udaipur green marble/ Zebra black marble   |       |       |         |           |
| (i)  | 8.2.1.2 | Area of slab over 0.50 sqm   | Sqm   | 3.00  | 3078.40 | 9,235.20  |
| b)   | 8.2.2   | Granite of any colour and shade  |       |       |         |           |
| i)   | 8.2.2.2 | Area of slab over 0.50 sqm   | sqm   | 3.00  | 5136.30 | 15,408.90 |
| 4.02 | 8.3     | Providing edge moulding to 18 mm thick marble stone counters, Vanities etc., including machine polishing to edge to give high gloss finish etc. complete as per design approved by Engineer-in-Charge.   |       |       |         | -         |
| a)   | 8.3.1   | Marble work  | Metre | 10.00 | 298.60  | 2,986.00  |
| b)   | 8.3.2   | Granite work   | Metre | 0.00  | 418.85  | -         |
| 4.03 | 8.4     | Extra for fixing marble /granite stone, over and above corresponding basic item, in facia and drops of width upto 150 mm with epoxy resin based adhesive, including cleaning etc. complete.  | Metre | 13.00 | 568.55  | 7,391.15  |
| 4.04 | 8.5     | Extra for providing opening of required size & shape for wash basin/ kitchen sink in kitchen platform, vanity counter and similar location in marble/ Granite/ stone work, including necessary holes for pillar taps etc. including moulding, rubbing and polishing of cut edges etc. complete.  | Each  | 1.00  | 978.70  | -         |
| 4.05 | 8.10    | Providing and fixing stone slab with table rubbed, edges rounded and polished, of size 75x50 cm deep and 1.8 cm thick, fixed in urinal partitions by cutting a chase of appropriate width with chase cutter and embedding the stone in the chase with epoxy grout or with cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 6 mm nominal size) as per direction of Engineer-in-charge and finished smooth.  |       |       |         |           |
| a)   | 8.10.1  | White Agaria Marble Stone  | Sqm   | 1.00  | 3500.45 | 3,500.45  |

**Total of sub-head**

**38,521.70**

**5.0 9 WOOD WORK & PVC WORK**

|      |       |   |     |      |           |   |
|------|-------|---|-----|------|-----------|---|
| 5.01 | 9.1   | Providing wood work in frames of doors, windows, clerestory windows and other frames, wrought framed and fixed in position with hold fast lugs or with dash fasteners of required dia & length ( hold fast lugs or dash fastener shall be paid for separately). |     |      |           |   |
| a)   | 9.1.1 | Second class teak wood  | Cum | 0.00 | 130183.05 | - |



|      |            |  |       |       |          |           |
|------|------------|--|-------|-------|----------|-----------|
| 5.01 | 9.12       | Extra for providing frosted glass panes 4 mm thick instead of ordinary float glass panes 4 mm thick in doors, windows and clerestory window shutters. (Area of opening for glass panes excluding portion inside rebate shall be measured).   | Sqm   | 7.00  | 176.40   | 1,234.80  |
| 5.02 | 9.20       | Providing and fixing ISI marked flush door shutters conforming to IS : 2202 (Part I) decorative type, core of block board construction with frame of 1st class hard wood and well matched teak 3 ply veneering with vertical grains or cross bands and face veneers on both faces of shutters.           |       |       |          | -         |
| a)   | 9.20.3     | 25 mm thick (for cupboard) including ISI marked nickel plated bright finished M.S. Piano hinges IS : 3818 marked with necessary screws   | Sqm   | 0.00  | 2464.70  | -         |
| 5.02 | 9.21       | Providing and fixing ISI marked flush door shutters conforming to IS : 2202 (Part I) non-decorative type, core of block board construction with frame of 1st class hard wood and well matched commercial 3 ply veneering with vertical grains or cross bands and face veneers on both faces of shutters: |       |       |          | -         |
| a)   | 9.21.1     | 35 mm thick including ISI marked Stainless Steel butt hinges with necessary screws   | Sqm   | 7.00  | 2392.65  | 16,748.55 |
| 5.03 | 9.23       | Extra for providing lipping with 2nd class teak wood battens 25 mm minimum depth on all edges of flush door shutters (over all area of door shutter to be measured).   | Sqm   | 7.00  | 462.35   | 3,236.45  |
| 5.04 | 9.26       | Extra for cutting rebate in flush door shutters (Total area of the shutter to be measured).  | Sqm   | 7.00  | 106.70   | 746.90    |
| 5.05 | 9.27       | Providing and fixing wire gauge shutters using galvanized M.S. wire gauge of average width of aperture 1.4 mm in both directions with wire of dia 0.63 mm, for doors, windows and clerestory windows with hinges and necessary screws :  |       |       |          |           |
| i)   | 9.27.1     | 35 mm thick shutters   |       |       |          |           |
| a)   | 9.27.1.1.2 | Kiln seasoned and chemically treated hollock wood  | Sqm   | 7.00  | 3,599.20 | 25,194.40 |
| 5.06 | 9.46       | Providing and fixing curtain rods of 1.25 mm thick chromium plated brass plate, with two chromium plated brass brackets fixed with C.P. brass screws and wooden plugs, etc., wherever necessary complete :   |       |       |          |           |
| a)   | 9.46.2     | 20 mm dia  | Metre | 0.00  | 375.25   | -         |
| 5.07 | 9.48       | Providing and fixing M.S. grills of required pattern in frames of windows etc. with M.S. flats, square or round bars etc. including priming coat with approved steel primer all complete.  |       |       |          | -         |
| a)   | 9.48.1     | Fixed to steel windows by welding  | Kg    | 80.00 | 219.10   | 17,528.00 |
| 5.08 | 9.51       | Providing and fixing fly proof galvanized M.S. wire gauge to windows and clerestory windows using wire gauge with average width of aperture 1.4 mm in both directions with wire of dia 0.63 mm all complete.   |       |       |          |           |
| a)   | 9.51.2     | With 12 mm mild steel U beading  | Sqm   | 13.00 | 939.20   | 12,209.60 |
| 5.09 | 9.59       | Providing and fixing ISI marked oxidised M.S. single acting spring hinges with necessary screws etc. complete :  |       |       |          |           |
| a)   | 9.59.1     | 150 mm   | Each  | 6.00  | 291.35   | 1,748.10  |
| 5.10 | 9.63       | Providing and fixing ISI marked oxidised M.S. tower bolt black finish, (Barrel type) with necessary screws etc. complete :   |       |       |          | -         |
| a)   | 9.63.3     | 150x10 mm  | Each  | 20.00 | 59.45    | 1,189.00  |
| 5.11 | 9.66       | Providing and fixing ISI marked oxidised M.S. handles conforming to IS:4992 with necessary screws etc. complete :  |       |       |          | -         |
| a)   | 9.66.2     | 100 mm   | Each  | 20.00 | 32.55    | 651.00    |
| 5.12 | 9.67       | Providing and fixing oxidised M.S. hasp and staple (safety type) conforming to IS : 363 with necessary screws etc. complete :  |       |       |          | -         |
| a)   | 9.67.3     | 90 mm  | Each  | 0.00  | 21.70    | -         |
| 5.12 | 9.68       | Providing and fixing oxidised M.S. casement stays (straight peg type) with necessary screws etc. complete.   |       |       |          |           |
| a)   | 9.68.2     | 250 mm weighing not less than 150 gms  | Each  | 20.00 | 61.05    | 1,221.00  |
| 5.13 | 9.79       | Providing and fixing special quality bright finished brass cupboard or ward robe locks with four levers of approved quality including necessary screws etc. complete.  |       |       |          |           |
| a)   | 9.79.4     | 75 mm  | Each  | 0.00  | 318.10   | -         |

|                          |         |   |       |      |                  |          |
|--------------------------|---------|---|-------|------|------------------|----------|
| 5.13                     | 9.96    | Providing and fixing aluminium sliding door bolts, ISI marked anodised (anodic coating not less than grade AC 10 as per IS : 1868), transparent or dyed to required colour or shade, with nuts and screws etc. complete :   |       |      |                  |          |
| a)                       | 9.96.1  | 300x16 mm   | Each  | 5.00 | 303.25           | 1,516.25 |
| b)                       | 9.96.2  | 250x16 mm   | Each  | 4.00 | 260.60           | 1,042.40 |
| 5.14                     | 9.97    | Providing and fixing aluminium tower bolts, ISI marked, anodised (anodic coating not less than grade AC 10 as per IS : 1868 ) transparent or dyed to required colour or shade, with necessary screws etc. complete :  |       |      |                  |          |
| a)                       | 9.97.2  | 250x10 mm   | Each  | 5.00 | 115.15           | 575.75   |
| b)                       | 9.97.4  | 150x10 mm   | Each  | 7.00 | 82.55            | 577.85   |
| 5.15                     | 9.100   | Providing and fixing aluminium handles, ISI marked, anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour or shade, with necessary screws etc. complete :   |       |      |                  |          |
| a)                       | 9.100.1 | 125 mm  | Each  | 8.00 | 66.25            | 530.00   |
| b)                       | 9.100.2 | 100 mm  | Each  | 5.00 | 59.55            | 297.75   |
| 5.16                     | 9.101   | Providing and fixing aluminium hanging floor door stopper, ISI marked, anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour and shade, with necessary screws etc. complete.  |       |      |                  | -        |
| a)                       | 9.101.2 | Twin rubber stopper   | Each  | 8.00 | 72.35            | 578.80   |
| 5.17                     | 9.111   | Providing and fixing wooden moulded corner beading of triangular shape to the junction of panelling etc. with iron screws, plugs and priming coat on unexposed surface etc. complete 2nd class teak wood.   |       |      |                  | -        |
| a)                       | 9.111.1 | 50x50 mm (base and height)  | Metre | 0.00 | 250.25           | -        |
| 5.17                     | 9.127.2 | Providing and fixing PVC rigid foam sheet 1 mm thick on existing door shutters (bathroom and W.C. doors) using synthetic rubber based adhesive.   | sqm   | 3.00 | 897.30           | 2,691.90 |
| 5.18                     | 9.130   | Providing and fixing cup board shutters with 25 mm thick veneered particle board IS : 3097 marked, exterior grade (Grade I), of approved make, including 2nd class teak wood lipping of 25 mm wide x 12 mm thick with necessary screws and bright finished stainless steel piano hinges, complete as per direction of Engineer-in-Charge. |       |      |                  |          |
| a)                       | 9.130.1 | With decorative veneering on one side and commercial veneering on other side  | Sqm   | 0.00 | 1647.95          | -        |
| <b>Total of sub-head</b> |         |   |       |      | <b>89,518.50</b> |          |

## 6.00 10 STEEL WORK

|      |         |  |    |        |        |           |
|------|---------|--|----|--------|--------|-----------|
| 6.01 | 10.11   | Providing and fixing factory made ISI marked steel glazed doors, windows and ventilators, side /top /centre hung, with beading and all members such as F7D, F4B, K11 B and K12 B etc. complete of standard rolled steel sections, joints mitred and flash butt welded and sash bars tenoned and riveted, including providing and fixing of hinges, pivots, including priming coat of approved steel primer, but excluding the cost of other fittings, complete all as per approved design, (sectional weight of only steel members shall be measured for payment). |    |        |        |           |
| a)   | 10.11.1 | Fixing with 15x3 mm lugs 10 cm long embedded in cement concrete block 15x10x10 cm of C.C. 1:3:6 (1 Cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size)   | Kg | 130.00 | 131.05 | 17,036.50 |
| 6.02 | 10.13   | Providing and fixing T-iron frames for doors, windows and ventilators of mild steel Tee-sections, joints mitred and welded, including fixing of necessary butt hinges and screws and applying a priming coat of approved steel primer.   |    |        |        |           |
| a)   | 10.13.1 | Fixing with 15x3 mm lugs 10 cm long embedded in cement concrete block 15x10x10 cm of C.C. 1:3:6 (1 Cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size)   | Kg | 90.00  | 141.70 | 12,753.00 |
| 6.03 | 10.15   | Providing and fixing M.S. Tubular frames for doors, windows, ventilators and cupboard with rectangular/ L-Type sections, made of 1.60 mm thick M.S. Sheet, joints mitred, welded and grinded finish, with profiles of required size, including fixing of necessary butt hinges and screws and applying a priming coat of approved steel primer.  |    |        |        | -         |

|                          |           |  |       |        |                  |           |
|--------------------------|-----------|--|-------|--------|------------------|-----------|
| a)                       | 10.15.1   | Fixing with 15x3 mm lugs 10 cm long embedded in cement concrete block 15x10x10 cm of C.C. 1:3:6 (1 Cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size)   | Kg    | 0.00   | 137.3            | -         |
| 6.03                     | 10.17     | Providing and fixing M.S. fan clamp type I or II of 16 mm dia M.S. bar, bent to shape with hooked ends in R.C.C. slabs or beams during laying, including painting the exposed portion of loop, all as per standard design complete.  | Each  | 5.00   | 226.00           | 1,130.00  |
| 6.03                     | 10.18     | Providing and fixing circular/ Hexagonal cast iron or M.S. sheet box for ceiling fan clamp, of internal dia 140 mm, 73 mm height, top lid of 1.5 mm thick M.S. sheet with its top surface hacked for proper bonding, top lid shall be screwed into the cast iron/ M.S. sheet box by means of 3.3 mm dia round headed screws, one lock at the corners. Clamp shall be made of 12 mm dia M.S. bar bent to shape as per standard drawing.   | Each  | 5.00   | 220.65           | 1,103.25  |
| 6.04                     | 10.26     | Providing and fixing hand rail of approved size by welding etc. to steel ladder railing, balcony railing, staircase railing and similar works, including applying priming coat of approved steel primer.   |       |        |                  |           |
| a)                       | 10.26.1   | M.S. tube  | Kg    | 140.00 | 196.80           | 27,552.00 |
| 6.05                     | 10.28     | Providing and fixing stainless steel ( Grade 304) railing made of Hollow tubes, channels, plates etc., including welding, grinding, buffing, polishing and making curvature (wherever required) and fitting the same with necessary stainless steel nuts and bolts complete, i/c fixing the railing with necessary accessories & stainless steel dash fasteners, stainless steel bolts etc., of required size, on the top of the floor or the side of waist slab with suitable arrangement as per approval of Engineer-in-charge, (for payment purpose only weight of stainless steel members shall be considered excluding fixing accessories such as nuts, bolts, fasteners etc.). | Kg    | 0.00   | 575.45           | -         |
| 6.05                     | 10.30     | Providing & fixing glass panes with putty and glazing clips in steel doors, windows, clerestory windows, all complete with :   |       |        |                  |           |
| a)                       | 10.30.1   | 4.0 mm thick glass panes   | Sqm   | 20.00  | 1064.65          | 21,293.00 |
| <b>Total of sub-head</b> |           |  |       |        | <b>80,867.75</b> |           |
| <b>7.00</b>              | <b>11</b> | <b>FLOORING</b>  |       |        |                  |           |
| 7.01                     | 11.4      | 52 mm thick cement concrete flooring with concrete hardener topping, under layer 40 mm thick cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) and top layer 12 mm thick cement hardener consisting of mix 1:2 (1 cement hardener mix : 2 graded stone aggregate 6 mm nominal size) by volume, hardening compound mixed @ 2 litre per 50 kg of cement or as per manufacturer's specifications. This includes cost of cement slurry, but excluding the cost of nosing of steps etc. complete.  | Sqm   | 0.00   | 787.50           | -         |
| 7.02                     | 11.6      | Cement plaster skirting up to 30 cm height, with cement mortar 1:3 (1 cement : 3 coarse sand), finished with a floating coat of neat cement.   |       |        |                  |           |
| a)                       | 11.6.1    | 18 mm thick  | Sqm   | 0.00   | 521.15           | -         |
| 7.02                     | 11.13     | Providing and fixing glass strips in joints of terrazo/ cement concrete floors.  |       |        |                  |           |
| a)                       | 11.13.1   | 40 mm wide and 4 mm thick  | Metre | 0.00   | 75.15            | -         |
| 7.01                     | 11.26     | Kota stone slab flooring over 20 mm (average) thick base laid over and jointed with grey cement slurry mixed with pigment to match the shade of the slab, including rubbing and polishing complete with base of cement mortar 1 : 4 (1 cement : 4 coarse sand) :   |       |        |                  |           |
| a)                       | 11.26.1   | 25 mm thick.   | Sqm   | 367.00 | 1948.25          | -         |
| 7.02                     | 11.27     | Kota stone slabs 20 mm thick in risers of steps, skirting, dado and pillars laid on 12 mm (average) thick cement mortar 1:3 (1 cement: 3 coarse sand) and jointed with grey cement slurry mixed with pigment to match the shade of the slabs, including rubbing and polishing complete.  | Sqm   | 65.00  | 2354.70          | -         |
| 7.03                     | 11.31     | Extra for pre finished nosing in treads of steps of Kota stone/ sand stone slab.   | Metre | 76.00  | 191.40           | -         |

|                          |           |   |      |        |         |            |
|--------------------------|-----------|---|------|--------|---------|------------|
| 7.04                     | 11.32     | Extra for Kota stone/ sand stone in treads of steps and risers using single length up to 1.05 metre.  | Sqm  | 28.00  | 44.15   | -          |
| 7.05                     | 8.31      | Providing and fixing 1st quality ceramic glazed wall tiles conforming to IS: 15622 (thickness to be specified by the manufacturer), of approved make, in all colours, shades except burgundy, bottle green, black of any size as approved by Engineer-in-Charge, in skirting, risers of steps and dados, over 12 mm thick bed of cement mortar 1:3 (1 cement : 3 coarse sand) and jointing with grey cement slurry @ 3.3kg per sqm, including pointing in white cement mixed with pigment of matching shade complete.   | Sqm  | 200.00 | 1267.95 | -          |
| 7.06                     | 11.37     | Providing and laying Ceramic glazed floor tiles of size 300x300 mm (thickness to be specified by the manufacturer) of 1st quality conforming to IS : 15622 of approved make in colours such as White, Ivory, Grey, Fume Red Brown, laid on 20 mm thick cement mortar 1:4 (1 Cement : 4 Coarse sand), jointing with grey cement slurry @ 3.3kg/sqm including pointing the joints with white cement and matching pigment etc., complete.  | Sqm  | 20.00  | 1096.55 | -          |
| 7.07                     | 11.41     | Providing and laying vitrified floor tiles in different sizes (thickness to be specified by the manufacturer) with water absorption less than 0.08% and conforming to IS: 15622, of approved make, in all colours and shades, laid on 20mm thick cement mortar 1:4 (1 cement : 4 coarse sand), jointing with grey cement slurry @ 3.3kg/sqm including grouting the joints with white cement and matching pigments etc., complete.   |      |        |         |            |
| a)                       | 11.41.2   | Size of Tile 600x600 mm   | Sqm  | 0.00   | 1500.55 | -          |
| 7.08                     | 11.46     | Providing and laying Vitrified tiles in different sizes (thickness to be specified by manufacturer), with water absorption less than 0.08 % and conforming to I.S. 15622, of approved make, in all colours & shade, in skirting, riser of steps, over 12 mm thick bed of cement mortar 1:3 (1 cement: 3 coarse sand), jointing with grey cement slurry @ 3.3kg/sqm including grouting the joint with white cement & matching pigments etc. complete.  |      |        |         |            |
| a)                       | 11.46.2   | Size of Tile 600x600 mm   | Sqm  | 0.00   | 1545.85 | -          |
| 7.07                     | 16.68     | Providing and laying 60mm thick factory made cement concrete interlocking paver block of M -30 grade made by block making machine with strong vibratory compaction, of approved size, design & shape, laid in required colour and pattern over and including 50mm thick compacted bed of coarse sand, filling the joints with line sand etc. all complete as per the direction of Engineer-in-charge.   | Sqm  | 0.00   | 859.35  | -          |
| <b>Total of sub-head</b> |           |   |      |        |         | -          |
| <b>8.00</b>              | <b>12</b> | <b>ROOFING</b>  |      |        |         |            |
| 8.01                     | 12.22     | Making khurras 45x45 cm with average minimum thickness of 5 cm cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate of 20 mm nominal size) over P.V.C. sheet 1 m x1 m x 400 micron, finished with 12 mm cement plaster 1:3 (1 cement : 3 coarse sand) and a coat of neat cement, rounding the edges and making and finishing the outlet complete.   | Each | 20.00  | 298.25  | 5,965.00   |
| 8.02                     | 12.50     | Providing and fixing pre-coated galvanised iron profile sheets (size, shape and pitch of corrugation as approved by Engineer-in-charge) 0.50 mm (+ 0.05 %) total coated thickness with zinc coating 120 grams per sqm as per IS: 277, in 240 mpa steel grade, 5-7 microns epoxy primer on both side of the sheet and polyester top coat 15-18 microns. Sheet should have protective guard film of 25 microns minimum to avoid scratches during transportation and should be supplied in single length upto 12 metre or as desired by Engineer-in-charge. The sheet shall be fixed using self drilling /self tapping screws of size (5.5x 55 mm) with EPDM seal, complete upto any pitch in horizontal/ vertical or curved surfaces, excluding the cost of purlins, rafters and trusses and including cutting to size and shape wherever required. | Sqm  | 150.00 | 738.65  | 110,797.50 |

|             |           |  |       |        |         |                   |
|-------------|-----------|--|-------|--------|---------|-------------------|
| 8.03        | 12.53     | Providing and Fixing 15 mm thick densified tegular edged eco friendly light weight calcium silicate false ceiling tiles of approved texture of size 595 x 595 mm in true horizontal level, suspended on inter locking metal grid of hot dipped galvanised steel sections (galvanising @ 120 grams per sqm including both side) consisting of main 'T' runner suitably spaced at joints to get required length and of size 24x38 mm made from 0.33 mm thick (minimum) sheet, spaced 1200 mm centre to centre, and cross "T" of size 24x28 mm made out of 0.33 mm (Minimum) sheet, 1200 mm long spaced between main 'T' at 600 mm centre to centre to form a grid of 1200x600 mm and secondary cross 'T' of length 600 mm and size 24 x28 mm made of 0.33 mm thick (Minimum) sheet to be inter locked at middle of the 1200x 600 mm panel to form grid of size 600x600 mm, resting on periphery walls /partitions on a Perimeter wall angle pre-coated steel of size(24x24X3000 mm made of 0.40 mm thick (minimum) sheet with the help of rawl plugs at 450 mm centre to centre with 25 mm long dry wall screws @ 230 mm interval and laying 15 mm thick densified edges calicum silicate ceiling tiles of approved texture in the grid, including. cutting/ making opening for services like diffusers. | Sqm   | 50.00  | 2158.15 | 107,907.50        |
|             |           | <b>Total of sub-head</b>   |       |        |         | <b>224,670.00</b> |
| <b>9.00</b> | <b>13</b> | <b>FINISHING</b>   |       |        |         |                   |
| 9.01        | 13.4      | 12 mm cement plaster of mix  |       |        |         | -                 |
| a)          | 13.4.2    | 1:6 (1 cement: 6 coarse sand)  | Sqm   | 50.00  | 343.65  | 17,182.50         |
|             |           |  |       |        |         | -                 |
| 9.02        | 13.5      | 15 mm cement plaster on rough side of single or half brick wall of mix:  |       |        |         |                   |
| a)          | 13.5.1    | 1:4 (1 cement: 4 coarse sand)  | Sqm   | 400.00 | 318.95  | 127,580.00        |
| b)          | 13.5.2    | 1:6 (1 cement: 6 coarse sand)  | Sqm   | 50.00  | 395.35  | 19,767.50         |
| 9.03        | 13.9      | Cement plaster 1:3 (1 cement: 3 coarse sand) finished with a floating coat of neat cement.   |       |        |         |                   |
| a)          | 13.9.2    | 20 mm Cement Plaster   | Sqm   | 30.00  | 587.20  | 17,616.00         |
| 9.03        | 13.16     | 6mm cement plaster of mix  |       |        |         | -                 |
| a)          | 13.16.1   | 1:3 (1 cement : 3 fine sand)   | Sqm   | 30.00  | 300.45  | 9,013.50          |
|             |           |  |       |        |         | -                 |
| 9.04        | 13.37     | White washing with lime to give an even shade :  |       |        |         |                   |
| a)          | 13.37.1   | New work (three or more coats)   | Sqm   | 50.00  | 39.05   | 1,952.50          |
| 9.05        | 13.41     | Distempering with oil bound washable distemper of approved brand and manufacture to give an even shade :   |       |        |         |                   |
| a)          | 13.41.1   | New work (two or more coats) over and including water thinnable priming coat with cement primer  | Sqm   | 60.00  | 185.65  | 11,139.00         |
| 9.06        | 13.47     | Finishing walls with Premium Acrylic Smooth exterior paint with Silicone additives of required shade:  |       |        |         |                   |
| a)          | 13.47.1   | New work (Two or more coats applied @ 1.43 ltr/10 sqm over and including priming coat of exterior primer applied @ 2.20 kg/10 sqm)   | Sqm   | 60.00  | 171.10  | 10,266.00         |
| 9.07        | 13.50     | Applying priming coat:   |       |        |         |                   |
| a)          | 13.50.2   | With ready mixed pink or Grey primer of approved brand and manufacture on wood work (hard and soft wood)   | Sqm   | 60.00  | 74.65   | 4,479.00          |
| b)          | 13.50.3   | With ready mixed red oxide zinc chromate primer of approved brand and manufacture on steel galvanised iron/ steel works  | Sqm   | 60.00  | 67.40   | 4,044.00          |
| 9.08        | 13.62     | Painting with synthetic enamel paint of approved brand and manufacture to give an even shade :   |       |        |         | -                 |
| a)          | 13.62.1   | Two or more coats on new work  | Sqm   | 60.00  | 226.25  | 13,575.00         |
| 9.09        | 13.65     | Painting with black anti-corrosive bitumastic paint of approved brand and manufacture to give an even shade :  |       |        |         |                   |
| a)          | 13.65.1   | Two or more coats on new work  | Sqm   | 0.00   | 106.05  | -                 |
| 9.10        | 13.73     | Forming groove of uniform size in the top layer of washed stone grit plaster as per approved pattern using wooden battens, nailed to the under layer, including removal of wooden battens, repair to the edges of panels and finishing the groove complete as per specifications and direction of the Engineer-in-charge :   |       |        |         |                   |
| a)          | 13.73.1   | 15 mm wide and 15 mm deep groove   | metre | 60.00  | 75.15   | 4,509.00          |
| 9.11        | 13.80     | Providing and applying white cement based putty of average thickness 1 mm, of approved brand and manufacturer, over the plastered wall surface to prepare the surface even and smooth complete.  | Sqm   | 60.00  | 156.05  | 9,363.00          |
| 9.12        | MR        | Epoxy paint of approved brand and manufacture to give an even shade :  |       |        |         | -                 |

|    |                               |     |       |        |                                       |
|----|-------------------------------|-----|-------|--------|---------------------------------------|
| a) | Two or more coats on old work | Sqm | 60.00 | 123.00 |                                       |
|    | <b>Total of sub-head</b>      |     |       |        | <div>250,487.00</div> <div>0.00</div> |

**ESTIMATE OF FOR CONSTRUCTION OF ADDITIONAL DORMITORY & STAFF  
QUARTERS AT JNV KUPWARA, JAMMU AND KASHMIR**

**SUMMARY OF PLUMBING WORK GIRLS DORMITORY**

| <b>S. No.</b> | <b>DESCRIPTION</b>         | <b>AMOUNT (Rs.)</b> |
|---------------|----------------------------|---------------------|
| 1             | EARTH WORK                 | 3,521.50            |
| 2             | ROOFING                    | 12,195.75           |
| 3             | SANITARY INSTALLATIONS     | 106,434.20          |
| 4             | WATER SUPPLY               | 70,044.30           |
| 5             | SEWARAGE & DRAINAGE        | 67,327.25           |
|               | <b>TOTAL DSR ITEMS</b>     | <b>259,523.00</b>   |
| 6             | NON SCHEDULE ITEMS         | -                   |
|               | <b>TOTAL NON DSR ITEMS</b> | <b>-</b>            |
|               | <b>TOTAL (A+B)</b>         | <b>259,523.00</b>   |
|               | <b>Say</b>                 | <b>2.60 Lakh</b>    |

**ESTIMATE OF FOR CONSTRUCTION OF ADDITIONAL DORMITORY & STAFF QUARTERS AT JNV KUPWARA,**

**PHE COST ESTIMATE OF Girls DORMITORY**

| S. No. | Ref. No      | Description   | Unit  | Qty   | DSR 23 Rate | Amount (Rs.)    |
|--------|--------------|---|-------|-------|-------------|-----------------|
| 1      | 2            | 3   | 4     | 5     | 6           | 7.00            |
| 1.00   | <b>2.00</b>  | <b>EARTH WORK</b>   |       |       |             |                 |
| 1.02   | 2.10         | Excavating trenches of required width for pipes, cables, etc including excavation for sockets, and dressing of sides, ramming of bottoms, depth upto 1.5 m, including getting out the excavated soil, and then returning the soil as required, in layers not exceeding 20 cm in depth, including consolidating each deposited layer by ramming, watering, etc. and disposing of surplus excavated soil as directed, within a lead of 50 m : |       |       |             |                 |
|        | 2.10.1       | All kinds of soil   |       |       |             |                 |
| a)     | 2.10.1.1     | Pipes, cables etc, not exceeding 80 mm dia.   | Metre | 10.00 | 215.60      | -               |
| b)     | 2.10.1.2     | Pipes, cables etc. exceeding 80 mm dia. but not exceeding 300 mm dia  | Metre | 10.00 | 352.15      | 3,521.50        |
| 1.03   | 2.25         | Filling available excavated earth (excluding rock) in trenches, plinth, sides of foundations etc. in layers not exceeding 20cm in depth, consolidating each deposited layer by ramming and watering, lead up to 50 m and lift upto 1.5 m.   | Cum   | 4.00  | 196.00      | -               |
|        |              | <b>Total of sub-head</b>  |       |       |             | <b>3,521.50</b> |
| 2.00   | <b>12.00</b> | <b>ROOFING</b>  |       |       |             |                 |
| 2.01   | 12.41        | Providing and fixing on wall face unplasticised Rigid PVC rain water pipes conforming to IS : 13592 Type A, including jointing with seal ring conforming to IS : 5382, leaving 10 mm gap for thermal expansion, (i) Single socketed pipes.  |       |       |             |                 |
| A)     | 12.41.2      | 110 mm diameter   | Metre | 20.00 | 377.40      | 7,548.00        |
| 2.02   | 12.42        | Providing and fixing on wall face unplasticised - PVC moulded fittings/ accessories for unplasticised Rigid PVC rain water pipes conforming to IS : 13592 Type A, including jointing with seal ring   |       |       |             |                 |
| i)     | 12.42.1      | Coupler   |       |       |             |                 |
| a)     | 12.42.1.2    | 110 mm  | Each  | 5.00  | 136.15      | 680.75          |
| ii)    | 12.42.5      | Bend 87.5°  |       |       |             |                 |
| a)     | 12.42.5.2    | 110 mm bend   | Each  | 5.00  | 150.35      | 751.75          |
| iii)   | 12.42.6      | Shoe (Plain)  |       |       |             |                 |
| a)     | 12.42.6.2    | 110 mm Shoe   | Each  | 5.00  | 131.85      | 659.25          |
| 2.03   | 12.43        | Providing and fixing unplasticised -PVC pipe clips of approved design to unplasticised - PVC rain water pipes by means of 50x50x50 mm hard wood plugs, screwed with M.S. screws of required length, including cutting brick work and fixing in cement mortar 1:4 (1 cement : 4 coarse sand) and making good the wall etc. complete.   |       |       |             |                 |
| a)     | 12.43.2      | 110 mm  | Each  | 6.00  | 371.30      | 2,227.80        |
| 2.04   | 12.44        | Providing and fixing to the inlet mouth of rain water pipe cast iron grating 15 cm diameter and weighing not less than 440 grams.   | Each  | 6.00  | 54.70       | 328.20          |



**Total of sub-head**

**12,195.75**

**3.00 17.00 SANITARY INSTALLATIONS**

|      |           |   |       |      |         |           |  |
|------|-----------|---|-------|------|---------|-----------|--|
| 3.01 | 17.1      | Providing and fixing water closet squatting pan (Indian type W.C. pan ) with 100 mm sand cast Iron P or S trap, 10 litre low level white P.V.C. flushing cistern, including flush pipe, with manually controlled device (handle lever) conforming to IS : 7231, with all fittings and                                       |       |      |         |           |  |
| a)   | 17.1.1    | White Vitreous china Orissa pattern W.C. pan of size 580x440 mm with integral type foot rests   | Each  | 3.00 | 6767.40 | 20,302.20 |  |
| 3.02 | 17.7      | Providing and fixing wash basin with C.I. brackets, 15 mm C.P. brass pillar taps, 32 mm C.P. brass waste of standard pattern, including painting of fittings and brackets, cutting and making good the walls wherever require:  |       |      |         |           |  |
| a)   | 17.7.4    | White Vitreous China Flat back wash basin size 550x 400 mm with single 15 mm C.P. brass pillar tap  | Each  | 1.00 | 1879.20 | 1,879.20  |  |
| 3.03 | 17.35     | Providing and fixing soil, waste and vent pipes.  |       |      |         |           |  |
| a)   | 17.35.1   | 100 mm dia.   |       |      |         |           |  |
| i)   | 17.35.1.2 | Centrifugally cast (spun) iron socket & spigot (S&S) pipe as per IS: 3989   | Metre | 8.00 | 1180.75 | 9,446.00  |  |
| b)   | 17.35.2   | 75mm diameter   |       |      |         | -         |  |
| i)   | 17.35.2.2 | Centrifugally cast (spun) iron socketed pipe as per IS: 3989  | Metre | 8.00 | 1186.00 | 9,488.00  |  |
| 3.04 | 17.37     | Providing and fixing M.S. holder-bat clamps of approved design to Sand Cast iron/cast iron (spun) pipe embedded in and including cement concrete blocks 10x10x10 cm of 1:2:4 mix (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size), including cost of cutting holes and making good the walls etc. : |       |      |         | -         |  |
| a)   | 17.37.1   | For 100 mm dia. pipe  | Each  | 8.00 | 362.85  | 2,902.80  |  |
| b)   | 17.37.2   | For 75 mm dia. pipe   | Each  | 8.00 | 360.00  | 2,880.00  |  |
| 3.05 | 17.38     | Providing and fixing bend of required degree with access door, insertion rubber washer 3 mm thick, bolts and nuts complete.   |       |      |         | -         |  |
| a)   | 17.38.1   | 100 mm  |       |      |         | -         |  |
| i)   | 17.38.1.2 | Sand cast iron S&S as per IS - 3989   | Each  | 3.00 | 705.20  | 2,115.60  |  |
| b)   | 17.38.2   | 75 mm   |       |      |         | -         |  |
| i)   | 17.38.2.2 | Sand cast iron S&S as per IS- 3989  | Each  | 3.00 | 522.80  | 1,568.40  |  |
| 3.06 | 17.39     | Providing and fixing plain bend of required degree.   |       |      |         | -         |  |
| a)   | 17.39.1   | 100 mm  |       |      |         | -         |  |
| i)   | 17.39.1.2 | Sand cast iron S&S as per IS:3989   | Each  | 3.00 | 570.05  | 1,710.15  |  |
| b)   | 17.39.2   | 75 mm   |       |      |         | -         |  |
| i)   | 17.39.2.2 | Sand cast iron S&S as per IS:3989   | Each  | 3.00 | 390.50  | 1,171.50  |  |
| 3.07 | 17.40     | Providing and fixing heel rest sanitary bend  |       |      |         | -         |  |
| a)   | 17.40.1   | 100 mm dia  |       |      |         | -         |  |
| i)   | 17.40.1.2 | Sand cast iron S&S as per IS - 3989   | Each  | 2.00 | 548.70  | 1,097.40  |  |
| b)   | 17.40.2   | 75 mm dia   |       |      |         | -         |  |
| i)   | 17.40.2.2 | Sand cast iron S&S as per IS - 3989   | Each  | 2.00 | 504.30  | 1,008.60  |  |
| 3.08 | 17.43     | Providing and fixing single equal plain junction of required degree with access door, insertion rubber washer 3mm thick, bolts and nuts complete.   |       |      |         | -         |  |
| a)   | 17.43.1   | 100x100x100mm   |       |      |         | -         |  |
| i)   | 17.43.1.2 | Sand cast iron S&S as per IS - 3989   | Each  | 3.00 | 925.70  | 2,777.10  |  |
| b)   | 17.43.2   | 75x75x75mm  |       |      |         | -         |  |
| i)   | 17.43.2.2 | Sand cast iron S&S as per IS - 3989   | Each  | 3.00 | 665.05  | 1,995.15  |  |

|      |           |   |       |       |         |  |           |
|------|-----------|---|-------|-------|---------|--|-----------|
| 3.09 | 17. 44    | Providing and fixing single equal plain junction of required degree   |       |       |         |  | -         |
| a)   | 17.44.1   | 100x100x100mm   |       |       |         |  | -         |
| i)   | 17.44.1.2 | Sand cast iron S&S as per IS - 3989   | Each  | 2.00  | 811.90  |  | 1,623.80  |
| b)   | 17.44.2   | 75x75x75mm  |       |       |         |  | -         |
| i)   | 17.44.2.2 | Sand cast iron S&S as per IS - 3989   | Each  | 2.00  | 561.20  |  | 1,122.40  |
| 3.10 | 17. 55    | Providing and fixing door piece, insertion rubber washer 3mm thick,   |       |       |         |  | -         |
| a)   | 17.55.1   | 100 mm  |       |       |         |  | -         |
| i)   | 17.55.1.2 | Sand cast iron S&S as per IS - 3989   | Each  | 3.00  | 683.85  |  | 2,051.55  |
| b)   | 17.55.2   | 75 mm   |       |       |         |  | -         |
| i)   | 17.55.2.2 | Sand cast iron S&S as per IS - 3989   | Each  | 3.00  | 537.00  |  | 1,611.00  |
| 3.11 | 17. 56    | Providing and fixing terminal guard :   |       |       |         |  | -         |
| a)   | 17.56.1   | 100 mm  |       |       |         |  | -         |
| i)   | 17.56.1.2 | Sand cast iron S&S as per IS - 3989   | Each  | 3.00  | 506.00  |  | 1,518.00  |
| b)   | 17.56.2   | 75 mm   |       |       |         |  | -         |
| i)   | 17.56.2.2 | Sand cast iron S&S as per IS - 3989   | Each  | 3.00  | 404.75  |  | 1,214.25  |
| 3.12 | 17. 57    | Providing and fixing collar :   |       |       |         |  | -         |
| a)   | 17.57.1   | 100 mm  |       |       |         |  | -         |
| i)   | 17.57.1.2 | Sand cast iron S&S as per IS - 3989   | Each  | 5.00  | 513.15  |  | 2,565.75  |
| b)   | 17.57.2   | 75 mm   |       |       |         |  | -         |
| i)   | 17.57.2.2 | Sand cast iron S&S as per IS - 3989   | Each  | 5.00  | 362.05  |  | 1,810.25  |
| 3.13 | 17. 58    | Providing lead caulked joints to sand cast iron/centrifugally cast (spun) iron pipes and fittings of diameter :   |       |       |         |  | -         |
| a)   | 17.58.1   | 100 mm  | Each  | 20.00 | 622.50  |  | 12,450.00 |
| b)   | 17.58.2   | 75 mm   | Each  | 20.00 | 526.25  |  | 10,525.00 |
| 3.14 | 17. 59    | Providing and fixing M.S. stays and clamps for sand cast iron/centrifugally cast (spun) iron pipes of diameter :  |       |       |         |  | -         |
| a)   | 17.59.1   | 100 mm  | Each  | 3.00  | 139.70  |  | 419.10    |
| b)   | 17.59.2   | 75 mm   | Each  | 3.00  | 90.30   |  | 270.90    |
| 3.15 | 17.60     | Providing and fixing trap of self cleansing with screwed down or hinged grating with or without vent arm complete, including cost of  |       |       |         |  | -         |
| a)   | 17.60.1   | 100 mm inlet and 100 mm outlet  |       |       |         |  | -         |
| i)   | 17.60.1.1 | Sand cast iron S&S as per IS: 3989.   | Each  | 3.00  | 1996.50 |  | 5,989.50  |
| 3.16 | 17.61     | Cutting chases in brick masonry walls for following diameter sand cast iron/ centrifugally cast (spun) iron pipes and making good the same with cement concrete 1:3:6 ( 1 cement : 3 coarse sand :6 graded stone aggregate 12.5 mm nominal size), including necessary plaster |       |       |         |  | -         |
| a)   | 17.61.1   | 100 mm dia  | Metre | 3.00  | 713.20  |  | 2,139.60  |
| 3.17 | 17.65     | Painting sand cast iron/ centrifugally cast (spun) iron soil, waste vent pipes and fittings with two coats of synthetic enamel paint of any colour such as chocolate grey, or buff etc. over a coat of primer (of approved quality) for new work :                            |       |       |         |  | -         |
| a)   | 17.65.1   | 100 mm diameter pipe  | Metre | 2.00  | 82.80   |  | 165.60    |
| b)   | 17.65.2   | 75 mm diameter pipe   | Metre | 2.00  | 62.95   |  | 125.90    |
| 3.18 | 17.69     | Providing and fixing PTMT Waste Coupling for wash basin and sink, of approved quality and colour.   |       |       |         |  | -         |
| a)   | 17.69.2   | Waste coupling 38 mm dia of 83 mm length and 77mm breadth, weighing not less than 60 gms  | Each  | 1.00  | 122.40  |  | 122.40    |
| 3.19 | 17.70     | Providing and fixing PTMT Bottle Trap for Wash basin and sink.  |       |       |         |  | -         |

|                          |              |  |       |       |        |                   |   |
|--------------------------|--------------|--|-------|-------|--------|-------------------|---|
| a)                       | 17.70.1      | Bottle trap 31mm single piece moulded with height of 270 mm, effective length of tail pipe 260 mm from the centre of the waste coupling, 77 mm breadth with 25 mm minimum water seal, weighing not less than 260 gms   | Each  | 1.00  | 367.10 | 367.10            | - |
| <b>Total of sub-head</b> |              |  |       |       |        | <b>106,434.20</b> |   |
| 4.00                     | <b>18.00</b> | <b>WATER SUPPLY</b>  |       |       |        |                   | - |
| 4.01                     | 18.7         | Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply, including all CPVC plain & brass threaded fittings, including fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and testing of joints complete as per direction of Engineer in Charge.   |       |       |        |                   | - |
|                          |              | <b>Internal work - Exposed on wall</b>   |       |       |        |                   | - |
| a)                       | 18.7.2       | 20 mm nominal outer dia Pipes  | Metre | 2.50  | 335.00 | 837.50            |   |
| b)                       | 18.7.3       | 25 mm nominal outer dia Pipes  | Metre | 3.00  | 401.55 | 1,204.65          |   |
| c)                       | 18.7.4       | 32 mm nominal outer dia Pipes  | Metre | 6.00  | 518.75 | 3,112.50          |   |
| 4.02                     | 18.8         | Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply, including all CPVC plain & brass threaded fittings, i/c fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and the cost of cutting chases and making good the same including testing of joints complete as per direction of Engineer in Charge. |       |       |        |                   | - |
|                          |              | Concealed work, including cutting chases and making good the walls etc.  |       |       |        |                   | - |
| a)                       | 18.8.1       | 15 mm nominal outer dia Pipes  | Metre | 6.00  | 497.80 | 2,986.80          |   |
| b)                       | 18.8.2       | 20 mm nominal outer dia Pipes  | Metre | 5.00  | 537.60 | 2,688.00          |   |
| c)                       | 18.8.3       | 25 mm nominal outer dia Pipes  | Metre | 10.00 | 627.25 | 6,272.50          |   |
| d)                       | 18.8.4       | 32 mm nominal outer dia Pipes  | Metre | 4.00  | 739.30 | 2,957.20          |   |
| 4.03                     | 18.9         | Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply including all CPVC plain & brass threaded fittings This includes jointing of pipes & fittings with one step CPVC solvent cement, trenching, refilling & testing of joints complete as per direction of Engineer in Charge.  |       |       |        |                   | - |
| a)                       | 18.9.2       | 20 mm nominal outer dia Pipes  | Metre | 10.00 | 274.30 | 2,743.00          |   |
| b)                       | 18.9.3       | 25 mm nominal outer dia Pipes  | Metre | 5.00  | 355.40 | 1,777.00          |   |
| c)                       | 18.9.4       | 32 mm nominal outer dia Pipes  | Metre | 10.00 | 438.60 | 4,386.00          |   |
| 4.04                     | 18.13        | Making connection of G.I. distribution branch with G.I. main of following sizes by providing and fixing tee, including cutting and threading the pipe etc. complete :  |       |       |        |                   | - |
| a)                       | 18.13.1      | 25 to 40 mm nominal bore   | Each  | 1.00  | 911.90 | 911.90            |   |
| 4.05                     | 18.16        | Providing and fixing brass stop cock of approved quality :   |       |       |        |                   | - |
| a)                       | 18.16.1      | 15 mm nominal bore   | Each  | 5.00  | 353.25 | 1,766.25          |   |
| b)                       | 18.16.2      | 20 mm nominal bore   | Each  | 3.00  | 379.20 | 1,137.60          |   |
| 4.06                     | 18.17        | Providing and fixing gun metal gate valve with C.I. wheel of approved quality (screwed end) :  |       |       |        |                   | - |
| a)                       | 18.17.1      | 25mm nominal bore  | Each  | 5.00  | 622.40 | 3,112.00          |   |
| b)                       | 18.17.2      | 32mm nominal bore  | Each  | 3.00  | 689.60 | 2,068.80          |   |
| c)                       | 18.17.3      | 40mm nominal bore  | Each  | 3.00  | 826.10 | 2,478.30          |   |

|       |           |  |       |         |         |                  |
|-------|-----------|--|-------|---------|---------|------------------|
| 4.07  | 18.18     | Providing and fixing ball valve (brass) of approved quality, High or low pressure, with plastic floats complete :  |       |         |         | -                |
| a)    | 18.18.3   | 25 mm nominal bore   | Each  | 2.00    | 464.05  | 928.10           |
|       |           |  |       |         |         | -                |
| 4.08  | 18.19     | Providing and fixing gun metal non-return valve of approved quality (screwed end)  |       |         |         | -                |
| a)    | 18.19.1   | 25 mm nominal bore   |       |         |         |                  |
| (i)   | 18.19.1.2 | Vertical   | Each  | 1.00    | 624.10  | 624.10           |
| b)    | 18.19.2   | 32 mm nominal bore   |       |         |         |                  |
| (ii)  | 18.19.2.2 | Vertical   | Each  | 1.00    | 850.25  | 850.25           |
| c)    | 18.19.3   | 40 mm nominal bore   |       |         |         | -                |
| (iii) | 18.19.3.2 | Vertical   | Each  | 1.00    | 1134.70 | 1,134.70         |
|       |           |  |       |         |         | -                |
| 4.09  | 18.20     | Providing and fixing brass ferrule with C.I. mouth cover including boring and tapping the main :   |       |         |         | -                |
| a)    | 18.20.3   | 25 mm nominal bore   | Each  | 3.00    | 486.80  | 1,460.40         |
|       |           |  |       |         |         | -                |
| 4.10  | 18.21     | Providing and fixing uplasticised PVC connection pipe with brass unions :  |       |         |         | -                |
| a)    | 18.21.2   | 45 cm length   |       |         |         | -                |
| i)    | 18.21.2.1 | 15 mm nominal bore   | Each  | 4.00    | 97.75   | 391.00           |
|       |           |  |       |         |         | -                |
| 4.12  | 18.48     | Providing and placing on terrace (at all floor levels) polyethylene water storage tank, IS : 12701 marked, with cover and suitable locking arrangement and making necessary holes for inlet, outlet and Rectangular tank   | Lite  | 1000.00 | 11.00   | 11,000.00        |
| a)    | 18.48B    |  |       |         |         | -                |
| 4.13  | 18.49     | Providing and fixing C.P. brass bib cock of approved quality conforming to IS:8931 :   |       |         |         | -                |
| a)    | 18.49.1   | 15 mm nominal bore   | Each  | 12.00   | 506.80  | 6,081.60         |
|       |           |  |       |         |         | -                |
| 4.14  | 18.51     | Providing and fixing C.P. brass long body bib cock of approved quality conforming to IS standards and weighing not less than 690 gms.  |       |         |         |                  |
| a)    | 18.51.1   | 15 mm nominal bore   | Each  | 2.00    | 798.95  | 1,597.90         |
| 4.15  | 18.52     | Providing and fixing C.P. brass stop cock (concealed) of standard design and of approved make conforming to IS:8931.   |       |         |         | -                |
| a)    | 18.52.1   | 15 mm nominal bore.  | Each  | 5.00    | 670.45  | 3,352.25         |
|       |           |  |       |         |         | -                |
|       |           |  |       |         |         | -                |
| 4.17  | 18.58     | Providing and fixing PTMT grating of approved quality and colour.  |       |         |         | -                |
| a)    | 18.58.1   | Circular type.   |       |         |         | -                |
| i)    | 18.58.1.1 | 100 mm nominal dia.  | Each  | 10.00   | 37.60   | 376.00           |
|       |           |  |       |         |         | -                |
| 4.18  | 18.77     | Cutting holes up to 15x15 cm in R.C.C. floors and roofs for passing drain pipe etc. and repairing the hole after insertion of drain pipe etc. with cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size), including finishing complete so as to make it leak proof. | Each  | 4.00    | 452.00  | 1,808.00         |
|       |           |  |       |         |         | -                |
|       |           | <b>Total of sub-head</b>   |       |         |         | <b>70,044.30</b> |
| 5.00  | <b>19</b> | <b>SEWAGE &amp; DRAINAGE</b>   |       | 0.00    | 0.00    | -                |
| 5.01  | 19.1      | Providing, laying and jointing glazed stoneware pipes class SP-1 with stiff mixture of cement mortar in the proportion of 1:1 (1 cement : 1 fine sand) including testing of joints etc. complete :   |       |         |         |                  |
| a)    | 19.1.1    | 100 mm diameter  | Metre | 7.00    | 443.60  | 3,105.20         |

|                          |           |  |       |      |          |                  |
|--------------------------|-----------|--|-------|------|----------|------------------|
| b)                       | 19.1.2    | 150 mm diameter  | Metre | 6.00 | 695.80   | 4,174.80         |
| 5.02                     | 19.2      | Providing and laying cement concrete 1:5:10 (1 cement : 5 coarse sand : 10 graded stone aggregate 40 mm nominal size) all-round S.W. pipes including bed concrete as per standard design :   |       |      |          | -                |
| a)                       | 19.2.1    | 100 mm diameter S.W. pipe  | Metre | 7.00 | 964.75   | 6,753.25         |
| b)                       | 19.2.2    | 150 mm diameter S.W. pipe  | Metre | 6.00 | 1179.85  | 7,079.10         |
| 5.03                     | 19.4      | Providing and fixing square-mouth S.W. gully trap class SP-1 complete with C.I. grating brick masonry chamber with water tight C.I. cover with frame of 300 x300 mm size (inside) the weight of cover to be not less than 4.50 kg and frame to be not less than 2.70   |       |      |          | -                |
| a)                       | 19.4.2    | 150 x 100 mm size P type   |       |      |          | -                |
| i)                       | 19.4.2.1  | With common burnt clay F.P.S. (non modular) bricks of class designation 7.5  | Each  | 2.00 | 2734.20  | 5,468.40         |
| 5.04                     | 19.7      | Constructing brick masonry manhole in cement mortar 1:4 ( 1 cement : 4 coarse sand ) with R.C.C. top slab with 1:2:4 mix (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size), foundation concrete 1:4:8 mix (1 cement : 4 coarse sand : 8 graded stone aggregate 40 mm nominal size), inside plastering 12 mm thick with cement mortar 1:3 (1 cement : 3 coarse sand) finished with floating coat of neat cement and making channels in cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) finished with a floating coat of neat cement complete as per standard design : |       |      |          | -                |
| a)                       | 19.7.1    | Inside size 90x80 cm and 45 cm deep including C.I. cover with frame (light duty) 455x610 mm internal dimensions, total weight of cover and frame to be not less than 38 kg (weight of cover 23 kg and weight of frame 15 kg) :   |       |      |          | -                |
| i)                       | 19.7.1.1  | With common burnt clay F.P.S. (non modular) bricks of class designation 7.5  | Each  | 2.00 | 12770.55 | 25,541.10        |
| 5.05                     | 19.8      | Extra for depth for manholes :   |       |      |          | -                |
| a)                       | 19.8.1    | Size 90x80 cm  |       |      |          | -                |
| i)                       | 19.8.1.1  | With common burnt clay F.P.S. (non modular) bricks of class designation 7.5  | Metre | 1.00 | 8825.40  | 8,825.40         |
| 5.06                     | 19.15.2   | Providing M.S. foot rests including fixing in manholes with 20x20x10cm cement concrete blocks 1:3:6 (1 cement : 3 coarse sand : 6graded stone aggregate 20 mm nominalsize) as per standard design :  | Each  | 4.00 | 496.50   | 1,986.00         |
| 5.07                     | 19.19     | Providing and fixing in position pre-cast R.C.C. manhole cover and frame of required shape and approved quality  |       |      |          | -                |
| a)                       | 19.19.2   | MD - 10  |       |      |          | -                |
| i)                       | 19.19.2.1 | Square shape 450 mm internal dimension   | Each  | 2.00 | 1386.55  | 2,773.10         |
| 5.08                     | 19.21     | Making connection of drain or sewer line with existing manhole including breaking into and making good the walls, floors with cement concrete 1:2:4 mix (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) cement plastered on both sides with cement mortar 1:3 (1 cement : 3 coarse sand), finished with a floating coat of neat cement and making necessary channels for the drain etc. complete :  |       |      |          | -                |
| a)                       | 19.21.1   | For pipes 100 to 250 mm diameter   | Each  | 2.00 | 810.45   | 1,620.90         |
| <b>Total of sub-head</b> |           |  |       |      |          | <b>67,327.25</b> |

**ESTIMATE OF FOR CONSTRUCTION OF ADDITIONAL DORMITORY & STAFF QUARTERS AT****ABSTRACT**

| <b>SUB<br/>HEAD</b> | <b>PARTICULARS</b>           | <b>AMOUNT<br/>SR ITEMS</b> | <b>AS PER<br/>NS ITEMS</b> |
|---------------------|------------------------------|----------------------------|----------------------------|
| <b>I</b>            | WIRING                       | 44,060.00                  | -                          |
| <b>II</b>           | SUPPLY OF FITTINGS AND FANS  | 4,619.00                   | 91,886.90                  |
| <b>III</b>          | BOARDS & DISTRIBUTION BOARDS | 38,136.00                  | -                          |
| <b>IV</b>           | EARTHING                     | 11,125.00                  | -                          |
| <b>V</b>            | STREET LIGHTING ON BUILDING  | 6,378.00                   | 8,257.25                   |
|                     | <b>TOTAL</b>                 | <b>104,318.00</b>          | <b>100,144.15</b>          |
|                     | <b>Say in Lacs</b>           | <b>1.04</b>                | <b>1.00</b>                |

**ESTIMATE OF FOR CONSTRUCTION OF ADDITIONAL DORMITORY & STAFF QUARTERS AT JNV KUPWARA, JAMMU AND KASHMIR**

**Cost Estimate of Girls Dormitory**

(All Amount in Rs.)

| Sl. No. | DSR-2022 | DESCRIPTION  | UNIT  | QTY.  | RATE (AS PER SR) | RATE (AS PER NS) | AMOUNT (SR ITEMS) | AMOUNT (NS ITEMS) |
|---------|----------|--|-------|-------|------------------|------------------|-------------------|-------------------|
| 1.00    |          | <b>SUBHEAD - I - WIRING</b>  |       |       |                  |                  |                   |                   |
| 1.01    | 1.10     | Wiring for light point/ fan point/ exhaust fan point/ call bell point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable in surface / recessed medium class PVC conduit, with modular switch, modular plate, suitable GI box and earthing the point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable etc. as required. |       |       |                  |                  |                   |                   |
| a)      | 1.10.3   | Group C  | Each  | 8.00  | 1467.00          |                  | 11736.00          | 0.00              |
| 1.02    | 1.12     | Wiring for light/ power plug with 2X4 sq. mm FRLS PVC insulated copper conductor single core cable in surface/ recessed medium class PVC conduit alongwith 1 No. 4 sq. mm FRLS PVC insulated copper conductor single core cable for loop earthing as required.   | Metre | 10.00 | 334.00           |                  | 3340.00           | 0.00              |
| 1.03    | 1.6      | Wiring for light/ power plug with 4X4 sq. mm FRLS PVC insulated copper conductor single core cable in surface/ recessed steel conduit alongwith 2 Nos. 4 sq. mm FRLS PVC insulated copper conductor single core cable for loop earthing as required.   | Metre | 10.00 | 662.00           |                  | 6620.00           | 0.00              |
| 1.04    | 1.27     | Supplying and fixing following size/ modules, GI box alongwith modular base & cover plate for modular switches in recess etc. as required.   | Each  | 10.00 | 343.00           |                  | 3430.00           | 0.00              |
| a)      | 1.27.3   | 4 Module (125 mmX75 mm)  |       |       |                  |                  |                   |                   |
| 1.05    | 1.24     | Supplying and fixing following modular switch/ socket on the existing modular plate & switch box including connections but excluding modular plate etc. as required.   |       |       |                  |                  |                   |                   |
| a)      | 1.24.3   | 15/16 A switch   | Each  | 5.00  | 156.00           |                  | 780.00            | 0.00              |
| b)      | 1.24.4   | 3 pin 5/6 A socket outlet  | Each  | 5.00  | 122.00           |                  | 610.00            | 0.00              |
| c)      | 1.24.7   | TV antenna socket outlet   | Each  | 5.00  | 148.00           |                  | 740.00            | 0.00              |
| 1.06    | 1.7      | Wiring for circuit/ submain wiring alongwith earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface/ recessed steel conduit as required.   |       |       |                  |                  |                   |                   |
| a)      | 1.7.1    | 2 X 1.5 sq. mm + 1 X 1.5 sq. mm earth wire   | Metre | 5.00  | 327.00           |                  | 1635.00           | 0.00              |
| b)      | 1.7.4    | 2 X 6 sq. mm + 1 X 6 sq. mm earth wire   | Metre | 5.00  | 589.00           |                  | 2945.00           | 0.00              |
| c)      | 1.7.5    | 2 X 10 sq. mm + 1 X 6 sq. mm earth wire  | Metre | 5.00  | 710.00           |                  | 3550.00           | 0.00              |
| d)      | 1.7.8    | 4 X 4 sq. mm + 2 X 4 sq. mm earth wire   | Metre | 5.00  | 677.00           |                  | 3385.00           | 0.00              |
| 1.07    | 1.19     | Supplying and drawing co-axial TV cable RG-6 grade, 0.7 mm solid copper conductor PE insulated, shielded with fine tinned copper braid and protected with PVC sheath in the existing surface/ recessed steel/ PVC conduit as required.   | Metre | 10.00 | 47.00            |                  | 470.00            | 0.00              |
| 1.08    | 1.20     | Supplying and fixing of following sizes of steel conduit along with accessories in surface/recess including painting in case of surface conduit, or cutting the wall and making good the same in case of recessed conduit as required.   |       |       |                  |                  |                   |                   |
| a)      | 1.20.2   | 25 mm  | Metre | 10.00 | 256.00           |                  | 2560.00           | 0.00              |
| 1.09    | 1.27     | Supplying and fixing following size/ modules, GI box alongwith modular base & cover plate for modular switches in recess etc. as required.   |       |       |                  |                  |                   |                   |
| a)      | 1.27.1   | 1 or 2 Module (75 mmX75 mm)  | Each  | 3.00  | 298.00           |                  | 894.00            | 0.00              |
| 1.10    | 1.21     | Supplying and fixing of following sizes of medium class PVC conduit along with accessories in surface/recess including cutting the wall and making good the same in case of recessed conduit as required.  |       |       |                  |                  |                   |                   |
| a)      | 1.21.1   | 20 mm  | Metre | 5.00  | 128.00           |                  | 640.00            |                   |
| b)      | 1.21.2   | 25 mm  | Metre | 5.00  | 145.00           |                  | 725.00            |                   |
|         |          | <b>TOTAL OF SUBHEAD - I</b>  |       |       |                  |                  | <b>44060.00</b>   | <b>0.00</b>       |
| 2.00    |          | <b>SUBHEAD - II - SUPPLY &amp; INSTALLATION OF FITTINGS</b>  |       |       |                  |                  |                   |                   |
| 2.01    | M . R    | Supplying of following box type Fl. fitting made out of CRCA sheet finished in antirust treated non-yellowing super white stove enamelled paint duly wired with copper wound heavy duty choke starter holder, starter but without lamp complete etc. as reqd.  |       |       |                  |                  |                   |                   |

|      |        |  |      |      |        |         |                |                 |
|------|--------|--|------|------|--------|---------|----------------|-----------------|
| a)   |        | Mounting rail for TLED lamps 1600 Lumens (TMC 501 P 1xT-LED with Essential LED 18W Tube)   | Each | 5.00 |        | 585.35  | 0.00           | 2926.75         |
| b)   |        | Sereno 42 watt 2950 lumens philips SP824 P LED 30S-5000 GR OA  | Each | 5.00 |        | 9366.25 | 0.00           | 46831.25        |
| 2.02 | M . R  | Supplying of wall mounted suitable for 1300 Lumens complete with ballast & accessories such as wire guard etc. complete as required.   |      |      |        |         |                |                 |
| a)   |        | 15W Astra Surface & wall mounted 1300 Lumens ( Philips BN150W LED13S-6500 PSE OD GR )  | Each | 3.00 |        | 2458.65 | 0.00           | 7375.95         |
| 2.03 | M.R    | Supplying of wall bracket light fittings suitable for 11 / 13 W CFL lamp. The fitting shall be made up of M.S. powder coated provided with integral ballast, frosted glass and 1 no. 11 / 13 W lamp duly wired upto the connector block complete as required. (Decon Cat. No.05AAM)                                      | Each | 5.00 |        | 1170.80 | 0.00           | 5854.00         |
| 2.04 | M.R    | Supplying of ceiling light fittings suitable for 1 x 15/20 W LED lamp. The fitting shall be made up of M.S. powder coated provided with electronic ballast, 1 no. 15/20 W LED lamp duly wired upto the connector block etc. complete as required.  |      |      |        |         |                |                 |
|      |        | Cirrus Mini Pro 15 / 20 watt & 1100 /1600 Lumens (Philips SM200C LED11S 6500 PSU OD WH)  | Each | 5.00 |        | 2868.45 | 0.00           | 14342.25        |
| 2.05 | M.R.   | Supplying of bulk head fittings suitable for 10 W LED lamp complete with ballast & accessories such as glass, wire guard, 60 W CFL lamp etc. complete as required.   |      |      |        |         |                |                 |
|      |        | Endural LED-Bulkhead, 10 W, 600 lumen Such as (Philips WT202W LED6S CW PSU S2 PC)  | Each | 2.00 |        | 1697.60 | 0.00           | 3395.20         |
| 2.06 | M . R  | Supplying of exhaust fan, all complete with mounting ring frame i/c bracket, but without regulator with shutters in the following sizes. (G.E. ALSTHOM, KHAITAN & HAVELL'S COMPANY)  |      |      |        |         |                |                 |
| a)   | a)     | 300 mm 4 Pole  | Each | 3.00 |        | 1639.10 | 0.00           | 4917.30         |
| 2.07 | M . R  | Supplying of 1400 mm sweep A.C. electric Ceiling fans, capacitor type with double ball bearing complete with 300 mm down rod, canopies, shackles, blades, but without regulator suitable for operation on 230 / 240 Volts, 50 Hz, single phase, A.C. supply. (CROMPTON, KHAITAN & HAVELL'S COMPANY)                      | Each | 3.00 |        | 2081.40 | 0.00           | 6244.20         |
| 2.08 | 1.25   | Supplying and fixing two module stepped type electronic fan regulator on the existing modular plate switch box including connections but excluding modular plate etc. as required.   | Each | 3.00 | 369.00 |         | 1107.00        | 0.00            |
| 2.09 | 1.45   | Installation, testing and commissioning of ceiling fan, including wiring the down rods of standard length (upto 30 cm) with 1.5 sq. mm FRLS PVC insulated, copper conductor, single core cable, including providing and fixing phenolic laminated sheet cover on the fan box etc. as required.                           | Each | 3.00 | 339.00 |         | 1017.00        | 0.00            |
| 2.10 | 1.41   | Installation, testing and commissioning of pre-wired, Light Fixture / compact fluorescent fitting of all types, complete with all accessories and tube/lamp etc. directly on ceiling/ wall, including connections with 1.5 sq. mm FRLS PVC insulated, copper conductor, single core cable and earthing etc. as required. | Each | 4.00 | 206.00 |         | 824.00         | 0.00            |
| 2.11 | 1.50   | Installation of exhaust fan in the existing opening, including making good the damage, connection, testing, commissioning etc. as required.  |      |      |        |         |                |                 |
| a)   | 1.50.1 | Upto 450 mm sweep  | Each | 2.00 | 450.00 |         | 900.00         | 0.00            |
| 2.12 | 1.51   | Extra for fixing the louvers/ shutters complete with frame for a exhaust fan of all sizes.   | Each | 2.00 | 207.00 |         | 414.00         | 0.00            |
| 2.13 | 1.35   | Installation, testing and commissioning of wall bracket /ceiling fittings of all sizes and shapes containing upto two GLS/CFL/ LED lamps per fitting, complete with all accessories including connections etc. as required.  | Each | 3.00 | 119.00 |         | 357.00         | 0.00            |
| 2.14 | 1.38   | Supplying and fixing call bell/ buzzer suitable for single phase, 230 V, complete as required.   | Each | 0.00 | 99.00  |         | 0.00           | 0.00            |
|      |        | <b>TOTAL OF SUBHEAD - II.</b>  |      |      |        |         | <b>4619.00</b> | <b>91886.90</b> |
| 3.00 |        | <b>SUBHEAD - III - DISTRIBUTION BOARD</b>  |      |      |        |         |                |                 |



|      |        |   |       |       |         |         |                 |             |
|------|--------|---|-------|-------|---------|---------|-----------------|-------------|
| 3.01 | 2.4    | Supplying and fixing following way, horizontal type three pole and neutral, sheet steel, MCB distribution board, 415 V, on surface/ recess, complete with tinned copper bus bar, neutral bus bar, earth bar, din bar, interconnections, powder painted including earthing etc. as required. (But without MCB/RCCB/ Isolator)                          |       |       |         |         |                 |             |
| a)   | 2.4.2  | 6 way (4 + 18), Double door   | Each  | 2.00  | 4974.00 |         | 9948.00         | 0.00        |
| 3.02 | 2.13   | Supplying and fixing following rating, four pole, 415 V, isolator in the existing MCB DB complete with connections, testing and commissioning etc. as required.   |       |       |         |         |                 |             |
| a)   | 2.13.3 | 100 A   | Each  | 2.00  | 1227.00 |         | 2454.00         | 0.00        |
| 3.03 | 2.15   | Supplying and fixing following rating, four pole, (three phase and neutral), 415 V, residual current circuit breaker (RCCB), having a sensitivity current 30 mA in the existing MCB DB complete with connections, testing and commissioning etc. as required.   |       |       |         |         |                 |             |
| a)   | 2.15.3 | 63 A  | Each  | 2.00  | 2872.00 |         | 5744.00         | 0.00        |
| 3.04 | 2.12   | Supplying and fixing following rating, double pole, 240 V, isolator in the existing MCB DB complete with connections, testing and commissioning etc. as required.   |       |       |         |         |                 |             |
| a)   | 2.12.1 | 40 amps   | Each  | 2.00  | 435.00  |         | 870.00          | 0.00        |
| 3.05 | 2.3    | Supplying and fixing following way, single pole and neutral, sheet steel, MCB distribution board, 240 volts, on surface/ recess, complete with tinned copper bus bar, neutral bus bar, earth bar, din bar, interconnections, powder painted including earthing etc. as required. (But without MCB/RCCB/Isolator)                                      |       |       |         |         |                 |             |
| a)   | 2.3.3  | 12 way , Double door  | Each  | 2.00  | 2053.00 |         | 4106.00         | 0.00        |
| b)   | 2.3.4  | 16 way, Double door   | Each  | 2.00  | 2453.00 |         | 4906.00         | 0.00        |
| 3.06 | 2.14   | Supplying and fixing following rating, double pole, (single phase and neutral), 240 V, residual current circuit breaker (RCCB), having a sensitivity current 30 mA in the existing MCB DB complete with connections, testing and commissioning etc. as required.  |       |       |         |         |                 |             |
| (a)  | 2.14.1 | 25 A  | Each  | 2.00  | 2028.00 |         | 4056.00         | 0.00        |
| (b)  | 2.14.2 | 40 A  | Each  | 2.00  | 2642.00 |         | 5284.00         | 0.00        |
| 3.07 | 2.10   | Supplying and fixing 5 A to 32 A rating, 240/415 V, 10 kA, "C" curve, miniature circuit breaker suitable for inductive load of following poles in the existing MCB DB complete with connections, testing and commissioning etc. as required.  |       |       |         |         |                 |             |
| a)   | 2.10.1 | Single pole   | Each  | 3.00  | 256.00  |         | 768.00          | 0.00        |
|      |        | <b>TOTAL OF SUBHEAD - III.</b>  |       |       |         |         | <b>38136.00</b> | <b>0.00</b> |
| 4.00 |        | <b>SUBHEAD - IV - EARTHING</b>  |       |       |         |         |                 |             |
| 4.01 | 5.2    | Earthing with G.I. earth pipe 4.5 meter long, 40 mm dia including accessories, and providing masonry enclosure with cover plate having locking arrangement and watering pipe etc. with charcoal/ coke and salt as required.   | Each  | 1.00  | 6855.00 |         | 6855.00         | 0.00        |
| 4.02 | 5.12   | Providing and laying earth connection from earth electrode with 6 SWG dia G.I. Wire in 15 mm dia G.I. pipe from earth electrode including connection with G.I. thimble excavation and re-filling as required.   | Metre | 10.00 | 287.00  |         | 2870.00         | 0.00        |
| 4.03 | 5.16   | Providing and fixing 6 SWG dia G.I. wire on surface or in recess for loop earthing as required.   | Metre | 20.00 | 70.00   |         | 1400.00         | 0.00        |
|      |        | <b>TOTAL OF SUBHEAD - IV</b>  |       |       |         |         | <b>11125.00</b> | <b>0.00</b> |
| 5.00 |        | <b>SUBHEAD - V - STREET LIGHTING ON BUILDING</b>  |       |       |         |         |                 |             |
| 5.01 | M.R.   | Supplying, installing, testing and commissioning of 2 x 36W general purpose fluorescent street light fittings with sheet aluminium housing and UV stabilized acrylic cover complete with chokes, starter holders, condensers, reflector cover etc. as reqd. <b>(Philips Cat No. TRC 33 / 236 HPF) (To be fixed directly on wall of building)</b>      | Set   | 2.00  |         | 3234.55 | 0.00            | 6469.10     |
| 5.02 | 12.34  | Supplying and fixing of 32 mm dia X 2.00 meter long G.I. pipe (medium class) bracket for mounting of fluorescent / HPMV / HPSV street light fitting on pole including bending the pipe to the required shape, 2 Nos. 40 mm X 3 mm flat iron clamps with nuts, bolts and washer, painting the flat iron with primer and finish paint etc. as required. | Each  | 2.00  | 1477.00 |         | 2954.00         | 0.00        |

|      |         |   |       |      |        |        |                  |                  |
|------|---------|---|-------|------|--------|--------|------------------|------------------|
| 5.03 | MR      | Supply of following sizes of FRLS 1.1 KV stranded compact circular aluminium conductor screened with extruded semi conducting compound, XLPE insulated, Al round wire armoured & overall PVC sheathed cable conforming to IS to IS 7098 (Part-I) with latest amendments   |       |      |        |        |                  |                  |
| a)   | a)      | 2 x 4 sq.mm   | Metre | 3.00 |        | 98.45  | 0.00             | 295.35           |
| 5.04 | 7.1     | Laying of one number PVC insulated and PVC sheathed / XLPE power cable of 1.1 kV grade of following size direct in ground including excavation, sand cushioning, protective covering and refilling the trench etc. as required.   |       |      |        |        |                  |                  |
| a)   | 7.1.1   | Upto 35 sq. mm  | Metre | 2.00 | 387.00 |        | 774.00           | 0.00             |
| 5.05 | 7.5     | Laying of one number PVC insulated and PVC sheathed / XLPE power cable of 1.1 kV grade of following size in the existing RCC/ HUME/ METAL pipe as required.   |       |      |        |        |                  |                  |
| a)   | 7.5.1   | Upto 35 sq. mm  | Metre | 2.00 | 37.00  |        | 74.00            | 0.00             |
| 5.06 | 7.7     | Laying and fixing of one number PVC insulated and PVC sheathed / XLPE power cable of 1.1 kV grade of following size on wall surface as required.  |       |      |        |        |                  |                  |
| a)   | 7.7.1   | Upto 35 sq. mm (clamped with 1mm thick saddle)  | Metre | 2.00 | 55.00  |        | 110.00           | 0.00             |
| 5.07 | 9.1     | Supplying and making end termination with brass compression gland and aluminium lugs for following size of PVC insulated and PVC sheathed / XLPE aluminium conductor cable of 1.1 kV grade as required.   |       |      |        |        |                  |                  |
| a)   | 9.1.1   | 2 X 6 sq. mm (19mm)   | Each  | 2.00 | 240.00 |        | 480.00           | 0.00             |
| 5.08 | MR      | Supply & fixing of 150x200 mm 60mm deep MS junction box recess or surface on wall with 3mm bakalite cover 15 overlapping 15 all sides of junction Box & housing 4way 32amps bakelite connector to terminate incoming & outgoing armoured cable & wiring the light fixture with 3x1.5 sq mm PVC insulated copper wire including interconnection etc as required. (Cost of termination of armoured cable with gland is not to be included as the same is payable under separate item no 5.07 of this SUBHEAD) | Each  | 2.00 |        | 746.40 | 0.00             | 1492.80          |
| 5.09 | 14.14   | Providing, laying and fixing following dia RCC pipe NP2 class (light duty) in ground complete with RCC collars, jointing with cement mortar 1:2 (1 cement : 2 fine sand) including trenching (75 cm deep) and refilling etc. as required.   |       |      |        |        |                  |                  |
| a)   | 14.14.1 | 100 mm dia  | Metre | 3.00 | 662.00 |        | 1986.00          | 0.00             |
|      |         | <b>TOTAL OF SUBHEAD - V.</b>  |       |      |        |        | <b>6378.00</b>   | <b>8257.25</b>   |
|      |         | <b>TOTAL (I TO V)</b>   |       |      |        |        | <b>104318.00</b> | <b>100144.15</b> |
|      |         | <b>G. TOTAL (I TO V)</b>  |       |      |        |        |                  | <b>204462.15</b> |

| ESTIMATE OF FOR CONSTRUCTION OF ADDITIONAL DORMITORY & STAFF QUARTERS AT JNV KUPWARA, JAMMU AND KASHMIR                                      |  |          |          |      |          |                    |                       |
|--|--|----------|----------|------|----------|--------------------|-----------------------|
| ABSTRACT OF COST   |  |          |          |      |          |                    |                       |
| Balance 0.50 Unit Girls Dormitory with 02 nos warden residence (Double Storey, RCC framed structure), Plinth area 691.50 +110.00=801.50 Sqm. |  |          |          |      |          |                    |                       |
| S.N.   | DESCRIPTION OF ITEM  | DSR-2021 | QUANTITY | UNIT | RATES    | AMOUNT<br>DSR ITEM | AMOUNT<br>[M.R. ITEM] |
| <b>A Earth Work</b>  |  |          |          |      |          |                    |                       |
| 1  | Earth work in excavation by mechanical means (Hydraulic excavator) / manual means in foundation trenches or drains (not exceeding 1.5 m in width or 10 sqm on plan), including dressing of sides and ramming of bottoms, lift upto 1.5 m, including getting out the excavated soil and disposal of surplus excavated soil as directed, within a lead of 50 m. All kinds of soil  | 2.8.1    | 301.58   | CUM  | 260.30   | 78,501.27          |                       |
| 2  | Filling available excavated earth (excluding rock) in trenches, plinth, sides of foundations etc. in layers not exceeding 20cm in depth,consolidating each deposited layer by ramming and watering, lead upto 50 m and lift upto 1.5 m.  | 2.25     | 226.19   | CUM  | 196.00   | 44,333.24          |                       |
| 3  | Supplying and filling in plinth with sand under floors, including watering, ramming,consolidating and dressing complete.   | 2.27     | 29.33    | CUM  | 2123.75  | 62,289.59          |                       |
| 4  | Excavating, supplying and filling of local earth (including royalty) by mechanical transport upto a lead of 5km also including ramming and watering of the earth in layers not exceeding 20 cm in trenches, plinth, sides of foundation etc. complete.   | 2.25a    | 90.20    | CUM  | 700.50   | 63,185.10          |                       |
| <b>B Concrete Work</b>   |  |          |          |      |          |                    |                       |
| 5  | Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level :1:5:10 (1 cement : 5 coarse sand (zone-III) derived from natural sources : 10 graded stone aggregate 40 mm nominal size derived from natural sources)  | 4.1.10   | 49.44    | CUM  | 6518.60  | 322,279.58         |                       |
| 6  | Providing and laying damp-proof course 40mm thick with cement concrete 1:2:4 (1 cement : 2 coarse sand (zone-III) derived from natural sources : 4 graded stone aggregate 12.5mm nominal size derived from natural sources)  | 4.10     | 43.19    | SQM  | 410.85   | 17,744.61          |                       |
| 7  | Providing & applying a coat of residual petroleum bitumen of grade of VG-10 of approved quality using 1.7kg per square metre on damp proof course after cleaning the surface with brushes and finally with a piece of cloth lightly soaked in kerosene oil.  | 4.13     | 43.19    | SQM  | 146.15   | 6,312.22           |                       |
| 8  | Making plinth protection 50mm thick of cement concrete 1:3:6 (1 cement : 3 coarse sand (zone-III) derived from natural sources : 6 graded stone aggregate 20 mm nominal size derived from natural sources) over 75mm thick bed of dry brick ballast 40 mm nominal size, well rammed and consolidated and grouted with fine sand,including necessary excavation,levelling & dressing & finishing the top smooth.  | 4.17     | 70.070   | SQM  | 749.30   | 52,503.45          |                       |
| 9  | Brick edging in full brick width and half brick depth including excavation, refilling and disposal of surplus earth lead upto 50 metres. With common burnt clay F.P.S. (non modular) bricks of class designation 7.5   | 16.7.1   | 116.79   | RM   | 194.30   | 22,692.30          |                       |
| <b>C Reinforced Cement Concrete</b>  |  |          |          |      |          |                    |                       |
| 10   | Centering and shuttering including strutting, propping etc. and removal of form for all heights :  |          |          |      |          |                    |                       |
| (a)  | Foundations, footings, bases of columns, etc. for mass concrete.   | 5.9.1    | 103.97   | SQM  | 392.15   | 40,771.84          |                       |
| (b)  | Suspended floors, roofs, landings, balconies and access platform.  | 5.9.3    | 824.93   | SQM  | 927.25   | 764,916.34         |                       |
| (c)  | Lintels, beams, plinth beams, girders, bressumers  | 5.9.5    | 934.74   | SQM  | 736.40   | 688,342.54         |                       |
| (d)  | Columns,Pillars, Piers, Abutments, Posts and Struts.   | 5.9.6    | 763.34   | SQM  | 961.30   | 733,798.74         |                       |
| (e)  | Edges of slabs and breaks in floors and walls Under 20 cm wide.  | 5.9.16.1 | 681.55   | RM   | 208.55   | 142,137.25         |                       |
| 11   | Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete upto plinth level. Thermo-Mechanically Treated bars of grade Fe-500D or more.  | 5.22.6   | 81.16    | QTL  | 10785.00 | 875,310.60         |                       |
| 12   | Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete above plinth level. Thermo-Mechanically Treated bars of grade Fe-500 D or more.  | 5.22.A.6 | 219.86   | QTL  | 10785.00 | 2,371,190.10       |                       |
| 13   | Add for plaster drip course/ groove in plastered surface or moulding to R.C.C. projections.  | 5.30     | 539.52   | RM   | 78.40    | 42,298.37          |                       |
| 14   | Providing and laying in position ready mixed or site batched design mix cement concrete for reinforced cement concrete work; using coarse aggregate and fine aggregate derived from natural sources, Portland Pozzolana / Ordinary Portland /Portland Slag cement, admixtures in recommended proportions as per IS: 9103 to accelerate / retard setting of concrete, to improve durability and workability without impairing strength; including pumping of concrete to site of laying, curing, carriage for all leads; but excluding the cost of centering, shuttering, finishing and reinforcement as per direction of the engineer-in-charge; for the following grades of concrete.<br>Note: Extra cement up to 10% of the minimum specified cement content in design mix shall be payable separately. In case the cement content in design mix is more than 110% of the specified minimum cement content, the contractor shall have discretion to either re-design the mix or bear the cost of extra cement. | 5.33     |          |      |          |                    |                       |
| (I)  | All works upto plinth level  | 5.33.1   |          |      |          |                    |                       |
|  | Concrete of M25 grade with minimum cement content of 330 kg /cum   | 5.33.1.1 |          |      |          |                    |                       |
|  | (i) R.C.C. work in Footing   | 5.33.1.1 | 68.65    | CUM  | 9504.75  | 652,501.09         |                       |
|  | (ii) R.C.C. work in Beam   | 5.33.1.1 | 26.52    | CUM  | 9504.75  | 252,065.97         |                       |
|  | (iii) R.C.C. work in Columns   | 5.33.1.1 | 5.48     | CUM  | 9504.75  | 52,086.03          |                       |
| (II)   | All works above plinth level upto floor V level  | 5.33.2   |          |      |          |                    |                       |
|  | Concrete of M25 grade with minimum cement content of 330 kg /cum   | 5.33.2.1 |          |      |          |                    |                       |
|  | (i) R.C.C. work in Lintel  | 5.33.2.1 | 2.67     | CUM  | 9860.40  | 26,327.27          |                       |
|  | (ii) R.C.C. work in Beam   | 5.33.2.1 | 54.53    | CUM  | 9860.40  | 537,687.61         |                       |
|  | (iii) R.C.C. work in Columns   | 5.33.2.1 | 60.00    | CUM  | 9860.40  | 591,624.00         |                       |
|  | (iv) R.C.C. work in Slab   | 5.33.2.1 | 132.86   | CUM  | 9860.40  | 1,310,052.74       |                       |
|  | Expansion Joint Treatment  |          |          |      |          |                    |                       |

|                        |   |         |        |     |         |              |  |
|------------------------|---|---------|--------|-----|---------|--------------|--|
| 15                     | Providing and fixing of expansion joint system related with floor location as per drawings and direction of Engineer-In-Charge. The joints system will be of extruded aluminum base members, self aligning / self centering arrangement and support plates etc. as per ASTM B221-02. The system shall be such that it provides floor to floor /floor to wall expansion control system for various vertical location in load application areas that accommodates multi directional seismic movement without stress to it's components. System shall consist of metal profiles with a universal aluminum base member designed to accommodate various project conditions and finish floor treatments. The cover plate shall be designed of width and thickness required to satisfy projects movement and loading requirements and secured to base members by utilizing manufacturer's pre-engineered self- centering arrangement that freely rotates / moves in all directions. The Self - centering arrangement shall exhibit circular sphere ends that lock and slide inside the corresponding aluminum extrusion cavity to allow freedom of movement and flexure in all directions including vertical displacement. Provision of Moisture Barrier Membrane in the Joint System to Floor Joint of 100 mm gap   | 5.44    |        |     |         | -            |  |
|                        |   | 5.44.1  | 3.60   | RM  | 6392.55 | 23,013.18    |  |
| 16                     | Providing and fixing of expansion joint system related with wall joint (internal/ external) location as per drawings and direction of Engineer-In- Charge. The joints shall be of extruded aluminum base members, self aligning / centering arrangement and support plates as per ASTM B221- 02. The material shall be such that it provides an Expansion Joints System suitable for vertical wall to wall/ wall to corner application, both new and existing construction in office Buildings & complexes with no slipping down tendency amongst the components of the Joint System. The Joint System shall utilize light weight aluminum profiles exhibiting minimal exposed aluminum surfaces mechanically snap locking the multicellular to facilitate movement. (Material shall confirm to ASTM 6063).   | 5.45    |        |     |         |              |  |
|                        | Wall Joint of 100 mm gap  | 5.45.1  | 17.90  | RM  | 5305.65 | 94,971.14    |  |
| 17                     | Providing and fixing of expansion joint system of approved make and manufacture for various roof locations as per approved drawings and direction of Engineer-In-Charge. The joints shall be of extruded aluminum base members with, self aligning and self centering arrangement support plates as per ASTM B221-02. The system shall be such that it provides water tight roof to roof /roof to corner joint cover expansion control system that is capable of accommodating multidirectional seismic movement without stress to its components. System shall consist of metal profile that incorporates a universal aluminum base member designed to accommodate various project conditions and roof treatments. The cover plate shall be designed of width and thickness required to satisfy movement and loading requirements and secured to base members by utilizing manufacturer's pre-engineered self-centering arrangement that freely rotates / moves in all directions. The Self centering arrangement shall exhibit circular sphere ends that lock and slide inside the corresponding aluminum extrusion cavity to allow freedom of movement and flexure in all directions including vertical displacement. The Joint System shall resists damage or deterioration from the impact of falling ice, exposure to UV, airborne contaminants and occasional foot traffic from maintenance personnel. Provision of Moisture Barrier Membrane in the Joint System to have water tight joint is mandatory requirement. (Material shall confirm to ASTM 6063.) |         |        |     |         |              |  |
|                        | Roof Joint of 100 mm gap  | 5.46.1  | 7.04   | RM  | 5985.70 | 42,139.33    |  |
| <b>D Masonry Work</b>  |   |         |        |     |         |              |  |
| 18                     | Half brick masonry with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in superstructure above plinth level up to floor V level. <b>Cement mortar 1:4 (1 cement :4 coarse sand)</b>   | 6.13.2  | 179.92 | SQM | 1123.80 | 202,194.10   |  |
| 19                     | Extra for providing and placing in position 2 Nos 6mm dia. M.S. bars at every third course of half brick masonry.   | 6.15    | 179.92 | SQM | 104.80  | 18,855.62    |  |
| 20                     | Brick work with non modular fly ash bricks conforming to IS:12894, class designation 10 average compressive strength in superstructure above plinth level up to floor V level in : <b>Cement mortar 1:6 (1 cement : 6 coarse sand)</b>  | 6.34.2  | 221.38 | CUM | 8752.55 | 1,937,639.52 |  |
| 21                     | Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in foundation and plinth in: Cement mortar 1:6 (1 cement : 6 coarse sand)  | 6.1.2   | 43.11  | CUM | 7132.25 | 307,471.30   |  |
| <b>E Cladding Work</b> |   |         |        |     |         |              |  |
|                        | Providing and fixing 18 mm thick gang saw cut, mirror polished, premoulded and prepolished, machine cut for kitchen platforms, vanity counters, window sills , facias and similar locations of required size, approved shade, colour and texture laid over 20 mm thick base cement mortar 1:4 (1 cement : 4 coarse sand), joints treated with white cement, mixed with matching pigment, epoxy touch ups, including rubbing, curing, moulding and polishing to edges to give high gloss finish etc. complete at all levels.   | 8.2     |        |     |         |              |  |
|                        | Granite stone slab colour black, Cherry/Ruby red  | 8.2.2   |        |     |         |              |  |
| 22                     | Area of slab upto 0.50 sqm  | 8.2.2.1 | 1.05   | SQM | 5413.50 | 5,684.18     |  |
| 23                     | Area of slab over 0.50 sqm  | 8.2.2.2 | 6.24   | SQM | 5136.30 | 32,050.51    |  |
| 24                     | Providing edge moulding to 18mm thick marble stone counters, Vanities etc. including machine polishing to edge to give high gloss finish etc. complete as per design approved by Engineer-in-Charge.  | 8.3     |        |     |         |              |  |
|                        | Granite work  | 8.3.2   | 10.41  | RM  | 510.95  | 5,318.99     |  |
| 25                     | Extra for fixing marble /granite stone over and above corresponding basic item, in facia and drops of width upto 150 mm with epoxy resin based adhesive including cleaning etc. complete.   | 8.4     | 10.41  | RM  | 568.55  | 5,918.61     |  |
| 26                     | Extra for providing opening of required size & shape for wash basins/ kitchen sink in kitchen platform, vanity counters and similar location in marble/Granite/stone work including necessary holes for pillar taps etc. including moulding, rubbing and polishing of cut edges etc. complete.  | 8.5     | 3.00   | NO  | 978.70  | 2,936.10     |  |
| 27                     | Providing and fixing 1st quality ceramic glazed wall tiles conforming to IS: 15622 (thickness to be specified by the manufacturer), of approved make, in all colours, shades except burgundy, bottle green, black of any size as approved by Engineer-in-Charge, in skirting, risers of steps and dados, over 12 mm thick bed of cement mortar 1:3 (1 cement : 3 coarse sand) and jointing with grey cement slurry @ 3.3kg per sqm, including pointing in white cement mixed with pigment of matching shade complete.   | 8.31    | 318.51 | SQM | 1267.95 | 403,854.75   |  |

| <b>F Wood and PVC Work</b> |   |             |         |      |         |            |
|----------------------------|---|-------------|---------|------|---------|------------|
| 28                         | Providing and fixing ISI marked flush door shutters conforming to IS : 2202 (Part I) non-decorative type, core of block board construction with frame of 1st class hard wood and well matched commercial 3 ply veneering with vertical grains or cross bands and face veneers on both faces of shutters:35 mm thick including ISI marked Stainless Steel butt hinges with necessary screws  | 9.21.1      | 130.31  | SQM  | 2392.65 | 311,786.22 |
| 29                         | Extra for providing lipping with 2nd class teak wood battens 25 mm minimum depth on all edges of flush door shutters (over all area of door shutter to be measured).  | 9.23        | 130.31  | SQM  | 462.35  | 60,248.83  |
| 30                         | Extra for cutting rebate in flush door shutters (Total area of the shutter to be measured).   | 9.26        | 45.47   | SQM  | 106.7   | 4,851.65   |
| 31                         | Providing and fixing M.S. grills of required pattern in frames of windows etc. with M.S. flats, square or round bars etc. including priming coat with approved steel primer all complete. Fixed to steel windows by welding.  | 9.48.1      | 2076.43 | KG   | 219.10  | 454,945.81 |
| 32                         | Providing and fixing aluminium hanging floor door stopper ISI marked anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour or shade with necessary screws etc. complete. Twin rubber stopper  | 9.101.2     | 111.00  | NOS  | 72.35   | 8,030.85   |
| 33                         | Providing and fixing factory made door frame (single rebate) made out of single piece extruded solid PVC foam profile with homogenous fine cellular structure having smooth outer integral skin having 62 mm width & 32 mm thickness, frame will be mitred & Jointed with self driven self tapping screws of size 38 mm x 4 mm & PVC solvent cement, including fixing the frame to wall with suitable dia & length anchor fastener as per manufacturer's specification and direction of Engineer-in-charge.   | 9.123       | 185.40  | RM   | 696.00  | 129,038.40 |
| 34                         | Providing and fixing PVC rigid foam sheet 1 mm thick on existing door shutters (bathroom and W.C. doors) using synthetic rubber based adhesive.   | 9.125       | 58.80   | SQM  | 1045.95 | 61,501.86  |
| 35                         | Providing and fixing wire gauge shutters using stainless steel grade 304 wire gauge with wire of dia 0.5 mm and average width of aperture 1.4 mm in both directions for doors, windows and clerestory windows with necessary screws : 30 mm thick shutters With ISI marked stainless steel butt hinges of required size Kiln seasoned and chemically treated hollock wood   | 9.134.2.2.2 | 36.54   | SQM  | 3619.60 | 132,260.18 |
| 36                         | Providing and fixing fly proof stainless steel grade 304 wire gauge, to windows and clerestory windows using wire gauge with average width of aperture 1.4 mm in both directions with wire of dia. 0.50 mm all complete. <b>With 12 mm mild steel U beading</b>   | 9.135.2     | 134.70  | SQM  | 1228.00 | 165,411.60 |
| 37                         | Providing and fixing 6mm thick both sides Pre-laminated cement bonded wood particle board as per IS : 15786:2008 of approved brand and shade with suitable full threaded steel screws etc. on the backing of racks, drawer, cupboard, kitchen cabinet under kitchen counter etc. all complete as per direction of Engineer in-charge.   | 9.167       | 3.27    | SQM  | 1010.60 | 3,304.66   |
| 38                         | Providing and fixing cupboard shutter with 19mm thick one side decorative and other side balancing lamination factory pressed BWP grade marine ply as per IS 710 of approved brand including 2mm thick PVC edge banding tape with hot glue by edge bending machine etc. with auto closing spring loaded hinges (hydraulic type) etc. complete as per direction of Engineer in-charge.(Payment of providing and fixing auto closing hinges shall be paid separately)   | 9.168       | 3.27    | SQM  | 2829.25 | 9,251.65   |
| 39                         | Providing and fixing 19mm thick both side balancing lamination factory pressed BWP grade marine ply as per IS 710 of approved brand boxes,shelves,racks,almirah, cupboard and drawer etc. including necessary nails,screws etc. complete as per direction of Engineer-in-charge.  | 9.169       | 9.42    | SQM  | 2593.15 | 24,427.47  |
| 40                         | Providing and fixing stainless steel fancy handle of approved make fixed with SS screws etc. complete as per direction of Engineer-in-charge.<br><b>100 mm for Kitchen Cabinets</b>   | Analysis    | 12.00   | Nos. | 95.00   | 1,140.00   |
| 41                         | Providing and fixing stainless steel soft closing spring hinges at 0 degree hinges (hydraulic type) of approved make/brand to cupboard shutters with full threaded steel screws including making necessary recess in board and finished etc. complete as per direction of Engineer-in-charge  | 9.171       | 24.00   | Nos. | 272.00  | 6,528.00   |
| 42                         | Providing and fixing bright /matt finished Stainless Steel handles of approved quality & make with necessary screws etc all complete. (a) 125 mm.   | 9.165.1     | 222.00  | NOS  | 119.20  | 26,462.40  |
| 43                         | Providing & fixing Stainless steel sliding door bolts ISI marked anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour or shade with nuts and screws etc complete.<br>(a) 250mm x 16mm .  | M.R.        | 82.00   | NOS  | 560.00  | 45,920.00  |
| 44                         | Providing and fixing stainless steel towerbolts (barrel type) with necessary screws etc. complete.  |             |         |      |         |            |
| (i)                        | 200 x 10mm  | M.R.        | 82.00   | NOS  | 448.00  | 36,736.00  |
| (ii)                       | 150 x 10mm  | M.R.        | 82.00   | NOS  | 392.00  | 32,144.00  |
| <b>G Steel Work</b>        |   |             |         |      |         |            |
| 45                         | Providing and fixing factory made ISI marked steel glazed doors, windows and ventilators, side /top /centre hung, with beading and all members such as F7D, F4B, K11 B and K12 B etc. complete of standard rolled steel sections, joints mitred and flash butt welded and sash bars tenoned and riveted, including providing and fixing of hinges, pivots, including priming coat of approved steel primer, but excluding the cost of other fittings, complete all as per approved design, (sectional weight of only steel members shall be measured for payment). Fixing with 15x3 mm lugs 10 cm long embedded in cement concrete block 15x10x10 cm of C.C. 1:3:6 (1 Cement : 3 coarse sand : 6 graded stone aggregate 20 mm | 10.11.1     | 2020.50 | KG   | 131.05  | 264,786.53 |
| 46                         | Providing and fixing T-iron frames for doors, windows and ventilators of mild steel Tee-sections, joints mitred and welded, including fixing of necessary butt hinges and screws and applying a priming coat of approved steel primer Fixing with 15x3 mm lugs 10 cm long embedded in cement concrete block 15x10x10 cm of C.C. 1:3:6 (1 Cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size   | 10.13.1     | 931.50  | KG   | 141.70  | 131,993.55 |

|   |   |            |         |     |         |              |  |
|---|---|------------|---------|-----|---------|--------------|--|
| 47  | Providing and fixing M.S. Tubular frames for doors, windows, ventilators and cupboard with rectangular/ L-Type sections, made of 1.60 mm thick M.S. Sheet, joints mitred, welded and grinded finish, with profiles of required size, including fixing of necessary butt hinges and screws and applying a priming coat of approved steel primer. Fixing with 15x3 mm lugs 10 cm long embedded in cement concrete block 15x10x10 cm of C.C. 1:3:6 (1 Cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size)  | 10.15.1    | 4022.28 | Kg  | 195.20  | 785,149.06   |  |
| 48  | Providing and fixing stainless steel ( Grade 304) railing made of Hollow tubes, channels, plates etc., including welding, grinding, buffing, polishing and making curvature (wherever required) and fitting the same with necessary stainless steel nuts and bolts complete, i/c fixing the railing with necessary accessories & stainless steel dash fasteners , stainless steel bolts etc., of required size, on the top of the floor or the side of waist slab with suitable arrangement as per approval of Engineer-in-charge.  | 10.28      | 216.000 | KG  | 772.40  | 166,838.40   |  |
| 49  | Steel work welded in built up sections/ framed work, including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer using structural steel etc. as required. In gratings, frames, guard bar, ladder, railings, brackets, gates and similar works  | 10.25.2    | 371.520 | KG  | 172.60  | 64,124.35    |  |
| 50  | Providing & fixing glass panes with putty and glazing clips in steel doors, windows, clerestory windows, all complete with : 4.0 mm thick glass panes.  | 10.30.1    | 201.84  | SQM | 1064.65 | 214,888.96   |  |
| <b>H Flooring</b>                             |   |            |         |     |         |              |  |
| 51  | Cement concrete flooring 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate) finished with a floating coat of neat cement, including cement slurry, but excluding the cost of nosing of steps etc. complete.<br>40 mm thick with 20 mm nominal size stone aggregate   | 11.3.1     | 1.080   | SQM | 614.20  | 663.34       |  |
| 52  | Chequered precast cement concrete tiles 22 mm thick in footpath & courtyard, jointed with neat cement slurry mixed with pigment to match the shade of tiles, including rubbing and cleaning etc. complete, on 20 mm thick bed of cement mortar 1:4 (1 cement: 4 coarse sand). <b>Medium shade pigment using 50% white cement 50% Grey cement</b>  | 11.20.2    | 21.600  | SQM | 1328.35 | 28,692.36    |  |
| 53  | Kota stone slab flooring over 20 mm (average) thick base laid over and jointed with grey cement slurry mixed with pigment to match the shade of the slab, including rubbing and polishing complete with base of cement mortar 1 : 4 (1 cement : 4 coarse sand) : <b>25 mm thick</b>   | 11.26.1    | 667.06  | SQM | 1948.25 | 1,299,599.65 |  |
| 54  | Kota stone slabs 20 mm thick in risers of steps, skirting, dado and pillars laid on 12 mm (average) thick cement mortar 1:3 (1 cement: 3 coarse sand) and jointed with grey cement slurry mixed with pigment to match the shade of the slabs, including rubbing and polishing complete.   | 11.27      | 70.00   | SQM | 2354.70 | 164,829.00   |  |
| 55  | Providing and laying Vitrified tiles in floor in different sizes (thickness to be specified by the manufacturer) with water absorption less than 0.08% and conforming to IS:15622, of approved brand & manufacturer, in all colours and shade, laid on 20 mm thick cement mortar 1:4 (1 cement: 4 coarse sand) jointing with grey cement slurry @3.3 kg/sqm including grouting the joints with white cement and matching pigments etc. The tiles must be cut with the zero chipping diamond cutter only . Laying of tiles will be done with the notch trowel, plier, wedge, clips of required thickness, leveling system and rubber mallet for placing the tiles gently and easily. <b>Glazed Vitrified tiles Matt/Antiskid finish of size of Tile 600 x 600 mm</b> | 11.41A.3.1 | 122.71  | SQM | 1464.85 | 179,751.74   |  |
| 56  | Providing and laying vitrified floor tiles in different sizes (thickness to be specified by the manufacturer) with water absorption less than 0.08% and conforming to IS: 15622, of approved make, in all colours and shades, laid on 20mm thick cement mortar 1:4 (1 cement : 4 coarse sand), jointing with grey cement slurry @ 3.3kg/sqm including grouting the joints with white cement and matching pigments etc., complete. <b>Size of Tile 600x600 mm</b>  | 11.41.2    | 84.58   | SQM | 1553.45 | 131,390.80   |  |
| 57  | Providing and laying Vitrified tiles in different sizes (thickness to be specified by manufacturer), with water absorption less than 0.08 % and conforming to I.S. 15622, of approved make, in all colours & shade, in skirting, riser of steps, over 12 mm thick bed of cement mortar 1:3 (1 cement: 3 coarse sand), jointing with grey cement slurry @ 3.3kg/sqm including grouting the joint with white cement & matching pigments etc. complete. <b>Size of Tile 600x600 mm</b>   | 11.46.2    | 10.44   | SQM | 1623.05 | 16,944.64    |  |
| 58  | Providing and laying 60mm thick factory made cement concrete interlocking paver block of M -30 grade made by block making machine with strong vibratory compaction, of approved size, design & shape, laid in required colour and pattern over and including 50mm thick compacted bed of coarse sand, filling the joints with line sand etc. all complete as per the direction of Engineer-in-charge.   | 16.68      | 57.77   | SQM | 972.00  | 56,152.44    |  |
| 59  | P & laying cement concrete  | analysis   | 20.820  | SQM | 1390.56 | 28,951.46    |  |
| <b>I Finishing</b>                            |   |            |         |     |         |              |  |
| 60  | 15 mm cement plaster on the rough side of single or half brick wall of mix : 1:6 (1 cement: 6 coarse sand)  | 13.5.2     | 1739.00 | SQM | 395.35  | 687,513.65   |  |
| 61  | 12mm cement plaster in single coat on fair side of single or half brick wall for exterior plastering up to floor two level including internal rounded angles chamfers, and/or rounded angles not exceeding 80mm in girth and finished even and smooth no extra for mixing any additive. 1:6 (1 cement: 6 coarse sand)   | 13.4.2     | 1634.05 | SQM | 343.65  | 561,541.28   |  |
| 62  | 6 mm cement plaster on ceiling (a) 1:3 (1 cement: 3 fine sand)  | 13.16.1    | 1079.84 | SQM | 300.45  | 324,437.93   |  |
| 63  | Distempering with oil bound washable distemper of approved brand and manufacture to give an even shade : New work (two or more coats) over and including water thinnable priming coat with cement primer.   | 13.41.1    | 2713.89 | SQM | 185.65  | 503,833.68   |  |
| 64  | Finishing walls with Premium Acrylic Smooth exterior paint with Silicone additives of required shade. New work (Two or more coats applied @ 1.43 ltr/ 10 sqm. over and including priming coat of exterior primer applied @ 2.20 kg/ 10 sqm).  | 13.47.1    | 1739.00 | SQM | 171.10  | 297,542.90   |  |
| <b>Steel Painting: Applying priming coat:</b> |   |            |         |     |         |              |  |
| 65  | With ready mixed red oxide zinc chromate primer of approved brand and manufacture on steel galvanised iron/steel works.   | 13.50.3    | 257.72  | SQM | 67.40   | 17,370.33    |  |

|                         |   |          |         |     |                    |                      |                   |
|-------------------------|---|----------|---------|-----|--------------------|----------------------|-------------------|
| 66                      | "Painting with synthetic enamel paint of approved brand and manufacture of required colour to give an even shade :Two or more coats on new work over an under coat of suitable shade with ordinary paint of approved brand and manufacture"   | 13.62.1  | 257.72  | SQM | 226.25             | 58,309.15            |                   |
| 67                      | Painting with black anti-corrosive bitumastic paint of approved brand and manufacture to give an even shade :<br>Two or more coats on new work  | 13.65.1  | 14.13   | SQM | 140.25             | 1,981.73             |                   |
| 68                      | Providing and applying white cement based putty of average thickness 1 mm, of approved brand and manufacturer, over the plastered wall surface to prepare the surface even and smooth complete.   | 13.80    | 1079.84 | SQM | 156.05             | 168,509.03           |                   |
| <b>J Water Proofing</b> |   |          |         |     |                    |                      |                   |
| 69                      | Providing and laying water proofing treatment in sunken portion of WCs, bathroom etc., by applying cement slurry mixed with water proofing cement compound consisting of applying : a) First layer of slurry of cement @ 0.488 kg/sqm mixed with water proofing cement compound @ 0.253 kg/sqm. This layer will be allowed to air cure for 4 hours. b) Second layer of slurry of cement @ 0.242 kg/sqm mixed with water proofing cement compound @ 0.126 kg/sqm. This layer will be allowed to air cure for 4 hours followed with water curing for 48 hours. The rate includes preparation of surface, treatment and sealing of all joints, corners, junctions of pipes and masonry with polymer mixed slurry.  | 22.5     | 95.07   | SQM | 617.05             | 58,662.94            |                   |
| 70                      | Providing and laying in situ seven course water proofing treatment with APP (Atactic polypropylene) modified Polymeric memberane over roof consisting of first coat of bitumen primer @ 0.40 litre per sqm, 2nd, 4th & 6th courses of bonding material @ 1.20 Kg/sqm, which shall consist of blown type bitumen of grade 85/25 conforming to IS : 702, 3rd and 5th layers of roofing membrane APP modified Polymeric membrane 1.5 mm thick of 2.25 Kg/sqm weight consisting of five layers prefabricated with centre core as 20 micron HMHDPE film sandwiched on both sides with polymeric mix and the polymeric mix is protected on both side with 20 micron HMHDPE film. 7th, the top most layer shall be finished with brick tiles of class designation 10 grouted with cement mortar 1:3 (1cement : 3 fine sand) mixed with 2% integral water proofing compound by weight of cement over a 12 mm layer of cement mortar 1:3 (1 cement : 3 fine sand) and finished neat (item of laying brick tiles shall be paid for separately). | 14.86    | 138.76  | SQM | 730.55             | 101,371.12           |                   |
| 71                      | Providing and laying brick tiles over mumty roofs, grouted with cement mortar 1:3 (1 cement : 3 fine sand) mixed with 2% of integral water proofing compound by weight of cement, over 12 mm layer of cement mortar 1:3 (1 cement : 3 fine sand) and finished neat: With common burnt clay F.P.S. (non modular) brick tiles of class designation 10   | 12.19    | 138.760 | SQM | 607.40             | 84,282.82            |                   |
| 72                      | Providing and filling of AAC Lightweight Broken Blocks sunken portions.   | M.R.     | 19.33   | CUM | 4132.00            |                      | 79,871.56         |
| 73                      | 2.1 Mt Ht. Boundary Wall  | Analysis | 37.32   | RM  | 14577.60           | 544,036.03           |                   |
|                         |   |          |         |     | <b>TOTAL</b>       | <b>21,176,337.62</b> | <b>194,671.56</b> |
|                         |   |          |         |     | <b>Say in lacs</b> | <b>211.76</b>        | <b>1.95</b>       |

| PLUMBING INTERNAL ESTIMATE   |                       |                     |                   |
|--|-----------------------|---------------------|-------------------|
| ESTIMATE OF FOR CONSTRUCTION OF ADDITIONAL DORMITORY & STAFF QUARTERS AT JNV KUPWARA, JAMMU AND KASHMIR                                      |                       |                     |                   |
| Balance 0.50 Unit Girls Dormitory with 02 nos warden residence (Double Storey, RCC framed structure), Plinth area 691.50 +110.00=801.50 Sqm. |                       |                     |                   |
| Sl. No.  | Description           |                     |                   |
|  |                       | DSR Items -2023     | NS Items          |
| 1  | Sanitary Installation | 795,185.95          | 145,737.00        |
| 2  | Water Supply          | 569,014.70          | 164,359.00        |
| 3  | Drainage              | 135,412.81          | 10,240.00         |
|  | <b>Total</b>          | <b>1,499,613.46</b> | <b>320,336.00</b> |
|  | Say in Lacs           | 15.00               | 3.20              |



| PLUMBING INTERNAL ESTIMATE   |           |   |           |       |        |            |           |
|--|-----------|---|-----------|-------|--------|------------|-----------|
| ESTIMATE OF FOR CONSTRUCTION OF ADDITIONAL DORMITORY & STAFF QUARTERS AT JNV KUPWARA, JAMMU AND KASHMIR                                      |           |   |           |       |        |            |           |
| Balance 0.50 Unit Girls Dormitory with 02 nos warden residence (Double Storey, RCC framed structure), Plinth area 691.50 +110.00=801.50 Sqm. |           |   |           |       |        |            |           |
| S.No.  | DSR '23   | Description   | Rate      | Unit  | Amount |            |           |
|  |           |   |           |       | Qty    | DSR        | MR        |
|  |           | <b>Sub Head – I Sanitary Installation</b>   |           |       |        |            |           |
|  |           | Providing and fixing water closet squatting pan (Indian type W.C. pan ) with 100 mm sand cast iron P or S trap, 10 litre low level white P.V.C. flushing cistern, including flush pipe, with manually controlled device (handle lever) conforming to IS : 7231, with all fittings and fixtures complete, including cutting and making good the walls and floors wherever required:  |           |       |        |            |           |
| 1.1  | 17.1      |   |           |       |        |            |           |
|  | 17.1.1    | White Vitreous china Orissa pattern W.C. pan of size 580x440 mm with integral type foot rests.  | 6,767.40  | each  | 18     | 121,813.20 |           |
| 1.2  | 17.3      | Providing and fixing white vitreous china pedestal type water closet (European type) with seat and lid, 10 litre low level white vitreous china flushing cistern & C.P. flush bend with fittings & C.I. brackets, 40 mm flush bend, overflow arrangement with specials of standard make and mosquito proof coupling of approved municipal design complete, including painting of fittings and brackets, cutting and making good the walls and floors wherever required :                |           |       |        |            |           |
|  | 17.3.1    | W.C. pan with ISI marked white solid plastic seat and lid   | 8,006.60  | each  | 3      | 24,019.80  |           |
| 1.3  | 17.81     | Providing and fixing floor mounted, white vitreous china single piece, double traps syphonic water closet of approved brand/make, shape, size and pattern including integrated white vitreous china cistern of capacity 10 litres with dual flushing system, including all fittings and fixtures with seat cover, cistern fittings, nuts, bolts and gasket etc including making connection with the existing P/S trap, complete in all respect as per directions of Engineer-in-Charge. | 18,212.90 | each  | 0      | -          |           |
| 1.4  | 17.80     | Providing and fixing white vitreous china battery based infrared sensor operated urinal of approx. size 610 x 390 x 370 mm having pre & post flushing with water (250 ml & 500 ml consumption), having water inlet from back side, including fixing to wall with suitable brackets all as per manufacturers specification and direction of Engineer-in-charge.  | 7,979.20  | each  | 0      | -          |           |
| 1.5  | 17.7      | Providing and fixing wash basin with C.I. brackets, 15 mm C.P. brass pillar taps, 32 mm C.P. brass waste of standard pattern, including painting of fittings and brackets, cutting and making good the walls wherever require:  |           |       |        |            |           |
| 1.5.1  | 17.7.3    | White Vitreous China Wash basin size 550x400 mm with a pair of 15 mm C.P. brass pillar taps   | 2,301.75  | each  | 3      | 6,905.25   |           |
| 1.6  | NSI-1     | Providing and fixing white vitreous china wash basin under counter basin, with C.I. concealed type brackets fixed to walls with GI rag bolts or approved fasteners etc., including 32 mm CP brass waste coupling, including painting of fittings and brackets, cutting and making good the walls wherever required all complete (Granite counter top will be measured and paid separately under relevant item): as per approved make and decision of engineer-in-charge                 | 4,689.00  | each  | 0      | -          |           |
| 1.7  | 17.34     | Providing and fixing toilet paper holder :  |           |       |        |            |           |
|  | 17.34.1   | C.P. brass  | 803.70    | each  | 3      | 2,411.10   |           |
| 1.8  | NSI-2     | Providing and fixing CP brass auto closing system basin pillar tap / hand wash o as approved by Engineer- In Charge   | 5,092.00  | each  | 12     |            | 61,104.00 |
| 1.9  | NSI-3     | Providing and fixing CP brass single lever basin mixer without popo with 450mm long braided hose (connection pipe) basin pillar tap of Jaquar LYR-38001B or Equivalent as approved by Engineer In Charge.   | 7,406.00  | each  | 4      |            | 29,624.00 |
| 1.10   | 17.22A    | Providing and fixing 32mm C.P brass bottle Trap of approved quality & make as per the direction of engineer-in-charge.  | 1,034.80  | each  | 3      | 3,104.40   |           |
| 1.11   | 17.31     | Providing and fixing 600x450 mm beveled edge mirror of superior glass (of approved quality) complete with 6 mm thick hard board ground fixed to wooden cleats with C.P. brass screws and washers complete.  | 1,607.95  | Sqm   | 3      | 4,823.85   |           |
| 1.12   | 17.10     | Providing and fixing Stainless Steel A ISI 304 (18/8) kitchen sink as per IS : 13983 with C.I. brackets and stainless steel plug 40 mm, including painting of fittings and brackets, cutting and making good the walls wherever required :  |           |       |        |            |           |
|  | 17.10.1   | Kitchen sink with drain board   |           |       |        |            |           |
|  | 17.10.1.1 | 510x1040 mm bowl depth 250mm  | 6945.60   | each  | 2      | 13,891.20  |           |
|  | 17.10.2   | Kitchen sink without drain board  |           |       |        |            |           |
|  | 17.10.2.2 | 610x460 mm bowl depth 200 mm  | 3,873.80  | each  | 0      | -          |           |
| 1.13   | 17.11     | Providing and fixing white vitreous china laboratory sink with C.I. brackets, C.P. brass chain with rubber plug, 40 mm C.P. brass waste and 40mm C.P. brass trap with necessary C.P. brass unions complete, including painting of fittings and brackets, cutting and making good the wall wherever required :   |           |       |        |            |           |
|  | 17.11.1   | Size 450x300x150 mm   | 5,020.85  | each  | 0      | -          |           |
| 1.14   | 17.28     | Providing and fixing P.V.C. waste pipe for sink or wash basin including P.V.C. waste fittings complete.   |           |       |        |            |           |
|  | 17.28.2   | Flexible pipe   |           |       |        |            |           |
|  | 17.28.2.2 | 40 mm dia   | 119.55    | each  | 2      | 239.10     |           |
| 1.15   | 17.35     | Providing and fixing soil, waste and vent pipes :   |           |       |        |            |           |
|  | 17.35.1   | 100 mm dia  |           |       |        |            |           |
|  | 17.35.1.3 | Hubless centrifugally cast (spun) iron pipes epoxy coated inside & outside IS:15905   | 1,169.30  | meter | 143    | 167,209.90 |           |
| 1.16   | 17.38     | Providing and fixing bend of required degree with access door, insertion rubber washer 3 mm thick, bolts and nuts complete.   |           |       |        |            |           |
|  | 17.38.1   | 100 mm  |           |       |        |            |           |
|  | 17.38.1.3 | Hubless centrifugally cast (spun) iron epoxy coated inside & outside IS. 15905  | 567.20    | each  | 24     | 13,612.80  |           |
| 1.17   | 17.39     | Providing and fixing plain bend of required degree.   |           |       |        |            |           |
|  | 17.39.1   | 100 mm  |           |       |        |            |           |
|  | 17.39.1.3 | Hubless centrifugally cast (spun) iron pipe epoxy inside & outside IS: 15905  | 368.00    | each  | 45     | 16,560.00  |           |
| 1.18   | 17.40     | Providing and fixing heel rest sanitary bend  |           |       |        |            |           |
|  | 17.40.1   | 100 mm dia  |           |       |        |            |           |
|  | 17.40.1.2 | Sand cast iron S&S as per IS - 3989   | 548.70    | each  | 4      | 2,194.80   |           |
| 1.19   | 17.42     | Providing and fixing double equal plain junction of required degree   |           |       |        |            |           |
|  | 17.42.1   | 100x100x100x100 mm  |           |       |        |            |           |
|  | 17.42.1.3 | Hubless centrifugally cast (spun) iron pipe epoxy inside & outside IS: 15905  | 760.70    | each  | 16     | 12,171.20  |           |

|      |            |   |          |       | Qty | Amount    |
|------|------------|---|----------|-------|-----|-----------|
| 1.20 | 17.43      | Providing and fixing single equal plain junction of required degree with access door, insertion rubber washer 3 mm thick, bolts and nuts complete.  |          |       |     |           |
|      | 17.43.1    | 100x100x100 mm  |          |       |     |           |
|      | 17.43.1.2  | sand cast iron S&S as per IS: 3989  | 925.70   | each  | 72  | 66,650.40 |
| 1.21 | 17.44      | Providing and fixing single equal plain junction of required degree   |          |       |     |           |
|      | 17.44.1    | 100x100x100 mm  |          |       |     |           |
|      | 17.44.1.3  | Hubless centrifugally cast (spun) iron pipe epoxy inside & outside IS: 15905  | 581.45   | each  | 144 | 83,728.80 |
| 1.22 | 17.56      | Providing and fixing terminal guard:  |          |       |     |           |
|      | 17.56.1    | 100 mm  |          |       |     |           |
|      | 17.56.1.3  | Hubless centrifugally cast (spun) iron pipe epoxy inside & outside IS: 15905  | 427.80   | each  | 6   | 2,566.80  |
| 1.23 | 17.57A     | Providing and fixing shielded coupling for Hubless centrifugally cast iron pipes  |          |       |     |           |
|      | 17.57A.1   | 100 mm  |          |       |     |           |
|      | 17.57A.1.1 | S S 304 grade coupling with EPDM rubber gasket  | 432.05   | each  | 143 | 61,783.15 |
| 1.24 | 17.59      | Providing and fixing M.S. stays and clamps for sand cast iron/centrifugally cast (spun) iron pipes of diameter :  |          |       |     |           |
|      | 17.59.1    | 100 mm  | 139.70   | each  | 6   | 838.20    |
| 1.25 | 17.65      | Painting sand cast iron/ centrifugally cast (spun) iron soil, waste vent pipes and fittings with two coats of synthetic enamel paint of any colour such as chocolate grey, or buff etc. over a coat of primer (of approved quality) for new work :  |          |       |     |           |
|      | 17.65.1    | 100 mm diameter pipe  | 82.80    | meter | 90  | 7,452.00  |
| 1.26 | 17.37      | Providing and fixing M.S. holder-bat clamps of approved design to Sand Cast iron/cast iron (spun) pipe embedded in and including cement concrete blocks 10x10x10cm of 1:2:4 mix (1 cement : 2 coarse sand : 4 graded stone aggregate 20mm nominal size) including cost of cutting holes and making good the walls etc. :  |          |       |     |           |
|      | 17.37.1    | 100 mm diameter pipe  | 362.85   | each  | 90  | 32,656.50 |
| 1.27 | 18.10      | Providing and fixing G.I. soil / waste pipes complete with G.I. fittings and clamps, i/c cutting and making good the walls etc.   |          |       |     |           |
|      | 18.10.4    | 32 mm dia. nominal bore   | 667.00   | metre | 25  | 16,675.00 |
|      | 18.10.5    | 40 mm dia. nominal bore   | 811.90   | metre | 15  | 12,178.50 |
|      | 18.10.6    | 50 mm dia. nominal bore   | 1,048.35 | metre | 25  | 26,208.75 |
| 1.28 | 17.60      | Providing and fixing trap of self cleansing design with screwed down or hinged grating with or without vent arm complete, including cost of cutting and making good the walls and floors :  |          |       |     |           |
|      | 17.60.1    | 100 mm inlet and 100 mm outlet  |          |       |     |           |
|      | 17.60.1.3  | Hubless centrifugally cast (spun) iron epoxy coated inside & outside as per IS:15905  | 854.55   | each  | 28  | 23,927.40 |
| 1.29 | 18.77      | Cutting holes up to 15 x 15 cm in R.C.C. floors and roofs for passing drain pipe etc. and repairing the hole after insertion of drain pipe etc. with cement concrete 1:2:4 ( 1 Cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size ), including finishing complete so as to make it leak proof.  | 452.00   | each  | 28  | 12,656.00 |
| 1.30 | NSI-4      | Providing & fixing in position GI 100x50 elbow floor drain including cost of cutting and making good the walls and floors wherever required.  | 1,541.00 | each  | 12  | 18,492.00 |
| 1.31 | NSI-5      | Providing and fixing 125 mm dia S/S grating (with or without hole)for floor or Nahani trap.   | 620.00   | each  | 40  | 24,800.00 |
| 1.32 | NSI-6      | Providing and fixing soap dish holder from wall of standard shape with fittings of approved quality with all complete. Make Jaquar - ACN-1131N & Equivalent   | 1,159.00 | each  | 3   | 3,477.00  |
| 1.33 | NSI-7      | Providing and fixing soap dispenser with glass bottle from wall of standard shape with fittings of approved quality with all complete. Make Jaquar - ACN-1135N & Equivalent   | 2,095.00 | each  | 2   | 4,190.00  |
| 1.34 | NSI-8      | Providing & fixing 600 mm towel rail long stainless steel from wall face with concealed fittings arrangement of approved quality with all complete. Make Jaquar - CAN-1111SM  | 2,025.00 | each  | 2   | 4,050.00  |
| 1.35 | 18.65      | Providing and fixing PTMT soap Dish Holder having length of 138mm, breadth 102mm, height of 75mm with concealed fitting arrangements, weighing not less than 106 gms.   | 111.45   | each  | 0   | -         |
| 136  | 17.73      | Providing and fixing PTMT towel rail complete with brackets fixed to wooden cleats with CP brass screws with concealed fittings arrangement of approved quality and colour.   |          |       |     |           |
|      | 17.73.2    | 600 mm long towel rail with total length of 645 mm, width 78 mm and effective height of 88 mm, weighing not less than 190 gms.  | 708.95   | each  | 0   | -         |
| 1.37 | 12.22      | Making khurras 45x45 cm with average minimum thickness of 5 cm cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate of 20 mm nominal size) over P.V.C. sheet 1 m x1 m x 400 micron, finished with 12 mm cement plaster 1:3 (1 cement : 3 coarse sand) and a coat of neat cement, rounding the edges and making and finishing the outlet complete. | 298.25   | each  | 6   | 1,789.50  |
| 1.38 | 12.41      | Providing and fixing on wall face unplasticised Rigid PVC rain water pipes conforming to IS : 13592 Type A, including jointing with seal ring conforming to IS : 5382, leaving 10 mm gap for thermal expansion, (i) Single socketed pipes.  | 377.40   | metre | 90  | 33,966.00 |
| 1.39 | 12.42      | Providing and fixing on wall face unplasticised - PVC moulded fittings/ accessories for unplasticised Rigid PVC rain water pipes conforming to IS : 13592 Type A, including jointing with seal ring conforming to IS : 5382, leaving 10 mm gap for thermal expansion.   |          |       |     |           |
|      | 12.42.1    | Coupler   |          |       |     |           |
|      | 12.42.1.2  | 110 mm  | 136.15   | each  | 45  | 6,126.75  |
|      | 12.42.3    | Single tee with door  |          |       |     |           |
|      | 12.42.3.2  | 110x110x110 mm  | 234.15   | each  | 6   | 1,404.90  |
|      | 12.42.5    | Bend 87.5°  |          |       |     |           |
|      | 12.42.5.2  | 110 mm  | 150.35   | each  | 6   | 902.10    |
|      | 12.42.6    | Shoe (Plain)  |          |       |     |           |
|      | 12.42.6.1  | 110 mm Shoe   | 131.85   | each  | 6   | 791.10    |
| 1.40 | 12.43      | Providing and fixing unplasticised -PVC pipe clips of approved design to unplasticised - PVC rain water pipes by means of 50x50x50 mm hard wood plugs, screwed with M.S. screws of required length, including cutting brick work and fixing in cement mortar 1:4 (1 cement : 4 coarse sand) and making good the wall etc. complete.                                     |          |       |     |           |
|      | 12.43.2    | 110 mm  | 309.50   | each  | 45  | 13,927.50 |

| Sl. No. | Particulars           | Description  | Rate      | Unit      | Qty   | Amount                       |
|---------|-----------------------|--|-----------|-----------|-------|------------------------------|
| 1.41    | NSI-9                 | Supplying and fixing of HDPE pipe (PE grade 63 - PN-8 ) conforming to IS 14333-1996 chemical waste pipes jointed with rubber ring with good quality lubricant with fittings inclusive of all necessary specials like bends, tees, offsets, junctions etc laid under floor/under ceiling/on walls with suitable clamps and specials curing, necessary chasing, jointing and restoring to original conditions, testing etc. including all other incidental charges etc. complete for successful completion of work as per specifications, and as directed by Engineer-in-Charge. |           |           |       |                              |
|         | a)                    | 110 mm outer dia   | 1,543.00  | metre     | 0     | -                            |
|         | b)                    | 50 mm outer dia  | 558.00    | metre     | 0     | -                            |
| 1.42    | NSI-10                | Providing & fixing in position upvc P"or S" trap of self cleaning design of following sizes for the embedded areas Making proper connection with chemical sealant joint , cutting chase / hole in floors /slabs and bringing the same in proper condition in cement concrete 1:2:4 mix complete as required. including cost of cutting and making good the walls and floors wherever required.   | 627.00    | each      | 0     | -                            |
| 1.43    | NSI-11                | Providing & Fixing water cooler wth stainless steel having storage capacity of 80 liter & cooling capacity 60 liter / hour with Reverse osmosis system & ultra violet membrane TDS reduction 90% having automatic back wash system with filtration unit & all other required accessories complete in all respect as per direction of the engineer in charge .  | 65,604.00 | each      | 0     | -                            |
|         |                       | <b>TOTAL</b>   |           |           |       | <b>795,185.95 145,737.00</b> |
|         |                       | <b>Sub Head – II Water Supply</b>  |           |           |       |                              |
| 2.1     | 18.10                 | Providing and fixing G.I. pipes complete with G.I. fittings and clamps, i/c cutting and making good the walls etc.   |           |           |       |                              |
|         |                       | <b>Internal work – Exposed on wall.</b>  |           |           |       |                              |
|         | 18.10.2               | 20 mm nominal outer dia Pipes  | 437.30    | metre     | 45    | 19,678.50                    |
|         | 18.10.3               | 25 mm nominal outer dia Pipes  | 551.70    | metre     | 125   | 68,962.50                    |
|         | 18.10.4               | 32 mm nominal outer dia Pipes  | 667.00    | metre     | 60    | 40,020.00                    |
|         | 18.10.5               | 40 mm nominal outer dia Pipes  | 811.90    | metre     | 105   | 85,249.50                    |
|         | 18.10.6               | 50 mm nominal outer dia Pipes  | 1,048.35  | metre     | 25    | 26,208.75                    |
|         | NSI-12a               | 65 mm nominal outer dia Pipes  | 1,084.00  | metre     | 10    | 10,840.00                    |
|         | NSI-12b               | 80 mm nominal outer dia Pipes  | 1,276.00  | metre     | 5     | 6,380.00                     |
| 2.2     | 18.8                  | Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply, including all CPVC plain & brass threaded fittings, i/c fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and the cost of cutting chases and making good the same including testing of joints complete as per direction of Engineer in Charge.   |           |           |       |                              |
|         |                       | Concealed including cutting chases and making good the wall etc.   |           |           |       |                              |
|         | 18.8.2                | 15 mm nominal outer dia Pipes  | 537.60    | metre     | 86    | 45,964.80                    |
|         | 18.8.3                | 20 mm nominal outer dia Pipes  | 627.25    | metre     | 84    | 52,689.00                    |
|         | 18.8.4                | 25 mm nominal outer dia Pipes  | 739.30    | metre     | 83    | 60,992.25                    |
| 2.3     | 18.17                 | Providing and fixing gun metal gate valve with C.I. wheel of approved quality (screwed end) :  |           |           |       |                              |
|         | 18.17.1A              | 20 mm dia. nominal bore  | 539.95    | each      | 4     | 2,159.80                     |
|         | 18.17.1               | 25 mm dia. nominal bore  | 622.40    | each      | 24    | 14,937.60                    |
|         | 18.17.2               | 32 mm dia. nominal bore  | 689.60    | each      | 2     | 1,379.20                     |
|         | 18.17.3               | 40 mm dia. nominal bore  | 826.10    | each      | 2     | 1,652.20                     |
|         | 18.17.4               | 50 mm dia. nominal bore  | 1,026.65  | each      | 2     | 2,053.30                     |
| 2.4     | 18.18                 | Providing and fixing ball valve (brass) of approved quality, High or low pressure, with plastic floats complete :  |           |           |       |                              |
|         | 18.18.3               | 25 mm nominal bore   | 464.05    | each      | 2     | 928.10                       |
| 2.5     | NSI-13                | Providing and fixing hand held ablation fitting (health faucet) with 1.2 meter long flexible tube and wall hook, all complete approved engineer-in-charge  | 2,373.00  | each      | 21    | 49,833.00                    |
| 2.6     | NSI-14                | Supply and fixing of 15mm CP brass 2-Way Bib Cock with wall flange and suitable length CP brass extension pipe all of approved engineer-in-charge  | 2,654.00  | each      | 21    | 55,734.00                    |
| 2.7     | 18.48                 | Providing and placing on terrace (at all floor levels) polyethylene water storage tank, IS : 12701 marked, with cover and suitable locking arrangement and making necessary holes for inlet, outlet and overflow pipes but without fittings and the base support for tank  | 11.00     | per litre | 8,500 | 93,500.00                    |
| 2.8     | 18.51                 | Providing and fixing C.P. brass long nose bib cock of approved quality conforming to IS standards and weighing not less than 810 gms.  |           |           |       |                              |
|         | 18.51.1               | 15 mm nominal bore   | 796.95    | each      | 2     | 1,593.90                     |
| 2.9     | 18.52                 | Providing and fixing C.P. brass stop cock (concealed) of standard design and of approved make conforming to IS:8931.   |           |           |       |                              |
|         | 18.52.1               | 15 mm nominal bore   | 670.45    | each      | 12    | 8,045.40                     |
| 2.10    | 18.53                 | Providing and fixing C.P. brass angle valve for basin mixer and geyser points of approved quality conforming to IS:8931  |           |           |       |                              |
|         | 18.53.1               | 15mm nominal bore  | 574.30    | each      | 33    | 18,951.90                    |
| 2.11    | 18.21                 | Providing and fixing uplasticsed PVC connection pipe with brass unions :   |           |           |       |                              |
|         | 18.21.2               | 45 cm length   |           |           |       |                              |
|         | 18.21.2.1             | 15 mm nominal bore   | 97.75     | each      | 33    | 3,225.75                     |
| 2.12    | 18.22                 | Providing and fixing C.P. brass shower rose with 15 or 20 mm inlet :   |           |           |       |                              |
|         | 18.22.2               | 150 mm diameter  | 222.35    | each      | 0     | -                            |
| 2.13    | 17.22B                | Providing and fixing CP Brass Single lever telephonic wall mixer of quality & make as approved by Engineer in charge.  |           |           |       |                              |
|         | (a) 15 mm nominal dia |  | 6,940.75  | each      | 3     | 20,822.25                    |
| 2.14    | NSI-15                | Providing , Fixing, testing and commissioning of CP Brass 150 mm x 150 mm Shower head with wall flange with all accessories as required and making good the walls wherever required. ( MAKE- JAQUAR -Model No- OHS-35495 or EQUIVALENT.)   | 4,875.00  | each      | 3     | 14,625.00                    |
| 2.15    | NSI-16                | Supply , Erection , Testing & Commissioning of Automatic water level control panel & related accessories for pumping automation with consisting of automatic water level controller , level sensor with stainless steel probe, motorized butterfly valve, motorized valve controller with complete in all respect.   |           |           |       |                              |
|         | a                     | upto 50 mm dia. nominal bore   | 26,947.00 | each      | 1     | 26,947.00                    |
|         |                       | <b>TOTAL</b>   |           |           |       | <b>569,014.70 164,359.00</b> |
|         |                       | <b>SUBHEAD – III Drainage</b>  |           |           |       |                              |

| Sl. No. | Particulars  | Rate      | Unit  | Qty   | Amount            |
|---------|--|-----------|-------|-------|-------------------|
| 3.1     | NSI-17 Supply and fixing HDPE double wall corrugated ( DWC ) I.S 16098 ( Part - 2 ) 3013 for soil / waste pipe under ground drainage system with jointed with rubber ring with good quality lubricant for fittings, inclusive of all necessary specials like bends, tees, offsets, junctions, re excavation and refilling etc complete.  |           |       |       |                   |
|         | a 150 mm diameter  | 1,024.00  | metre | 10    | 10,240.00         |
|         | b 200 mm diameter  | 1,298.00  | metre |       | -                 |
| 3.2     | 19.4 Providing and fixing square-mouth S.W. gully trap class SP-1 complete with C.I. grating brick masonry chamber with water tight C.I. cover with frame of 300 x300 mm size (inside) the weight of cover to be not less than 4.50 kg and frame to be not less than 2.70 kg as per standard design :  |           |       |       |                   |
|         | 19.4.3 180x150 mm size P type  |           |       |       |                   |
|         | 19.4.3.1 With fly ash bricks (non modular) bricks of class designation 7.5   | 2,802.15  | each  | 4     | 11,208.60         |
| 3.3     | 19.6 Providing and laying non-pressure NP2 class (light duty) R.C.C. pipes with collars jointed with stiff mixture of cement mortar in the proportion of 1:2 (1 cement : 2 fine sand) including testing of joints etc. complete :  |           |       |       |                   |
|         | 19.6.2 150 mm dia. R.C.C. pipe   | 556.45    | metre | 25    | 13,911.25         |
|         | 19.6.3 250 mm dia. R.C.C. pipe   | 899.80    | metre |       | -                 |
|         | 19.6.4 300 mm dia. R.C.C. pipe   | 994.30    | metre |       | -                 |
| 3.4     | 19.7 Constructing brick masonry manhole in cement mortar 1:4 (1 cement :4 coarse sand) with RCC top slab with 1:2:4 mix ( 1 cement : 2 coarse sand : 4 stone aggregate 20 mm nominal size ) , foundation concrete 1:4:8 mix (1 cement : 4 coarse sand : 8 stone aggregate 40 mm nominal size ) inside plastering 12 mm thick with cement mortar 1:3 (1 cement : 3 coarse sand) finished with a floating coat of neat cement, foundation concrete 1:3:6 mix (1 cement :3 coarse sand : 6 graded stone aggregate 40 mm nominal size),and making necessary channel in cement concrete 1:2:4 (1 cement :2 coarse sand :4 graded stone aggregate 20 mm nominal size) finished with a floating coat of neat cement complete as per standard design .   |           |       |       |                   |
|         | 19.7.1 Inside size 90x80 cms and 45 cms deep including CI cover with frame ( light duty ) 455x10 mm internal dimensions total weight of cover & frame to be not less than 38 kg (weight of cover 23 kg & weight of frame 15 kg )   |           |       |       |                   |
|         | 19.7.1.1 with common burnt clay FPS ( non modular ) bricks of class designation 7.5  | 12,770.55 | Each  | 4.00  | 51,082.20         |
| 3.5     | 19.8 Extra depth for manhole 90x80 cm  |           |       |       |                   |
|         | 19.8.1.1 With FPS bricks class designation 7.5   | 8,825.40  | Metre | 0.40  | 3,530.16          |
| 3.6     | 19.16 Providing orange colour safety foot rest of minimum 6 mm thick plastic encapsulated as per IS : 10910, on 12 mm dia steel bar conforming to IS:1786, having minimum cross section as 23 mmx25 mm and over all minimum length 263 mm and width as 165 mm with minimum 112 mm space between protruded legs having 2 mm tread on top surface by ribbing or chequering esides necessary and adequate anchoring projections on tail length on 138 mm as per standard drawing and suitable to with stand the bend test and chemical resistance test as per pecifications and having manufacture's permanent identification mark to be visible even after fixing,including fixing in manholes with 30x20x15 cm cement concrete block 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size) complete as per design. | 553.70    | Each  | 36.00 | 19,933.20         |
| 3.7     | 19.27 Constructing brick masonry road gully chamber 50x45x60 cm with bricks in cement mortar 1:4 (1 cement : 4 coarse sand) including 500x450 mm pre-cast R.C.C. horizontal grating with frame complete as per standard design :   |           |       |       |                   |
|         | 19.27.1 With common burnt clay F.P.S. (non modular) bricks of class designation 7.5  | 5,957.90  | Each  | 6.00  | 35,747.40         |
|         | <b>TOTAL</b>   |           |       |       | <b>135,412.81</b> |
|         |  |           |       |       | <b>10,240.00</b>  |

**ESTIMATE OF FOR CONSTRUCTION OF ADDITIONAL DORMITORY & STAFF QUARTERS AT JNV  
KUPWARA, JAMMU AND KASHMIR**

**Balance 0.50 Unit Girls Dormitory with 02 nos warden residence (Double Storey, RCC framed structure), Plinth area 691.50 +110.00=801.50 Sqm.**

**ABSTRACT OF COST FOR ELECTRICAL WORKS**

| Sl.No. | Name of Work                           | TOTAL AMOUNT(IN RS.) |                   |
|--------|--|----------------------|-------------------|
|        |  | DSR-2022             | MR                |
|        |  |                      |                   |
| I      | SUB HEAD - I: CIRCUIT CUM POINT WIRING | 1,179,671.00         | 205,592.74        |
| II     | SUBHEAD -II - FITTINGS & FIXTURES      | 152,880.00           | 444,625.79        |
| III    | SUBHEAD - III - DISTRIBUTION BOARDS    | 133,514.00           | -                 |
| IV     | SUBHEAD - IV - LIGHTNING CONDUCTOR     | 71,606.00            | 24,082.88         |
|        | <b>TOTAL</b>                           | <b>1,537,671.00</b>  | <b>674,301.41</b> |
|        | Say in lacs                            | 15.38                | 6.74              |

| ESTIMATE OF FOR CONSTRUCTION OF ADDITIONAL DORMITORY & STAFF QUARTERS AT JNV KUPWARA, JAMMU AND KASHMIR                                      |              |   |       |     |          |     |            |     |
|--|--------------|---|-------|-----|----------|-----|------------|-----|
| Detailed Estimate for ELECTRICAL Works   |              |   |       |     |          |     |            |     |
| Balance 0.50 Unit Girls Dormitory with 02 nos warden residence (Double Storey, RCC framed structure), Plinth area 691.50 +110.00=801.50 Sqm. |              |   |       |     |          |     |            |     |
| S.No.  | DSR-2022/NSI | Description   | Unit  | Qty | Rate     |     | Amount     |     |
|  |              |   |       |     | DSR-2022 | NSI | DSR-2022   | NSI |
|  |              | <b>SUB HEAD - I: CIRCUIT CUM POINT WIRING</b>   |       |     |          |     |            |     |
|  |              |   |       |     |          |     |            |     |
|  |              | <b>SWITCH CONTROL LIGHT POINTS</b>  |       |     |          |     |            |     |
| 1  | DSR 1.10     | Wiring for light point/ fan point/ exhaust fan point/ call bell point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable in surface / recessed medium class PVC conduit, with modular switch, modular plate, suitable GI box and earthing the point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable etc. as required.                              |       |     |          |     |            |     |
| 1.1  | DSR 1.10.3   | Group C   | Point | 256 | 1,467.00 |     | 375,552.00 |     |
|  |              |   |       |     |          |     |            |     |
| 2  | DSR-1.55     | Wiring for group controlled (looped) light point/fan point/exhaust fan point/ call bell point ( without Independent switch etc.) with 1.5 sq. mm FRLS PVC insulated copper conductor single core cable in surface/ recessed PVC conduit, and earthing the point with 1.5 sq. mm FRLS PVC insulated copper conductor single core cable etc as required. (Switch Control Secondary Points)  | Point | 24  | 858.00   |     | 20,592.00  |     |
| 2.1  | DSR-1.55.3   | Group C   |       |     |          |     |            |     |
|  |              |   |       |     |          |     |            |     |
| 3  | DSR-1.3      | Wiring for light point/ fan point/ exhaust fan point/ call bell point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable in surface / recessed steel conduit, with modular switch, modular plate, suitable GI box and earthing the point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable etc. as required. (Switch Control Primary Points)         |       |     |          |     |            |     |
| 3.1  | DSR-1.3.3    | Group C   | Point | 0   | 1,845.00 |     | -          |     |
|  |              |   |       |     |          |     |            |     |
| 4  | DSR-1.54     | Wiring for group controlled (looped) light point/fan point/exhaust fan point/ call bell point (without Independent switch etc.) with 1.5 sq. mm FRLS PVC insulated copper conductor single core cable in surface/ recessed steel conduit, and earthing the point with 1.5 sq. mm FRLS PVC insulated copper conductor single core cable etc as required. (Switch Control Secondary Points) |       |     |          |     |            |     |
| 4.1  | DSR-1.54.3   | Group C   | Point | 0   | 1,094.00 |     | -          |     |
|  |              |   |       |     |          |     |            |     |
|  |              | <b>MCB CONTROL LIGHT POINTS</b>   |       |     |          |     |            |     |

|     |             |   |       |      |          |          |            |            |
|-----|-------------|---|-------|------|----------|----------|------------|------------|
| 5   | NSI-1       | Wiring for light point/ fan point/ exhaust fan point/ call bell point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable in surface / recessed FRLS PVC conduit, with modular switch, modular plate, suitable GI box and earthing the point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable etc. as required. (Switch Control Primary Points)  |       |      |          |          |            |            |
| 5.1 | NSI-1.1     | Primary point controlled by one MCB.  | Point | 12   |          | 1,523.13 |            | 18,277.51  |
| 5.2 | NSI-1.2     | Same as item above but Secondary point. i.e. Points to be looped with Primary point with 2.5 sqmm wire and Point wiring   | Point | 12   |          | 1,354.89 |            | 16,258.72  |
| 6   | DSR 1.12    | Wiring for light/ power plug with 2X4 sq. mm FRLS PVC insulated copper conductor single core cable in surface/ recessed medium class PVC conduit alongwith 1 No. 4 sq. mm FRLS PVC insulated copper conductor single core cable for loop earthing as required.  | Metre | 200  | 334.00   |          | 66,800.00  |            |
| 7   | DSR 1.14    | Wiring for circuit/ submain wiring alongwith earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface/ recessed medium class PVC conduit as required.   |       |      |          |          |            |            |
| 7.1 | DSR 1.14.1  | 2 X 1.5 sq. mm + 1 X 1.5 sq. mm earth wire  | Metre | 20   | 233.00   |          | 4,660.00   |            |
| 7.2 | DSR 1.14.2  | 2 X 2.5 sq. mm + 1 X 2.5 sq. mm earth wire  | Metre | 1250 | 275.00   |          | 343,750.00 |            |
| 7.3 | DSR 1.14.4  | 2 X 6 sq. mm + 1 X 6 sq. mm earth wire  | Metre | 350  | 439.00   |          | 153,650.00 |            |
| 7.4 | DSR 1.14.5  | 2 x 10 sq. mm + 1 x 10 sq.mm earth wire   | Metre | 50   | 570.00   |          | 28,500.00  |            |
| 7.5 | DSR 1.14.10 | 4 X 10 sq. mm + 2 X 6 sq. mm earth wire   | Metre | 80   | 1,005.00 |          | 80,400.00  |            |
| 7.6 | DSR 1.14.11 | 4 X 16 sq. mm + 2 X 6 sq. mm earth wire   | Metre | 50   | 1,365.00 |          | 68,250.00  |            |
| 8   | DSR 1.31    | Supplying and fixing suitable size GI box with modular plate and cover in front on surface or in recess including providing and fixing 3 pin 5/6 Amp modular socket outlet and 5/6 A modular switch, connection etc. as required.   | Each  | 16   | 477.00   |          | 7,632.00   |            |
| 9   | NSI-2       | Supply and Wiring for 250 volts single phase and neutral 2 Nos 6 amps socket outlet with control by 1 No switched with 2.5 sq.mm PVC insulated copper conductor 1100 volts grade stranded flexible FRLS wires in concealed or surface mounted 25 mm dia 2mm thick PVC conduit including providing and fixing of 6 amps 3 pin switch socket outlet of approved make and design in 2 mm thick GI box with grid plate and earthing of third pin of the socket with 2.5 Sq. mm PVC insulated copper conductor stranded flexible FRLS wire.(maximum four no. of switches socket shall be connected on one circuit) | Each  | 96   |          | 1,781.84 |            | 171,056.52 |

|      |            |   |      |    |        |           |           |   |
|------|------------|---|------|----|--------|-----------|-----------|---|
|      |            |   |      |    |        |           |           |   |
| 10   | DSR 1.32   | Supplying and fixing suitable size GI box with modular plate and cover in front on surface or in recess, including providing and fixing 6 pin 5/6 & 15/16 A modular socket outlet and 15/16 A modular switch, connections etc. as required.   | Each | 22 | 586.00 |           | 12,892.00 |   |
|      |            |   |      |    |        |           |           |   |
| 11   | NSI-3      | Supplying and fixing 63 A, 415 V, TPN Industrial type socket outlet, with 4 pole and earth, metal enclosed plug top alongwith 63 A "C" curve, TPMCB, in sheet steel enclosure, on surface or in recess, with chained metal cover for the socket outlet and complete with connections, testing and commissioning etc. as required. | Each | 0  |        | 11,284.98 |           | - |
|      |            |   |      |    |        |           |           |   |
| 12   | NSI-4      | Supplying and fixing 80 A, 415 V, TPN Industrial type socket outlet, with 4 pole and earth, metal enclosed plug top alongwith 80 A "C" curve, TPMCB, in sheet steel enclosure, on surface or in recess, with chained metal cover for the socket outlet and complete with connections, testing and commissioning etc. as required. | Each | 0  |        | 17,343.23 |           | - |
|      |            |   |      |    |        |           |           |   |
| 13   | DSR-1.33   | Supplying and fixing <b>3 pin, 5 A ceiling rose</b> on the existing junction box/ wooden block including connections etc. as required.  | Each | 19 | 87.00  |           | 1,653.00  |   |
|      |            |   |      |    |        |           |           |   |
| 14   | DSR-1.57   | Supplying & fixing suitable size GI box with modular plate and cover in front on surface or in recess i/c providing and fixing 25 amp modular socket outlet and 25 Amps modular SP MCB, "C" curve including connection, painting etc. as required. (AC's & Gysers)  | Each | 10 | 727.00 |           | 7,270.00  |   |
|      |            |   |      |    |        |           |           |   |
| 15   | DSR 1.24   | Supplying and fixing following modular switch/ socket on the existing modular plate & switch box including connections but excluding modular plate etc. as required.  |      |    |        |           |           |   |
| 15.1 | DSR 1.24.6 | Telephone socket outlet   | Nos  | 10 | 148.00 |           | 1,480.00  |   |
|      |            |   |      |    |        |           |           |   |
| 16   | DSR 1.27   | Supplying and fixing following size/ modules, GI box alongwith modular base & cover plate for modular switches in recess etc. as required.  |      |    |        |           |           |   |
| 16.1 | DSR 1.27.1 | 1 or 2 Module (75mmX75mm)   | Nos  | 2  | 298.00 |           | 596.00    |   |
| 16.2 | DSR 1.27.4 | 6 module (78mm X 205 mm X 50 mm)  | Nos  | 2  | 402.00 |           | 804.00    |   |
|      |            |   |      |    |        |           |           |   |
| 17   | DSR 1.24   | Supplying and fixing following size/ modules, GI box alongwith modular base & cover plate for modular switches in recess etc. as required.  |      |    |        |           |           |   |
| 17.1 | DSR 1.24.4 | 3 pin , 5/6 amps socket outlet  | Each | 2  | 122.00 |           | 244.00    |   |
| 17.1 | DSR 1.24.1 | 5/6 amps switch   | Each | 2  | 103.00 |           | 206.00    |   |
|      |            |   |      |    |        |           |           |   |



|      |            |  |      |     |          |            |                     |                   |
|------|------------|--|------|-----|----------|------------|---------------------|-------------------|
| 18   | DSR 1.21   | Supplying and fixing of following sizes of medium class PVC conduit along with accessories in surface/recess including cutting the wall and making good the same in case of recessed conduit as required.  |      |     |          |            |                     |                   |
| 18.1 | DSR 1.21.2 | 25 mm  | Mtr  | 20  | 145.00   |            | 2,900.00            |                   |
| 18.2 | DSR 1.21.3 | 32 mm  | Mtr  | 10  | 184.00   |            | 1,840.00            |                   |
|      |            |  |      |     |          |            |                     |                   |
|      |            | <b>TOTAL CARRIED TO SUMMARY FOR SUBHEAD - I</b>  |      |     |          |            | <b>1,179,671.00</b> | <b>205,592.74</b> |
|      |            |  |      |     |          |            |                     |                   |
|      |            | <b>SUBHEAD -II - FITTINGS &amp; FIXTURES</b>   |      |     |          |            |                     |                   |
|      |            |  |      |     |          |            |                     |                   |
| 1    | NSI-1      | Supply, Installation, Testing and Commissioning of 10 W Bulk head Light.   | Each | 0   |          | 1,544.26   |                     | -                 |
|      |            |  |      |     |          |            |                     |                   |
| 2    | NSI-2      | Supply, Installation, Testing and Commissioning of 5W Mirror Light.  | Each | 0   |          | 593.95     |                     | -                 |
|      |            |  |      |     |          |            |                     |                   |
| 3    | NSI-3      | Supply, Installation, Testing and Commissioning of 18W Surface/Recessed Mounted LED circular Downlighter.  | Each | 120 |          | 1,960.02   |                     | 235,202.71        |
|      |            |  |      |     |          |            |                     |                   |
| 4    | NSI-4      | Supply, Installation, Testing and Commissioning of 18/20W Wall/Surface mouted 4 ft. LED  | Each | 8   |          | 1,128.50   |                     | 9,027.98          |
|      |            |  |      |     |          |            |                     |                   |
| 5    | NSI-5      | Supply, Installation, Testing and Commissioning of 15W Surface mounted LED Square Downlighter.   | Each | 48  |          | 1,781.84   |                     | 85,528.26         |
|      |            |  |      |     |          |            |                     |                   |
| 6    | NSI-6      | Supply, Installation, Testing and Commissioning of 150 W CHANDELIER  | Each | 0   |          | 118,789.25 |                     | -                 |
|      |            |  |      |     |          |            |                     |                   |
| 7    | NSI-7      | Supply, Installation, Testing and Commissioning of 12/9W Recessed mounted LED circular Downlighter.  | Each | 41  |          | 1,425.47   |                     | 58,444.31         |
|      |            |  |      |     |          |            |                     |                   |
| 8    | NSI-8      | Supply, Installation, Testing and Commissioning of 9W (Nominal) Wall Bracket Light   | Each | 12  |          | 296.97     |                     | 3,563.68          |
|      |            |  |      |     |          |            |                     |                   |
| 9    | DSR-19.1   | Supply, Installation, Testing and Commissioning of 1200 mm sweep, BEE 5 star rated, ceiling fan with Brush Less Direct Current (BLDC) Motor, class of insulation: B, 3 nos. blades, 30 cm long down rod, 2nos. canopies, shackle kit, safety rope, copper winding, Power Factor not less than 0.9, Service Value (CM/M/W) minimum 6.00, Air delivery minimum 210 Cum/Min , 350 RPM (tolerance as per IS : 374-2019),THD less than 10%, remote or electronic regulator unit for speed control and all remaining accessories including safety pin, nut bolts, washers, temperature rise=75 degree C (max.), insulation resistance more than 2 mega ohm, suitable for 230 V, 50 Hz, single phase AC Supply, earthing etc. complete as required. | Each | 56  | 2,730.00 |            | 152,880.00          |                   |

|     |           |   |      |     |           |          |                   |                   |
|-----|-----------|---|------|-----|-----------|----------|-------------------|-------------------|
|     |           |   |      |     |           |          |                   |                   |
| 10  | NSI-9     | Supply Installation, Testing and Commissioning of 250 mm dia Domestic Exhaust Fan   | Each | 19  |           | 2,782.04 |                   | 52,858.84         |
|     |           |   |      |     |           |          |                   |                   |
|     |           |   |      |     |           |          |                   |                   |
|     |           | <b>TOTAL CARRIED TO SUMMARY FOR SUBHEAD - II</b>  |      |     |           |          | <b>152,880.00</b> | <b>444,625.79</b> |
|     |           |   |      |     |           |          |                   |                   |
|     |           | <b>SUBHEAD - III - DISTRIBUTION BOARDS</b>  |      |     |           |          |                   |                   |
|     |           |   |      |     |           |          |                   |                   |
| 1   | DSR 2.3   | Supplying and fixing following way, single pole and neutral, sheet steel, MCB distribution board, 240 V, on surface/ recess, complete with tinned copper bus bar, neutral bus bar, earth bar, din bar, interconnections, powder painted including earthing etc. as required. (But without MCB/RCCB/Isolator)  |      |     |           |          |                   |                   |
| 1.1 | DSR 2.3.1 | 6 way, Double door  | Each | 0   | 2,206.00  |          | -                 |                   |
| 1.2 | DSR 2.3.2 | 8 way, Double door  | Each | 0   | 2,573.00  |          | -                 |                   |
| 1.3 | DSR 2.3.3 | 12 way, Double door   | Each | 2   | 2,315.00  |          | 4,630.00          |                   |
|     |           |   |      |     |           |          |                   |                   |
| 2   | DSR 2.4   | Supplying and fixing following way, three pole and neutral, sheet steel, MCB distribution board, 415 volts, on surface/ recess complete with tinned copper busbar, neutral busbar, earth bar, din bar, detachable gland plate, interconnections, phosphatized and powder painted including earthing etc. as required. (But without MCB/ RCCB/ Isolator)   |      |     |           |          |                   |                   |
| 2.1 | DSR 2.4.1 | 4 way (4 + 12), Double door   | Each | 0   | 4,091.00  |          | -                 |                   |
| 2.2 | DSR 2.4.2 | 6 way (4 + 18), Double door   | Each | 0   | 4,974.00  |          | -                 |                   |
| 2.3 | DSR 2.4.3 | 8 way (4 + 24), Double door   | Each | 6   | 5,967.00  |          | 35,802.00         |                   |
|     |           |   |      |     |           |          |                   |                   |
| 3   | DSR 2.5   | Supplying and fixing of following ways surface/ recess mounting, vertical type, 415 V, TPN MCB distribution board of sheet steel, dust protected, duly powder painted, inclusive of 200 A tinned copper bus bar, common neutral link, earth bar, din bar for mounting MCBs (but without MCBs and incomer) as required . (Note :Vertical type MCB TPDB is normally used where 3 phase outlets are required.) |      |     |           |          |                   |                   |
| 3.1 | DSR 2.5.3 | 12 way (4 + 36), Double door  | Each | 0   | 12,833.00 |          | -                 |                   |
|     |           |   |      |     |           |          |                   |                   |
| 4   | DSR 2.10  | Supplying and fixing 5 A to 32 A rating, 240/415 V, 10 kA, "C" curve, miniature circuit breaker suitable for inductive load of following poles in the existing MCB DB complete with connections, testing and commissioning etc. as required.  |      |     |           |          |                   |                   |
| 4.1 | 2.10.1    | Single Pole   | Each | 124 | 256.00    |          | 31,744.00         |                   |

|     |            |  |      |    |           |  |                   |          |
|-----|------------|--|------|----|-----------|--|-------------------|----------|
| 4.2 | 2.10.2     | Single Pole Neutral  | Each | 0  | 599.00    |  | -                 |          |
|     |            |  |      |    |           |  |                   |          |
| 5   | DSR 2.12   | Supplying and fixing following rating, double pole, 240 V, isolator in the existing MCB DB complete with connections, testing and commissioning etc. as required.  |      |    |           |  |                   |          |
| 5.1 | DSR 2.12.1 | 40 A   | Each | 0  | 435.00    |  | -                 |          |
| 5.2 | DSR 2.12.2 | 63 A   | Each | 0  | 527.00    |  | -                 |          |
|     |            |  |      |    |           |  |                   |          |
| 6   | DSR 2.13   | Supplying and fixing following rating, four pole, 415 V, isolator in the existing MCB DB complete with connections, testing and commissioning etc. as required.  |      |    |           |  |                   |          |
| 6.1 | DSR 2.13.1 | 40 A   | Each | 6  | 970.00    |  | 5,820.00          |          |
| 6.2 | DSR 2.13.2 | 63 A   | Each | 2  | 1,034.00  |  | 2,068.00          |          |
|     |            |  |      |    |           |  |                   |          |
| 7   | DSR 2.14   | Supplying and fixing following rating, double pole, (single phase and neutral), 240 V, residual current circuit breaker (RCCB), having a sensitivity current 30 mA in the existing MCB DB complete with connections, testing and commissioning etc. as required. |      |    |           |  |                   |          |
| 7.1 | DSR 2.14.1 | 25 A   | Each | 0  | 2,028.00  |  | -                 |          |
| 7.2 | DSR 2.14.2 | 40 A   | Each | 14 | 2,642.00  |  | 36,988.00         |          |
| 7.3 | DSR 2.14.3 | 63 A   | Each | 6  | 2,722.00  |  | 16,332.00         |          |
|     |            |  |      |    |           |  |                   |          |
| 8   | DSR 2.11   | Supplying and fixing single pole blanking plate in the existing MCB DB complete etc. as required.  | Each | 10 | 13.00     |  | 130.00            |          |
|     |            |  |      |    |           |  |                   |          |
|     |            | <b>TOTAL CARRIED TO SUMMARY FOR SUBHEAD - III</b>  |      |    |           |  | <b>133,514.00</b> | <b>-</b> |
|     |            |  |      |    |           |  |                   |          |
|     |            | <b>SUBHEAD - IV - LIGHTNING CONDUCTOR</b>  |      |    |           |  |                   |          |
|     |            |  |      |    |           |  |                   |          |
| 1   | DSR 5.6    | Earthing with Cu. earth Plate 600mm x 600mm x 3mm thick including accessories, and providing masonry enclosure with cover plate (CI heavy duty) having locking arrangement and watering pipe of 2.7 mtr long etc. with charcoal or coke and salt ) as required.  | Sets | 2  | 13,838.00 |  | 27,676.00         |          |
|     |            |  |      |    |           |  |                   |          |
| 2   | DSR 6.2    | Providing and fixing of lightning conductor finial, made of 25 mm dia 300 mm long, G.I. tube, having single prong at top, with 85 mm dia 6 mm thick G.I. base plate including holes etc. complete as required.   | Each | 2  | 518.00    |  | 1,036.00          |          |
|     |            |  |      |    |           |  |                   |          |
| 3   | DSR 6.4    | Jointing copper / G.I. tape (with another copper/ G I tape, base of the finial or any other metallic object) by riveting / nut bolting/ sweating and soldering etc as required.  | Each | 8  | 113.00    |  | 904.00            |          |

|   |          |  |       |    |        |           |                  |                  |
|---|----------|--|-------|----|--------|-----------|------------------|------------------|
|   |          |  |       |    |        |           |                  |                  |
| 4 | DSR 6.7  | Providing and fixing G.I. tape 20 mm X 3 mm thick on parapet or surface of wall for lightning conductor complete as required.(For horizontal run)  | Metre | 75 | 126.00 |           | 9,450.00         |                  |
|   |          |  |       |    |        |           |                  |                  |
| 5 | DSR 6.8  | Providing and fixing G.I. tape 20 mm X 3 mm thick on parapet or surface of wall for lightning conductor complete as required.(For vertical run)  | Metre | 65 | 197.00 |           | 12,805.00        |                  |
|   |          |  |       |    |        |           |                  |                  |
| 6 | DSR 6.12 | Providing and fixing testing joint, made of 20 mm X 3 mm thick G.I. strip, 125 mm long, with 4 nos. of G.I. bolts, nuts, chuck nuts and spring washers etc. complete as required.  | Each  | 10 | 121.00 |           | 1,210.00         |                  |
|   |          |  |       |    |        |           |                  |                  |
| 7 | DSR 6.14 | Providing and laying G.I. tape 32 mm X 6 mm from earth electrode directly in ground as required.   | Metre | 95 | 195.00 |           | 18,525.00        |                  |
|   |          |  |       |    |        |           |                  |                  |
| 8 | NSI-1    | Supply of Lightnig counter - LCD screen shows the number of lightning strikes, hour and date of lightning events Buttons enable TIME/DATE setting and log viewing. Replaceable battery, working life minimum five years, meet the requirements for IS/IEC 62305 and IEC 62561-2.Tested for Electrical ,Mechanical and Chemical as per IEC 62561. | Nos.  | 1  |        | 24,082.88 |                  | 24,082.88        |
|   |          |  |       |    |        |           |                  |                  |
|   |          | <b>TOTAL CARRIED TO SUMMARY SHEET FOR SUBHEAD IV</b>   |       |    |        |           | <b>71,606.00</b> | <b>24,082.88</b> |

| ESTIMATE OF FOR CONSTRUCTION OF ADDITIONAL DORMITORY & STAFF QUARTERS AT JNV KUPWARA, JAMMU AND KASHMIR |   |          |          |      |          |                 |                    |
|---|---|----------|----------|------|----------|-----------------|--------------------|
| ABSTRACT OF COST  |   |          |          |      |          |                 |                    |
| DETAILS OF MEASUREMENT   PRINCIPAL RESIDENCE   (TYPE-5)   |   |          |          |      |          |                 |                    |
| S.N.  | DESCRIPTION OF ITEM   | DSR-2023 | QUANTITY | UNIT | RATES    | AMOUNT DSR ITEM | AMOUNT [M.R. ITEM] |
| <b>A Earth Work</b>   |   |          |          |      |          |                 |                    |
| 1   | Earth work in excavation by mechanical means (Hydraulic excavator) / manual means in foundation trenches or drains (not exceeding 1.5 m in width or 10 sqm on plan), including dressing of sides and ramming of bottoms, lift upto 1.5 m, including getting out the excavated soil and disposal of surplus excavated soil as directed, within a lead of 50 m.   |          |          |      |          |                 |                    |
|   | All kinds of soil   | 2.8.1    | 92.20    | CUM  | 260.30   | 23,999.66       |                    |
| 2   | Filling available excavated earth (excluding rock) in trenches, plinth, sides of foundations etc. in layers not exceeding 20cm in depth,consolidating each deposited layer by ramming and watering, lead upto 50 m and lift upto 1.5 m.   | 2.25     | 64.54    | CUM  | 196.00   | 12,649.84       |                    |
|   |   |          |          |      |          | -               |                    |
| 3   | Extra for every additional lift of 1.5 m or part thereof in excavation / banking excavated or stacked materials.<br>All kinds of soil   | 2.26.1   | 22.33    | CUM  | 126.80   | 2,831.44        |                    |
| 4   | Supplying and filling in plinth with sand under floors, including watering, ramming,consolidating and dressing complete.  | 2.27     | 4.83     | CUM  | 2123.75  | 10,257.71       |                    |
|   |   |          |          |      |          |                 |                    |
| 5   | Excavating, supplying and filling of local earth (including royalty) by mechanical transport upto a lead of 5km also including ramming and watering of the earth in layers not exceeding 20 cm in trenches, plinth, sides of foundation etc. complete.  | 2.25a    | 1.30     | CUM  | 700.50   | 910.65          |                    |
|   |   |          |          |      |          |                 |                    |
| <b>B Concrete Work</b>  |   |          |          |      |          |                 |                    |
| 6   | Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level :1:5:10 (1 cement : 5 coarse sand (zoneIII)derived from natural sources : 10 graded stone aggregate 40 mm nominal size derived from natural sources)   | 4.1.10   | 10.21    | CUM  | 6518.60  | 66,554.91       |                    |
|   |   |          |          |      |          |                 |                    |
| 7   | Providing and laying damp-proof course 40mm thick with cement concrete 1:2:4 (1 cement : 2 coarse sand (zone-III) derived from natural sources : 4 graded stone aggregate 12.5mm nominal size derived from natural sources)   | 4.10     | 10.14    | SQM  | 410.85   | 4,166.02        |                    |
|   |   |          |          |      |          |                 |                    |
| 8   | Providing & applying a coat of residual petroleum bitumen of grade of VG-10 of approved quality using 1.7kg per square metre on damp proof course after cleaning the surface with brushes and finally with a piece of cloth lightly soaked in kerosene oil.   | 4.13     | 10.14    | SQM  | 146.15   | 1,481.96        |                    |
|   |   |          |          |      |          |                 |                    |
| 9   | Making plinth protection 50mm thick of cement concrete 1:3:6 (1 cement : 3 coarse sand (zone-III) derived from natural sources : 6 graded stone aggregate 20 mm nominal size derived from natural sources) over 75mm thick bed of dry brick ballast 40 mm nominal size, well rammed and consolidated and grouted with fine sand,including necessary excavation,levelling & dressing & finishing the top smooth. | 4.17     | 24.780   | SQM  | 749.30   | 18,567.65       |                    |
|   |   |          |          |      |          |                 |                    |
| 10  | Brick edging in full brick width and half brick depth including excavation refilling and disposal of surplus earth lead upto 50 metres. With common burnt clay F.P.S.(non modular) bricks of class designation 75   | 16.7.1   | 41.30    | RM   | 194.30   | 8,024.59        |                    |
|   |   |          |          |      |          |                 |                    |
| <b>C Reinforced Cement Concrete</b>   |   |          |          |      |          |                 |                    |
|   |   |          |          |      |          | -               |                    |
| 11  | Centering and shuttering including strutting, propping etc. and removal of form for all heights :   |          |          |      |          |                 |                    |
| (a)   | Foundations, footings, bases of columns, etc. for mass concrete.  | 5.9.1    | 34.14    | SQM  | 392.15   | 13,388.00       |                    |
| (b)   | Suspended floors, roofs, landings, balconies and access platform.   | 5.9.3    | 75.90    | SQM  | 927.25   | 70,378.28       |                    |
| (c)   | Lintels, beams, plinth beams, girders, bressumers   | 5.9.5    | 77.02    | SQM  | 736.40   | 56,717.53       |                    |
| (d)   | Columns,Pillars, Piers, Abutments, Posts and Struts.  | 5.9.6    | 91.80    | SQM  | 961.30   | 88,247.34       |                    |
| (e)   | Edges of slabs and breaks in floors and walls Under 20 cm wide.   | 5.9.16.1 | 65.90    | RM   | 208.55   | 13,743.45       |                    |
|   |   |          |          |      |          |                 |                    |
| 12  | Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete <b>upto plinth level</b> . Thermo-Mechanically Treated bars of grade Fe-500D or more.   | 5.22.6   | 18.50    | QTL. | 10785.00 | 199,522.50      |                    |
|   |   |          |          |      |          |                 |                    |
| 13  | Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete <b>above plinth level</b> . Thermo-Mechanically Treated bars of grade Fe-500 D or more.   | 5.22.A.6 | 17.22    | QTL. | 10785.00 | 185,717.70      |                    |
|   |   |          |          |      |          |                 |                    |

|                        |  |                |        |     |         |            |  |
|------------------------|--|----------------|--------|-----|---------|------------|--|
| 14                     | Add for plaster drip course/ groove in plastered surface or moulding to R.C.C. projections.  | 5.30           | 109.20 | RM  | 78.40   | 8,561.28   |  |
| 15                     | Providing and laying in position ready mixed or site batched design mix cement concrete for reinforced cement concrete work; using coarse aggregate and fine aggregate derived from natural sources, Portland Pozzolana / Ordinary Portland /Portland Slag cement, admixtures in recommended proportions as per IS: 9103 to accelerate / retard setting of concrete, to improve durability and workability without impairing strength; including pumping of concrete to site of laying, curing, carriage for all leads; but excluding the cost of centering, shuttering, finishing and reinforcement as per direction of the engineer-in-charge; for the following grades of concrete.<br>Note: Extra cement up to 10% of the minimum specified cement content in design mix shall be payable separately. In case the cement content in design mix is more than 110% of the specified minimum cement content, the contractor shall have discretion to either re-design the mix or bear the cost of extra cement. | 5.33           |        |     |         |            |  |
| (I)                    | <b>All works upto plinth level</b>   | 5.33.1         |        |     |         |            |  |
|                        | Concrete of M25 grade with minimum cement content of 330 kg /cum   | 5.33.1.1       |        |     |         |            |  |
|                        | (i) R.C.C. work in Footing   | 5.33.1.1       | 12.74  | CUM | 9504.75 | 121,090.52 |  |
|                        | (ii) R.C.C. work in Beam   | 5.33.1.1       | 4.14   | CUM | 9504.75 | 39,349.67  |  |
|                        | (iii) R.C.C. work in Columns   | 5.33.1.1       | 2.64   | CUM | 9504.75 | 25,092.54  |  |
| (II)                   | <b>All works above plinth level upto floor V level</b>   | 5.33.2         |        |     |         |            |  |
|                        | <b>Concrete of M25 grade with minimum cement content of 330 kg /cum</b>  | 5.33.2.1       |        |     |         |            |  |
|                        | (i) R.C.C. work in Lintel  | 5.33.2.1       | 0.14   | CUM | 9860.40 | 1,380.46   |  |
|                        | (ii) R.C.C. work in Beam   | 5.33.2.1       | 3.23   | CUM | 9860.40 | 31,849.09  |  |
|                        | (iii) R.C.C. work in Columns   | 5.33.2.1       | 4.25   | CUM | 9860.40 | 41,906.70  |  |
|                        | (iv) R.C.C. work in Slab   | 5.33.2.1       | 9.52   | CUM | 9860.40 | 93,871.01  |  |
| <b>D Masonry Work</b>  |  |                |        |     |         |            |  |
| 16                     | Half brick masonry with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in foundations and plinth in : cement mortar 1:4 (1 cement : 4 coarse sand)   | 6.13.2         | 60.04  | Sqm | 1123.80 | 67,472.95  |  |
| 17                     | Extra for providing and placing in position 2 Nos 6mm dia. M.S. bars at every third course of half brick masonry.  | 6.15           | 60.04  | SQM | 104.80  | 6,292.19   |  |
| 18                     | Brick work with non modular fly ash bricks conforming to IS:12894, class designation 10 average compressive strength in superstructure above plinth level up to floor V level in :<br>Cement mortar 1:6 (1 cement : 6 coarse sand)   | 6.34<br>6.34.2 | 7.36   | CUM | 8752.55 | 64,418.77  |  |
| 19                     | Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in foundation and plinth in:Cement mortar 1:6 (1 cement : 6 coarse sand)  | 6.1.2          | 4.10   | CUM | 7132.25 | 29,242.23  |  |
| <b>E Cladding Work</b> |  |                |        |     |         |            |  |
|                        | Providing and fixing 18 mm thick gang saw cut, mirror polished, premoulded and prepolished, machine cut for kitchen platforms, vanity counters, window sills , facias and similar locations of required size, approved shade, colour and texture laid over 20 mm thick base cement mortar 1:4 (1 cement : 4 coarse sand), joints treated with white cement, mixed with matching pigment, epoxy touch ups, including rubbing, curing, moulding and polishing to edges to give high gloss finish etc. complete at all levels.  |                |        |     |         |            |  |
| 20                     | Area of slab upto 0.50 sqm   | 8.2.2.1        | 0.49   | SQM | 5413.50 | 2,641.79   |  |
| 21                     | Area of slab over 0.50 sqm   | 8.2.2.2        | 3.33   | SQM | 5136.30 | 17,103.88  |  |
| 22                     | Providing edge moulding to 18mm thick marble stone counters, Vanities etc. including machine polishing to edge to give high gloss finish etc. complete as per design approved by Engineer-in-Charge.<br>Granite work   | 8.3.2          | 4.88   | RM  | 510.95  | 2,493.44   |  |
| 23                     | Extra for fixing marble /granite stone over and above corresponding basic item, in facia and drops of width upto 150 mm with epoxy resin based adhesive including cleaning etc. complete.  | 8.4            | 4.88   | RM  | 568.55  | 2,774.52   |  |
| 24                     | Extra for providing opening of required size & shape for wash basins/ kitchen sink in kitchen platform, vanity counters and similar location in marble/Granite/stone work including necessary holes for pillar taps etc. including moulding, rubbing and polishing of cut edges etc. complete.   | 8.5            | 1.00   | NO  | 978.70  | 978.70     |  |

|                            |  |             |       |     |         |           |  |
|----------------------------|--|-------------|-------|-----|---------|-----------|--|
| 25                         | Providing and fixing 1st quality ceramic glazed wall tiles conforming to IS: 15622 (thickness to be specified by the manufacturer), of approved make, in all colours, shades except burgundy, bottle green, black of any size as approved by Engineer-in-Charge, in skirting, risers of steps and dados, over 12 mm thick bed of cement mortar 1:3 (1 cement : 3 coarse sand) and jointing with grey cement slurry @ 3.3kg per sqm, including pointing in white cement mixed with pigment of matching shade complete.  | 8.31        | 22.77 | SQM | 1267.95 | 28,871.22 |  |
| <b>F Wood and PVC Work</b> |  |             |       |     |         |           |  |
| 26                         | Providing and fixing ISI marked flush door shutters conforming to IS : 2202 (Part I) non-decorative type, core of block board construction with frame of 1st class hard wood and well matched commercial 3 ply veneering with vertical grains or cross bands and face veneers on both faces of shutters:35 mm thick including ISI marked Stainless Steel butt hinges with necessary screws   | 9.21.1      | 13.55 | SQM | 2392.65 | 32,420.41 |  |
| 27                         | Extra for providing lipping with 2nd class teak wood battens 25 mm minimum depth on all edges of flush door shutters (over all area of door shutter to be measured).   | 9.23        | 13.55 | SQM | 462.35  | 6,264.84  |  |
| 28                         | Extra for cutting rebate in flush door shutters (Total area of the shutter to be measured).  | 9.26        | 2.52  | SQM | 106.70  | 268.88    |  |
| 29                         | Providing and fixing M.S. grills of required pattern in frames of windows etc. with M.S. flats, square or round bars etc. including priming coat with approved steel primer all complete. Fixed to steel windows by welding.   | 9.48.1      | 12.60 | KG  | 219.10  | 2,760.66  |  |
| 30                         | Providing and fixing aluminium hanging floor door stopper ISI marked anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour or shade with necessary screws etc. complete. Twin rubber stopper   | 9.101.2     | 9.00  | NOS | 72.35   | 651.15    |  |
| 31                         | Providing and fixing factory made door frame (single rebate) made out of single piece extruded solid PVC foam profile with homogenous fine cellular structure having smooth outer integral skin having 62 mm width & 32 mm thickness, frame will be mitred & Jointed with self driven self tapping screws of size 38 mm x 4 mm & PVC solvent cement, including fixing the frame to wall with suitable dia & length anchor fastener as per manufacturer's specification and direction of Engineer-in-charge.  | 9.123       | 9.90  | RM  | 696.00  | 6,890.40  |  |
| 32                         | Providing & Fixing decorative high pressure laminated sheet of plain / wood grain in gloss / matt/ suede finish with high density protective surface layer and reverse side of adhesive bonding quality conforming to IS : 2046 Type S, including cost of adhesive of approved quality. 1.0 mm thick   | 9.127.2     | 27.10 | SQM | 897.30  | 24,316.83 |  |
| 33                         | Providing and fixing wire gauge shutters using stainless steel grade 304 wire gauge with wire of dia 0.5 mm and average width of aperture 1.4 mm in both directions for doors, windows and clerestory windows with necessary screws : <b>30 mm thick shutters With ISI marked stainless steel butt hinges of required size,</b> Kiln seasoned and chemically treated hollock wood  | 9.134.2.2.2 | 4.41  | SQM | 3619.60 | 15,962.44 |  |
| 34                         | 3000 Series Windows ( Double Rebate with Air Tight Glass Shutter Windows)<br>Providing& Fixing 3000 Series Windows fabricated from roll formed sections made of Galvanized Steel Colour Coated/Powder Coated (Base Steel as per IS 513 "D" quality, Galvanized as per IS 277 with Zinc of 120 grams/Sq. Mtr.) with total coated thickness of 0.60 mm.<br>Paint Specifications:<br>Coated Sections should be with Primer Coat of Epoxy Primer of 5-7 microns thick, finish painted with Polyester Paint of 12-16 microns thick and back coated with Alkyd backer of 5-7 microns, or Powder Coated with pure Polyester Powder up to 50-60 microns thick. |             |       |     |         |           |  |

|    |  |         |       |      |           |           |            |
|----|--|---------|-------|------|-----------|-----------|------------|
|    | <p>Dimensions of Sections:<br/> Section for Frame should be of 98mm X 50mm, Section for Mullion should be of 46mm X 70mm, Section for Shutter Frame should be of 46mm X 46 mm, Section for Fixed Glass Bead should be of 18mm X 25mm and Section for Fly mesh Shutter Frame should be of 20mm X 40mm.</p> <p>Fixing Details:<br/> Frame and Mesh Shutter Sections should be cut to length and mitre joined with Corner Bracket made of Polypropylene. Glass Shutter should be mitre joined with corner brackets made of CRCA electroplated. Mullion Section should be joined with Frame/ Mullion using Nylon Mullion Cap Ethyl Propylene Diamine Monomer (EPDM) Gasket should be used all around glass in shutter between Frame and Glazed Shutter and both sides of Fixed Glass. Spoon Profile should be used around Fly mesh to fix Mesh in Mesh Shutter.</p>  |         |       |      |           |           |            |
|    | <p>Accessories:<br/> Each Glazed Shutter should be provided with MS Powder Coated Friction Hinges – 1 set, High Grade Aluminum Powder Coated Handle -1 No. Each Mesh shutter should be provided with S.S.Pivot Hinges-1 set, Elixir make handle shall be provided per shutter.</p> <p>Window Frame should be fixed to brick/concrete masonry by using Nylon self expanding caps and driving MS electroplated 80mm long screws into the caps through frames.</p> <p>Glass:<br/> Glass shutter &amp; Fixed Glass portions should be provided with a glass of 4MM Plain Float Glass.</p> <p>Mesh<br/> Mesh Shutter should be provided with a Stainless Steel 32 gauge Fly mesh of 304 grades with 144 holes per square Inch.</p> <p>Grill:-<br/> Windows should be provided with Grill made of 10mm sq. MS Bars welded to at 150mm center-to-center, 6mm x 12mm MS flat. Total grill unit should be powder coated and fixed to window frame with screws. (Make: A2Z Infra Solutions/ Elixir Metform Pvt Ltd./ Lakshmi Fabrications)</p> | MR      | 15.15 | SQM  | 10,500.00 |           | 159,075.00 |
| 35 | Providing and fixing bright /matt finished Stainless Steel handles of approved quality & make with necessary screws etc all complete. (a) 125 mm.  | 9.165.1 | 20.00 | NOS  | 100.45    | 2,009.00  |            |
| 36 | Providing & fixing Stainless steel sliding door bolts ISI marked anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour or shade with nuts and screws etc complete. (a) 250mm x 16mm .  | M.R.    | 9.00  | NOS  | 560.00    |           | 5,040.00   |
| 37 | Providing and fixing stainless steel towerbolts (barrel type) with necessary screws etc. complete.   |         |       |      |           |           |            |
|    | 300 x 10mm   | M.R.    | 9.00  | NOS  | 448.00    |           | 4,032.00   |
|    | 150 x 10mm   | M.R.    | 9.00  | NOS  | 392.00    |           | 3,528.00   |
| 38 | Providing and fixing 6mm thick both sides Pre-laminated cement bonded wood particle board as per IS : 15786:2008 of approved brand and shade with suitable full threaded steel screws etc. on the backing of racks, drawer, cupboard, kitchen cabinet under kitchen counter etc. all complete as per direction of Engineer in-charge.  | 9.167   | 8.00  | SQM  | 1010.60   | 8,084.80  |            |
|    |  |         |       |      |           | -         |            |
| 39 | Providing and fixing cupboard shutter with 19mm thick one side decorative and other side balancing lamination factory pressed BWP grade marine ply as per IS 710 of approved brand including 2mm thick PVC edge banding tape with hot glue by edge bending machine etc. with auto closing spring loaded hinges (hydraulic type) etc. complete as per direction of Engineer in-charge.(Payment of providing and fixing auto closing hinges shall be paid separately)  | 9.168   | 7.30  | SQM  | 2829.25   | 20,653.53 |            |
|    |  |         |       |      |           | -         |            |
| 40 | Providing and fixing 19mm thick both side balancing lamination factory pressed BWP grade marine ply as per IS 710 of approved brand boxes,shelves,racks,almirah, cupboard and drawer etc. including necessary nails,screws etc. complete as per direction of Engineer-in-charge.   | 9.169   | 24.73 | SQM  | 2593.15   | 64,128.60 |            |
|    |  |         |       |      |           | -         |            |
| 41 | Providing and fixing stainless steel fancy handle of approved make fixed with SS screws etc. complete as per direction of Engineer-in-charge.<br>200 mm for CB   | 9.170.1 | 8.00  | Nos. | 186.65    | 1,493.20  |            |





|                         |  |         |        |                        |              |                     |                   |
|-------------------------|--|---------|--------|------------------------|--------------|---------------------|-------------------|
| 53                      | 12mm cement plaster in single coat on fair side of single or half brick wall for exterior plastering up to floor two level including internal rounded angles chamfers, and/or rounded angles not exceeding 80mm in girth and finished even and smooth no extra for mixing any additive. 1:6 (1 cement: 6 coarse sand)  | 13.4.2  | 178.16 | SQM                    | 343.65       | 61,224.68           |                   |
| 54                      | 15 mm cement plaster on the rough side of single or half brick wall of mix : 1:6 (1 cement: 6 coarse sand)   | 13.5.2  | 132.56 | SQM                    | 395.35       | 52,407.60           |                   |
| 55                      | 6 mm cement plaster on ceiling (a) 1:3(1 cement:3 fine sand)   | 13.16.1 | 11.52  | SQM                    | 300.45       | 3,461.18            |                   |
| 56                      | Distempering with oil bound washable distemper of approved brand and manufacture to give an even shade : New work (two or more coats) over and including water thinnable priming coat with cement primer.  | 13.41.1 | 223.00 | SQM                    | 185.65       | 41,399.95           |                   |
| 57                      | Finishing walls with Premium Acrylic Smooth exterior paint with Silicone additives of required shade. New work (Two or more coats applied @ 1.43 ltr/ 10 sqm. over and including priming coat of exterior primer applied @ 2.20 kg/ 10 sqm).   | 13.47.1 | 178.16 | SQM                    | 171.10       | 30,483.18           |                   |
|                         | <b>Applying priming coat:</b>  | 13.50   |        |                        |              |                     |                   |
| 58                      | With ready mixed aluminium primer of approved brand and manufacture on resinous wood and plywood   | 13.50.2 | 71.86  | SQM                    | 74.65        | 5,364.57            |                   |
| 59                      | With ready mixed red oxide zink chromate primer of approved brand and manufacture on steel galvanised iron/steel works.  | 13.50.3 | 47.00  | SQM                    | 67.40        | 3,167.80            |                   |
| 60                      | Painting with synthetic enamel paint of approved brand and manufacture to give an even shade:  | 13.61   |        |                        |              |                     |                   |
|                         | Two or more coats on new work.   | 13.61.1 | 118.86 | SQM                    | 155.90       | 18,530.74           |                   |
| 61                      | Painting with black anti-corrosive bitumastic paint of approved brand and manufacture to give an even shade : Two or more coats on new work  | 13.65.1 | 18.12  | SQM                    | 140.25       | 2,541.33            |                   |
| 62                      | Providing and applying white cement based putty of average thickness 1 mm, of approved brand and manufacturer, over the plastered wall surface to prepare the surface even and smooth complete.  | 13.80   | 90.44  | SQM                    | 156.05       | 14,113.16           |                   |
| <b>J Water Proofing</b> |  |         |        |                        |              |                     |                   |
| 63                      | Providing and laying in situ seven course water proofing treatment with APP (Atactic poly-propylene) modified Polymeric memberane over roof consisting of first coat of bitumen primer @ 0.40 litre per sqm, 2nd, 4th & 6th courses of bonding material @ 1.20 Kg/sqm, which shall consist of blown type bitumen of grade 85/25 conforming to IS : 702, 3rd and 5th layers of roofing membrane APP modified Polymeric membrane 1.5 mm thick of 2.25 Kg/sqm weight consisting of five layers prefabricated with centre core as 20 micron HMHDPE film sandwiched on both sides with polymeric mix and the polymeric mix is protected on both side with 20 micron HMHDPE film. 7th, the top most layer shall be finished with brick tiles of class designation 10 grouted with cement mortar 1:3 (1cement : 3 fine sand) mixed with 2% integral water proofing compound by weight of cement over a 12 mm layer of cement mortar 1:3 (1 cement : 3 fine sand) and finished neat (item of laying brick tiles shall be paid for separately). | 14.86   | 50.46  | SQM                    | 730.55       | 36,863.55           |                   |
| 64                      | Providing and laying brick tiles over mumty roofs, grouted with cement mortar 1:3 (1 cement : 3 fine sand) mixed with 2% of integral water proofing compound by weight of cement, over 12 mm layer of cement mortar 1:3 (1 cement : 3 fine sand) and finished neat:<br>With common burnt clay F.P.S. (non modular) brick tiles of class designation 10   | 12.19   | 50.46  | SQM                    | 607.40       | 30,649.40           |                   |
|                         |  |         |        |                        | <b>TOTAL</b> | <b>1,979,098.01</b> | <b>171,675.00</b> |
|                         |  |         |        | <b>Say Rs. In Lacs</b> |              | <b>19.79</b>        | <b>1.72</b>       |

| ESTIMATE OF FOR CONSTRUCTION OF ADDITIONAL DORMITORY & STAFF QUARTERS AT JNV |                       |                   |                  |
|--|-----------------------|-------------------|------------------|
| PLUMBING INTERNAL ESTIMATE ( Type-5/ Principal Residence )                   |                       |                   |                  |
| Sl. No.  | Description           | Amount            |                  |
|  |                       | DSR Items - 2023  | NS Items         |
| 1  | Sanitary Installation | 83,373.85         | 55,447.00        |
| 2  | Water Supply          | 64,012.20         | 14,929.00        |
| 3  | Drainage              | 40,059.89         | 5,120.00         |
|  | <b>Total</b>          | <b>187,445.94</b> | <b>75,496.00</b> |
|  | <b>Say in lacs</b>    | <b>1.87</b>       | <b>0.75</b>      |

| ESTIMATE OF FOR CONSTRUCTION OF ADDITIONAL DORMITORY & STAFF QUARTERS AT JNV KUPWARA, JAMMU AND KASHMIR |           |   |      |       |           |           |           |
|---|-----------|---|------|-------|-----------|-----------|-----------|
| PLUMBING INTERNAL ESTIMATE ( Type-5/Principal Residence )   |           |   |      |       |           |           |           |
| S.No.   | DSR '23   | Description   | Qty  | Unit  | Rate      | Amount    |           |
|   |           |   |      |       |           | DSR-2023  | MR        |
|   |           | <b>Sub Head – I Sanitary Installation</b>   |      |       |           |           |           |
| 1.1   | 17.1      | Providing and fixing water closet squatting pan (Indian type W.C. pan ) with 100 mm sand cast Iron P or S trap, 10 litre low level white P.V.C. flushing cistern, including flush pipe, with manually controlled device (handle lever) conforming to IS : 7231, with all fittings and fixtures complete, including cutting and making good the walls and floors wherever required.:   |      |       |           |           |           |
|   | 17.1.1    | White Vitreous china Orissa pattern W.C. pan of size 580x440 mm with integral type foot rests.  | 1    | each  | 6,767.40  | 6,767.40  |           |
| 1.2   | 17.3      | Providing and fixing white vitreous china pedestal type water closet (European type) with seat and lid, 10 litre low level white vitreous china flushing cistern & C.P. flush bend with fittings & C.I. brackets, 40 mm flush bend, overflow arrangement with specials of standard make and mosquito proof coupling of approved municipal design complete, including painting of fittings and brackets, cutting and making good the walls and floors wherever required :                |      |       |           |           |           |
|   | 17.3.1    | W.C. pan with ISI marked white solid plastic seat and lid   | 1    | each  | 8,006.60  | 8,006.60  |           |
| 1.3   | 17.81     | Providing and fixing floor mounted, white vitreous china single piece, double traps syphonic water closet of approved brand/make, shape, size and pattern including integrated white vitreous china cistern of capacity 10 litres with dual flushing system, including all fittings and fixtures with seat cover, cistern fittings, nuts, bolts and gasket etc including making connection with the existing P/S trap, complete in all respect as per directions of Engineer-in-Charge. | 0    | each  | 18,212.90 | -         |           |
| 1.4   | 17.80     | Providing and fixing white vitreous china battery based infrared sensor operated urinal of approx. size 610 x 390 x 370 mm having pre & post flushing with water (250 ml & 500 ml consumption), having water inlet from back side, including fixing to wall with suitable brackets all as per manufacturers specification and direction of Engineer-in-charge.  | 0    | each  | 7,979.20  | -         |           |
| 1.5   | 17.7      | Providing and fixing wash basin with C.I. brackets, 15 mm C.P. brass pillar taps, 32 mm C.P. brass waste of standard pattern, including painting of fittings and brackets, cutting and making good the walls wherever require:  |      |       |           |           |           |
| 1.5.1   | 17.7.3    | White Vitreous China Wash basin size 550x400 mm with a pair of 15 mm C.P. brass pillar taps   | 2.00 | each  | 2,301.75  | 4,603.50  |           |
| 1.6   | NSI-1     | Providing and fixing white vitreous china wash basin under counter basin, with C.I. concealed type brackets fixed to walls with GI rag bolts or approved fasteners etc., including 32 mm CP brass waste coupling, including painting of fittings and brackets, cutting and making good the walls wherever required all complete (Granite counter top will be measured and paid separately under relevant item): as per approved make and decision of engineer-in-charge                 | 0    | each  | 4,689.00  | -         |           |
| 1.7   | 17.34     | Providing and fixing toilet paper holder :  |      |       |           |           |           |
|   | 17.34.1   | C.P. brass  | 2    | each  | 803.70    | 1,607.40  |           |
| 1.8   | NSI-2     | Providing and fixing CP brass auto closing system basin pillar tap / hand wash of Jaquar PRS - 001 or Equivalent as approved by Engineer- In Charge   | 8    | each  | 5,092.00  |           | 40,736.00 |
| 1.9   | NSI-3     | Providing and fixing CP brass single lever basin mixer without popo with 450mm long braided hose (connection pipe) basin pillar tap of Jaquar LYR-38001B or Equivalent as approved by Engineer- In Charge.  | 0    | each  | 7,406.00  | -         |           |
| 1.10  | 17.22A    | Providing and fixing 32mm C.P brass bottle Trap of approved quality & make as per the direction of engineer-in-incharge.  | 2    | each  | 1,034.80  | 2,069.60  |           |
| 1.11  | 17.31     | Providing and fixing 600x450 mm beveled edge mirror of superior glass (of approved quality) complete with 6 mm thick hard board ground fixed to wooden cleats with C.P. brass screws and washers complete.  | 2    | Sqm   | 1,607.95  | 3,215.90  |           |
| 1.12  | 17.10     | Providing and fixing Stainless Steel A ISI 304 (18/8) kitchen sink as per IS : 13983 with C.I. brackets and stainless steel plug 40 mm, including painting of fittings and brackets, cutting and making good the walls wherever required :  |      |       |           |           |           |
|   | 17.10.1   | Kitchen sink with drain board   |      |       |           |           |           |
|   | 17.10.1.1 | 510x1040 mm bowl depth 250mm  | 1    | each  | 6945.60   | 6,945.60  |           |
|   | 17.10.2   | Kitchen sink without drain board  |      |       |           |           |           |
|   | 17.10.2.2 | 610x460 mm bowl depth 200 mm  | 0    | each  | 3,873.80  | -         |           |
| 1.13  | 17.11     | Providing and fixing white vitreous china laboratory sink with C.I. brackets, C.P. brass chain with rubber plug, 40 mm C.P brass waste and 40mm C.P. brass trap with necessary C.P. brass unions complete, including painting of fittings and brackets, cutting and making good the wall wherever required :  |      |       |           |           |           |
|   | 17.11.1   | Size 450x300x150 mm   | 0    | each  | 5,020.85  | -         |           |
| 1.14  | 17.28     | Providing and fixing P.V.C. waste pipe for sink or wash basin including P.V.C. waste fittings complete.   |      |       |           |           |           |
|   | 17.28.2   | Flexible pipe   |      |       |           |           |           |
|   | 17.28.2.2 | 40 mm dia   | 1    | each  | 119.55    | 119.55    |           |
| 1.15  | 17.35     | Providing and fixing soil, waste and vent pipes :   |      |       |           |           |           |
|   | 17.35.1   | 100 mm dia  |      |       |           |           |           |
|   | 17.35.1.3 | Hubless centrifugally cast (spun) iron pipes epoxy coated inside & outside IS:15905   | 10   | meter | 1,169.30  | 11,693.00 |           |
| 1.16  | 17.38     | Providing and fixing bend of required degree with access door, insertion rubber washer 3 mm thick, bolts and nuts complete.   |      |       |           |           |           |
|   | 17.38.1   | 100 mm  |      |       |           |           |           |
|   | 17.38.1.3 | Hubless centrifugally cast (spun) iron epoxy coated inside & outside I.S. 15905   | 0    | each  | 567.20    | -         |           |
| 1.17  | 17.39     | Providing and fixing plain bend of required degree.   |      |       |           |           |           |
|   | 17.39.1   | 100 mm  |      |       |           |           |           |

|      |            |   |    |       |          |          |  |
|------|------------|---|----|-------|----------|----------|--|
|      | 17.39.1.3  | Hubless centrifugally cast (spun) iron pipe epoxy inside & outside IS: 15905  | 8  | each  | 368.00   | 2,944.00 |  |
| 1.18 | 17.40      | Providing and fixing heel rest sanitary bend  |    |       |          |          |  |
|      | 17.40.1    | 100 mm dia  |    |       |          |          |  |
|      | 17.40.1.2  | Sand cast iron S&S as per IS - 3989   | 0  | each  | 548.70   | -        |  |
| 1.19 | 17.42      | Providing and fixing double equal plain junction of required degree   |    |       |          |          |  |
|      | 17.42.1    | 100x100x100x100 mm  |    |       |          |          |  |
|      | 17.42.1.3  | Hubless centrifugally cast (spun) iron pipe epoxy inside & outside IS: 15905  | 0  | each  | 760.70   | -        |  |
| 1.20 | 17.43      | Providing and fixing single equal plain junction of required degree with access door, insertion rubber washer 3 mm thick, bolts and nuts complete.  |    |       |          |          |  |
|      | 17.43.1    | 100x100x100 mm  |    |       |          |          |  |
|      | 17.43.1.2  | sand cast Iron S&S as per IS: 3989  | 0  | each  | 925.70   | -        |  |
| 1.21 | 17.44      | Providing and fixing single equal plain junction of required degree   |    |       |          |          |  |
|      | 17.44.1    | 100x100x100 mm  |    |       |          |          |  |
|      | 17.44.1.3  | Hubless centrifugally cast (spun) iron pipe epoxy inside & outside IS: 15905  | 0  | each  | 581.45   | -        |  |
| 1.22 | 17.56      | Providing and fixing terminal guard:  |    |       |          |          |  |
|      | 17.56.1    | 100 mm  |    |       |          |          |  |
|      | 17.56.1.3  | Hubless centrifugally cast (spun) iron pipe epoxy inside & outside IS: 15905  | 0  | each  | 427.80   | -        |  |
| 1.23 | 17.57A     | Providing and fixing shielded coupling for Hubless centrifugally cast iron pipes  |    |       |          |          |  |
|      | 17.57A.1   | 100 mm  |    |       |          |          |  |
|      | 17.57A.1.1 | S S 304 grade coupling with EPDM rubber gasket  | 10 | each  | 432.05   | 4,320.50 |  |
| 1.24 | 17.59      | Providing and fixing M.S. stays and clamps for sand cast iron/centrifugally cast (spun) iron pipes of diameter :  |    |       |          |          |  |
|      | 17.59.1    | 100 mm  | 0  | each  | 139.70   | -        |  |
| 1.25 | 17.65      | Painting sand cast iron/ centrifugally cast (spun) iron soil, waste vent pipes and fittings with two coats of synthetic enamel paint of any colour such as chocolate grey, or buff etc. over a coat of primer (of approved quality) for new work :  |    |       |          |          |  |
|      | 17.65.1    | 100 mm diameter pipe  | 0  | meter | 82.80    | -        |  |
| 1.26 | 17.37      | Providing and fixing M.S. holder-bat clamps of approved design to Sand Cast iron/cast iron (spun) pipe embedded in and including cement concrete blocks 10x10x10cm of 1:2:4 mix (1 cement : 2 coarse sand : 4 graded stone aggregate 20mm nominal size) including cost of cutting holes and making good the walls etc. :  |    |       |          |          |  |
|      | 17.37.1    | 100 mm diameter pipe  | 0  | each  | 362.85   | -        |  |
| 1.27 | 18.10      | Providing and fixing G.I. soil / waste pipes complete with G.I. fittings and clamps, i/c cutting and making good the walls etc.   |    |       |          |          |  |
|      | 18.10.4    | 32 mm dia. nominal bore   | 5  | metre | 667.00   | 3,335.00 |  |
|      | 18.10.5    | 40 mm dia. nominal bore   | 5  | metre | 811.90   | 4,059.50 |  |
|      | 18.10.6    | 50 mm dia. nominal bore   | 5  | metre | 1,048.35 | 5,241.75 |  |
| 1.28 | 17.60      | Providing and fixing trap of self cleansing design with screwed down or hinged grating with or without vent arm complete, including cost of cutting and making good the walls and floors :  |    |       |          |          |  |
|      | 17.60.1    | 100 mm inlet and 100 mm outlet  |    |       |          |          |  |
|      | 17.60.1.3  | Hubless centrifugally cast (spun) iron epoxy coated inside & outside as per IS:15905  | 3  | each  | 854.55   | 2,563.65 |  |
| 1.29 | 18.77      | Cutting holes up to 15 x 15 cm in R.C.C. floors and roofs for passing drain pipe etc. and repairing the hole after insertion of drain pipe etc. with cement concrete 1:2:4 ( 1 Cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size ) , including finishing complete so as to make it leak proof.   | 0  | each  | 452.00   | -        |  |
| 1.30 | NSI-4      | Providing & fixing in position GI 100x50 elbow floor drain including cost of cutting and making good the walls and floors wherever required.  | 3  | each  | 1,541.00 | 4,623.00 |  |
| 1.31 | NSI-5      | Providing and fixing 125 mm dia S/S grating (with or without hole)for floor or Nahani trap.   | 6  | each  | 620.00   | 3,720.00 |  |
| 1.32 | NSI-6      | Providing and fixing soap dish holder from wall of standard shape with fittings of approved quality with all complete. Make Jaquar - ACN-1131N & Equivalent   | 2  | each  | 1,159.00 | 2,318.00 |  |
| 1.33 | NSI-7      | Providing and fixing soap dispenser with glass bottle from wall of standard shape with fittings of approved quality with all complete. Make Jaquar - ACN-1135N & Equivalent   | 0  | each  | 2,095.00 | -        |  |
| 1.34 | NSI-8      | Providing & fixing 600 mm towel rail long stainless steel from wall face with concealed fittings arrangement of approved quality with all complete. Make Jaquar - CAN-1111SM  | 2  | each  | 2,025.00 | 4,050.00 |  |
| 1.35 | 18.65      | Providing and fixing PTMT soap Dish Holder having length of 138mm, breadth 102mm, height of 75mm with concealed fitting arrangements, weighing not less than 106 gms.   | 0  | each  | 111.45   | -        |  |
| 136  | 17.73      | Providing and fixing PTMT towel rail complete with brackets fixed to wooden cleats with CP brass screws with concealed fittings arrangement of approved quality and colour.   |    |       |          |          |  |
|      | 17.73.2    | 600 mm long towel rail with total length of 645 mm, width 78 mm and effective height of 88 mm, weighing not less than 190 gms.  | 0  | each  | 708.95   | -        |  |
| 1.37 | 12.22      | Making khurras 45x45 cm with average minimum thickness of 5 cm cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate of 20 mm nominal size) over P.V.C. sheet 1 m x1 m x 400 micron, finished with 12 mm cement plaster 1:3 (1 cement : 3 coarse sand) and a coat of neat cement, rounding the edges and making and finishing the outlet complete. | 4  | each  | 298.25   | 1,193.00 |  |
| 1.38 | 12.41      | Providing and fixing on wall face unplasticised Rigid PVC rain water pipes conforming to IS : 13592 Type A, including jointing with seal ring conforming to IS : 5382, leaving 10 mm gap for thermal expansion, (i) Single socketed pipes.  | 20 | metre | 377.40   | 7,548.00 |  |

|                                   |  |  |       |           |           |                  |
|-----------------------------------|--|--|-------|-----------|-----------|------------------|
| 1.39                              | 12.42  | Providing and fixing on wall face unplasticised - PVC moulded fittings/ accessories for unplasticised Rigid PVC rain water pipes conforming to IS : 13592 Type A, including jointing with seal ring conforming to IS : 5382, leaving 10 mm gap for thermal expansion.  |       |           |           |                  |
|                                   | 12.42.1  | Coupler  |       |           |           |                  |
|                                   | 12.42.1.1  | 110 mm   | 10    | each      | 136.15    | 1,361.50         |
|                                   | 12.42.3  | Single tee with door   |       |           |           |                  |
|                                   | 12.42.3.2  | 110x110x110 mm   | 4     | each      | 234.15    | 936.60           |
|                                   | 12.42.5  | Bend 87.5°   |       |           |           |                  |
|                                   | 12.42.5.2  | 110 mm   | 4     | each      | 150.35    | 601.40           |
|                                   | 12.42.6  | Shoe (Plain)   |       |           |           |                  |
|                                   | 12.42.6.1  | 110 mm Shoe  | 4     | each      | 131.85    | 527.40           |
| 1.40                              | 12.43  | Providing and fixing unplasticised -PVC pipe clips of approved design to unplasticised - PVC rain water pipes by means of 50x50x50 mm hard wood plugs, screwed with M.S. screws of required length, including cutting brick work and fixing in cement mortar 1:4 (1 cement : 4 coarse sand) and making good the wall etc. complete.  |       |           |           |                  |
|                                   | 12.43.2  | 110 mm   | 10    | each      | 371.30    | 3,713.00         |
| 1.41                              | NSI-9  | Supplying and fixing of HDPE pipe (PE grade 63 - PN-8 ) conforming to IS 14333-1996 chemical waste pipes jointed with rubber ring with good quality lubricant with fittings inclusive of all necessary specials like bends, tees, offsets, junctions etc laid under floor/under ceiling/on walls with suitable clamps and specials curing, necessary chasing, jointing and restoring to original conditions, testing etc. including all other incidental charges etc. complete for successful completion of work as per specifications, and as directed by Engineer -in- Charge. |       |           |           |                  |
|                                   | a)   | 110 mm outer dia   | 0     | metre     | 1,543.00  | -                |
|                                   | b)   | 50 mm outer dia  | 0     | metre     | 558.00    | -                |
| 1.42                              | NSI-10   | Providing & fixing in position upvc P"or S" trap of self cleaning design of following sizes for the embedded areas Making proper connection with chemical sealant joint , cutting chase / hole in floors /slabs and bringing the same in proper condition in cement concrete 1:2:4 mix complete as required. including cost of cutting and making good the walls and floors wherever required.   | 0     | each      | 627.00    | -                |
| 1.43                              | NSI-11   | Providing & Fixing water cooler wth stainless steel having storage capacity of 80 liter & cooling capacity 60 liter / hour with Reverse osmosis system & ultra violet membrane TDS reduction 90% having automatic back wash system with filtration unit & all other required accessories complete in all respect as per direction of the engineer in charge .  | 0     | each      | 65,604.00 | -                |
| <b>TOTAL</b>                      |  |  |       |           |           | <b>83,373.85</b> |
| <b>Sub Head – II Water Supply</b> |  |  |       |           |           | <b>55,447.00</b> |
| 2.1                               | 18.10  | Providing and fixing G.I. pipes complete with G.I. fittings and clamps, i/c cutting and making good the walls etc.   |       |           |           |                  |
|                                   | <b>Internal work – Exposed on wall.</b>                          |  |       |           |           |                  |
|                                   | 18.10.2  | 20 mm nominal outer dia Pipes  | 10    | metre     | 437.30    | 4,373.00         |
|                                   | 18.10.3  | 25 mm nominal outer dia Pipes  | 10    | metre     | 551.70    | 5,517.00         |
|                                   | 18.10.4  | 32 mm nominal outer dia Pipes  | 5     | metre     | 667.00    | 3,335.00         |
|                                   | 18.10.5  | 40 mm nominal outer dia Pipes  | 0     | metre     | 811.90    | -                |
|                                   | 18.10.6  | 50 mm nominal outer dia Pipes  | 0     | metre     | 1,048.35  | -                |
|                                   | NSI-12a  | 65 mm nominal outer dia Pipes  | 0     | metre     | 1,084.00  | -                |
|                                   | NSI-12b  | 80 mm nominal outer dia Pipes  | 0     | metre     | 1,276.00  | -                |
| 2.2                               | 18.8   | Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply, including all CPVC plain & brass threaded fittings, i/c fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and the cost of cutting chases and making good the same including testing of joints complete as per direction of Engineer in Charge.   |       |           |           |                  |
|                                   | Concealed including cutting chases and making good the wall etc. |  |       |           |           |                  |
|                                   | 18.8.2   | 15 mm nominal outer dia Pipes  | 15    | metre     | 537.60    | 8,064.00         |
|                                   | 18.8.3   | 20 mm nominal outer dia Pipes  | 10    | metre     | 627.25    | 6,272.50         |
|                                   | 18.8.4   | 25 mm nominal outer dia Pipes  | 5     | metre     | 739.30    | 3,696.50         |
| 2.3                               | 18.17  | Providing and fixing gun metal gate valve with C.I. wheel of approved quality (screwed end) :  |       |           |           |                  |
|                                   | 18.17.1A   | 20 mm dia. nominal bore  | 2     | each      | 539.95    | 1,079.90         |
|                                   | 18.17.1  | 25 mm dia. nominal bore  | 2     | each      | 622.40    | 1,244.80         |
|                                   | 18.17.2  | 32 mm dia. nominal bore  | 1     | each      | 689.60    | 689.60           |
|                                   | 18.17.3  | 40 mm dia. nominal bore  | 1     | each      | 826.10    | 826.10           |
|                                   | 18.17.4  | 50 mm dia. nominal bore  | 0     | each      | 1,026.65  | -                |
| 2.4                               | 18.18  | Providing and fixing ball valve (brass) of approved quality, High or low pressure, with plastic floats complete :  |       |           |           |                  |
|                                   | 18.18.3  | 25 mm nominal bore   |       | each      | 464.05    |                  |
| 2.5                               | NSI-13   | Providing and fixing hand held ablution fitting (health faucet) with 1.2 meter long flexible tube and wall hook, all complete approved engineer-in-charge  | 2     | each      | 2,373.00  | 4,746.00         |
| 2.6                               | NSI-14   | Supply and fixing of 15mm CP brass 2 -Way Bib Cock with wall flange and suitable length CP brass extension pipe all of approved engineer-in-charge   | 2     | each      | 2,654.00  | 5,308.00         |
| 2.7                               | 18.48  | Providing and placing on terrace (at all floor levels) polyethylene water storage tank, IS : 12701 marked, with cover and suitable locking arrangement and making necessary holes for inlet, outlet and overflow pipes but without fittings and the base support for tank  | 1,000 | per litre | 11.00     | 11,000.00        |
| 2.8                               | 18.51  | Providing and fixing C.P. brass long nose bib cock of approved quality conforming to IS standards and weighing not less than 810 gms.  |       |           |           |                  |
|                                   | 18.51.1  | 15 mm nominal bore   |       | each      | 796.95    |                  |
| 2.9                               | 18.52  | Providing and fixing C.P. brass stop cock (concealed) of standard design and of approved make conforming to IS:8931.   |       |           |           |                  |
|                                   | 18.52.1  | 15 mm nominal bore   |       |           | 670.45    |                  |

|      |           |   |      |       |           |                  |                  |
|------|-----------|---|------|-------|-----------|------------------|------------------|
| 2.10 | 18.53     | Providing and fixing C.P. brass angle valve for basin mixer and geyser points of approved quality conforming to IS:8931   |      |       |           |                  |                  |
|      | 18.53.1   | 15mm nominal bore   | 6    | each  | 574.30    | 3,445.80         |                  |
| 2.11 | 18.21     | Providing and fixing uplasticised PVC connection pipe with brass unions :   |      |       |           |                  |                  |
|      | 18.21.2   | 45 cm length  |      |       |           |                  |                  |
|      | 18.21.2.1 | 15 mm nominal bore  | 6    | each  | 97.75     | 586.50           |                  |
| 2.12 | 18.22     | Providing and fixing C.P. brass shower rose with 15 or 20 mm inlet :  |      |       |           |                  |                  |
|      | 18.22.2   | 150 mm diameter   | 0    | each  | 222.35    | -                |                  |
| 2.13 | 17.22B    | Providing and fixing CP Brass Single lever telephonic wall mixer of quality & make as approved by Engineer in charge.   |      |       |           |                  |                  |
|      |           | (a) 15 mm nominal dia   | 2    | each  | 6,940.75  | 13,881.50        |                  |
| 2.14 | NSI-15    | Providing , Fixing, testing and commissioning of CP Brass 150 mm x 150 mm Shower head with wall flange with all accessories as required and making good the walls wherever required. ( MAKE-JAQUAR -Model No- OHS-35495 or EQUIVALENT.)   | 1    | each  | 4,875.00  |                  | 4,875.00         |
| 2.15 | NSI-16    | Supply ,Erection , Testing & Commissioning of Automatic water level control panel & related accessories for pumping automation with consisting of automatic water level controller , level sensor with stainless steel probe, motorized butterfly valve, motorized valve controller with complete in all respect.   |      |       |           |                  |                  |
|      | a         | upto 50 mm dia. nominal bore  | 0    | each  | 26,947.00 |                  | -                |
|      |           | <b>TOTAL</b>  |      |       |           | <b>64,012.20</b> | <b>14,929.00</b> |
|      |           | <b>SUBHEAD – III Drainage</b>   |      |       |           |                  |                  |
| 3.1  | NSI-17    | Supply and fixing HDPE double wall corrugated ( DWC ) I.S 16098 ( Part - 2 ) 3013 for soil / waste pipe under ground drainage system with jointed with rubber ring with good quality lubricant for fittings, inclusive of all necessary specials like bends, tees, offsets, junctions, re excavation and refilling etc complete.  |      |       |           |                  |                  |
|      | a         | 150 mm diameter   | 5    | metre | 1,024.00  |                  | 5,120.00         |
|      | b         | 200 mm diameter   | 0    | metre | 1,298.00  |                  | -                |
| 3.2  | 19.4      | Providing and fixing square-mouth S.W. gully trap class SP-1 complete with C.I. grating brick masonry chamber with water tight C.I. cover with frame of 300 x300 mm size (inside) the weight of cover to be not less than 4.50 kg and frame to be not less than 2.70 kg as per standard design :  |      |       |           |                  |                  |
|      | 19.4.3    | 180x150 mm size P type  |      |       |           |                  |                  |
|      | 19.4.3.1  | With fly ash bricks (non modular) bricks of class designation 7.5   | 2    | each  | 2,802.15  | 5,604.30         |                  |
| 3.3  | 19.6      | Providing and laying non-pressure NP2 class (light duty) R.C.C. pipes with collars jointed with stiff mixture of cement mortar in the proportion of 1:2 (1 cement : 2 fine sand) including testing of joints etc. complete :  |      |       |           |                  |                  |
|      | 19.6.2    | 150 mm dia. R.C.C. pipe   | 10   | metre | 556.45    | 5,564.50         |                  |
|      | 19.6.3    | 250 mm dia. R.C.C. pipe   | 0    | metre | 899.80    | -                |                  |
|      | 19.6.4    | 300 mm dia. R.C.C. pipe   | 0    | metre | 994.30    | -                |                  |
| 3.4  | 19.7      | Constructing brick masonry manhole in cement mortar 1:4 (1 cement :4 coarse sand) with RCC top slab with 1:2:4 mix ( 1 cement : 2 coarse sand : 4 stone aggregate 20 mm nominal size ) , foundation concrete 1:4:8 mix (1 cement : 4 coarse sand : 8 stone aggregate 40 mm nominal size ) inside plastering 12 mm thick with cement mortar 1:3 (1 cement : 3 coarse sand) finished with a floating coat of neat cement, foundation concrete 1:3:6 mix (1 cement :3 coarse sand : 6 graded stone aggregate 40 mm nominal size),and making necessary channel in cement concrete 1:2:4 (1 cement :2 coarse sand :4 graded stone aggregate 20 mm nominal size) finished with a floating coat of neat cement complete as per standard design .   |      |       |           |                  |                  |
|      | 19.7.1    | inside size 90x80 cms and 45 cms deep including CI cover with frame ( light duty ) 455x610 mm internal dimensions total weight of cover & frame to be not less than 38 kg (weight of cover 23 kg & weight of frame 15 kg )  |      |       |           |                  |                  |
|      | 19.7.1.1  | with common burnt clay FPS ( non modular ) bricks of class designation 7.5  | 1.00 | Each  | 12,770.55 | 12,770.55        |                  |
| 3.5  | 19.8      | Extra depth for manhole 90x80 cm  |      |       |           |                  |                  |
|      | 19.8.1.1  | With FPS bricks class designation 7.5   | 0.10 | Metre | 8,825.40  | 882.54           |                  |
| 3.6  | 19.16     | Providing orange colour safety foot rest of minimum 6 mm thick plastic encapsulated as per IS : 10910, on 12 mm dia steel bar conforming to IS:1786, having minimum cross section as 23 mmx25 mm and over all minimum length 263 mm and width as 165 mm with minimum 112 mm space between protruded legs having 2 mm tread on top surface by ribbing or chequering esides necessary and adequate anchoring projections on tail length on 138 mm as per standard drawing and suitable to with stand the bend test and chemical resistance test as per specifications and having manufacture's permanent identification mark to be visible even after fixing,including fixing in manholes with 30x20x15 cm cement concrete block 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size) complete as per design. | 6.00 | Each  | 553.70    | 3,322.20         |                  |
| 3.7  | 19.27     | Constructing brick masonry road gully chamber 50x45x60 cm with bricks in cement mortar 1:4 (1 cement : 4 coarse sand) including 500x450 mm pre-cast R.C.C. horizontal grating with frame complete as per standard design :  |      |       |           |                  |                  |
|      | 19.27.1   | With common burnt clay F.P.S. (non modular) bricks of class designation 7.5   | 2.00 | Each  | 5,957.90  | 11,915.80        |                  |
|      |           | <b>TOTAL</b>  |      |       |           | <b>40,059.89</b> | <b>5,120.00</b>  |

**ESTIMATE OF FOR CONSTRUCTION OF ADDITIONAL DORMITORY & STAFF QUARTERS AT  
JNV KUPWARA, JAMMU AND KASHMIR**

**SUMMARY SHEET OF Principal Residence (Electrcical Work )**

| Sl.No.     | Name of Work                                  | TOTAL AMOUNT(IN RS.) |                  |
|------------|---|----------------------|------------------|
|            |   | DSR-2022             | MR               |
|            |   |                      |                  |
| <b>I</b>   | <b>SUB HEAD - I: CIRCUIT CUM POINT WIRING</b> | <b>325,899.00</b>    | <b>-</b>         |
| <b>II</b>  | <b>SUBHEAD -II - FITTINGS &amp; FIXTURES</b>  | <b>13,650.00</b>     | <b>20,011.39</b> |
| <b>III</b> | <b>SUBHEAD - III - DISTRIBUTION BOARDS</b>    | <b>19,801.00</b>     | <b>-</b>         |
|            | <b>SUB HEAD-IV , LIGHTNING CONDUCTOR</b>      | <b>23,257.00</b>     |                  |
|            | <b>TOTAL</b>                                  | <b>382,607.00</b>    | <b>20,011.39</b> |
|            | <b>Say in Lacs</b>                            | <b>3.83</b>          | <b>0.20</b>      |



| ESTIMATE OF FOR CONSTRUCTION OF ADDITIONAL DORMITORY & STAFF QUARTERS AT JNV KUPWARA, JAMMU AND KASHMIR |              |   |       |     |          |           |          |     |
|---|--------------|---|-------|-----|----------|-----------|----------|-----|
| Detailed Estimate for ELECTRICAL Works TYPE - 5 RESIDENCE ( PRINCIPAL RESIDENCE)                        |              |   |       |     |          |           |          |     |
| S.No.   | DSR-2022/NSI | Description   | Unit  | Qty | Rate     |           | Amount   |     |
|   |              |   |       |     | DSR-2022 | NSI       | DSR-2022 | NSI |
|   |              | <b>SUB HEAD - I: CIRCUIT CUM POINT WIRING</b>   |       |     |          |           |          |     |
|   |              | <b>SWITCH CONTROL LIGHT POINTS</b>  |       |     |          |           |          |     |
| 1   | DSR 1.10     | Wiring for light point/ fan point/ exhaust fan point/ call bell point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable in surface / recessed medium class PVC conduit, with modular switch, modular plate, suitable GI box and earthing the point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable etc. as required.  |       |     |          |           |          |     |
| 1.1   | DSR 1.10.3   | Group C   | Point | 27  | 1,467.00 |           | 39,609   |     |
| 2   | DSR-1.55     | Wiring for group controlled (looped) light point/fan point/exhaust fan point/ call bell point ( without Independent switch etc.) with 1.5 sq. mm FRLS PVC insulated copper conductor single core cable in surface/ recessed PVC conduit, and earthing the point with 1.5 sq. mm FRLS PVC insulated copper conductor single core cable etc as required. (Switch Control Secondary Points)  | Point | 0   | 858.00   |           | -        |     |
| 2.1   | DSR-1.55.3   | Group C   |       |     |          |           |          |     |
| 3   | DSR-1.3      | Wiring for light point/ fan point/ exhaust fan point/ call bell point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable in surface / recessed steel conduit, with modular switch, modular plate, suitable GI box and earthing the point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable etc. as required. (Switch Control Primary Points)   |       |     |          |           |          |     |
| 3.1   | DSR-1.3.3    | Group C   | Point | 0   | 1,845.00 |           | -        |     |
| 4   | DSR-1.54     | Wiring for group controlled (looped) light point/fan point/exhaust fan point/ call bell point (without Independent switch etc.) with 1.5 sq. mm FRLS PVC insulated copper conductor single core cable in surface/ recessed steel conduit, and earthing the point with 1.5 sq. mm FRLS PVC insulated copper conductor single core cable etc as required. (Switch Control Secondary Points)   |       |     |          |           |          |     |
| 4.1   | DSR-1.54.3   | Group C   | Point | 0   | 1,094.00 |           | -        |     |
|   |              | <b>MCB CONTROL LIGHT POINTS</b>   |       |     |          |           |          |     |
| 5   | NSI-1        | Wiring for light point/ fan point/ exhaust fan point/ call bell point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable in surface / recessed steel conduit, with modular switch, modular plate, suitable GI box and earthing the point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable etc. as required. (Switch Control Primary Points)   |       |     |          |           |          |     |
| 5.1   | NSI-1.1      | Primary point controlled by one MCB.  | Point | 0   |          | 1,523.13  |          | -   |
| 5.2   | NSI-1.2      | Same as item above but Secondary point. i.e. Points to be looped with Primary point with 2.5 sqmm wire and Point wiring   | Point | 0   |          | 1,354.89  |          | -   |
| 6   | DSR 1.5      | Wiring for light/ power plug with 2X4 sq. mm FRLS PVC insulated copper conductor single core cable in surface/ recessed steel conduit alongwith 1 No. 4 sq. mm FRLS PVC insulated copper conductor single core cable for loop earthing as required.   | Metre | 140 | 433.00   |           | 60,620   |     |
| 7   | DSR 1.7      | Wiring for circuit/ submain wiring alongwith earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface/ recessed steel conduit as required.  |       |     |          |           |          |     |
| 7.1   | DSR 1.7.1    | 2 X 1.5 sq. mm + 1 X 1.5 sq. mm earth wire  | Metre | 0   | 327.00   |           | -        |     |
| 7.2   | DSR 1.7.2    | 2 X 2.5 sq. mm + 1 X 2.5 sq. mm earth wire  | Metre | 220 | 369.00   |           | 81,180   |     |
| 7.3   | DSR 1.7.4    | 2 X 6 sq. mm + 1 X 6 sq. mm earth wire  | Metre | 120 | 589.00   |           | 70,680   |     |
| 7.4   | DSR 1.7.5    | 2 x 10 sq. mm + 1 x 10 sq.mm earth wire   | Metre | 0   | 710.00   |           | -        |     |
| 7.5   | DSR 1.7.10   | 4 X 10 sq. mm + 2 X 6 sq. mm earth wire   | Metre | 50  | 1,166.00 |           | 58,300   |     |
| 7.6   | DSR 1.7.11   | 4 X 16 sq. mm + 2 X 6 sq. mm earth wire   | Metre | 0   | 1,645.00 |           | -        |     |
| 8   | DSR 1.31     | Supplying and fixing suitable size GI box with modular plate and cover in front on surface or in recess including providing and fixing 3 pin 5/6 Amp modular socket outlet and 5/6 A modular switch, connection etc. as required.   | Each  | 9   | 477.00   |           | 4,293    |     |
| 9   | NSI-2        | Supply and Wiring for 250 volts single phase and neutral 2 Nos 6 amps socket outlet with control by 1 No switched with 2.5 sq.mm PVC insulated copper conductor 1100 volts grade stranded flexible FRLS wires in concealed or surface mounted 25 mm dia 2mm thick PVC conduit including providing and fixing of 6 amps 3 pin switch socket outlet of approved make and design in 2 mm thick GI box with grid plate and earthing of third pin of the socket with 2.5 Sq. mm PVC insulated copper conductor stranded flexible FRLS wire.(maximum four no. of switches socket shall be connected on one circuit) | Each  | 0   |          | 1,782     |          | -   |
| 10  | DSR 1.32     | Supplying and fixing suitable size GI box with modular plate and cover in front on surface or in recess, including providing and fixing 6 pin 5/6 & 15/16 A modular socket outlet and 15/16 A modular switch, connections etc. as required.   | Each  | 11  | 586.00   |           | 6,446.00 |     |
| 11  | NSI-3        | Supplying and fixing 63 A, 415 V, TPN Industrial type socket outlet, with 4 pole and earth, metal enclosed plug top alongwith 63 A "C" curve, TPMCB, in sheet steel enclosure, on surface or in recess, with chained metal cover for the socket outlet and complete with connections, testing and commissioning etc. as required.   | Each  | 0   |          | 11,284.98 |          | -   |

|      |            |   |      |   |          |           |                   |                  |
|------|------------|---|------|---|----------|-----------|-------------------|------------------|
| 12   | NSI-4      | Supplying and fixing 80 A, 415 V, TPN Industrial type socket outlet, with 4 pole and earth, metal enclosed plug top alongwith 80 A "C" curve, TPMCB, in sheet steel enclosure, on surface or in recess, with chained metal cover for the socket outlet and complete with connections, testing and commissioning etc. as required.   | Each | 0 |          | 17,343.23 |                   | -                |
| 13   | DSR-1.33   | Supplying and fixing <b>3 pin, 5 A ceiling rose</b> on the existing junction box/ wooden block including connections etc. as required.  | Each | 3 | 87       |           | 261.00            |                  |
| 14   | DSR-1.57   | Supplying & fixing suitable size GI box with modular plate and cover in front on surface or in recess i/c providing and fixing 25 amp modular socket outlet and 25 Amps modular SP MCB, "C" curve including connection, painting etc. as required. (AC's & Gysers)  | Each | 6 | 727      |           | 4,362.00          |                  |
| 15   | DSR 1.24   | Supplying and fixing following modular switch/ socket on the existing modular plate & switch box including connections but excluding modular plate etc. as required.  |      |   |          |           |                   |                  |
| 15.1 | DSR 1.24.6 | Telephone socket outlet   | Nos  | 1 | 148.00   |           | 148.00            |                  |
| 16   | DSR 1.27   | Supplying and fixing following size/ modules, GI box alongwith modular base & cover plate for modular switches in recess etc. as required.  |      |   |          |           |                   |                  |
| 16.1 | DSR 1.27.1 | 1 or 2 Module (75mmX75mm)   | Nos  | 0 | 298.00   |           | -                 |                  |
| 16.2 | DSR 1.27.4 | 6 module (78mm X 205 mm X 50 mm)  | Nos  | 0 | 402.00   |           | -                 |                  |
| 17   | DSR 1.24   | Supplying and fixing following size/ modules, GI box alongwith modular base & cover plate for modular switches in recess etc. as required.  |      |   |          |           |                   |                  |
| 17.1 | DSR 1.24.4 | 3 pin , 5/6 amps socket outlet  | Each | 0 | 122.00   |           | -                 |                  |
| 17.1 | DSR 1.24.1 | 5/6 amps switch   | Each | 0 | 103.00   |           | -                 |                  |
| 18   | DSR 1.21   | Supplying and fixing of following sizes of medium class PVC conduit along with accessories in surface/recess including cutting the wall and making good the same in case of recessed conduit as required.   |      |   |          |           |                   |                  |
| 18.1 | DSR 1.21.2 | 25 mm   | Mtr  | 0 | 145.00   |           | -                 |                  |
| 18.2 | DSR 1.21.3 | 32 mm   | Mtr  | 0 | 184.00   |           | -                 |                  |
|      |            | <b>TOTAL CARRIED TO SUMMARY FOR SUBHEAD - I</b>   |      |   |          |           | <b>325,899.00</b> | <b>-</b>         |
|      |            | <b>SUBHEAD -II - FITTINGS &amp; FIXTURES</b>  |      |   |          |           |                   |                  |
| 1    | NSI-1      | Supply, Installation, Testing and Commissioning of 10 W Bulk head Light.  | Each | 0 |          | 1,158.20  |                   | -                |
| 2    | NSI-2      | Supply, Installation, Testing and Commissioning of 5W Mirror Light.   | Each | 2 |          | 445.46    |                   | 890.92           |
| 3    | NSI-3      | Supply, Installation, Testing and Commissioning of 18W Surface/Recessed Mounted LED circular Downlighter.   | Each | 0 |          | 1,470.02  |                   | -                |
| 4    | NSI-4      | Supply, Installation, Testing and Commissioning of 18/20W Wall/Surface mouted 4 ft. LED   | Each | 6 |          | 1,336.38  |                   | 8,018.27         |
| 5    | NSI-5      | Supply, Installation, Testing and Commissioning of 15W Surface mounted LED Square Downlighter.  | Each | 2 |          | 1,380.93  |                   | 2,761.85         |
| 6    | NSI-6      | Supply, Installation, Testing and Commissioning of 150 W CHANDELIER   | Each | 0 |          | 89,091.94 |                   | -                |
| 7    | NSI-7      | Supply, Installation, Testing and Commissioning of 12/9W Recessed mounted LED circular Downlighter.   | Each | 0 |          | 1,069.10  |                   | -                |
| 8    | NSI-8      | Supply, Installation, Testing and Commissioning of 9W (Nominal) Wall Bracket Light  | Each | 7 |          | 222.73    |                   | 1,559.11         |
| 9    | DSR 1.21   | Supply, Installation, Testing and Commissioning of 1200 mm sweep, BEE 5 star rated, ceiling fan with Brush Less Direct Current (BLDC) Motor, class of insulation: B, 3 nos. blades, 30 cm long down rod, 2nos. canopies, shackle kit, safety rope, copper winding, Power Factor not less than 0.9, Service Value (CM/M/W) minimum 6.00, Air delivery minimum 210 Cum/Min , 350 RPM (tolerance as per IS : 374-2019), THD less than 10%, remote or electronic regulator unit for speed control and all remaining accessories including safety pin, nut bolts, washers, temperature rise=75 degree C (max.), insulation resistance more than 2 mega ohm, suitable for 230 V, 50 Hz, single phase AC Supply, earthing etc. complete as required. | Each | 5 | 2,730.00 |           | 13,650.00         | -                |
| 10   | NSI-9      | Supply Installation, Testing and Commissioning of 250 mm dia Domestic Exhaust Fan   | Each | 3 |          | 2,260.41  |                   | 6,781.23         |
|      |            | <b>TOTAL CARRIED TO SUMMARY FOR SUBHEAD - II</b>  |      |   |          |           | <b>13,650.00</b>  | <b>20,011.39</b> |
|      |            | <b>SUBHEAD - III - DISTRIBUTION BOARDS</b>  |      |   |          |           |                   |                  |
| 1    | DSR 2.3    | Supplying and fixing following way, single pole and neutral, sheet steel, MCB distribution board, 240 V, on surface/ recess, complete with tinned copper bus bar, neutral bus bar, earth bar, din bar, interconnections, powder painted including earthing etc. as required. (But without MCB/RCCB/Isolator)  |      |   |          |           |                   |                  |
| 1.1  | DSR 2.3.1  | 6 way, Double door  | Each | 0 | 2206     |           | -                 |                  |
| 1.2  | DSR 2.3.2  | 8 way, Double door  | Each | 0 | 2573     |           | -                 |                  |
| 1.3  | DSR 2.3.3  | 12 way, Double door   | Each | 0 | 2315     |           | -                 |                  |

|     |            |   |       |      |          |  |                  |          |
|-----|------------|---|-------|------|----------|--|------------------|----------|
| 2   | DSR 2.4    | Supplying and fixing following way, three pole and neutral, sheet steel, MCB distribution board, 415 volts, on surface/ recess complete with tinned copper busbar, neutral busbar, earth bar, din bar, detachable gland plate, interconnections, phosphatized and powder painted including earthing etc. as required. (But without MCB/ RCCB/ Isolator)   |       |      |          |  |                  |          |
| 2.1 | DSR 2.4.1  | 4 way (4 + 12), Double door   | Each  | 0    | 4,091.00 |  | -                |          |
| 2.2 | DSR 2.4.2  | 6 way (4 + 18), Double door   | Each  | 0    | 4,974.00 |  | -                |          |
| 2.3 | DSR 2.4.3  | 8 way (4 + 24), Double door   | Each  | 1    | 5,967.00 |  | 5,967.00         |          |
| 3   | DSR 2.5    | Supplying and fixing of following ways surface/ recess mounting, vertical type, 415 V, TPN MCB distribution board of sheet steel, dust protected, duly powder painted, inclusive of 200 A tinned copper bus bar, common neutral link, earth bar, din bar for mounting MCBs (but without MCBs and incomer) as required . (Note :Vertical type MCB TPDB is normally used where 3 phase outlets are required.) |       |      |          |  |                  |          |
| 3.1 | DSR 2.5.3  | 12 way (4 + 36), Double door  | Each  | 0    | 12833    |  | -                |          |
| 4   | DSR 2.10   | Supplying and fixing 5 A to 32 A rating, 240/415 V, 10 kA, "C" curve, miniature circuit breaker suitable for inductive load of following poles in the existing MCB DB complete with connections, testing and commissioning etc. as required.  |       |      |          |  |                  |          |
| 4.1 | 2.10.1     | Single Pole   | Each  | 18   | 256      |  | 4,608.00         |          |
| 4.2 | 2.10.2     | Single Pole Neutral   | Each  | 0    | 599      |  | -                |          |
| 5   | DSR 2.12   | Supplying and fixing following rating, double pole, 240 V, isolator in the existing MCB DB complete with connections, testing and commissioning etc. as required.   |       |      |          |  |                  |          |
| 5.1 | DSR 2.12.1 | 40 A  | Each  | 0    | 435      |  | -                |          |
| 5.2 | DSR 2.12.2 | 63 A  | Each  | 0    | 527      |  | -                |          |
| 6   | DSR 2.13   | Supplying and fixing following rating, four pole, 415 V, isolator in the existing MCB DB complete with connections, testing and commissioning etc. as required.   |       |      |          |  |                  |          |
| 6.1 | DSR 2.13.1 | 25 A  | Each  | 0    | 970      |  | -                |          |
| 6.1 | DSR 2.13.1 | 40 A  | Each  | 0    | 970      |  | -                |          |
| 6.2 | DSR 2.13.2 | 63 A  | Each  | 1    | 1034     |  | 1,034.00         |          |
| 7   | DSR 2.14   | Supplying and fixing following rating, double pole, (single phase and neutral), 240 V, residual current circuit breaker (RCCB), having a sensitivity current 30 mA in the existing MCB DB complete with connections, testing and commissioning etc. as required.  |       |      |          |  |                  |          |
| 7.1 | DSR 2.14.1 | 25 A  | Each  | 0    | 2028     |  | -                |          |
| 7.2 | DSR 2.14.2 | 40 A  | Each  | 0    | 2642     |  | -                |          |
| 7.3 | DSR 2.14.3 | 63 A  | Each  | 3    | 2722     |  | 8,166.00         |          |
| 8   | DSR 2.11   | Supplying and fixing single pole blanking plate in the existing MCB DB complete etc. as required.   | Each  | 2    | 13       |  | 26.00            |          |
|     |            | <b>TOTAL CARRIED TO SUMMARY FOR SUBHEAD - III</b>   |       |      |          |  | <b>19,801.00</b> | <b>-</b> |
| VI  |            | <b>SUB HEAD-IV, LIGHTNING CONDUCTOR</b>   |       |      |          |  |                  |          |
| 1   | 6.2        | LIGHTNING CONDUCTOR<br>Providing and fixing of lightning conductor finial, made of 25 mm dia 300 mm long, G.I. tube, having single prong at top, with 85 mm dia 6 mm thick G.I. base plate including holes etc. complete as required.   | Each  | 2.0  | 518.00   |  | 1,036.00         |          |
| 2   | 6.3        | Fixing of lightning conductor finial (single prong) with base plate including holes etc. complete as required.  | Each  | 2.0  | 360.00   |  | 720.00           |          |
| 3   | 6.4        | Joining copper / G.I. tape (with another copper/ G I tape, base of the finial or any other metallic object) by riveting / nut bolting/ sweating and soldering etc as required.  | Metre | 5.0  | 113.00   |  | 565.00           |          |
| 4   | 6.7        | Providing and fixing G.I. tape 20 mm X 3 mm thick on parapet or surface of wall for lightning conductor complete as required.(For horizontal run)   | Metre | 40.0 | 126.00   |  | 5,040.00         |          |
| 5   | 6.8        | Providing and fixing G.I. tape 20 mm X 3 mm thick on parapet or surface of wall for lightning conductor complete as required.(For vertical run)   | Metre | 20.0 | 197.00   |  | 3,940.00         |          |
| 6   | 6.10       | Fixing of copper/ G.I. tape 20 mm X 3 mm thick on parapet or surface of wall for lightning conductor complete as required.(For vertical run)  | Metre | 10.0 | 162.00   |  | 1,620.00         |          |
| 7   | 6.12       | Providing and fixing testing joint, made of 20 mm X 3 mm thick G.I. strip, 125 mm long, with 4 nos. of G.I. bolts, nuts, chuck nuts and spring washers etc. complete as required.   | Each  | 12.0 | 121.00   |  | 1,452.00         |          |
| 8   | 5.4        | Earthing with G.I. earth plate 600 mm X 600 mm X 6 mm thick including accessories, and providing masonry enclosure with cover plate having locking arrangement and watering pipe of 2.7 metre long etc. with charcoal/ coke and salt as required. Details of cost for one Set   | Each  | 1.0  | 7,472.00 |  | 7,472.00         |          |
| 9   | 5.11       | Providing and fixing 25 mm X 5 mm G.I. strip in 40 mm dia G.I. pipe from earth electrode including connection with G.I. nut, bolt, spring, washer excavation and re-filling etc. as required.   | Metre | 2.0  | 706.00   |  | 1,412.00         |          |
|     |            | <b>TOTAL SUB HEAD (VI)</b>  |       |      |          |  | <b>23,257.00</b> |          |

**ESTIMATE OF FOR CONSTRUCTION OF ADDITIONAL DORMITORY & STAFF QUARTERS AT JNV KUPWARA,  
JAMMU AND KASHMIR**

**ABSTRACT OF COST**

**[ TYPE-III RESIDENCES G+2, 6UNITS. ]**

| S.N.                                | DESCRIPTION OF ITEM  | DSR<br>2023 | QUANTITY | UNIT | RATES   | AMOUNT DSR<br>ITEM | AMOUNT<br>[M.R. ITEM] |
|-------------------------------------|--|-------------|----------|------|---------|--------------------|-----------------------|
| <b>A Earth Work</b>                 |  |             |          |      |         |                    |                       |
| 1                                   | Earth work in excavation by mechanical means (Hydraulic excavator) / manual means in foundation trenches or drains (not exceeding 1.5 m in width or 10 sqm on plan), including dressing of sides and ramming of bottoms, lift upto 1.5 m, including getting out the excavated soil and disposal of surplus excavated soil as directed, within a lead of 50 m.  |             |          |      |         |                    | -                     |
|                                     | All kinds of soil  | 2.8.1       | 243.65   | CUM  | 260.30  | 63,422.10          |                       |
|                                     |  |             |          |      |         | -                  |                       |
| 2                                   | Filling available excavated earth (excluding rock) in trenches, plinth, sides of foundations etc. in layers not exceeding 20cm in depth,consolidating each deposited layer by ramming and watering. lead upto 50 m and lift upto 1.5 m.  | 2.25        | 207.10   | CUM  | 196.00  | 40,592.09          |                       |
|                                     |  |             |          |      |         | -                  |                       |
| 3                                   | Extra for every additional lift of 1.5 m or part thereof in excavation / banking excavated or stacked materials.<br>All kinds of soil  | 2.26.1      | 60.91    | CUM  | 126.80  | 7,723.39           |                       |
|                                     |  |             |          |      |         | -                  |                       |
| 4                                   | Supplying and filling in plinth with sand under floors, including watering, ramming ,consolidating and dressing complete.  | 2.27        | 7.90     | CUM  | 2123.75 | 16,777.63          |                       |
|                                     |  |             |          |      |         | -                  |                       |
| 5                                   | Excavating, supplying and filling of local earth (including royalty) by mechanical transport upto a lead of 5km also including ramming and watering of the earth in layers not exceeding 20 cm in trenches, plinth, sides of foundation etc. complete.   | 2.25a       | 10.80    | CUM  | 700.50  | 7,565.40           |                       |
|                                     |  |             |          |      |         | -                  |                       |
| <b>B Concrete Work</b>              |  |             |          |      |         |                    |                       |
| 6                                   | Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level :1:5:10 (1 cement : 5 coarse sand (zone-III) derived from natural sources : 10 graded stone aggregate 40 mm nominal size derived from natural sources)  | 4.1.10      | 20.96    | CUM  | 6518.60 | 136,629.86         |                       |
|                                     |  |             |          |      |         |                    |                       |
| 7                                   | Providing and laying damp-proof course 40mm thick with cement concrete 1:2:4 (1 cement : 2 coarse sand (zone-III) derived from natural sources : 4 graded stone aggregate 12.5mm nominal size derived from natural sources)  | 4.10        | 17.82    | SQM  | 410.85  | 7,321.35           |                       |
|                                     |  |             |          |      |         | -                  |                       |
| 8                                   | Providing & applying a coat of residual petroleum bitumen of grade of VG-10 of approved quality using 1.7kg per square metre on damp proof course after cleaning the surface with brushes and finally with a piece of cloth lightly soaked in kerosene oil.  | 4.13        | 17.82    | SQM  | 146.15  | 2,604.39           |                       |
|                                     |  |             |          |      |         |                    |                       |
| 9                                   | Making plinth protection 50mm thick of cement concrete 1:3:6 (1 cement : 3 coarse sand (zone-III) derived from natural sources : 6 graded stone aggregate 20 mm nominal size derived from natural sources) over75mm thick bed of dry brick ballast 40 mm nominal size, well rammed and consolidated and grouted with fine sand,including necessary excavation,levelling & dressing & finishing the top smooth. | 4.17        | 39.06    | SQM  | 749.30  | 29,267.66          |                       |
|                                     |  |             |          |      |         |                    |                       |
| 10                                  | Brick edging in full brick width and half brick depth including excavation refilling and disposal of surplus earth lead upto 50 metres. With common burnt clay F.P.S.(non modular) bricks of class designation 75  | 16.7.1      | 65.09    | RM   | 194.30  | 12,646.99          |                       |
|                                     |  |             |          |      |         |                    |                       |
| <b>C Reinforced Cement Concrete</b> |  |             |          |      |         |                    |                       |
| 11                                  | Centering and shuttering including strutting, propping etc. and removal of form for all heights  |             |          |      |         | -                  |                       |
| (a)                                 | Foundations, footings, bases of columns, etc. for mass concrete.   | 5.9.1       | 64.81    | SQM  | 392.15  | 25,415.24          |                       |
| (b)                                 | Suspended floors, roofs, landings, balconies and access platform.  | 5.9.3       | 372.53   | SQM  | 927.25  | 345,428.44         |                       |

|          |  |          |        |     |          |            |  |
|----------|--|----------|--------|-----|----------|------------|--|
| (c)      | Lintels, beams, plinth beams, girders, bressumers  | 5.9.5    | 284.36 | SQM | 736.40   | 209,402.70 |  |
| (d)      | Columns, Pillars, Piers, Abutments, Posts and Struts.  | 5.9.6    | 296.04 | SQM | 961.30   | 284,583.25 |  |
| (e)      | Edges of slabs and breaks in floors and walls Under 20 cm wide.  | 5.9.16.1 | 307.10 | RM  | 208.55   | 64,045.71  |  |
|          |  |          |        |     |          | -          |  |
| 12       | Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete <b>upto plinth level</b> . Thermo-Mechanically Treated bars of grade Fe-500D or more.  | 5.22.6   | 45.59  | QTL | 10785.00 | 491,688.15 |  |
|          |  |          |        |     |          |            |  |
| 13       | Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete <b>above plinth level</b> . Thermo-Mechanically Treated bars of grade Fe-500 D or more.  | 5.22.A.6 | 82.34  | QTL | 10785.00 | 888,036.90 |  |
|          |  |          |        |     |          |            |  |
| 14       | Add for plaster drip course/ groove in plastered surface or moulding to R.C.C. projections.  | 5.30     | 359.10 | RM  | 78.40    | 28,153.44  |  |
|          |  |          |        |     |          |            |  |
| 15       | Providing and laying in position ready mixed or site batched design mix cement concrete for reinforced cement concrete work; using coarse aggregate and fine aggregate derived from natural sources, Portland Pozzolana / Ordinary Portland /Portland Slag cement, admixtures in recommended proportions as per IS: 9103 to accelerate / retard setting of concrete, to improve durability and workability without impairing strength; including pumping of concrete to site of laying, curing, carriage for all leads; but excluding the cost of centering, shuttering, finishing and reinforcement as per direction of the engineer-in-charge; for the following grades of concrete.<br>Note: Extra cement up to 10% of the minimum specified cement content in design mix shall be payable separately. In case the cement content in design mix is more than 110% of the specified minimum cement content, the contractor shall have discretion to either re-design the mix or bear the cost of extra cement. | 5.33     |        |     |          | -          |  |
| (I)      | <b>All works upto plinth level</b>   | 5.33.1   |        |     |          | -          |  |
|          | <b>Concrete of M25 grade with minimum cement content of 330 kg /cum</b>  | 5.33.1.1 |        |     |          |            |  |
|          | (i) R.C.C. work in Footing   | 5.33.1.1 | 42.94  | CUM | 9504.75  | 408,133.97 |  |
|          | (ii) R.C.C. work in Beam   | 5.33.1.1 | 7.27   | CUM | 9504.75  | 69,099.53  |  |
|          | (iii) R.C.C. work in Columns   | 5.33.1.1 | 3.46   | CUM | 9504.75  | 32,886.44  |  |
|          |  |          |        |     |          | -          |  |
| (II)     | <b>All works above plinth level upto floor V level</b>   | 5.33.2   |        |     |          | -          |  |
|          | <b>Concrete of M25 grade with minimum cement content of 330 kg /cum</b>  | 5.33.2.1 |        |     |          | -          |  |
|          | (i) R.C.C. work in Lintel  | 5.33.2.1 | 1.12   | CUM | 9860.40  | 11,043.65  |  |
|          | (ii) R.C.C. work in Beam   | 5.33.2.1 | 18.08  | CUM | 9860.40  | 178,276.03 |  |
|          | (iii) R.C.C. work in Columns   | 5.33.2.1 | 18.75  | CUM | 9860.40  | 184,882.50 |  |
|          | (iv) R.C.C. work in Slab   | 5.33.2.1 | 48.36  | CUM | 9860.40  | 476,848.94 |  |
|          |  |          |        |     |          |            |  |
| <b>D</b> | <b>Masonry Work</b>  |          |        |     |          | -          |  |
| 16       | Half brick masonry with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in superstructure above plinth level up to floor V level. : cement mortar 1:4 (1 cement : 4 coarse sand)  | 6.13.2   | 180.81 | Sqm | 1123.80  | 203,194.28 |  |
|          |  |          |        |     |          |            |  |
| 17       | Extra for providing and placing in position 2 Nos 6mm dia. M.S. bars at every third course of half brick masonry.  | 6.15     | 180.81 | SQM | 104.80   | 18,948.89  |  |
|          |  |          |        |     |          |            |  |
| 18       | Brick work with non modular fly ash bricks conforming to IS:12894, class designation 10 average compressive strength in super structure above plinth level up to floor V level in : Cement mortar 1:6 (1 cement : 6 Coarse sand)   | 6.34.2   | 99.95  | CUM | 8752.55  | 874,817.37 |  |
|          |  |          |        |     |          |            |  |
| 19       | Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in foundation and plinth in: Cement mortar 1:6 (1 cement : 6 coarse sand)   | 6.1.2    | 6.20   | CUM | 7132.25  | 44,219.95  |  |
|          |  |          |        |     |          |            |  |
| <b>E</b> | <b>Cladding Work</b>   |          |        |     |          | -          |  |
|          |  |          |        |     |          |            |  |

|                            |   |         |       |     |         |            |  |
|----------------------------|---|---------|-------|-----|---------|------------|--|
|                            | Providing and fixing 18 mm thick gang saw cut, mirror polished, premoulded and prepolished, machine cut for kitchen platforms, vanity counters, window sills, facias and similar locations of required size, approved shade, colour and texture laid over 20 mm thick base cement mortar 1:4 (1 cement : 4 coarse sand), joints treated with white cement, mixed with matching pigment, epoxy touch ups, including rubbing, curing, moulding and polishing to edges to give high gloss finish etc. complete at all levels | 8.2     |       |     |         |            |  |
|                            | Granite stone slab colour black, Cherry/Ruby red  | 8.2.2   |       |     |         |            |  |
| 20                         | Area of slab upto 0.50 sqm  | 8.2.2.1 | 2.07  | SQM | 5413.50 | 11,205.95  |  |
| 21                         | Area of slab over 0.50 sqm  | 8.2.2.2 | 14.58 | SQM | 5136.30 | 74,887.25  |  |
| 22                         | Providing edge moulding to 18mm thick marble stone counters, Vanities etc. including machine polishing to edge to give high gloss finish etc. complete as per design approved by Engineer-in-Charge.  | 8.3     |       |     |         | -          |  |
|                            | Granite work  | 8.3.2   | 20.70 | RM  | 510.95  | 10,576.67  |  |
| 23                         | Extra for fixing marble /granite stone over and above corresponding basic item, in facia and drops of width upto 150 mm with epoxy resin based adhesive including cleaning etc. complete.   | 8.4     | 20.70 | RM  | 568.55  | 11,768.99  |  |
|                            |   |         |       |     |         | -          |  |
| 24                         | Extra for providing opening of required size & shape for wash basins/ kitchen sink in kitchen platform, vanity counters and similar location in marble/Granite/stone work including necessary holes for pillar taps etc. including moulding, rubbing and polishing of cut edges etc. complete.  | 8.5     | 6.00  | NO  | 978.70  | 5,872.20   |  |
|                            |   |         |       |     |         | -          |  |
| 25                         | Providing and fixing 1st quality ceramic glazed wall tiles conforming to IS: 15622 (thickness to be specified by the manufacturer), of approved make, in all colours, shades except burgundy, bottle green, black of any size as approved by Engineer-in-Charge, in skirting, risers of steps and dados, over 12 mm thick bed of cement mortar 1:3 (1 cement : 3 coarse sand) and jointing with grey cement slurry @ 3.3kg per sqm, including pointing in white cement mixed with pigment of matching shade complete      | 8.31    | 53.13 | SQM | 1267.95 | 67,366.18  |  |
|                            |   |         |       |     |         | -          |  |
| <b>F Wood and PVC Work</b> |   |         |       |     |         |            |  |
| 26                         | Providing and fixing ISI marked flush door shutters conforming to IS :2202 (Part I) non-decorative type, core of block board construction with frame of 1st class hard wood and well matched commercial 3 ply veneering with vertical grains or cross bands and face veneers on both faces of shutters: 35 mm thick including ISI marked Stainless Steel butt hinges with necessary screws  | 9.21.1  | 69.72 | SQM | 2392.65 | 166,815.56 |  |
|                            |   |         |       |     |         | -          |  |
| 27                         | Extra for providing lipping with 2nd class teak wood battens 25 mm minimum depth on all edges of flush door shutters (over all area of door shutter to be measured).  | 9.23    | 69.72 | SQM | 462.35  | 32,235.04  |  |
| 28                         | Providing and fixing M.S. grills of required pattern in frames of windows etc. with M.S. flats, square or round bars etc. including priming coat with approved steel primer all complete. Fixed to steel windows by welding.  | 9.48.1  | 45.60 | KG  | 219.10  | 9,990.96   |  |
| 29                         | Providing and fixing oxidised M.S. casement stays (straight peg type) with necessary screws etc. complete.  |         |       |     |         |            |  |
| (i)                        | 300 mm weighing not less than 200 gms   | 9.68.1  | 54.00 | NOS | 67.40   | 3,639.60   |  |
| (ii)                       | 250 mm weighing not less than 150 gms   | 9.68.2  | 12.00 | NOS | 61.05   | 732.60     |  |
|                            |   |         |       |     |         |            |  |
| 30                         | Providing and fixing aluminium hanging floor door stopper ISI marked anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour or shade with necessary screws etc. complete. Twin rubber stopper  | 9.101.2 | 44.00 | NOS | 72.35   | 3,183.40   |  |
|                            |   |         |       |     |         |            |  |

|          |  |             |        |     |         |            |           |
|----------|--|-------------|--------|-----|---------|------------|-----------|
| 31       | Providing and fixing factory made door frame (single rebate) made out of single piece extruded solid PVC foam profile with homogenous fine cellular structure having smooth outer integral skin having 62 mm width & 32 mm thickness, frame will be mitred & Jointed with self driven self tapping screws of size 38 mm x 4 mm & PVC solvent cement, including fixing the frame to wall with suitable dia & length anchor fastener as per manufacturer's specification and direction of Engineer-in-charge.  | 9.123       | 59.40  | RM  | 696.00  | 41,342.40  |           |
| 32       | Providing & Fixing decorative high pressure laminated sheet of plain / wood grain in gloss / matt/ suede finish with high density protective surface layer and reverse side of adhesive bonding quality conforming to IS : 2046 Type S, including cost of adhesive of approved quality. 1.5 mm thick   | 9.127.1     | 18.90  | SQM | 1045.95 | 19,768.46  |           |
| 33       | Providing and fixing wire gauge shutters using stainless steel grade 304 wire gauge with wire of dia 0.5 mm and average width of aperture 1.4 mm in both directions for doors, windows and clerestory windows with necessary screws : 30 mm thick shutters With ISI marked stainless steel butt hinges of required size  |             |        |     |         |            |           |
|          | Kiln seasoned and chemically treated hollock wood  | 9.134.2.2.2 | 11.34  | SQM | 3619.60 | 41,046.26  |           |
| 34       | Providing and fixing fly proof stainless steel grade 304 wire gauge, to windows and clerestory windows using wire gauge with average width of aperture 1.4 mm in both directions with wire of dia. 0.50 mm all complete. <b>With 12 mm mild steel U beading</b>  | 9.135.2     | 47.16  | SQM | 1228.10 | 57,917.20  |           |
| 35       | Providing and fixing bright /matt finished Stainless Steel handles of approved quality & make with necessary screws etc all complete. (a) 125 mm.  | 9.165.1     | 88.00  | NOS | 119.20  | 10,489.60  |           |
| 36       | Providing & fixing Stainless steel sliding door bolts ISI marked anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour or shade with nuts and screws etc complete. (a) 250mm x 16mm .  | M.R.        | 44.00  | NOS | 560.00  |            | 24,640.00 |
| 37       | Providing and fixing stainless steel towerbolts (barrel type) with necessary screws etc. complete.   |             |        |     |         |            |           |
|          | 300 x 10mm   | M.R.        | 44.00  | NOS | 448.00  |            | 19,712.00 |
|          | 150 x 10mm   | M.R.        | 44.00  | NOS | 392.00  |            | 17,248.00 |
| <b>G</b> | <b>Steel Work</b>  |             |        |     |         | -          |           |
| 38       | Providing and fixing factory made ISI marked steel glazed doors, windows and ventilators, side /top /centre hung, with beading and all members such as F7D, F4B, K11 B and K12 B etc. complete of standard rolled steel sections, joints mitred and flash butt welded and sash bars tenoned and riveted, including providing and fixing of hinges, pivots, including priming coat of approved steel primer, but excluding the cost of other fittings, complete all as per approved design, (sectional weight of only steel members shall be measured for payment). Fixing with 15x3 mm lugs 10 cm long embedded in cement concrete block 15x10x10 cm of C.C. 1:3:6 (1 Cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size). | 10.11.1     | 518.40 | KG  | 131.05  | 67,936.32  |           |
| 39       | Providing and fixing T-iron frames for doors, windows and ventilators of mild steel Tee-sections, joints mitred and welded, including fixing of necessary butt hinges and screws and applying a priming coat of approved steel primer Fixing with 15x3 mm lugs 10 cm long embedded in cement concrete block 15x10x10 cm of C.C. 1:3:6 (1 Cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size  | 10.13.1     | 711.60 | KG  | 141.70  | 100,833.72 |           |

|          |   |            |         |     |         |            |  |
|----------|---|------------|---------|-----|---------|------------|--|
| 40       | Providing and fixing M.S. Tubular frames for doors, windows, ventilators and cupboard with rectangular/ L-Type sections, made of 1.60 mm thick M.S. Sheet, joints mitred, welded and grinded finish, with profiles of required size, including fixing of necessary butt hinges and screws and applying a priming coat of approved steel primer. Fixing with 15x3 mm lugs 10 cm long embedded in cement concrete block 15x10x10 cm of C.C. 1:3:6 (1 Cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size)  | 10.15.1    | 1304.67 | Kg  | 195.20  | 254,671.58 |  |
| 41       | Steel work welded in built up sections/ framed work, including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer using structural steel etc. as required. In gratings, frames, guard bar, ladder, railings, brackets, gates and similar works  | 10.25.2    | 189.00  | Kg  | 172.60  | 32,621.40  |  |
|          | SS RAILING  |            |         |     |         |            |  |
| 42       | Providing and fixing stainless steel ( Grade 304) railing made of Hollow tubes, channels, plates etc., including welding, grinding, buffing, polishing and making curvature (wherever required) and fitting the same with necessary stainless steel nuts and bolts complete, i/c fixing the railing with necessary accessories & stainless steel dash fasteners , stainless steel bolts etc., of required size, on the top of the floor or the side of waist slab with suitable arrangement as per approval of Engineer-in-charge.  | 10.28.1    | 166.68  | KG  | 772.40  | 128,743.63 |  |
|          |   |            |         |     |         | -          |  |
| 43       | Providing & fixing glass panes with putty and glazing clips in steel doors, windows, clerestory windows, all complete with : 4.0 mm thick glass panes.  | 10.30.1    | 69.63   | SQM | 1064.65 | 74,131.58  |  |
|          |   |            |         |     |         | -          |  |
| <b>H</b> | <b>Flooring</b>   |            |         |     |         | -          |  |
| 44       | Kota stone slab flooring over 20 mm (average) thick base laid over and jointed with grey cement slurry mixed with pigment to match the shade of the slab, including rubbing and polishing complete with base of cement mortar 1 : 4 (1 cement : 4 coarse sand) : 25 mm thick  | 11.26.1    | 39.91   | SQM | 1948.25 | 77,754.66  |  |
|          |   |            |         |     |         | -          |  |
| 45       | Kota stone slabs 20 mm thick in risers of steps, skirting, dado and pillars laid on 12 mm (average) thick cement mortar 1:3 (1 cement: 3 coarse sand) and jointed with grey cement slurry mixed with pigment to match the shade of the slabs, including rubbing and polishing complete.   | 11.27      | 9.77    | SQM | 2354.70 | 23,005.42  |  |
|          |   |            |         |     |         | -          |  |
| 46       | Providing and laying Vitrified tiles in floor in different sizes (thickness to be specified by the manufacturer) with water absorption less than 0.08% and conforming to IS:15622, of approved brand & manufacturer, in all colours and shade, laid on 20 mm thick cement mortar 1:4 (1 cement: 4 coarse sand) jointing with grey cement slurry @3.3 kg/sqm including grouting the joints with white cement and matching pigments etc. The tiles must be cut with the zero chipping diamond cutter only . Laying of tiles will be done with the notch trowel, plier, wedge, clips of required thickness, leveling system and rubber mallet for placing the tiles gently and easily. Glazed Vitrified tiles<br><b>Matt/Antiskid</b> finish of size<br><b>Size of Tile 600 x 600 mm</b> | 11.41A.3.1 | 16.08   | SQM | 1464.85 | 23,554.79  |  |
|          |   |            |         |     |         | -          |  |
| 47       | Providing and laying vitrified floor tiles in different sizes (thickness to be specified by the manufacturer) with water absorption less than 0.08% and conforming to IS: 15622, of approved make, in all colours and shades, laid on 20mm thick cement mortar 1:4 (1 cement : 4 coarse sand), jointing with grey cement slurry @ 3.3kg/sqm including grouting the joints with white cement and matching pigments etc., complete. <b>size of tile 600x600 mm</b>  | 11.41.2    | 248.16  | SQM | 1553.45 | 385,504.15 |  |
|          |   |            |         |     |         |            |  |
| 48       | Providing and laying Vitrified tiles in different sizes (thickness to be specified by manufacturer), with water absorption less than 0.08 % and conforming to I.S. 15622, of approved make, in all colours & shade, in skirting, riser of steps, over 12 mm thick bed of cement mortar 1:3 (1 cement: 3 coarse sand), jointing with grey cement slurry @ 3.3kg/sqm including grouting the joint with white cement & matching pigments etc. complete. <b>size of tile 600x600 mm</b>   | 11.46.2    | 34.92   | SQM | 1623.05 | 56,676.91  |  |
| <b>I</b> | <b>Finishing</b>  |            |         |     |         | -          |  |
| 49       | 15 mm cement plaster on the rough side of single or half brick wall of mix : 1:6 (1 cement: 6 coarse sand)  | 13.5.2     | 738.41  | SQM | 395.35  | 291,930.39 |  |
|          |   |            |         |     |         |            |  |



|                         |  |                  |         |     |        |            |  |
|-------------------------|--|------------------|---------|-----|--------|------------|--|
| 50                      | 12mm cement plaster in single coat on fair side of single or half brick wall for exterior plastering up to floor two level including internal rounded angles chamfers, and/or rounded angles not exceeding 80mm in girth and finished even and smooth no extra for mixing any additive. <b>1:6 (1 cement: 6 coarse sand)</b>   | 13.4.2           | 946.37  | SQM | 343.65 | 325,220.05 |  |
| 51                      | 6 mm cement plaster on ceiling (a) <b>1:3(1 cement:3 fine sand)</b>  | 13.16.1          | 45.40   | SQM | 300.45 | 13,640.43  |  |
| 52                      | Distempering with oil bound washable distemper of approved brand and manufacture to give an even shade : New work (two or more coats) over and including water thinnable priming coat with cement primer.  | 13.41.1          | 1318.90 | SQM | 185.65 | 244,853.79 |  |
| 53                      | Finishing walls with Premium Acrylic Smooth exterior paint with Silicone additives of required shade. New work (Two or more coats applied @ 1.43 ltr/ 10 sqm. over and including priming coat of exterior primer applied @ 2.20 kg/ 10 sam).   | 13.47.1          | 738.41  | SQM | 171.10 | 126,341.95 |  |
|                         | <b>Steel Painting:</b> Applying priming coat   | 13.50            |         |     |        |            |  |
| 54                      | With ready mixed aluminium primer of approved brand and manufacture on resinous wood and plywood   | 13.50.2          | 144.65  | SQM | 74.65  | 10,798.12  |  |
| 55                      | With ready mixed red oxide zink chromate primer of approved brand and manufacture on steel galvanised iron/steel works.  | 13.50.3          | 302.12  | SQM | 67.40  | 20,362.89  |  |
| 56                      | Painting with synthetic enamel paint of approved brand and manufacture to give an even shade:<br>Two or more coats on new work.  | 13.61<br>13.61.1 | 446.77  | SQM | 155.90 | 69,651.44  |  |
| 57                      | Providing and applying white cement based putty of average thickness 1 mm, of approved brand and manufacturer, over the plastered wall surface to prepare the surface even and smooth complete.  | 13.80            | 372.53  | SQM | 156.05 | 58,133.31  |  |
| <b>J Water Proofing</b> |  |                  |         |     |        |            |  |
| 58                      | Providing and laying water proofing treatment in sunken portion of WCs, bathroom etc., by applying cement slurry mixed with water proofing cement compound consisting of applying : a) First layer of slurry of cement @ 0.488 kg/sqm mixed with water proofing cement compound @ 0.253 kg/sqm. This layer will be allowed to air cure for 4 hours. b) Second layer of slurry of cement @ 0.242 kg/sqm mixed with water proofing cement compound @ 0.126 kg/sqm. This layer will be allowed to air cure for 4 hours followed with water curing for 48 hours. The rate includes preparation of surface, treatment and sealing of all joints, corners, junctions of pipes and masonry with polymer mixed slurry.   | 22.5             | 38.52   | SQM | 617.05 | 23,768.77  |  |
| 59                      | Providing and laying in situ seven course water proofing treatment with APP (Atactic poly-propylene) modified Polymeric memberane over roof consisting of first coat of bitumen primer @ 0.40 litre per sqm, 2nd, 4th & 6th courses of bonding material @ 1.20 Kg/sqm, which shall consist of blown type bitumen of grade 85/25 conforming to IS : 702, 3rd and 5th layers of roofing membrane APP modified Polymeric membrane 1.5 mm thick of 2.25 Kg/sqm weight consisting of five layers prefabricated with centre core as 20 micron HMHDPE film sandwiched on both sides with polymeric mix and the polymeric mix is protected on both side with 20 micron HMHDPE film. 7th, the top most layer shall be finished with brick tiles of class designation 10 grouted with cement mortar 1:3 (1cement : 3 fine sand) mixed with 2% integral water proofing compound by weight of cement over a 12 mm layer of cement mortar 1:3 (1 cement : 3 fine sand) and finished neat (item of laying brick tiles shall be paid for separately). | 14.86            | 79.32   | SQM | 730.55 | 57,947.23  |  |
| 60                      | Providing and laying brick tiles over mumty roofs, grouted with cement mortar 1:3 (1 cement : 3 fine sand) mixed with 2% of integral water proofing compound by weight of cement, over 12 mm layer of cement mortar 1:3 (1 cement : 3 fine sand) and finished neat:<br>With common burnt clay F.P.S. (non modular) brick tiles of class designation 10   | 12.19            | 79.32   | SQM | 607.40 | 48,178.97  |  |

|    |   |      |      |                        |                      |                   |           |
|----|---|------|------|------------------------|----------------------|-------------------|-----------|
| 61 | Providing and filling of AAC Lightweight Broken Blocks sunken portions. | M.R. | 5.80 | CUM                    | 4132.00              |                   | 23,965.60 |
|    |   |      |      | <b>COST OF 6 Qtrs</b>  | <b>8,248,756.07</b>  | <b>85,565.60</b>  |           |
|    |   |      |      | <b>COST OF 1 Qtr</b>   | <b>1,374,792.68</b>  | <b>14,260.93</b>  |           |
|    |   |      |      | <b>COST OF 21 Qtr</b>  | <b>28,870,646.23</b> | <b>299,479.60</b> |           |
|    |   |      |      | <b>Say Rs. In Lacs</b> | <b>288.71</b>        | <b>2.99</b>       |           |

| ESTIMATE OF FOR CONSTRUCTION OF ADDITIONAL DORMITORY & STAFF<br>QUARTERS AT JNV KUPWARA, JAMMU AND KASHMIR |                        |                     |                   |
|--|------------------------|---------------------|-------------------|
| PLUMBING INTERNAL ESTIMATE ( Type-3 ,6 Unit ) (G+2)  |                        |                     |                   |
| Sl. No.  | Description            | Amount              |                   |
|  |                        | DSR Items -<br>2023 | NS Items          |
| 1  | Sanitary Installation  | 512,985.95          | 50,058.00         |
| 2  | Water Supply           | 318,519.55          | 87,271.00         |
| 3  | Drainage               | 72,340.48           | 10,240.00         |
|  | <b>Total</b>           | <b>903,845.98</b>   | <b>147,569.00</b> |
|  | <b>COST OF 1 Qtr</b>   | <b>150,641.00</b>   | <b>24,594.83</b>  |
|  | <b>COST OF 21 Qtr</b>  | <b>3,163,460.93</b> | <b>516,491.50</b> |
|  | <b>Say Rs. In Lacs</b> | <b>31.63</b>        | <b>5.16</b>       |

| ESTIMATE OF FOR CONSTRUCTION OF ADDITIONAL DORMITORY & STAFF QUARTERS AT JNV KUPWARA, JAMMU AND KASHMIR |           |   |       |       |           |             |
|---|-----------|---|-------|-------|-----------|-------------|
| PLUMBING INTERNAL ESTIMATE ( Type-3 ,6 Unit ) (G+2)   |           |   |       |       |           |             |
| S.No.   | DSR '23   | Description   | Rate  | Unit  | Qty       | Amount      |
|   |           |   |       |       |           | DSR-2023 MR |
|   |           | <b>Sub Head – I Sanitary Installation</b>   |       |       |           |             |
| 1.1   | 17.1      | Providing and fixing water closet squatting pan (Indian type W.C. pan ) with 100 mm sand cast Iron P or S trap, 10 litre low level white P.V.C. flushing cistern, including flush pipe, with manually controlled device (handle lever) conforming to IS : 7231, with all fittings and fixtures complete, including cutting and making good the walls and floors wherever required:.   |       |       |           |             |
|   | 17.1.1    | White Vitreous china Orissa pattern W.C. pan of size 580x440 mm with integral type foot rests.  | 6     | each  | 6,767.40  | 40,604.40   |
| 1.2   | 17.3      | Providing and fixing white vitreous china pedestal type water closet (European type) with seat and lid, 10 litre low level white vitreous china flushing cistern & C.P. flush bend with fittings & C.I. brackets, 40 mm flush bend, overflow arrangement with specials of standard make and mosquito proof coupling of approved municipal design complete, including painting of fittings and brackets, cutting and making good the walls and floors wherever required :                |       |       |           |             |
|   | 17.3.1    | W.C. pan with ISI marked white solid plastic seat and lid   | 6     | each  | 8,006.60  | 48,039.60   |
| 1.3   | 17.81     | Providing and fixing floor mounted, white vitreous china single piece, double traps syphonic water closet of approved brand/make, shape, size and pattern including integrated white vitreous china cistern of capacity 10 litres with dual flushing system, including all fittings and fixtures with seat cover, cistern fittings, nuts, bolts and gasket etc including making connection with the existing P/S trap, complete in all respect as per directions of Engineer-in-Charge. | 0     | each  | 18,212.90 | -           |
| 1.4   | 17.80     | Providing and fixing white vitreous china battery based infrared sensor operated urinal of approx. size 610 x 390 x 370 mm having pre & post flushing with water (250 ml & 500 ml consumption), having water inlet from back side, including fixing to wall with suitable brackets all as per manufacturers specification and direction of Engineer-in-charge.  | 0     | each  | 7,979.20  | -           |
| 1.5   | 17.7      | Providing and fixing wash basin with C.I. brackets, 15 mm C.P. brass pillar taps, 32 mm C.P. brass waste of standard pattern, including painting of fittings and brackets, cutting and making good the walls wherever require:  |       |       |           |             |
| 1.5.1   | 17.7.3    | White Vitreous China Wash basin size 550x400 mm with a pair of 15 mm C.P. brass pillar taps   | 12.00 | each  | 2,301.75  | 27,621.00   |
| 1.6   | NSI-1     | Providing and fixing white vitreous china wash basin under counter basin, with C.I. concealed type brackets fixed to walls with GI rag bolts or approved fasteners etc., including 32 mm CP brass waste coupling, including painting of fittings and brackets, cutting and making good the walls wherever required all complete (Granite counter top will be measured and paid separately under relevant item): as per approved make and decision of engineer-in-charge                 | 0     | each  | 4,689.00  | -           |
| 1.7   | 17.34     | Providing and fixing toilet paper holder :  |       |       |           |             |
|   | 17.34.1   | C.P. brass  | 0     | each  | 803.70    | -           |
| 1.8   | NSI-2     | Providing and fixing CP brass auto closing system basin pillar tap / hand wash of Jaquar PRS - 001 or Equivalent as approved by Engineer- In Charge   | 0     | each  | 5,092.00  | -           |
| 1.9   | NSI-3     | Providing and fixing CP brass single lever basin mixer without popo with 450mm long braided hose (connection pipe) basin pillar tap of Jaquar LYR-38001B or Equivalent as approved by Engineer- In Charge.  | 0     | each  | 7,406.00  | -           |
| 1.10  | 17.22A    | Providing and fixing 32mm C.P brass bottle Trap of approved quality & make as per the direction of engineer-in-in-charge.   | 12    | each  | 1,034.80  | 12,417.60   |
| 1.11  | 17.31     | Providing and fixing 600x450 mm beveled edge mirror of superior glass (of approved quality) complete with 6 mm thick hard board ground fixed to wooden cleats with C.P. brass screws and washers complete.  | 12    | Sqm   | 1,607.95  | 19,295.40   |
| 1.12  | 17.10     | Providing and fixing Stainless Steel A ISI 304 (18/8) kitchen sink as per IS : 13983 with C.I. brackets and stainless steel plug 40 mm, including painting of fittings and brackets, cutting and making good the walls wherever required :  |       |       |           |             |
|   | 17.10.1   | Kitchen sink with drain board   |       |       |           |             |
|   | 17.10.1.1 | 510x1040 mm bowl depth 250mm  | 0     | each  | 6945.60   | -           |
|   | 17.10.2   | Kitchen sink without drain board  |       |       |           |             |
|   | 17.10.2.2 | 610x460 mm bowl depth 200 mm  | 6     | each  | 3,873.80  | 23,242.80   |
| 1.13  | 17.11     | Providing and fixing white vitreous china laboratory sink with C.I. brackets, C.P. brass chain with rubber plug, 40 mm C.P brass waste and 40mm C.P. brass trap with necessary C.P. brass unions complete, including painting of fittings and brackets, cutting and making good the wall wherever required :  |       |       |           |             |
|   | 17.11.1   | Size 450x300x150 mm   | 0     | each  | 5,020.85  | -           |
| 1.14  | 17.28     | Providing and fixing P.V.C. waste pipe for sink or wash basin including P.V.C. waste fittings complete.   |       |       |           |             |
|   | 17.28.2   | Flexible pipe   |       |       |           |             |
|   | 17.28.2.2 | 40 mm dia   | 6     | each  | 119.55    | 717.30      |
| 1.15  | 17.35     | Providing and fixing soil, waste and vent pipes :   |       |       |           |             |
|   | 17.35.1   | 100 mm dia  |       |       |           |             |
|   | 17.35.1.3 | Hubless centrifugally cast (spun) iron pipes epoxy coated inside & outside IS:15905   | 96    | meter | 1,169.30  | 112,252.80  |
| 1.16  | 17.38     | Providing and fixing bend of required degree with access door, insertion rubber washer 3 mm thick, bolts and nuts complete.   |       |       |           |             |
|   | 17.38.1   | 100 mm  |       |       |           |             |
|   | 17.38.1.3 | Hubless centrifugally cast (spun) iron epoxy coated inside & outside I.S. 15905   | 18    | each  | 567.20    | 10,209.60   |
| 1.17  | 17.39     | Providing and fixing plain bend of required degree.   |       |       |           |             |
|   | 17.39.1   | 100 mm  |       |       |           |             |
|   | 17.39.1.3 | Hubless centrifugally cast (spun) iron pipe epoxy inside & outside IS: 15905  | 30    | each  | 368.00    | 11,040.00   |
| 1.18  | 17.40     | Providing and fixing heel rest sanitary bend  |       |       |           |             |
|   | 17.40.1   | 100 mm dia  |       |       |           |             |
|   | 17.40.1.2 | Sand cast iron S&S as per IS - 3989   | 8     | each  | 548.70    | 4,389.60    |

|      |            |   |     |       |          |           |           |
|------|------------|---|-----|-------|----------|-----------|-----------|
| 1.19 | 17.42      | Providing and fixing double equal plain junction of required degree   |     |       |          |           |           |
|      | 17.42.1    | 100x100x100x100 mm  |     |       |          |           |           |
|      | 17.42.1.3  | Hubless centrifugally cast (spun) iron pipe epoxy inside & outside IS: 15905  | 6   | each  | 760.70   | 4,564.20  |           |
| 1.20 | 17.43      | Providing and fixing single equal plain junction of required degree with access door, insertion rubber washer 3 mm thick, bolts and nuts complete.  |     |       |          |           |           |
|      | 17.43.1    | 100x100x100 mm  |     |       |          |           |           |
|      | 17.43.1.2  | sand cast Iron S&S as per IS: 3989  | 0   | each  | 925.70   | -         |           |
| 1.21 | 17.44      | Providing and fixing single equal plain junction of required degree   |     |       |          |           |           |
|      | 17.44.1    | 100x100x100 mm  |     |       |          |           |           |
|      | 17.44.1.3  | Hubless centrifugally cast (spun) iron pipe epoxy inside & outside IS: 15905  | 0   | each  | 581.45   | -         |           |
| 1.22 | 17.56      | Providing and fixing terminal guard:  |     |       |          |           |           |
|      | 17.56.1    | 100 mm  |     |       |          |           |           |
|      | 17.56.1.3  | Hubless centrifugally cast (spun) iron pipe epoxy inside & outside IS: 15905  | 8   | each  | 427.80   | 3,422.40  |           |
| 1.23 | 17.57A     | Providing and fixing shielded coupling for Hubless centrifugally cast iron pipes  |     |       |          |           |           |
|      | 17.57A.1   | 100 mm  |     |       |          |           |           |
|      | 17.57A.1.1 | S S 304 grade coupling with EPDM rubber gasket  | 150 | each  | 432.05   | 64,807.50 |           |
| 1.24 | 17.59      | Providing and fixing M.S. stays and clamps for sand cast iron/centrifugally cast (spun) iron pipes of diameter :  |     |       |          |           |           |
|      | 17.59.1    | 100 mm  | 0   | each  | 139.70   | -         |           |
| 1.25 | 17.65      | Painting sand cast iron/ centrifugally cast (spun) iron soil, waste vent pipes and fittings with two coats of synthetic enamel paint of any colour such as chocolate grey, or buff etc. over a coat of primer (of approved quality) for new work :  |     |       |          |           |           |
|      | 17.65.1    | 100 mm diameter pipe  | 96  | meter | 82.80    | 7,948.80  |           |
| 1.26 | 17.37      | Providing and fixing M.S. holder-bat clamps of approved design to Sand Cast iron/cast iron (spun) pipe embedded in and including cement concrete blocks 10x10x10cm of 1:2:4 mix (1 cement : 2 coarse sand : 4 graded stone aggregate 20mm nominal size) including cost of cutting holes and making good the walls etc. :  |     |       |          |           |           |
|      | 17.37.1    | 100 mm diameter pipe  | 96  | each  | 362.85   | 34,833.60 |           |
| 1.27 | 18.10      | Providing and fixing G.I. soil / waste pipes complete with G.I. fittings and clamps, i/c cutting and making good the walls etc.   |     |       |          |           |           |
|      | 18.10.4    | 32 mm dia. nominal bore   | 15  | metre | 667.00   | 10,005.00 |           |
|      | 18.10.5    | 40 mm dia. nominal bore   | 10  | metre | 811.90   | 8,119.00  |           |
|      | 18.10.6    | 50 mm dia. nominal bore   | 15  | metre | 1,048.35 | 15,725.25 |           |
| 1.28 | 17.60      | Providing and fixing trap of self cleansing design with screwed down or hinged grating with or without vent arm complete, including cost of cutting and making good the walls and floors :  |     |       |          |           |           |
|      | 17.60.1    | 100 mm inlet and 100 mm outlet  |     |       |          |           |           |
|      | 17.60.1.3  | Hubless centrifugally cast (spun) iron epoxy coated inside & outside as per IS:15905  | 18  | each  | 854.55   | 15,381.90 |           |
| 1.29 | 18.77      | Cutting holes up to 15 x 15 cm in R.C.C. floors and roofs for passing drain pipe etc. and repairing the hole after insertion of drain pipe etc. with cement concrete 1:2:4 ( 1 Cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size ) , including finishing complete so as to make it leak proof.   | 0   | each  | 452.00   | -         |           |
| 1.30 | NSI-4      | Providing & fixing in position GI 100x50 elbow floor drain including cost of cutting and making good the walls and floors wherever required.  | 18  | each  | 1,541.00 |           | 27,738.00 |
| 1.31 | NSI-5      | Providing and fixing 125 mm dia S/S grating (with or without hole)for floor or Nahani trap.   | 36  | each  | 620.00   |           | 22,320.00 |
| 1.32 | NSI-6      | Providing and fixing soap dish holder from wall of standard shape with fittings of approved quality with all complete. Make Jaquar - ACN-1131N & Equivalent   | 0   | each  | 1,159.00 |           | -         |
| 1.33 | NSI-7      | Providing and fixing soap dispenser with glass bottle from wall of standard shape with fittings of approved quality with all complete. Make Jaquar - ACN-1135N & Equivalent   | 0   | each  | 2,095.00 |           | -         |
| 1.34 | NSI-8      | Providing & fixing 600 mm towel rail long stainless steel from wall face with concealed fittings arrangement of approved quality with all complete. Make Jaquar - CAN-1111SM  | 0   | each  | 2,025.00 |           | -         |
| 1.35 | 18.65      | Providing and fixing PTMT soap Dish Holder having length of 138mm, breadth 102mm, height of 75mm with concealed fitting arrangements, weighing not less than 106 gms.   | 12  | each  | 111.45   | 1,337.40  |           |
| 136  | 17.73      | Providing and fixing PTMT towel rail complete with brackets fixed to wooden cleats with CP brass screws with concealed fittings arrangement of approved quality and colour.   |     |       |          |           |           |
|      | 17.73.2    | 600 mm long towel rail with total length of 645 mm, width 78 mm and effective height of 88 mm, weighing not less than 190 gms.  | 12  | each  | 708.95   | 8,507.40  |           |
| 1.37 | 12.22      | Making khurras 45x45 cm with average minimum thickness of 5 cm cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate of 20 mm nominal size) over P.V.C. sheet 1 m x1 m x 400 micron, finished with 12 mm cement plaster 1:3 (1 cement : 3 coarse sand) and a coat of neat cement, rounding the edges and making and finishing the outlet complete. | 4   | each  | 298.25   | 1,193.00  |           |
| 1.38 | 12.41      | Providing and fixing on wall face unplasticised Rigid PVC rain water pipes conforming to IS : 13592 Type A, including jointing with seal ring conforming to IS : 5382, leaving 10 mm gap for thermal expansion, (i) Single socketed pipes.  | 40  | metre | 377.40   | 15,096.00 |           |
| 1.39 | 12.42      | Providing and fixing on wall face unplasticised - PVC moulded fittings/ accessories for unplasticised Rigid PVC rain water pipes conforming to IS : 13592 Type A, including jointing with seal ring conforming to IS : 5382, leaving 10 mm gap for thermal expansion.   |     |       |          |           |           |
|      | 12.42.1    | Coupler   |     |       |          |           |           |
|      | 12.42.1.1  | 110 mm  | 20  | each  | 136.15   | 2,723.00  |           |
|      | 12.42.3    | Single tee with door  |     |       |          |           |           |
|      | 12.42.3.2  | 110x110x110 mm  | 4   | each  | 234.15   | 936.60    |           |
|      | 12.42.5    | Bend 87.5°  |     |       |          |           |           |
|      | 12.42.5.2  | 110 mm  | 4   | each  | 150.35   | 601.40    |           |
|      | 12.42.6    | Shoe (Plain)  |     |       |          |           |           |
|      | 12.42.6.1  | 110 mm Shoe   | 4   | each  | 131.85   | 527.40    |           |

|      |           |   |       |           |           |                   |                  |
|------|-----------|---|-------|-----------|-----------|-------------------|------------------|
| 1.40 | 12.43     | Providing and fixing unplasticised -PVC pipe clips of approved design to unplasticised - PVC rain water pipes by means of 50x50x50 mm hard wood plugs, screwed with M.S. screws of required length, including cutting brick work and fixing in cement mortar 1:4 (1 cement : 4 coarse sand) and making good the wall etc. complete.   |       |           |           |                   |                  |
|      | 12.43.2   | 110 mm  | 20    | each      | 371.30    | 7,426.00          |                  |
| 1.41 | NSI-9     | Supplying and fixing of HDPE pipe (PE grade 63 - PN-8 ) confirming to IS 14333-1996 chemical waste pipes jointed with rubber ring with good quality lubricant with fittings inclusive of all necessary specials like bends, tees, offsets, junctions etc laid under floor/under ceiling/on walls with suitable clamps and specials curing, necessary chasing, jointing and restoring to original conditions, testing etc. including all other incidental charges etc. complete for successful completion of work as per specifications, and as directed by Engineer - in- Charge. |       |           |           |                   |                  |
|      | a)        | 110 mm outer dia  | 0     | metre     | 1,543.00  |                   | -                |
|      | b)        | 50 mm outer dia   | 0     | metre     | 558.00    |                   | -                |
| 1.42 | NSI-10    | Providing & fixing in position upvc P"or S" trap of self cleaning design of following sizes for the embedded areas Making proper connection with chemical sealant joint , cutting chase / hole in floors /slabs and bringing the same in proper condition in cement concrete 1:2:4 mix complete as required. including cost of cutting and making good the walls and floors wherever required.  | 0     | each      | 627.00    |                   | -                |
| 1.43 | NSI-11    | Providing & Fixing water cooler wth stainless steel having storage capacity of 80 liter & cooling capacity 60 liter / hour with Reverse osmosis system & ultra violet membrane TDS reduction 90% having automatic back wash system with filtration unit & all other required accessories complete in all respect as per direction of the engineer in charge .   | 0     | each      | 65,604.00 |                   | -                |
|      |           | <b>TOTAL</b>  |       |           |           | <b>512,985.95</b> | <b>50,058.00</b> |
|      |           | <b>Sub Head – II Water Supply</b>   |       |           |           |                   |                  |
| 2.1  | 18.10     | Providing and fixing G.I. pipes complete with G.I. fittings and clamps, i/c cutting and making good the walls etc.  |       |           |           |                   |                  |
|      |           | <b>Internal work – Exposed on wall.</b>   |       |           |           |                   |                  |
|      | 18.10.2   | 20 mm nominal outer dia Pipes   | 15    | metre     | 437.30    | 6,559.50          |                  |
|      | 18.10.3   | 25 mm nominal outer dia Pipes   | 15    | metre     | 551.70    | 8,275.50          |                  |
|      | 18.10.4   | 32 mm nominal outer dia Pipes   | 25    | metre     | 667.00    | 16,675.00         |                  |
|      | 18.10.5   | 40 mm nominal outer dia Pipes   | 30    | metre     | 811.90    | 24,357.00         |                  |
|      | 18.10.6   | 50 mm nominal outer dia Pipes   | 0     | metre     | 1,048.35  | -                 |                  |
|      | NSI-12a   | 65 mm nominal outer dia Pipes   | 0     | metre     | 1,084.00  | -                 |                  |
|      | NSI-12b   | 80 mm nominal outer dia Pipes   | 0     | metre     | 1,276.00  | -                 |                  |
| 2.2  | 18.8      | Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply, including all CPVC plain & brass threaded fittings, i/c fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and the cost of cutting chases and making good the same including testing of joints complete as per direction of Engineer in Charge.  |       |           |           |                   |                  |
|      |           | Concealed including cutting chases and making good the wall etc.  |       |           |           |                   |                  |
|      | 18.8.2    | 15 mm nominal outer dia Pipes   | 54    | metre     | 537.60    | 29,030.40         |                  |
|      | 18.8.3    | 20 mm nominal outer dia Pipes   | 45    | metre     | 627.25    | 28,226.25         |                  |
|      | 18.8.4    | 25 mm nominal outer dia Pipes   | 36    | metre     | 739.30    | 26,614.80         |                  |
| 2.3  | 18.17     | Providing and fixing gun metal gate valve with C.I. wheel of approved quality (screwed end) :   |       |           |           |                   |                  |
|      | 18.17.1A  | 20 mm dia. nominal bore   | 18    | each      | 539.95    | 9,719.10          |                  |
|      | 18.17.1   | 25 mm dia. nominal bore   | 6     | each      | 622.40    | 3,734.40          |                  |
|      | 18.17.2   | 32 mm dia. nominal bore   | 2     | each      | 689.60    | 1,379.20          |                  |
|      | 18.17.3   | 40 mm dia. nominal bore   | 1     | each      | 826.10    | 826.10            |                  |
|      | 18.17.4   | 50 mm dia. nominal bore   | 0     | each      | 1,026.65  | -                 |                  |
| 2.4  | 18.18     | Providing and fixing ball valve (brass) of approved quality, High or low pressure, with plastic floats complete :   |       |           |           |                   |                  |
|      | 18.18.3   | 25 mm nominal bore  | 6     | each      | 464.05    | 2,784.30          |                  |
| 2.5  | NSI-13    | Providing and fixing hand held ablation fitting (health faucet) with 1.2 meter long flexible tube and wall hook, all complete approved engineer-in-charge   | 12    | each      | 2,373.00  |                   | 28,476.00        |
| 2.6  | NSI-14    | Supply and fixing of 15mm CP brass 2 -Way Bib Cock with wall flange and suitable length CP brass extension pipe all of approved engineer-in-charge  | 12    | each      | 2,654.00  |                   | 31,848.00        |
| 2.7  | 18.48     | Providing and placing on terrace (at all floor levels) polyethylene water storage tank, IS : 12701 marked, with cover and suitable locking arrangement and making necessary holes for inlet, outlet and overflow pipes but without fittings and the base support for tank   | 6,000 | per litre | 11.00     | 66,000.00         |                  |
| 2.8  | 18.51     | Providing and fixing C.P. brass long nose bib cock of approved quality conforming to IS standards and weighing not less than 810 gms.   |       |           |           |                   |                  |
|      | 18.51.1   | 15 mm nominal bore  | 24    | each      | 796.95    | 19,126.80         |                  |
| 2.9  | 18.52     | Providing and fixing C.P. brass stop cock (concealed) of standard design and of approved make conforming to IS:8931.  |       |           |           |                   |                  |
|      | 18.52.1   | 15 mm nominal bore  | 24    |           | 670.45    | 16,090.80         |                  |
| 2.10 | 18.53     | Providing and fixing C.P. brass angle valve for basin mixer and geyser points of approved quality conforming to IS:8931   |       |           |           |                   |                  |
|      | 18.53.1   | 15mm nominal bore   | 84    | each      | 574.30    | 48,241.20         |                  |
| 2.11 | 18.21     | Providing and fixing uplasticised PVC connection pipe with brass unions :   |       |           |           |                   |                  |
|      | 18.21.2   | 45 cm length  |       |           |           |                   |                  |
|      | 18.21.2.1 | 15 mm nominal bore  | 84    | each      | 97.75     | 8,211.00          |                  |
| 2.12 | 18.22     | Providing and fixing C.P. brass shower rose with 15 or 20 mm inlet :  |       |           |           |                   |                  |
|      | 18.22.2   | 150 mm diameter   | 12    | each      | 222.35    | 2,668.20          |                  |
| 2.13 | 17.22B    | Providing and fixing CP Brass Single lever telephonic wall mixer of quality & make as approved by Engineer in charge.   |       |           |           |                   |                  |
|      |           | (a) 15 mm nominal dia   | 0     | each      | 6,940.75  | -                 |                  |

|      |          |  |      |       |           |                   |
|------|----------|--|------|-------|-----------|-------------------|
| 2.14 | NSI-15   | Providing , Fixing, testing and commissioning of CP Brass 150 mm x 150 mm Shower head with wall flange with all accessories as required and making good the walls wherever required. ( MAKE-JAQUAR -Model No- OHS-35495 or EQUIVALENT.)  | 0    | each  | 4,875.00  | -                 |
| 2.15 | NSI-16   | Supply ,Erection , Testing & Commissioning of Automatic water level control panel & related accessories for pumping automation with consisting of automatic water level controller , level sensor with stainless steel probe, motorized butterfly valve, motorized valve controller with complete in all respect.  |      |       |           |                   |
|      | a        | upto 50 mm dia. nominal bore   | 1    | each  | 26,947.00 | 26,947.00         |
|      |          | <b>TOTAL</b>   |      |       |           | <b>318,519.55</b> |
|      |          | <b>SUBHEAD – III Drainage</b>  |      |       |           | <b>87,271.00</b>  |
| 3.1  | NSI-17   | Supply and fixing HDPE double wall corrugated ( DWC ) I.S 16098 ( Part - 2 ) 3013 for soil / waste pipe under ground drainage system with jointed with rubber ring with good quality lubricant for fittings, inclusive of all necessary specials like bends, tees, offsets, junctions, re excavation and refilling etc complete.   |      |       |           |                   |
|      | a        | 150 mm diameter  | 10   | metre | 1,024.00  | 10,240.00         |
|      | b        | 200 mm diameter  | 0    | metre | 1,298.00  | -                 |
| 3.2  | 19.4     | Providing and fixing square-mouth S.W. gully trap class SP-1 complete with C.I. grating brick masonry chamber with water tight C.I. cover with frame of 300 x300 mm size (inside) the weight of cover to be not less than 4.50 kg and frame to be not less than 2.70 kg as per standard design :   |      |       |           |                   |
|      | 19.4.3   | 180x150 mm size P type   |      |       |           |                   |
|      | 19.4.3.1 | With fly ash bricks (non modular) bricks of class designation 7.5  | 4    | each  | 2,802.15  | 11,208.60         |
| 3.3  | 19.6     | Providing and laying non-pressure NP2 class (light duty) R.C.C. pipes with collars jointed with stiff mixture of cement mortar in the proportion of 1:2 (1 cement : 2 fine sand) including testing of joints etc. complete :   |      |       |           |                   |
|      | 19.6.2   | 150 mm dia. R.C.C. pipe  | 10   | metre | 556.45    | 5,564.50          |
|      | 19.6.3   | 250 mm dia. R.C.C. pipe  | 0    | metre | 899.80    | -                 |
|      | 19.6.4   | 300 mm dia. R.C.C. pipe  | 0    | metre | 994.30    | -                 |
| 3.4  | 19.7     | Constructing brick masonry manhole in cement mortar 1:4 (1 cement :4 coarse sand) with RCC top slab with 1:2:4 mix ( 1 cement : 2 coarse sand : 4 stone aggregate 20 mm nominal size ) , foundation concrete 1:4:8 mix (1 cement : 4 coarse sand : 8 stone aggregate 40 mm nominal size ) inside plastering 12 mm thick with cement mortar 1:3 (1 cement : 3 coarse sand) finished with a floating coat of neat cement, foundation concrete 1:3:6 mix (1 cement :3 coarse sand : 6 graded stone aggregate 40 mm nominal size),and making necessary channel in cement concrete 1:2:4 (1 cement :2 coarse sand :4 graded stone aggregate 20 mm nominal size) finished with a floating coat of neat cement complete as per standard design .  |      |       |           |                   |
|      | 19.7.1   | inside size 90x80 cms and 45 cms deep including CI cover with frame ( light duty ) 455x610 mm internal dimensions total weight of cover & frame to be not less than 38 kg (weight of cover 23 kg & weight of frame 15 kg )   |      |       |           |                   |
|      | 19.7.1.1 | with common burnt clay FPS ( non modular ) bricks of class designation 7.5   | 2.00 | Each  | 12,770.55 | 25,541.10         |
| 3.5  | 19.8     | Extra depth for manhole 90x80 cm   |      |       |           |                   |
|      | 19.8.1.1 | With FPS bricks class designation 7.5  | 0.20 | Metre | 8,825.40  | 1,765.08          |
| 3.6  | 19.16    | Providing orange colour safety foot rest of minimum 6 mm thick plastic encapsulated as per IS : 10910, on 12 mm dia steel bar conforming to IS:1786, having minimum cross section as 23 mmx25 mm and over all minimum length 263 mm and width as 165 mm with minimum 112 mm space between protruded legs having 2 mm tread on top surface by ribbing or chequering esides necessary and adequate anchoring projections on tail length on 138 mm as per standard drawing and suitable to with stand the bend test and chemical resistance test as per pecifications and having manufacture's permanent identification mark to be visible even after fixing,including fixing in manholes with 30x20x15 cm cement concrete block 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size) complete as per design. | 8.00 | Each  | 553.70    | 4,429.60          |
| 3.7  | 19.27    | Constructing brick masonry road gully chamber 50x45x60 cm with bricks in cement mortar 1:4 (1 cement : 4 coarse sand) including 500x450 mm pre-cast R.C.C. horizontal grating with frame complete as per standard design :   |      |       |           |                   |
|      | 19.27.1  | With common burnt clay F.P.S. (non modular) bricks of class designation 7.5  | 4.00 | Each  | 5,957.90  | 23,831.60         |
|      |          | <b>TOTAL</b>   |      |       |           | <b>72,340.48</b>  |
|      |          |  |      |       |           | <b>10,240.00</b>  |

| ESTIMATE OF FOR CONSTRUCTION OF ADDITIONAL DORMITORY & STAFF<br>QUARTERS AT JNV KUPWARA, JAMMU AND KASHMIR |  |                      |            |
|--|--|----------------------|------------|
| SUMMARY SHEET OF TYPE III RESIDENCE (G+2, 6 Nos ) ELECTRICAL WORK  |  |                      |            |
| Sl.No.   | Name of Work                           | TOTAL AMOUNT(IN RS.) |            |
|  |  | DSR-2022             | MR         |
|  |  |                      |            |
| I  | SUB HEAD - I: CIRCUIT CUM POINT WIRING | 1,007,633.00         | 12,698.74  |
| II   | SUBHEAD -II - FITTINGS & FIXTURES      | 49,140.00            | 100,156.26 |
| III  | SUBHEAD - III - DISTRIBUTION BOARDS    | 103,502.00           | -          |
| III  | SUB HEAD-IV , LIGHTNING CONDUCTOR      | 43,510.00            |            |
|  | TOTAL                                  | 1,203,785.00         | 112,855.00 |
|  | COST OF 1 Qtr                          | 200,630.83           | 18,809.17  |
|  | COST OF 21 Qtr                         | 4,213,247.50         | 394,992.50 |
|  | Say Rs. In Lacs                        | 42.13                | 3.95       |



| ESTIMATE OF FOR CONSTRUCTION OF ADDITIONAL DORMITORY & STAFF QUARTERS AT JNV KUPWARA, JAMMU AND KASHMIR |              |  |       |     |          |           |           |       |
|---|--------------|--|-------|-----|----------|-----------|-----------|-------|
| Detailed Estimate for ELECTRICAL Works TYPE-3 (G+2) RESIDENCE   |              |  |       |     |          |           |           |       |
| S.No.   | DSR-2022/NSI | Description  | Unit  | Qty | Rate     |           | Amount    |       |
|   |              |  |       |     | DSR-2022 | NSI       | DSR-2022  | NSI   |
|   |              | <b>SUB HEAD - I: CIRCUIT CUM POINT WIRING</b>  |       |     |          |           |           |       |
|   |              | <b>SWITCH CONTROL LIGHT POINTS</b>   |       |     |          |           |           |       |
| 1   | DSR 1.10     | Wiring for light point/ fan point/ exhaust fan point/ call bell point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable in surface / recessed medium class PVC conduit, with modular switch, modular plate, suitable GI box and earthing the point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable etc. as required.   |       |     |          |           |           |       |
| 1.1   | DSR 1.10.3   | Group C  | Point | 108 | 1,467.00 |           | 158,436   |       |
| 2   | DSR-1.55     | <b>Wiring for group controlled (looped) light point/fan point/exhaust fan point/ call bell point ( without Independent switch etc.) with 1.5 sq. mm FRLS PVC insulated copper conductor single core cable in surface/ recessed PVC conduit, and earthing the point with 1.5 sq. mm FRLS PVC insulated copper conductor single core cable etc as required. (Switch Control Secondary Points)</b>  | Point |     | 858.00   |           | -         |       |
| 2.1   | DSR-1.55.3   | Group C  |       |     |          |           |           |       |
| 3   | DSR-1.3      | <b>Wiring for light point/ fan point/ exhaust fan point/ call bell point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable in surface / recessed steel conduit, with modular switch, modular plate, suitable GI box and earthing the point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable etc. as required. (Switch Control Primary Points)</b>   |       |     |          |           |           |       |
| 3.1   | DSR-1.3.3    | Group C  | Point | 0   | 1,845.00 |           | -         |       |
| 4   | DSR-1.54     | <b>Wiring for group controlled (looped) light point/fan point/exhaust fan point/ call bell point (without Independent switch etc.) with 1.5 sq. mm FRLS PVC insulated copper conductor single core cable in surface/ recessed steel conduit, and earthing the point with 1.5 sq. mm FRLS PVC insulated copper conductor single core cable etc as required. (Switch Control Secondary Points)</b>   |       |     |          |           |           |       |
| 4.1   | DSR-1.54.3   | Group C  | Point | 0   | 1,094.00 |           | -         |       |
|   |              | <b>MCB CONTROL LIGHT POINTS</b>  |       |     |          |           |           |       |
| 5   | NSI-1        | <b>Wiring for light point/ fan point/ exhaust fan point/ call bell point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable in surface / recessed steel conduit, with modular switch, modular plate, suitable GI box and earthing the point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable etc. as required. (Switch Control Primary Points)</b>   |       |     |          |           |           |       |
| 5.1   | NSI-1.1      | <b>Primary point controlled by one MCB.</b>  | Point | 3   |          | 1,523.13  |           | 4,569 |
| 5.2   | NSI-1.2      | Same as item above but <b>Secondary point.</b> i.e. Points to be looped with Primary point with 2.5 sqmm wire and Point wiring   | Point | 6   |          | 1,354.89  |           | 8,129 |
| 6   | DSR 1.5      | Wiring for light/ power plug with 2X4 sq. mm FRLS PVC insulated copper conductor single core cable in surface/ recessed steel conduit alongwith 1 No. 4 sq. mm FRLS PVC insulated copper conductor single core cable for loop earthing as required.  | Metre | 340 | 433.00   |           | 147,220   |       |
| 7   | DSR 1.7      | Wiring for circuit/ submain wiring alongwith earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface/ recessed steel conduit as required.   |       |     |          |           |           |       |
| 7.1   | DSR 1.7.1    | 2 X 1.5 sq. mm + 1 X 1.5 sq. mm earth wire   | Metre | 0   | 327.00   |           | -         |       |
| 7.2   | DSR 1.7.2    | 2 X 2.5 sq. mm + 1 X 2.5 sq. mm earth wire   | Metre | 388 | 369.00   |           | 143,172   |       |
| 7.3   | DSR 1.7.4    | 2 X 6 sq. mm + 1 X 6 sq. mm earth wire   | Metre | 515 | 589.00   |           | 303,335   |       |
| 7.4   | DSR 1.7.5    | 2 x 10 sq. mm + 1 x 10 sq.mm earth wire  | Metre | 0   | 710.00   |           | -         |       |
| 7.5   | DSR 1.7.10   | 4 X 10 sq. mm + 2 X 6 sq. mm earth wire  | Metre | 160 | 1,166.00 |           | 186,560   |       |
| 7.6   | DSR 1.7.11   | 4 X 16 sq. mm + 2 X 6 sq. mm earth wire  | Metre | 0   | 1,645.00 |           | -         |       |
| 8   | DSR 1.31     | Supplying and fixing suitable size GI box with modular plate and cover in front on surface or in recess including providing and fixing 3 pin 5/6 Amp modular socket outlet and 5/6 A modular switch, connection etc. as required.  | Each  | 42  | 477.00   |           | 20,034    |       |
| 9   | NSI-2        | Supply and Wiring for 250 volts single phase and neutral 2 Nos 6 amps socket outlate with control by 1 No switched with 2.5 sq.mm PVC insulated copper conductor 1100 volts grade stranded flexible FRLS wires in concealed or surface mounted 25 mm dia 2mm thick PVC conduit including providing and fixing of 6 amps 3 pin switch socket outlet of approved make and design in 2 mm thick GI box with grid plate and earthing of third pin of the socket with 2.5 Sq. mm PVC insulated copper conductor stranded flexible FRLS wire.(maximum four no. of switches socket shall be connected on one circuit) | Each  | 0   |          | 1,782     | -         |       |
| 10  | DSR 1.32     | Supplying and fixing suitable size GI box with modular plate and cover in front on surface or in recess, including providing and fixing 6 pin 5/6 & 15/16 A modular socket outlet and 15/16 A modular switch, connections etc. as required.  | Each  | 42  | 586.00   |           | 24,612.00 |       |
| 11  | NSI-3        | Supplying and fixing 63 A, 415 V, TPN Industrial type socket outlet, with 4 pole and earth, metal enclosed plug top alongwith 63 A "C" curve, TPMCB, in sheet steel enclosure, on surface or in recess, with chained metal cover for the socket outlet and complete with connections, testing and commissioning etc. as required.  | Each  | 0   |          | 11,284.98 | -         |       |
| 12  | NSI-4        | Supplying and fixing 80 A, 415 V, TPN Industrial type socket outlet, with 4 pole and earth, metal enclosed plug top alongwith 80 A "C" curve, TPMCB, in sheet steel enclosure, on surface or in recess, with chained metal cover for the socket outlet and complete with connections, testing and commissioning etc. as required.  | Each  | 0   |          | 17,343.23 | -         |       |

|   |            |   |      |    |          |           |              |            |
|---|------------|---|------|----|----------|-----------|--------------|------------|
| 13  | DSR-1.33   | Supplying and fixing 3 pin, 5 A ceiling rose on the existing junction box/ wooden block including connections etc. as required.   | Each | 18 | 87       |           | 1,566.00     |            |
| 14  | DSR-1.57   | Supplying & fixing suitable size GI box with modular plate and cover in front on surface or in recess i/c providing and fixing 25 amp modular socket outlet and 25 Amps modular SP MCB, "C" curve including connection, painting etc. as required. (AC's & Gysers)  | Each | 30 | 727      |           | 21,810.00    |            |
| 15  | DSR 1.24   | Supplying and fixing following modular switch/ socket on the existing modular plate & switch box including connections but excluding modular plate etc. as required.  |      |    |          |           |              |            |
| 15.1                                      | DSR 1.24.6 | Telephone socket outlet   | Nos  | 6  | 148.00   |           | 888.00       |            |
| 16  | DSR 1.27   | Supplying and fixing following size/ modules, GI box alongwith modular base & cover plate for modular switches in recess etc. as required.  |      |    |          |           |              |            |
| 16.1                                      | DSR 1.27.1 | 1 or 2 Module (75mmX75mm)   | Nos  | 0  | 298.00   |           | -            |            |
| 16.2                                      | DSR 1.27.4 | 6 module (78mm X 205 mm X 50 mm)  | Nos  | 0  | 402.00   |           | -            |            |
| 17  | DSR 1.24   | Supplying and fixing following size/ modules, GI box alongwith modular base & cover plate for modular switches in recess etc. as required.  |      |    |          |           |              |            |
| 17.1                                      | DSR 1.24.4 | 3 pin , 5/6 amps socket outlet  | Each | 0  | 122.00   |           | -            |            |
| 17.1                                      | DSR 1.24.1 | 5/6 amps switch   | Each | 0  | 103.00   |           | -            |            |
| 18  | DSR 1.21   | Supplying and fixing of following sizes of medium class PVC conduit along with accessories in surface/recess including cutting the wall and making good the same in case of recessed conduit as required.   |      |    |          |           |              |            |
| 18.1                                      | DSR 1.21.2 | 25 mm   | Mtr  | 0  | 145.00   |           | -            |            |
| 18.2                                      | DSR 1.21.3 | 32 mm   | Mtr  | 0  | 184.00   |           | -            |            |
| TOTAL CARRIED TO SUMMARY FOR SUBHEAD - I  |            |   |      |    |          |           | 1,007,633.00 | 12,698.74  |
| SUBHEAD -II - FITTINGS & FIXTURES         |            |   |      |    |          |           |              |            |
| 1   | NSI-1      | Supply, Installation, Testing and Commissioning of 10 W Bulk head Light.  | Each | 0  |          | 1,158.20  | -            |            |
| 2   | NSI-2      | Supply, Installation, Testing and Commissioning of 5W Mirror Light.   | Each | 0  |          | 445.46    | -            |            |
| 3   | NSI-3      | Supply, Installation, Testing and Commissioning of 18W Surface/Recessed Mounted LED circular Downlighter.   | Each | 0  |          | 1,470.02  | -            |            |
| 4   | NSI-4      | Supply, Installation, Testing and Commissioning of 18/20W Wall/Surface mouted 4 ft. LED   | Each | 24 |          | 1,336.38  |              | 32,073.10  |
| 5   | NSI-5      | Supply, Installation, Testing and Commissioning of 15W Surface mounted LED Square Downlighter.  | Each | 15 |          | 1,380.93  |              | 20,713.88  |
| 6   | NSI-6      | Supply, Installation, Testing and Commissioning of 150 W CHANDELIER   | Each | 0  |          | 89,091.94 | -            |            |
| 7   | NSI-7      | Supply, Installation, Testing and Commissioning of 12/9W Recessed mounted LED circular Downlighter.   | Each | 0  |          | 1,069.10  | -            |            |
| 8   | NSI-8      | Supply, Installation, Testing and Commissioning of 9W (Nominal) Wall Bracket Light  | Each | 30 |          | 222.73    |              | 6,681.90   |
| 9   | DSR 19.1   | Supply, Installation, Testing and Commissioning of 1200 mm sweep, BEE 5 star rated, ceiling fan with Brush Less Direct Current (BLDC) Motor, class of insulation: B, 3 nos. blades, 30 cm long down rod, 2nos. canopies, shackle kit, safety rope, copper winding, Power Factor not less than 0.9, Service Value (CM/M/W) minimum 6.00, Air delivery minimum 210 Cum/Min , 350 RPM (tolerance as per IS : 374-2019), THD less than 10%, remote or electronic regulator unit for speed control and all remaining accessories including safety pin, nut bolts, washers, temperature rise=75 degree C (max.), insulation resistance more than 2 mega ohm, suitable for 230 V, 50 Hz, single phase AC Supply, earthing etc. complete as required. | Each | 18 | 2,730.00 |           | 49,140.00    | -          |
| 10  | NSI-9      | Supply Installation, Testing and Commissioning of 250 mm dia Domestic Exhaust Fan   | Each | 18 |          | 2,260.41  |              | 40,687.40  |
| TOTAL CARRIED TO SUMMARY FOR SUBHEAD - II |            |   |      |    |          |           | 49,140.00    | 100,156.26 |
| SUBHEAD - III - DISTRIBUTION BOARDS       |            |   |      |    |          |           |              |            |
| 1   | DSR 2.3    | Supplying and fixing following way, single pole and neutral, sheet steel, MCB distribution board, 240 V, on surface/ recess, complete with tinned copper bus bar, neutral bus bar, earth bar, din bar, interconnections, powder painted including earthing etc. as required. (But without MCB/RCCB/Isolator)  |      |    |          |           |              |            |
| 1.1                                       | DSR 2.3.1  | 6 way, Double door  | Each | 0  | 2206     |           | -            |            |
| 1.2                                       | DSR 2.3.2  | 8 way, Double door  | Each | 0  | 2573     |           | -            |            |
| 1.3                                       | DSR 2.3.3  | 12 way, Double door   | Each | 0  | 2315     |           | -            |            |
| 2   | DSR 2.4    | Supplying and fixing following way, three pole and neutral, sheet steel, MCB distribution board, 415 volts, on surface/ recess complete with tinned copper busbar, neutral busbar, earth bar, din bar, detachable gland plate, interconnections, phosphatized and powder painted including earthing etc. as required. (But without MCB/ RCCB/ Isolator)   |      |    |          |           |              |            |
| 2.1                                       | DSR 2.4.1  | 4 way (4 + 12), Double door   | Each | 0  | 4,091.00 |           | -            |            |
| 2.2                                       | DSR 2.4.2  | 6 way (4 + 18), Double door   | Each | 6  | 4,974.00 |           | 29,844.00    |            |
| 2.3                                       | DSR 2.4.3  | 8 way (4 + 24), Double door   | Each | 0  | 5,967.00 |           | -            |            |
| 3   | DSR 2.5    | Supplying and fixing of following ways surface/ recess mounting, vertical type, 415 V, TPN MCB distribution board of sheet steel, dust protected, duly powder painted, inclusive of 200 A tinned copper bus bar, common neutral link, earth bar, din bar for mounting MCBs (but without MCBs and incomer) as required . (Note :Vertical type MCB TPDB is normally used where 3 phase outlets are required.)   |      |    |          |           |              |            |

|     |            |   |       |      |          |  |                   |          |
|-----|------------|---|-------|------|----------|--|-------------------|----------|
| 3.1 | DSR 2.5.3  | 12 way (4 + 36), Double door  | Each  | 0    | 12833    |  | -                 |          |
|     |            |   |       |      |          |  |                   |          |
| 4   | DSR 2.10   | Supplying and fixing 5 A to 32 A rating, 240/415 V, 10 kA, "C" curve, miniature circuit breaker suitable for inductive load of following poles in the existing MCB DB complete with connections, testing and commissioning etc. as required.                                  |       |      |          |  |                   |          |
| 4.1 | 2.10.1     | Single Pole   | Each  | 72   | 256      |  | 18,432.00         |          |
| 4.2 | 2.10.2     | Single Pole Neutral   | Each  | 0    | 599      |  | -                 |          |
|     |            |   |       |      |          |  |                   |          |
| 5   | DSR 2.12   | Supplying and fixing following rating, double pole, 240 V, isolator in the existing MCB DB complete with connections, testing and commissioning etc. as required.   |       |      |          |  |                   |          |
| 5.1 | DSR 2.12.1 | 40 A  | Each  | 0    | 435      |  | -                 |          |
| 5.2 | DSR 2.12.2 | 63 A  | Each  | 0    | 527      |  | -                 |          |
|     |            |   |       |      |          |  |                   |          |
| 6   | DSR 2.13   | Supplying and fixing following rating, four pole, 415 V, isolator in the existing MCB DB complete with connections, testing and commissioning etc. as required.   |       |      |          |  |                   |          |
| 6.1 | DSR 2.13.1 | 25 A  | Each  | 0    | 970      |  | -                 |          |
| 6.1 | DSR 2.13.1 | 40 A  | Each  | 0    | 970      |  | -                 |          |
| 6.2 | DSR 2.13.2 | 63 A  | Each  | 6    | 1034     |  | 6,204.00          |          |
|     |            |   |       |      |          |  |                   |          |
| 7   | DSR 2.14   | Supplying and fixing following rating, double pole, (single phase and neutral), 240 V, residual current circuit breaker (RCCB), having a sensitivity current 30 mA in the existing MCB DB complete with connections, testing and commissioning etc. as required.              |       |      |          |  |                   |          |
| 7.1 | DSR 2.14.1 | 25 A  | Each  | 0    | 2028     |  | -                 |          |
| 7.2 | DSR 2.14.2 | 40 A  | Each  | 0    | 2642     |  | -                 |          |
| 7.3 | DSR 2.14.3 | 63 A  | Each  | 18   | 2722     |  | 48,996.00         |          |
|     |            |   |       |      |          |  |                   |          |
| 8   | DSR 2.11   | Supplying and fixing single pole blanking plate in the existing MCB DB complete etc. as required.   | Each  | 2    | 13       |  | 26.00             |          |
|     |            |   |       |      |          |  |                   |          |
|     |            | <b>TOTAL CARRIED TO SUMMARY FOR SUBHEAD - III</b>   |       |      |          |  | <b>103,502.00</b> | <b>-</b> |
|     |            |   |       |      |          |  |                   |          |
| VI  |            | <b>SUB HEAD-IV , LIGHTNING CONDUCTOR</b>  |       |      |          |  |                   |          |
|     |            | <b>LIGHTNING CONDUCTOR</b>  |       |      |          |  |                   |          |
| 1   | 6.2        | Providing and fixing of lightning conductor finial, made of 25 mm dia 300 mm long, G.I. tube, having single prong at top, with 85 mm dia 6 mm thick G.I. base plate including holes etc. complete as required.  | Each  | 4.0  | 518.00   |  | 2,072.00          |          |
| 2   | 6.3        | Fixing of lightning conductor finial (single prong) with base plate including holes etc. complete as required.  | Each  | 4.0  | 360.00   |  | 1,440.00          |          |
|     |            |   |       |      |          |  |                   |          |
| 3   | 6.4        | Jointing copper / G.I. tape (with another copper/ G I tape, base of the finial or any other metallic object) by riveting / nut bolting/ sweating and soldering etc as required.   | Metre | 10.0 | 113.00   |  | 1,130.00          |          |
| 4   | 6.7        | Providing and fixing G.I. tape 20 mm X 3 mm thick on parapet or surface of wall for lightning conductor complete as required.(For horizontal run)   | Metre | 60.0 | 126.00   |  | 7,560.00          |          |
|     |            |   |       |      |          |  |                   |          |
| 5   | 6.8        | Providing and fixing G.I. tape 20 mm X 3 mm thick on parapet or surface of wall for lightning conductor complete as required.(For vertical run)   | Metre | 40.0 | 197.00   |  | 7,880.00          |          |
| 6   | 6.10       | Fixing of copper/ G.I. tape 20 mm X 3 mm thick on parapet or surface of wall for lightning conductor complete as required.(For vertical run)  | Metre | 20.0 | 162.00   |  | 3,240.00          |          |
|     |            |   |       |      |          |  |                   |          |
| 7   | 6.12       | Providing and fixing testing joint, made of 20 mm X 3 mm thick G.I. strip, 125 mm long, with 4 nos. of G.I. bolts, nuts, chuck nuts and spring washers etc. complete as required.   | Each  | 20.0 | 121.00   |  | 2,420.00          |          |
|     |            |   |       |      |          |  |                   |          |
| 8   | 5.4        | Earthing with G.I. earth plate 600 mm X 600 mm X 6 mm thick including accessories, and providing masonry enclosure with cover plate having locking arrangement and watering pipe of 2.7 metre long etc. with charcoal/ coke and salt as required. Details of cost for one Set | Each  | 2.0  | 7,472.00 |  | 14,944.00         |          |
|     |            |   |       |      |          |  |                   |          |
| 9   | 5.11       | Providing and fixing 25 mm X 5 mm G.I. strip in 40 mm dia G.I. pipe from earth electrode including connection with G.I. nut, bolt, spring, washer excavation and re-filling etc. as required.   | Metre | 4.0  | 706.00   |  | 2,824.00          |          |
|     |            |   |       |      |          |  |                   |          |
|     |            | <b>TOTAL SUB HEAD (VI)</b>  |       |      |          |  | <b>43,510.00</b>  |          |

**ESTIMATE OF FOR CONSTRUCTION OF ADDITIONAL DORMITORY & STAFF QUARTERS AT JNV KUPWARA, JAMMU AND KASHMIR**

**ABSTRACT OF COST  
[ TYPE-II RESIDENCES G+2, 6 UNITS. ]**

| S.N.     | DESCRIPTION OF ITEM  | DSR<br>2023 | QUANTITY | UNIT | RATES    | AMOUNT DSR<br>ITEM | AMOUNT<br>[M.R. ITEM] |
|----------|--|-------------|----------|------|----------|--------------------|-----------------------|
| <b>A</b> | <b>Earth Work</b>  |             |          |      |          |                    |                       |
| 1        | Earth work in excavation by mechanical means (Hydraulic excavator) / manual means in foundation trenches or drains (not exceeding 1.5 m in width or 10 sqm on plan), including dressing of sides and ramming of bottoms, lift upto 1.5 m, including getting out the excavated soil and disposal of surplus excavated soil as directed, within a lead of 50 m.  |             |          |      |          |                    |                       |
|          | All kinds of soil  | 2.8.1       | 210.70   | CUM  | 260.30   | 54,845.21          |                       |
| 2        | Filling available excavated earth (excluding rock) in trenches, plinth, sides of foundations etc. in layers not exceeding 20cm in depth,consolidating each deposited layer by ramming and watering, lead upto 50 m and lift upto 1.5 m.  | 2.25        | 179.10   | CUM  | 196.00   | 35,102.62          |                       |
| 3        | Extra for every additional lift of 1.5 m or part thereof in excavation / banking excavated or stacked materials.<br>All kinds of soil  | 2.26.1      | 52.68    | CUM  | 126.80   | 6,679.82           |                       |
| 4        | Supplying and filling in plinth with sand under floors, including watering, ramming ,consolidating and dressing complete.  | 2.27        | 6.44     | CUM  | 2123.75  | 13,676.95          |                       |
| 5        | Excavating, supplying and filling of local earth (including royalty) by mechanical transport upto a lead of 5km also including ramming and watering of the earth in layers not exceeding 20 cm in trenches, plinth, sides of foundation etc. complete.   | 2.25a       | 7.01     | CUM  | 700.50   | 4,910.51           |                       |
| <b>B</b> | <b>Concrete Work</b>   |             |          |      |          |                    |                       |
| 6        | Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level :1:5:10 (1 cement : 5 coarse sand (zoneIII)derived from natural sources : 10 graded stone aggregate 40 mm nominal size derived from natural sources)  | 4.1.10      | 16.98    | CUM  | 6518.60  | 110,685.83         |                       |
| 7        | Providing and laying damp-proof course 40mm thick with cement concrete 1:2:4 (1 cement : 2 coarse sand (zone-III) derived from natural sources : 4 graded stone aggregate 12.5mm nominal size derived from natural sources)  | 4.10        | 6.69     | SQM  | 410.85   | 2,748.59           |                       |
| 8        | Providing & applying a coat of residual petroleum bitumen of grade of VG-10 of approved quality using 1.7kg per square metre on damp proof course after cleaning the surface with brushes and finally with a piece of cloth lightly soaked in kerosene oil.  | 4.13        | 6.69     | SQM  | 146.15   | 977.74             |                       |
| 9        | Making plinth protection 50mm thick of cement concrete 1:3:6 (1 cement : 3 coarse sand (zone-III) derived from natural sources : 6 graded stone aggregate 20 mm nominal size derived from natural sources) over75mm thick bed of dry brick ballast 40 mm nominal size, well rammed and consolidated and grouted with fine sand,including necessary excavation,levelling & dressing & finishing the top smooth. | 4.17        | 20.30    | SQM  | 749.30   | 15,210.79          |                       |
| 10       | Brick edging in full brick width and half brick depth including excavation refilling and disposal of surplus earth lead upto 50 metres. With common burnt clay F.P.S.(non modular) bricks of class designation 75  | 16.7.1      | 33.84    | RM   | 194.30   | 6,575.11           |                       |
| <b>C</b> | <b>Reinforced Cement Concrete</b>  |             |          |      |          |                    |                       |
| 11       | Centering and shuttering including strutting, propping etc. and removal of form for all heights  |             |          |      |          |                    |                       |
| (a)      | Foundations, footings, bases of columns, etc. for mass concrete.   | 5.9.1       | 65.61    | SQM  | 392.15   | 25,728.96          |                       |
| (b)      | Suspended floors, roofs, landings, balconies and access platform.  | 5.9.3       | 311.83   | SQM  | 927.25   | 289,144.37         |                       |
| (c)      | Lintels, beams, plinth beams, girders, bressumers  | 5.9.5       | 187.65   | SQM  | 736.40   | 138,185.46         |                       |
| (d)      | Columns,Pillars, Piers, Abutments, Posts and Struts.   | 5.9.6       | 295.80   | SQM  | 961.30   | 284,352.54         |                       |
| (e)      | Edges of slabs and breaks in floors and walls Under 20 cm wide.  | 5.9.16.1    | 206.03   | RM   | 208.55   | 42,966.51          |                       |
| 12       | Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete <b>upto plinth level</b> . Thermo-Mechanically Treated bars of grade Fe-500D or more.  | 5.22.6      | 41.48    | QTL  | 10785.00 | 447,361.80         |                       |
| 13       | Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete <b>above plinth level</b> . Thermo-Mechanically Treated bars of grade Fe-500 D or more.  | 5.22.A.6    | 57.60    | QTL  | 10785.00 | 621,216.00         |                       |
| 14       | Add for plaster drip course/ groove in plastered surface or moulding to R.C.C. projections.  | 5.30        | 318.28   | RM   | 78.40    | 24,953.15          |                       |

|                        |   |          |        |     |         |            |  |
|------------------------|---|----------|--------|-----|---------|------------|--|
| 15                     | Providing and laying in position ready mixed or site batched design mix cement concrete for reinforced cement concrete work; using coarse aggregate and fine aggregate derived from natural sources, Portland Pozzolana / Ordinary Portland /Portland Slag cement, admixtures in recommended proportions as per IS: 9103 to accelerate / retard setting of concrete, to improve durability and workability without impairing strength;including pumping of concrete to site of laying, curing, carriage for all leads; but excluding the cost of centering, shuttering, finishing and reinforcement as per direction of the engineer-in-charge; for the following grades of concrete.<br>Note: Extra cement up to 10% of the minimum specified cement content in design mix shall be payable separately. In case the cement content in design mix is more than 110% of the specified minimum cement content, the contractor shall have discretion to either re-design the mix or bear the cost of extra cement. | 5.33     |        |     |         |            |  |
| (I)                    | <b>All works upto plinth level</b>  | 5.33.1   |        |     |         |            |  |
|                        | <b>Concrete of M25 grade with minimum cement content of 330 kg /cum</b>   | 5.33.1.1 |        |     |         |            |  |
|                        | (i) R.C.C. work in Footing  | 5.33.1.1 | 41.80  | CUM | 9504.75 | 397,298.55 |  |
|                        | (ii) R.C.C. work in Beam  | 5.33.1.1 | 4.01   | CUM | 9504.75 | 38,114.05  |  |
|                        | (iii) R.C.C. work in Columns  | 5.33.1.1 | 3.45   | CUM | 9504.75 | 32,791.39  |  |
| (II)                   | <b>All works above plinth level upto floor V level</b>  | 5.33.2   |        |     |         |            |  |
|                        | <b>Concrete of M25 grade with minimum cement content of 330 kg /cum</b>   | 5.33.2.1 |        |     |         |            |  |
|                        | (i) R.C.C. work in Lintel   | 5.33.2.1 | 0.61   | CUM | 9860.40 | 6,014.84   |  |
|                        | (ii) R.C.C. work in Beam  | 5.33.2.1 | 11.75  | CUM | 9860.40 | 115,859.70 |  |
|                        | (iii) R.C.C. work in Columns  | 5.33.2.1 | 18.75  | CUM | 9860.40 | 184,882.50 |  |
|                        | (iv) R.C.C. work in Slab  | 5.33.2.1 | 25.26  | CUM | 9860.40 | 249,073.70 |  |
| <b>D Masonry Work</b>  |   |          |        |     |         |            |  |
| 16                     | Half brick masonry with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in superstructure above plinth level up to floor V level. : cement mortar 1:4 (1 cement : 4 coarse sand)   | 6.13.2   | 181.42 | Sqm | 1123.80 | 203,879.80 |  |
| 17                     | Extra for providing and placing in position 2 Nos 6mm dia. M.S. bars at every third course of half brick masonry.   | 6.15     | 181.42 | SQM | 104.80  | 19,012.82  |  |
| 18                     | Brick work with non modular fly ash bricks conforming to IS:12894, class designation 10 average compressive strength in super structure above plinth level up to floor V level in : Cement mortar 1:6 (1 cement : 6 Coarse sand)  | 6.34.2   | 31.54  | CUM | 8752.55 | 276,055.43 |  |
| 19                     | Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in foundation and plinth in:Cement mortar 1:6 (1 cement : 6 coarse sand)   | 6.1.2    | 3.87   | CUM | 7132.25 | 27,601.81  |  |
| <b>E Cladding Work</b> |   |          |        |     |         |            |  |
|                        | Providing and fixing 18 mm thick gang saw cut, mirror polished, premoulded and prepolished, machine cut for kitchen platforms, vanity counters, window sills , facias and similar locations of required size, approved shade, colour and texture laid over 20 mm thick base cement mortar 1:4 (1 cement : 4 coarse sand), joints treated with white cement, mixed with matching pigment, epoxy touch ups, including rubbing, curing, moulding and polishing to edges to give high gloss finish etc. complete at all levels.   | 8.2      |        |     |         |            |  |
|                        | Granite stone slab colour black, Cherry/Ruby red  | 8.2.2    |        |     |         |            |  |
| 20                     | Area of slab upto 0.50 sqm  | 8.2.2.1  | 1.38   | SQM | 5413.50 | 7,470.63   |  |
| 21                     | Area of slab over 0.50 sqm  | 8.2.2.2  | 10.44  | SQM | 5136.30 | 53,622.97  |  |
| 22                     | Providing edge moulding to 18mm thick marble stone counters, Vanities etc. including machine polishing to edge to give high gloss finish etc. complete as per design approved by Engineer-in-Charge.  | 8.3      |        |     |         |            |  |
|                        | Granite work  | 8.3.2    | 13.80  | RM  | 510.95  | 7,051.11   |  |
| 23                     | Extra for fixing marble /granite stone over and above corresponding basic item, in facia and drops of width upto 150 mm with epoxy resin based adhesive including cleaning etc. complete.   | 8.4      | 13.80  | RM  | 568.55  | 7,845.99   |  |
| 24                     | Extra for providing opening of required size & shape for wash basins/ kitchen sink in kitchen platform, vanity counters and similar location in marble/Granite/stone work including necessary holes for pillar taps etc. including moulding, rubbing and polishing of cut edges etc. complete.  | 8.5      | 6.00   | NO  | 978.70  | 5,872.20   |  |
| 25                     | Providing and fixing Ist quality ceramic glazed wall tiles conforming to IS: 15622 (thickness to be specified by the manufacturer), of approved make, in all colours, shades except burgundy, bottle green, black of any size as approved by Engineer-in-Charge, in skirting, risers of steps and dados, over 12 mm thick bed of cement mortar 1:3 (1 cement : 3 coarse sand) and jointing with grey cement slurry @ 3.3kg per sqm, including pointing in white cement mixed with pigment of matching shade complete.   | 8.31     | 49.38  | SQM | 1267.95 | 62,611.37  |  |

|                            |  |             |        |     |         |            |           |
|----------------------------|--|-------------|--------|-----|---------|------------|-----------|
| <b>F Wood and PVC Work</b> |  |             |        |     |         |            |           |
| 26                         | Providing and fixing ISI marked flush door shutters conforming to IS :2202 (Part I) non-decorative type, core of block board construction with frame of 1st class hard wood and well matched commercial 3 ply veneering with vertical grains or cross bands and face veneers on both faces of shutters:<br>35 mm thick including ISI marked Stainless Steel butt hinges with necessary screws  | 9.21.1      | 69.72  | SQM | 2392.65 | 166,815.56 |           |
| 27                         | Extra for providing lipping with 2nd class teak wood battens 25 mm minimum depth on all edges of flush door shutters (over all area of door shutter to be measured).   | 9.23        | 69.72  | SQM | 462.35  | 32,235.04  |           |
| 28                         | Providing and fixing M.S. grills of required pattern in frames of windows etc. with M.S. flats, square or round bars etc. including priming coat with approved steel primer all complete. Fixed to steel windows by welding.   | 9.48.1      | 54.72  | KG  | 219.10  | 11,989.15  |           |
| 29                         | Providing and fixing oxidised M.S. casement stays (straight peg type) with necessary screws etc. complete.   |             |        |     |         |            |           |
| (i)                        | 300 mm weighing not less than 200 gms  | 9.68.1      | 54.00  | NOS | 67.40   | 3,639.60   |           |
| (ii)                       | 250 mm weighing not less than 150 gms  | 9.68.2      | 12.00  | NOS | 61.05   | 732.60     |           |
| 30                         | Providing and fixing aluminium hanging floor door stopper ISI marked anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour or shade with necessary screws etc. complete. Twin rubber stopper   | 9.101.2     | 45.00  | NOS | 72.35   | 3,255.75   |           |
| 31                         | Providing and fixing factory made door frame (single rebate) made out of single piece extruded solid PVC foam profile with homogenous fine cellular structure having smooth outer integral skin having 62 mm width & 32 mm thickness, frame will be mitred & Jointed with self driven self tapping screws of size 38 mm x 4 mm & PVC solvent cement, including fixing the frame to wall with suitable dia & length anchor fastener as per manufacturer's specification and direction of Engineer-in-charge.  | 9.123       | 59.40  | RM  | 696.00  | 41,342.40  |           |
| 32                         | Providing & Fixing decorative high pressure laminated sheet of plain / wood grain in gloss / matt/ suede finish with high density protective surface layer and reverse side of adhesive bonding quality conforming to IS : 2046 Type S, including cost of adhesive of approved quality. 1.0 mm thick   | 9.127.2     | 18.90  | SQM | 897.30  | 16,958.97  |           |
| 33                         | Providing and fixing wire gauge shutters using stainless steel grade 304 wire gauge with wire of dia 0.5 mm and average width of aperture 1.4 mm in both directions for doors, windows and clerestory windows with necessary screws : 30 mm thick shutters With ISI marked stainless steel butt hinges of required size  |             |        |     |         |            |           |
|                            | Kiln seasoned and chemically treated hollock wood  | 9.134.2.2.2 | 11.34  | SQM | 3619.60 | 41,046.26  |           |
| 34                         | Providing and fixing fly proof stainless steel grade 304 wire gauge, to windows and clerestory windows using wire gauge with average width of aperture 1.4 mm in both directions with wire of dia. 0.50 mm all complete. <b>With 12 mm mild steel U beading</b>  | 9.135.2     | 58.32  | SQM | 1228.10 | 71,622.79  |           |
| 35                         | Providing and fixing bright /matt finished Stainless Steel handles of approved quality & make with necessary screws etc all complete. (a) 125 mm.  | 9.165.1     | 90.00  | NOS | 119.20  | 10,728.00  |           |
| 36                         | Providing & fixing Stainless steel sliding door bolts ISI marked anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour or shade with nuts and screws etc complete. (a) 250mm x 16mm .  | M.R.        | 45.00  | NOS | 560.00  |            | 25,200.00 |
| 37                         | Providing and fixing stainless steel towerbolts (barrel type) with necessary screws etc. complete.   |             |        |     |         |            |           |
|                            | 300 x 10mm   | M.R.        | 45.00  | NOS | 448.00  |            | 20,160.00 |
|                            | 150 x 10mm   | M.R.        | 45.00  | NOS | 392.00  |            | 17,640.00 |
| <b>G Steel Work</b>        |  |             |        |     |         |            |           |
| 38                         | Providing and fixing factory made ISI marked steel glazed doors, windows and ventilators, side /top /centre hung, with beading and all members such as F7D, F4B, K11 B and K12 B etc. complete of standard rolled steel sections, joints mitred and flash butt welded and sash bars tenoned and riveted, including providing and fixing of hinges, pivots, including priming coat of approved steel primer, but excluding the cost of other fittings, complete all as per approved design, (sectional weight of only steel members shall be measured for payment). Fixing with 15x3 mm lugs 10 cm long embedded in cement concrete block 15x10x10 cm of C.C. 1:3:6 (1 Cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size). | 10.11.1     | 622.08 | KG  | 131.05  | 81,523.58  |           |

|                    |  |            |         |     |         |            |  |
|--------------------|--|------------|---------|-----|---------|------------|--|
| 39                 | Providing and fixing T-iron frames for doors, windows and ventilators of mild steel Tee-sections, joints mitred and welded, including fixing of necessary butt hinges and screws and applying a priming coat of approved steel primer<br>Fixing with 15x3 mm lugs 10 cm long embedded in cement concrete block 15x10x10 cm of C.C. 1:3:6 (1 Cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size)  | 10.13.1    | 640.80  | KG  | 141.70  | 90,801.36  |  |
| 40                 | Providing and fixing M.S. Tubular frames for doors, windows, ventilators and cupboard with rectangular/ L-Type sections, made of 1.60 mm thick M.S. Sheet, joints mitred, welded and grinded finish, with profiles of required size, including fixing of necessary butt hinges and screws and applying a priming coat of approved steel primer. Fixing with 15x3 mm lugs 10 cm long embedded in cement concrete block 15x10x10 cm of C.C. 1:3:6 (1 Cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size)   | 10.15.1    | 1271.07 | Kg  | 195.20  | 248,112.86 |  |
| <b>SS RAILING</b>  |  |            |         |     |         |            |  |
| 41                 | Providing and fixing stainless steel ( Grade 304) railing made of Hollow tubes, channels, plates etc., including welding, grinding, buffing, polishing and making curvature (wherever required) and fitting the same with necessary stainless steel nuts and bolts complete, i/c fixing the railing with necessary accessories & stainless steel dash fasteners , stainless steel bolts etc., of required size, on the top of the floor or the side of waist slab with suitable arrangement as per approval of Engineer-in-charge.   | 10.28.1    | 166.68  | KG  | 772.40  | 128,743.63 |  |
| 42                 | Providing & fixing glass panes with putty and glazing clips in steel doors, windows, clerestory windows, all complete with : 4.0 mm thick glass panes.   | 10.30.1    | 64.92   | SQM | 1064.65 | 69,117.08  |  |
| <b>H Flooring</b>  |  |            |         |     |         |            |  |
| 43                 | Kota stone slab flooring over 20 mm (average) thick base laid over and jointed with grey cement slurry mixed with pigment to match the shade of the slab, including rubbing and polishing complete with base of cement mortar 1 : 4 (1 cement : 4 coarse sand) : 25 mm thick   | 11.26.1    | 28.70   | SQM | 1948.25 | 55,914.78  |  |
| 44                 | Kota stone slabs 20 mm thick in risers of steps, skirting, dado and pillars laid on 12 mm (average) thick cement mortar 1:3 (1 cement: 3 coarse sand) and jointed with grey cement slurry mixed with pigment to match the shade of the slabs, including rubbing and polishing complete.  | 11.27      | 9.59    | SQM | 2354.70 | 22,581.57  |  |
| 45                 | Providing and laying Vitrified tiles in floor in different sizes (thickness to be specified by the manufacturer) with water absorption less than 0.08% and conforming to IS:15622, of approved brand & manufacturer, in all colours and shade, laid on 20 mm thick cement mortar 1:4 (1 cement: 4 coarse sand) jointing with grey cement slurry @3.3 kg/sqm including grouting the joints with white cement and matching pigments etc. The tiles must be cut with the zero chipping diamond cutter only . Laying of tiles will be done with the notch trowel, plier, wedge, clips of required thickness, leveling system and rubber mallet for placing the tiles gently and easily.Glazed Vitrified tiles <b>Matt/Antiskid</b> finish of size <b>Size of Tile 600 x 600 mm</b> | 11.41A.3.1 | 28.68   | SQM | 1464.85 | 42,011.90  |  |
| 46                 | Providing and laying vitrified floor tiles in different sizes (thickness to be specified by the manufacturer) with water absorption less than 0.08% and conforming to IS: 15622, of approved make, in all colours and shades, laid on 20mm thick cement mortar 1:4 (1 cement : 4 coarse sand), jointing with grey cement slurry @ 3.3kg/sqm including grouting the joints with white cement and matching pigments etc., complete. <b>size of tile 600x600 mm</b>   | 11.41.2    | 200.85  | SQM | 1553.45 | 312,010.43 |  |
| 47                 | Providing and laying Vitrified tiles in different sizes (thickness to be specified by manufacturer), with water absorption less than 0.08 % and conforming to I.S. 15622, of approved make, in all colours & shade, in skirting, riser of steps, over 12 mm thick bed of cement mortar 1:3 (1 cement: 3 coarse sand), jointing with grey cement slurry @ 3.3kg/sqm including grouting the joint with white cement & matching pigments etc. complete. <b>size of tile 600x600 mm</b>  | 11.46.2    | 31.95   | SQM | 1623.05 | 51,856.45  |  |
| <b>I Finishing</b> |  |            |         |     |         |            |  |
| 48                 | 15 mm cement plaster on the rough side of single or half brick wall of mix : 1:6 (1 cement: 6 coarse sand)   | 13.5.2     | 779.48  | SQM | 395.35  | 308,167.42 |  |

|                         |  |         |         |     |                        |                      |                   |
|-------------------------|--|---------|---------|-----|------------------------|----------------------|-------------------|
| 49                      | 12mm cement plaster in single coat on fair side of single or half brick wall for exterior plastering up to floor two level including internal rounded angles chamfers, and/or rounded angles not exceeding 80mm in girth and finished even and smooth no extra for mixing any additive. <b>1:6 (1 cement: 6 coarse sand)</b>   | 13.4.2  | 989.54  | SQM | 343.65                 | 340,055.42           |                   |
| 50                      | 6 mm cement plaster on ceiling (a) <b>1:3(1 cement:3 fine sand)</b>  | 13.16.1 | 43.48   | SQM | 300.45                 | 13,063.57            |                   |
| 51                      | Distempering with oil bound washable distemper of approved brand and manufacture to give an even shade : New work (two or more coats) over and including water thinnable priming coat with cement primer.  | 13.41.1 | 1301.37 | SQM | 185.65                 | 241,599.34           |                   |
| 52                      | Finishing walls with Premium Acrylic Smooth exterior paint with Silicone additives of required shade. New work (Two or more coats applied @ 1.43 ltr/ 10 sqm. over and including priming coat of exterior primer applied @ 2.20 kg/ 10 sqm).   | 13.47.1 | 779.48  | SQM | 171.10                 | 133,369.03           |                   |
|                         | <b>Steel Painting:</b> Applying priming coat   | 13.50   |         |     |                        |                      |                   |
| 53                      | With ready mixed aluminium primer of approved brand and manufacture on resinous wood and plywood   | 13.50.2 | 149.69  | SQM | 74.65                  | 11,174.36            |                   |
| 54                      | With ready mixed red oxide zink chromate primer of approved brand and manufacture on steel galvanised iron/steel works.  | 13.50.3 | 306.92  | SQM | 67.40                  | 20,686.41            |                   |
| 55                      | Painting with synthetic enamel paint of approved brand and manufacture to give an even shade:  | 13.61   |         |     |                        |                      |                   |
|                         | Two or more coats on new work.   | 13.61.1 | 456.61  | SQM | 155.90                 | 71,185.50            |                   |
| 56                      | Providing and applying white cement based putty of average thickness 1 mm, of approved brand and manufacturer, over the plastered wall surface to prepare the surface even and smooth complete.  | 13.80   | 311.83  | SQM | 156.05                 | 48,661.07            |                   |
| <b>J Water Proofing</b> |  |         |         |     |                        |                      |                   |
| 57                      | Providing and laying water proofing treatment in sunken portion of WCs, bathroom etc., by applying cement slurry mixed with water proofing cement compound consisting of applying : a) First layer of slurry of cement @ 0.488 kg/sqm mixed with water proofing cement compound @ 0.253 kg/sqm. This layer will be allowed to air cure for 4 hours. b) Second layer of slurry of cement @ 0.242 kg/sqm mixed with water proofing cement compound @ 0.126 kg/sqm. This layer will be allowed to air cure for 4 hours followed with water curing for 48 hours. The rate includes preparation of surface, treatment and sealing of all joints, corners, junctions of pipes and masonry with polymer mixed slurry.   | 22.5    | 20.68   | SQM | 617.05                 | 12,760.59            |                   |
| 58                      | Providing and laying in situ seven course water proofing treatment with APP (Atactic poly-propylene) modified Polymeric memberane over roof consisting of first coat of bitumen primer @ 0.40 litre per sqm, 2nd, 4th & 6th courses of bonding material @ 1.20 Kg/sqm, which shall consist of blown type bitumen of grade 85/25 conforming to IS : 702, 3rd and 5th layers of roofing membrane APP modified Polymeric membrane 1.5 mm thick of 2.25 Kg/sqm weight consisting of five layers prefabricated with centre core as 20 micron HMHDPE film sandwiched on both sides with polymeric mix and the polymeric mix is protected on both side with 20 micron HMHDPE film. 7th, the top most layer shall be finished with brick tiles of class designation 10 grouted with cement mortar 1:3 (1cement : 3 fine sand) mixed with 2% integral water proofing compound by weight of cement over a 12 mm layer of cement mortar 1:3 (1 cement : 3 fine sand) and finished neat (item of laying brick tiles shall be paid for separately). | 14.86   | 78.85   | SQM | 730.55                 | 57,603.87            |                   |
| 59                      | Providing and laying brick tiles over mumty roofs, grouted with cement mortar 1:3 (1 cement : 3 fine sand) mixed with 2% of integral water proofing compound by weight of cement, over 12 mm layer of cement mortar 1:3 (1 cement : 3 fine sand) and finished neat:<br>With common burnt clay F.P.S. (non modular) brick tiles of class designation 10   | 12.19   | 78.85   | SQM | 607.40                 | 47,893.49            |                   |
| 60                      | Providing and filling of AAC Lightweight Broken Blocks sunken portions.  | M.R.    | 5.38    | CUM | 4132.00                |                      | 22,230.16         |
|                         |  |         |         |     | <b>Total</b>           | <b>6,629,640.66</b>  | <b>85,230.16</b>  |
|                         |  |         |         |     | <b>COST OF 6 Qtrs</b>  | <b>6,629,640.66</b>  | <b>85,230.16</b>  |
|                         |  |         |         |     | <b>COST OF 1 Qtr</b>   | <b>1,104,940.11</b>  | <b>14,205.03</b>  |
|                         |  |         |         |     | <b>COST OF 13 Qtr</b>  | <b>14,364,221.44</b> | <b>184,665.35</b> |
|                         |  |         |         |     | <b>Say Rs. In Lacs</b> | <b>143.64</b>        | <b>1.85</b>       |



| ESTIMATE OF FOR CONSTRUCTION OF ADDITIONAL DORMITORY & STAFF QUARTERS AT JNV<br>KUPWARA, JAMMU AND KASHMIR |                       |                   |                   |
|--|-----------------------|-------------------|-------------------|
| PLUMBING INTERNAL ESTIMATE ( Type-2,6 Nos.) G+2  |                       |                   |                   |
| Sl. No.  | Description           | Amount            |                   |
|  |                       | DSR Items -2023   | NS Items          |
| 1  | Sanitary Installation | 569,112.35        | 37,092.00         |
| 2  | Water Supply          | 302,067.55        | 87,271.00         |
| 3  | Drainage              | 81,810.98         | 23,220.00         |
|  | <b>Total</b>          | <b>952,990.88</b> | <b>147,583.00</b> |
|  | COST OF 1 Qtr         | 158,831.81        | 24,597.17         |
|  | COST OF 13 Qtr        | 2,064,813.57      | 319,763.17        |
|  | Say Rs. In Lacs       | 20.65             | 3.20              |

| ESTIMATE OF FOR CONSTRUCTION OF ADDITIONAL DORMITORY & STAFF QUARTERS AT JNV KUPWARA, JAMMU AND KASHMIR |           |   |           |       |        |            |
|---|-----------|---|-----------|-------|--------|------------|
| PLUMBING INTERNAL ESTIMATE ( Type-2,6 Nos.) G+2   |           |   |           |       |        |            |
| S.No.   | DSR '23   | Description   | Rate      | Unit  | Amount |            |
|   |           |   |           |       | Qty    | Amount     |
|   |           | <b>Sub Head – I Sanitary Installation</b>   |           |       |        |            |
| 1.1   | 17.1      | Providing and fixing water closet squatting pan (Indian type W.C. pan ) with 100 mm sand cast Iron P or S trap, 10 litre low level white P.V.C. flushing cistern, including flush pipe, with manually controlled device (handle lever) conforming to IS : 7231, with all fittings and fixtures complete, including cutting and making good the walls and floors wherever required:.   |           |       |        |            |
|   | 17.1.1    | White Vitreous china Orissa pattern W.C. pan of size 580x440 mm with integral type foot rests.  | 6,767.40  | each  | 6      | 40,604.40  |
| 1.2   | 17.3      | Providing and fixing white vitreous china pedestal type water closet (European type) with seat and lid, 10 litre low level white vitreous china flushing cistern & C.P. flush bend with fittings & C.I. brackets, 40 mm flush bend, overflow arrangement with specials of standard make and mosquito proof coupling of approved municipal design complete, including painting of fittings and brackets, cutting and making good the walls and floors wherever required :                |           |       |        |            |
|   | 17.3.1    | W.C. pan with ISI marked white solid plastic seat and lid   | 8,006.60  | each  | 6      | 48,039.60  |
| 1.3   | 17.81     | Providing and fixing floor mounted, white vitreous china single piece, double traps syphonic water closet of approved brand/make, shape, size and pattern including integrated white vitreous china cistern of capacity 10 litres with dual flushing system, including all fittings and fixtures with seat cover, cistern fittings, nuts, bolts and gasket etc including making connection with the existing P/S trap, complete in all respect as per directions of Engineer-in-Charge. | 18,212.90 | each  | 0      | -          |
| 1.4   | 17.80     | Providing and fixing white vitreous china battery based infrared sensor operated urinal of approx. size 610 x 390 x 370 mm having pre & post flushing with water (250 ml & 500 ml consumption), having water inlet from back side, including fixing to wall with suitable brackets all as per manufacturers specification and direction of Engineer-in-charge.  | 7,979.20  | each  | 0      | -          |
| 1.5   | 17.7      | Providing and fixing wash basin with C.I. brackets, 15 mm C.P. brass pillar taps, 32 mm C.P. brass waste of standard pattern, including painting of fittings and brackets, cutting and making good the walls wherever require:  |           |       |        |            |
| 1.5.1   | 17.7.3    | White Vitreous China Wash basin size 550x400 mm with a pair of 15 mm C.P. brass pillar taps   | 2,301.75  | each  | 12.00  | 27,621.00  |
| 1.6   | NSI-1     | Providing and fixing white vitreous china wash basin under counter basin, with C.I. concealed type brackets fixed to walls with GI rag bolts or approved fasteners etc., including 32 mm CP brass waste coupling, including painting of fittings and brackets, cutting and making good the walls wherever required all complete (Granite counter top will be measured and paid separately under relevent item): as per approved make and decision of engineer-in-charge                 | 4,689.00  | each  | 0      | -          |
| 1.7   | 17.34     | Providing and fixing toilet paper holder :  |           |       |        |            |
|   | 17.34.1   | C.P. brass  | 803.70    | each  | 0      | -          |
| 1.8   | NSI-2     | Providing and fixing CP brass auto closing system basin pillar tap / hand wash of Jaquar PRS - 001 or Equivalent as approved by Engineer- In Charge   | 5,092.00  | each  | 0      | -          |
| 1.9   | NSI-3     | Providing and fixing CP brass single lever basin mixer without popo with 450mm long braided hose (connection pipe) basin pillar tap of Jaquar LYR-38001B or Equivalent as approved by Engineer- In Charge.  | 7,406.00  | each  | 0      | -          |
| 1.10  | 17.22A    | Providing and fixing 32mm C.P brass bottle Trap of approved quality & make as per the direction of engineer-in-incharge.  | 1,034.80  | each  | 12     | 12,417.60  |
| 1.11  | 17.31     | Providing and fixing 600x450 mm beveled edge mirror of superior glass (of approved quality) complete with 6 mm thick hard board ground fixed to wooden cleats with C.P. brass screws and washers complete.  | 1,607.95  | Sqm   | 12     | 19,295.40  |
| 1.12  | 17.10     | Providing and fixing Stainless Steel A ISI 304 (18/8) kitchen sink as per IS : 13983 with C.I. brackets and stainless steel plug 40 mm, including painting of fittings and brackets, cutting and making good the walls wherever required :  |           |       |        |            |
|   | 17.10.1   | Kitchen sink with drain board   |           |       |        |            |
|   | 17.10.1.1 | 510x1040 mm bowl depth 250mm  | 6945.60   | each  | 0      | -          |
|   | 17.10.2   | Kitchen sink without drain board  |           |       |        |            |
|   | 17.10.2.2 | 610x460 mm bowl depth 200 mm  | 3,873.80  | each  | 6      | 23,242.80  |
| 1.13  | 17.11     | Providing and fixing white vitreous china laboratory sink with C.I. brackets, C.P. brass chain with rubber plug, 40 mm C.P brass waste and 40mm C.P. brass trap with necessary C.P. brass unions complete, including painting of fittings and brackets, cutting and making good the wall wherever required :  |           |       |        |            |
|   | 17.11.1   | Size 450x300x150 mm   | 5,020.85  | each  | 0      | -          |
| 1.14  | 17.28     | Providing and fixing P.V.C. waste pipe for sink or wash basin including P.V.C. waste fittings complete.   |           |       |        |            |
|   | 17.28.2   | Flexible pipe   |           |       |        |            |
|   | 17.28.2.2 | 40 mm dia   | 119.55    | each  | 6      | 717.30     |
| 1.15  | 17.35     | Providing and fixing soil, waste and vent pipes :   |           |       |        |            |
|   | 17.35.1   | 100 mm dia  |           |       |        |            |
|   | 17.35.1.3 | Hubless centrifugally cast (spun) iron pipes epoxy coated inside & outside IS:15905   | 1,169.30  | meter | 144    | 168,379.20 |
| 1.16  | 17.38     | Providing and fixing bend of required degree with access door, insertion rubber washer 3 mm thick, bolts and nuts complete.   |           |       |        |            |
|   | 17.38.1   | 100 mm  |           |       |        |            |
|   | 17.38.1.3 | Hubless centrifugally cast (spun) iron epoxy coated inside & outside I.S. 15905   | 567.20    | each  | 18     | 10,209.60  |
| 1.17  | 17.39     | Providing and fixing plain bend of required degree.   |           |       |        |            |
|   | 17.39.1   | 100 mm  |           |       |        |            |
|   | 17.39.1.3 | Hubless centrifugally cast (spun) iron pipe epoxy inside & outside IS: 15905  | 368.00    | each  | 30     | 11,040.00  |
| 1.18  | 17.40     | Providing and fixing heel rest sanitary bend  |           |       |        |            |
|   | 17.40.1   | 100 mm dia  |           |       |        |            |
|   | 17.40.1.2 | Sand cast iron S&S as per IS - 3989   | 548.70    | each  | 8      | 4,389.60   |

| ESTIMATE OF FOR CONSTRUCTION OF ADDITIONAL DORMITORY & STAFF QUARTERS AT JNV KUPWARA, JAMMU AND KASHMIR |            |   |          |       |        |           |
|---|------------|---|----------|-------|--------|-----------|
| PLUMBING INTERNAL ESTIMATE ( Type-2,6 Nos.) G+2   |            |   |          |       |        |           |
| S.No.   | DSR '23    | Description   | Rate     | Unit  | Amount |           |
|   |            |   |          |       | Qty    | Amount    |
| 1.19  | 17.42      | Providing and fixing double equal plain junction of required degree   |          |       |        |           |
|   | 17.42.1    | 100x100x100x100 mm  |          |       |        |           |
|   | 17.42.1.3  | Hubless centrifugally cast (spun) iron pipe epoxy inside & outside IS: 15905  | 760.70   | each  | 6      | 4,564.20  |
| 1.20  | 17.43      | Providing and fixing single equal plain junction of required degree with access door, insertion rubber washer 3 mm thick, bolts and nuts complete.  |          |       |        |           |
|   | 17.43.1    | 100x100x100 mm  |          |       |        |           |
|   | 17.43.1.2  | sand cast Iron S&S as per IS: 3989  | 925.70   | each  | 0      | -         |
| 1.21  | 17.44      | Providing and fixing single equal plain junction of required degree   |          |       |        |           |
|   | 17.44.1    | 100x100x100 mm  |          |       |        |           |
|   | 17.44.1.3  | Hubless centrifugally cast (spun) iron pipe epoxy inside & outside IS: 15905  | 581.45   | each  | 0      | -         |
| 1.22  | 17.56      | Providing and fixing terminal guard:  |          |       |        |           |
|   | 17.56.1    | 100 mm  |          |       |        |           |
|   | 17.56.1.3  | Hubless centrifugally cast (spun) iron pipe epoxy inside & outside IS: 15905  | 427.80   | each  | 8      | 3,422.40  |
| 1.23  | 17.57A     | Providing and fixing shielded coupling for Hubless centrifugally cast iron pipes  |          |       |        |           |
|   | 17.57A.1   | 100 mm  |          |       |        |           |
|   | 17.57A.1.1 | S S 304 grade coupling with EPDM rubber gasket  | 432.05   | each  | 150    | 64,807.50 |
| 1.24  | 17.59      | Providing and fixing M.S. stays and clamps for sand cast iron/centrifugally cast (spun) iron pipes of diameter :  |          |       |        |           |
|   | 17.59.1    | 100 mm  | 139.70   | each  | 0      | -         |
| 1.25  | 17.65      | Painting sand cast iron/ centrifugally cast (spun) iron soil, waste vent pipes and fittings with two coats of synthetic enamel paint of any colour such as chocolate grey, or buff etc. over a coat of primer (of approved quality) for new work :  |          |       |        |           |
|   | 17.65.1    | 100 mm diameter pipe  | 82.80    | meter | 96     | 7,948.80  |
| 1.26  | 17.37      | Providing and fixing M.S. holder-bat clamps of approved design to Sand Cast iron/cast iron (spun) pipe embedded in and including cement concrete blocks 10x10x10cm of 1:2:4 mix (1 cement : 2 coarse sand : 4 graded stone aggregate 20mm nominal size) including cost of cutting holes and making good the walls etc. :  |          |       |        |           |
|   | 17.37.1    | 100 mm diameter pipe  | 362.85   | each  | 96     | 34,833.60 |
| 1.27  | 18.10      | Providing and fixing G.I. soil / waste pipes complete with G.I. fittings and clamps, i/c cutting and making good the walls etc.   |          |       |        |           |
|   | 18.10.4    | 32 mm dia. nominal bore   | 667.00   | metre | 15     | 10,005.00 |
|   | 18.10.5    | 40 mm dia. nominal bore   | 811.90   | metre | 10     | 8,119.00  |
|   | 18.10.6    | 50 mm dia. nominal bore   | 1,048.35 | metre | 15     | 15,725.25 |
| 1.28  | 17.60      | Providing and fixing trap of self cleansing design with screwed down or hinged grating with or without vent arm complete, including cost of cutting and making good the walls and floors :  |          |       |        |           |
|   | 17.60.1    | 100 mm inlet and 100 mm outlet  |          |       |        |           |
|   | 17.60.1.3  | Hubless centrifugally cast (spun) iron epoxy coated inside & outside as per IS:15905  | 854.55   | each  | 18     | 15,381.90 |
| 1.29  | 18.77      | Cutting holes up to 15 x 15 cm in R.C.C. floors and roofs for passing drain pipe etc. and repairing the hole after insertion of drain pipe etc. with cement concrete 1:2:4 ( 1 Cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size ) , including finishing complete so as to make it leak proof.   | 452.00   | each  | 0      | -         |
| 1.30  | NSI-4      | Providing & fixing in position GI 100x50 elbow floor drain including cost of cutting and making good the walls and floors wherever required.  | 1,541.00 | each  | 12     | 18,492.00 |
| 1.31  | NSI-5      | Providing and fixing 125 mm dia S/S grating (with or without hole)for floor or Nahani trap.   | 620.00   | each  | 30     | 18,600.00 |
| 1.32  | NSI-6      | Providing and fixing soap dish holder from wall of standard shape with fittings of approved quality with all complete. Make Jaquar - ACN-1131N & Equivalent   | 1,159.00 | each  | 0      | -         |
| 1.33  | NSI-7      | Providing and fixing soap dispenser with glass bottle from wall of standard shape with fittings of approved quality with all complete. Make Jaquar - ACN-1135N & Equivalent   | 2,095.00 | each  | 0      | -         |
| 1.34  | NSI-8      | Providing & fixing 600 mm towel rail long stanless steel from wall face with concealed fittings arrangement of approved quality with all complete. Make Jaquar - CAN-1111SM   | 2,025.00 | each  | 0      | -         |
| 1.35  | 18.65      | Providing and fixing PTMT soap Dish Holder having length of 138mm, breadth 102mm, height of 75mm with concealed fitting arrangements, weighing not less than 106 gms.   | 111.45   | each  | 12     | 1,337.40  |
| 136   | 17.73      | Providing and fixing PTMT towel rail complete with brackets fixed to wooden cleats with CP brass screws with concealed fittings arrangement of approved quality and colour.   |          |       |        |           |
|   | 17.73.2    | 600 mm long towel rail with total length of 645 mm, width 78 mm and effective height of 88 mm, weighing not less than 190 gms.  | 708.95   | each  | 12     | 8,507.40  |
| 1.37  | 12.22      | Making khurras 45x45 cm with average minimum thickness of 5 cm cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate of 20 mm nominal size) over P.V.C. sheet 1 m x1 m x 400 micron, finished with 12 mm cement plaster 1:3 (1 cement : 3 coarse sand) and a coat of neat cement, rounding the edges and making and finishing the outlet complete. | 298.25   | each  | 4      | 1,193.00  |
| 1.38  | 12.41.2    | Providing and fixing on wall face unplasticised Rigid PVC rain water pipes conforming to IS : 13592 Type A, including jointing with seal ring conforming to IS : 5382, leaving 10 mm gap for thermal expansion,<br>(i) Single socketed pipes. 110 mm dia  | 377.40   | metre | 40     | 15,096.00 |

| ESTIMATE OF FOR CONSTRUCTION OF ADDITIONAL DORMITORY & STAFF QUARTERS AT JNV KUPWARA, JAMMU AND KASHMIR |           |  |           |           |               |                   |
|---|-----------|--|-----------|-----------|---------------|-------------------|
| PLUMBING INTERNAL ESTIMATE ( Type-2,6 Nos.) G+2   |           |  |           |           |               |                   |
| S.No.   | DSR '23   | Description  | Rate      | Unit      | Amount        |                   |
|   |           |  |           |           | Qty           | Amount            |
| 1.39  | 12.42     | Providing and fixing on wall face unplasticised - PVC moulded fittings/ accessories for unplasticised Rigid PVC rain water pipes conforming to IS : 13592 Type A, including jointing with seal ring conforming to IS : 5382, leaving 10 mm gap for thermal expansion.  |           |           |               |                   |
|   | 12.42.1   | Coupler  |           |           |               |                   |
|   | 12.42.1.2 | 110 mm   | 136.15    | each      | 20            | 2,723.00          |
|   | 12.42.3   | Single tee with door   |           |           |               |                   |
|   | 12.42.3.2 | 110x110x110 mm   | 234.15    | each      | 4             | 936.60            |
|   | 12.42.5   | Bend 87.5°   |           |           |               |                   |
|   | 12.42.5.2 | 110 mm   | 150.35    | each      | 4             | 601.40            |
|   | 12.42.6   | Shoe (Plain)   |           |           |               |                   |
|   | 12.42.6.2 | 110 mm Shoe  | 131.85    | each      | 4             | 527.40            |
| 1.40  | 12.43     | Providing and fixing unplasticised -PVC pipe clips of approved design to unplasticised - PVC rain water pipes by means of 50x50x50 mm hard wood plugs, screwed with M.S. screws of required length, including cutting brick work and fixing in cement mortar 1:4 (1 cement : 4 coarse sand) and making good the wall etc. complete.  |           |           |               |                   |
|   | 12.43.2   | 110 mm   | 371.30    | each      | 20            | 7,426.00          |
| 1.41  | NSI-9     | Supplying and fixing of HDPE pipe (PE grade 63 - PN-8 ) conforming to IS 14333-1996 chemical waste pipes jointed with rubber ring with good quality lubricant with fittings inclusive of all necessary specials like bends, tees, offsets, junctions etc laid under floor/under ceiling/on walls with suitable clamps and specials curing, necessary chasing, jointing and restoring to original conditions, testing etc. including all other incidental charges etc. complete for successful completion of work as per specifications, and as directed by Engineer -in-Charge |           |           |               |                   |
|   | a)        | 110 mm outer dia   | 1,543.00  | metre     | 0             | -                 |
|   | b)        | 50 mm outer dia  | 558.00    | metre     | 0             | -                 |
| 1.42  | NSI-10    | Providing & fixing in position upvc P"or S" trap of self cleaning design of following sizes for the embedded areas Making proper connection with chemical sealant joint , cutting chase / hole in floors /slabs and bringing the same in proper condition in cement concrete 1:2:4 mix complete as required. including cost of cutting and making good the walls and floors wherever required.   | 627.00    | each      | 0             | -                 |
| 1.43  | NSI-11    | Providing & Fixing water cooler wth stainless steel having storage capacity of 80 liter & cooling capacity 60 liter / hour with Reverse osmosis system & ultra violet membrane TDS reduction 90% having automatic back wash system with filtration unit & all other required accessories complete in all respect as per direction of the engineer in charge .  | 65,604.00 | each      | 0             | -                 |
|   |           | <b>TOTAL</b>   |           |           | <b>836.00</b> | <b>606,204.35</b> |
|   |           | <b>DSR Items</b>   |           |           |               | <b>569,112.35</b> |
|   |           | <b>NS</b>  |           |           |               | <b>37,092.00</b>  |
|   |           | <b>Sub Head – II Water Supply</b>  |           |           |               |                   |
| 2.1   | 18.10     | Providing and fixing G.I. pipes complete with G.I. fittings and clamps, i/c cutting and making good the walls etc.   |           |           |               |                   |
|   |           | <b>Internal work – Exposed on wall.</b>  |           |           |               |                   |
|   | 18.10.2   | 20 mm nominal outer dia Pipes  | 437.30    | metre     | 15            | 6,559.50          |
|   | 18.10.3   | 25 mm nominal outer dia Pipes  | 551.70    | metre     | 15            | 8,275.50          |
|   | 18.10.4   | 32 mm nominal outer dia Pipes  | 667.00    | metre     | 25            | 16,675.00         |
|   | 18.10.5   | 40 mm nominal outer dia Pipes  | 811.90    | metre     | 30            | 24,357.00         |
|   | 18.10.6   | 50 mm nominal outer dia Pipes  | 1,048.35  | metre     | 0             | -                 |
|   | NSI-12a   | 65 mm nominal outer dia Pipes  | 1,084.00  | metre     | 0             | -                 |
|   | NSI-12b   | 80 mm nominal outer dia Pipes  | 1,276.00  | metre     | 0             | -                 |
| 2.2   | 18.8      | Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply, including all CPVC plain & brass threaded fittings, i/c fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and the cost of cutting chases and making good the same including testing of joints complete as per direction of Engineer in Charge.   |           |           |               |                   |
|   |           | Concealed including cutting chases and making good the wall etc.   |           |           |               |                   |
|   | 18.8.2    | 15 mm nominal outer dia Pipes  | 537.60    | metre     | 54            | 29,030.40         |
|   | 18.8.3    | 20 mm nominal outer dia Pipes  | 627.25    | metre     | 45            | 28,226.25         |
|   | 18.8.4    | 25 mm nominal outer dia Pipes  | 739.30    | metre     | 36            | 26,614.80         |
| 2.3   | 18.17     | Providing and fixing gun metal gate valve with C.I. wheel of approved quality (screwed end) :  |           |           |               |                   |
|   | 18.17.1A  | 20 mm dia. nominal bore  | 539.95    | each      | 18            | 9,719.10          |
|   | 18.17.1   | 25 mm dia. nominal bore  | 622.40    | each      | 6             | 3,734.40          |
|   | 18.17.2   | 32 mm dia. nominal bore  | 689.60    | each      | 2             | 1,379.20          |
|   | 18.17.3   | 40 mm dia. nominal bore  | 826.10    | each      | 1             | 826.10            |
|   | 18.17.4   | 50 mm dia. nominal bore  | 1,026.65  | each      | 0             | -                 |
| 2.4   | 18.18     | Providing and fixing ball valve (brass) of approved quality, High or low pressure, with plastic floats complete :  |           |           |               |                   |
|   | 18.18.3   | 25 mm nominal bore   | 464.05    | each      | 6             | 2,784.30          |
| 2.5   | NSI-13    | Providing and fixing hand held ablation fitting (health faucet) with 1.2 meter long flexible tube and wall hook, all complete approved engineer-in-charge  | 2,373.00  | each      | 12            | 28,476.00         |
| 2.6   | NSI-14    | Supply and fixing of 15mm CP brass 2 -Way Bib Cock with wall flange and suitable length CP brass extension pipe all of approved engineer-in-charge   | 2,654.00  | each      | 12            | 31,848.00         |
| 2.7   | 18.48     | Providing and placing on terrace (at all floor levels) polyethylene water storage tank, IS : 12701 marked, with cover and suitable locking arrangement and making necessary holes for inlet, outlet and overflow pipes but without fittings and the base support for tank  | 11.00     | per litre | 4,500         | 49,500.00         |
| 2.8   | 18.51     | Providing and fixing C.P. brass long nose bib cock of approved quality conforming to IS standards and weighing not less than 810 gms.  |           |           |               |                   |

| ESTIMATE OF FOR CONSTRUCTION OF ADDITIONAL DORMITORY & STAFF QUARTERS AT JNV KUPWARA, JAMMU AND KASHMIR |           |  |           |       |                 |                   |
|---|-----------|--|-----------|-------|-----------------|-------------------|
| PLUMBING INTERNAL ESTIMATE ( Type-2,6 Nos.) G+2   |           |  |           |       |                 |                   |
| S.No.   | DSR '23   | Description  | Rate      | Unit  | Amount          |                   |
|   |           |  |           |       | Qty             | Amount            |
|   | 18.51.1   | 15 mm nominal bore   | 798.95    | each  | 24              | 19,174.80         |
| 2.9   | 18.52     | Providing and fixing C.P. brass stop cock (concealed) of standard design and of approved make conforming to IS:8931.   |           |       |                 |                   |
|   | 18.52.1   | 15 mm nominal bore   | 670.45    |       | 24              | 16,090.80         |
| 2.10  | 18.53     | Providing and fixing C.P. brass angle valve for basin mixer and geyser points of approved quality conforming to IS:8931  |           |       |                 |                   |
|   | 18.53.1   | 15mm nominal bore  | 574.30    | each  | 84              | 48,241.20         |
| 2.11  | 18.21     | Providing and fixing uplasticised PVC connection pipe with brass unions :  |           |       |                 |                   |
|   | 18.21.2   | 45 cm length   |           |       |                 |                   |
|   | 18.21.2.1 | 15 mm nominal bore   | 97.75     | each  | 84              | 8,211.00          |
| 2.12  | 18.22     | Providing and fixing C.P. brass shower rose with 15 or 20 mm inlet :   |           |       |                 |                   |
|   | 18.22.2   | 150 mm diameter  | 222.35    | each  | 12              | 2,668.20          |
| 2.13  | 17.22B    | Providing and fixing CP Brass Single lever telephonic wall mixer of quality & make as approved by Engineer in charge.  |           |       |                 |                   |
|   |           | (a) 15 mm nominal dia  | 6,940.75  | each  | 0               | -                 |
| 2.14  | NSI-15    | Providing , Fixing, testing and commissioning of CP Brass 150 mm x 150 mm Shower head with wall flange with all accessories as required and making good the walls wherever required. ( MAKE-JAQUAR -Model No- OHS-35495 or EQUIVALENT.)  | 4,875.00  | each  | 0               | -                 |
| 2.15  | NSI-16    | Supply ,Erection , Testing & Commissioning of Automatic water level control panel & related accessories for pumping automation with consisting of automatic water level controller , level sensor with stainless steel probe, motorized butterfly valve, motorized valve controller with complete in all respect.  |           |       |                 |                   |
|   | a         | upto 50 mm dia. nominal bore   | 26,947.00 | each  | 1               | 26,947.00         |
|   |           | <b>TOTAL</b>   |           |       | <b>5,006.00</b> | <b>389,338.55</b> |
|   |           | <b>DSR Items</b>   |           |       |                 | <b>302,067.55</b> |
|   |           | <b>NS</b>  |           |       |                 | <b>87,271.00</b>  |
|   |           | <b>SUBHEAD – III Drainage</b>  |           |       |                 |                   |
| 3.1   | NSI-17    | Supply and fixing HDPE double wall corrugated ( DWC ) I.S 16098 ( Part - 2 ) 3013 for soil / waste pipe under ground drainage system with jointed with rubber ring with good quality lubricant for fittings, inclusive of all necessary specials like bends, tees, offsets, junctions, re excavation and refilling etc complete.   |           |       |                 |                   |
|   | a         | 150 mm diameter  | 1,024.00  | metre | 10              | 10,240.00         |
|   | b         | 200 mm diameter  | 1,298.00  | metre | 10              | 12,980.00         |
| 3.2   | 19.4      | Providing and fixing square-mouth S.W. gully trap class SP-1 complete with C.I. grating brick masonry chamber with water tight C.I. cover with frame of 300 x300 mm size (inside) the weight of cover to be not less than 4.50 kg and frame to be not less than 2.70 kg as per standard design .   |           |       |                 |                   |
|   | 19.4.3    | 180x150 mm size P type   |           |       |                 |                   |
|   | 19.4.3.1  | With fly ash bricks (non modular) bricks of class designation 7.5  | 2,802.15  | each  | 4               | 11,208.60         |
| 3.3   | 19.6      | Providing and laying non-pressure NP2 class (light duty) R.C.C. pipes with collars jointed with stiff mixture of cement mortar in the proportion of 1:2 (1 cement : 2 fine sand) including testing of joints etc. complete :   |           |       |                 |                   |
|   | 19.6.2    | 150 mm dia. R.C.C. pipe  | 556.45    | metre | 10              | 5,564.50          |
|   | 19.6.3    | 250 mm dia. R.C.C. pipe  | 899.80    | metre | 5               | 4,499.00          |
|   | 19.6.4    | 300 mm dia. R.C.C. pipe  | 994.30    | metre | 5               | 4,971.50          |
| 3.4   | 19.7      | Constructing brick masonry manhole in cement mortar 1:4 (1 cement :4 coarse sand) with RCC top slab with 1:2:4 mix ( 1 cement : 2 coarse sand : 4 stone aggregate 20 mm nominal size ) , foundation concrete 1:4:8 mix (1 cement : 4 coarse sand : 8 stone aggregate 40 mm nominal size ) inside plastering 12 mm thick with cement mortar 1:3 (1 cement : 3 coarse sand) finished with a floating coat of neat cement, foundation concrete 1:3:6 mix (1 cement :3 coarse sand : 6 graded stone aggregate 40 mm nominal size),and making necessary channel in cement concrete 1:2:4 (1 cement :2 coarse sand :4 graded stone aggregate 20 mm nominal size) finished with a floating coat of neat cement complete as per standard design .  |           |       |                 |                   |
|   | 19.7.1    | inside size 90x80 cms and 45 cms deep including CI cover with frame ( light duty ) 455x610 mm internal dimensions total weight of cover & frame to be not less than 38 kg (weight of cover 23 kg & weight of frame 15 kg )   |           |       |                 |                   |
|   | 19.7.1.1  | with common burnt clay FPS ( non modular ) bricks of class designation 7.5   | 12,770.55 | Each  | 2.00            | 25,541.10         |
| 3.5   | 19.8      | Extra depth for manhole 90x80 cm   |           |       |                 |                   |
|   | 19.8.1.1  | With FPS bricks class designation 7.5  | 8,825.40  | Metre | 0.20            | 1,765.08          |
| 3.6   | 19.16     | Providing orange colour safety foot rest of minimum 6 mm thick plastic encapsulated as per IS : 10910, on 12 mm dia steel bar conforming to IS:1786, having minimum cross section as 23 mmx25 mm and over all minimum length 263 mm and width as 165 mm with minimum 112 mm space between protruded legs having 2 mm tread on top surface by ribbing or chequering esides necessary and adequate anchoring projections on tail length on 138 mm as per standard drawing and suitable to with stand the bend test and chemical resistance test as per pecifications and having manufacture's permanent identification mark to be visible even after fixing,including fixing in manholes with 30x20x15 cm cement concrete block 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size) complete as per design. | 553.70    | Each  | 8.00            | 4,429.60          |
| 3.7   | 19.27     | Constructing brick masonry road gully chamber 50x45x60 cm with bricks in cement mortar 1:4 (1 cement : 4 coarse sand) including 500x450 mm pre-cast R.C.C. horizontal grating with frame complete as per standard design :   |           |       |                 |                   |
|   | 19.27.1   | With common burnt clay F.P.S. (non modular) bricks of class designation 7.5  | 5,957.90  | Each  | 4.00            | 23,831.60         |
|   |           | <b>TOTAL</b>   |           |       |                 | <b>105,030.98</b> |
|   |           | <b>DSR Items</b>   |           |       |                 | <b>81,810.98</b>  |
|   |           | <b>NS</b>  |           |       |                 | <b>23,220.00</b>  |

| ESTIMATE OF FOR CONSTRUCTION OF ADDITIONAL DORMITORY & STAFF QUARTERS AT JNV |  |                      |            |
|--|--|----------------------|------------|
| KARNATAKA, JAMMU AND KASHMIR   |  |                      |            |
| SUMMARY SHEET OF TYPE II RESIDENCE ,G+2 (6 Nos )                             |  |                      |            |
| Sl.No.   | Name of Work                           | TOTAL AMOUNT(IN RS.) |            |
|  |  | DSR-2022             | MR         |
|  |  |                      |            |
| I  | SUB HEAD - I: CIRCUIT CUM POINT WIRING | 837,741.00           | 12,698.74  |
| II   | SUBHEAD -II - FITTINGS & FIXTURES      | 49,140.00            | 100,156.26 |
| III  | SUBHEAD - III - DISTRIBUTION BOARDS    | 103,502.00           | -          |
| IV   | SUB HEAD-IV , LIGHTNING CONDUCTOR      | 43,510.00            |            |
|  | TOTAL                                  | 1,033,893.00         | 112,855.00 |
|  | COST OF 1 Qtr                          | 172,315.50           | 18,809.17  |
|  | COST OF 13 Qtr                         | 2,240,101.50         | 244,519.17 |
|  | Say Rs. In Lacs                        | 22.40                | 2.45       |

| ESTIMATE OF FOR CONSTRUCTION OF ADDITIONAL DORMITORY & STAFF QUARTERS AT JNV KUPWARA, JAMMU AND KASHMIR |              |   |       |     |          |          |            |          |
|---|--------------|---|-------|-----|----------|----------|------------|----------|
| Detailed Estimate for ELECTRICAL Works TYPE-2 (G+2) RESIDENCE 6 Nos                                     |              |   |       |     |          |          |            |          |
| S.No.   | DSR-2022/NSI | Description   | Unit  | Qty | Rate     |          | Amount     |          |
|   |              |   |       |     | DSR-2022 | NSI      | DSR-2022   | NSI      |
|   |              | <b>SUB HEAD - I: CIRCUIT CUM POINT WIRING</b>   |       |     |          |          |            |          |
|   |              | <b>SWITCH CONTROL LIGHT POINTS</b>  |       |     |          |          |            |          |
| 1   | DSR 1.10     | Wiring for light point/ fan point/ exhaust fan point/ call bell point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable in surface / recessed medium class PVC conduit, with modular switch, modular plate, suitable GI box and earthing the point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable etc. as required.                              |       |     |          |          |            |          |
| 1.1   | DSR 1.10.3   | Group C   | Point | 108 | 1,467.00 |          | 158,436.00 |          |
| 2   | DSR-1.55     | Wiring for group controlled (looped) light point/fan point/exhaust fan point/ call bell point ( without Independent switch etc.) with 1.5 sq. mm FRLS PVC insulated copper conductor single core cable in surface/ recessed PVC conduit, and earthing the point with 1.5 sq. mm FRLS PVC insulated copper conductor single core cable etc as required. (Switch Control Secondary Points)  | Point |     | 858.00   |          | -          |          |
| 2.1   | DSR-1.55.3   | Group C   |       |     |          |          |            |          |
| 3   | DSR-1.3      | Wiring for light point/ fan point/ exhaust fan point/ call bell point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable in surface / recessed steel conduit, with modular switch, modular plate, suitable GI box and earthing the point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable etc. as required. (Switch Control Primary Points)         |       |     |          |          |            |          |
| 3.1   | DSR-1.3.3    | Group C   | Point | 0   | 1,845.00 |          | -          |          |
| 4   | DSR-1.54     | Wiring for group controlled (looped) light point/fan point/exhaust fan point/ call bell point (without Independent switch etc.) with 1.5 sq. mm FRLS PVC insulated copper conductor single core cable in surface/ recessed steel conduit, and earthing the point with 1.5 sq. mm FRLS PVC insulated copper conductor single core cable etc as required. (Switch Control Secondary Points) |       |     |          |          |            |          |
| 4.1   | DSR-1.54.3   | Group C   | Point | 0   | 1,094.00 |          | -          |          |
|   |              | <b>MCB CONTROL LIGHT POINTS</b>   |       |     |          |          |            |          |
| 5   | NSI-1        | Wiring for light point/ fan point/ exhaust fan point/ call bell point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable in surface / recessed steel conduit, with modular switch, modular plate, suitable GI box and earthing the point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable etc. as required. (Switch Control Primary Points)         |       |     |          |          |            |          |
| 5.1   | NSI-1.1      | Primary point controlled by one MCB.  | Point | 3   |          | 1,523.13 |            | 4,569.38 |
| 5.2   | NSI-1.2      | Same as item above but Secondary point. i.e. Points to be looped with Primary point with 2.5 sqmm wire and Point wiring   | Point | 6   |          | 1,354.89 |            | 8,129.36 |
| 6   | DSR 1.5      | Wiring for light/ power plug with 2X4 sq. mm FRLS PVC insulated copper conductor single core cable in surface/ recessed steel conduit alongwith 1 No. 4 sq. mm FRLS PVC insulated copper conductor single core cable for loop earthing as required.   | Metre | 375 | 433.00   |          | 162,375.00 |          |
| 7   | DSR 1.7      | Wiring for circuit/ submain wiring alongwith earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface/ recessed steel conduit as required.  |       |     |          |          |            |          |
| 7.1   | DSR 1.7.1    | 2 X 1.5 sq. mm + 1 X 1.5 sq. mm earth wire  | Metre | 0   | 327.00   |          | -          |          |
| 7.2   | DSR 1.7.2    | 2 X 2.5 sq. mm + 1 X 2.5 sq. mm earth wire  | Metre | 475 | 369.00   |          | 175,275.00 |          |
| 7.3   | DSR 1.7.4    | 2 X 6 sq. mm + 1 X 6 sq. mm earth wire  | Metre | 275 | 589.00   |          | 161,975.00 |          |
| 7.4   | DSR 1.7.5    | 2 x 10 sq. mm + 1 x 10 sq.mm earth wire   | Metre | 0   | 710.00   |          | -          |          |
| 7.5   | DSR 1.7.10   | 4 X 10 sq. mm + 2 X 6 sq. mm earth wire   | Metre | 95  | 1,166.00 |          | 110,770.00 |          |
| 7.6   | DSR 1.7.11   | 4 X 16 sq. mm + 2 X 6 sq. mm earth wire   | Metre | 0   | 1,645.00 |          | -          |          |
| 8   | DSR 1.31     | Supplying and fixing suitable size GI box with modular plate and cover in front on surface or in recess including providing and fixing 3 pin 5/6 Amp modular socket outlet and 5/6 A modular switch, connection etc. as required.   | Each  | 42  | 477.00   |          | 20,034.00  |          |

|      |            |   |      |    |        |           |                   |                  |
|------|------------|---|------|----|--------|-----------|-------------------|------------------|
| 9    | NSI-2      | Supply and Wiring for 250 volts single phase and neutral 2 Nos 6 amps socket outlet with control by 1 No switched with 2.5 sq.mm PVC insulated copper conductor 1100 volts grade stranded flexible FRLS wires in concealed or surface mounted 25 mm dia 2mm thick PVC conduit including providing and fixing of 6 amps 3 pin switch socket outlet of approved make and design in 2 mm thick GI box with grid plate and earthing of third pin of the socket with 2.5 Sq. mm PVC insulated copper conductor stranded flexible FRLS wire.(maximum four no. of switches socket shall be connected on one circuit) | Each | 0  |        | 1,782     |                   | -                |
| 10   | DSR 1.32   | Supplying and fixing suitable size GI box with modular plate and cover in front on surface or in recess, including providing and fixing 6 pin 5/6 & 15/16 A modular socket outlet and 15/16 A modular switch, connections etc. as required.   | Each | 42 | 586.00 |           | 24,612.00         |                  |
| 11   | NSI-3      | Supplying and fixing 63 A, 415 V, TPN Industrial type socket outlet, with 4 pole and earth, metal enclosed plug top alongwith 63 A "C" curve, TPMCB, in sheet steel enclosure, on surface or in recess, with chained metal cover for the socket outlet and complete with connections, testing and commissioning etc. as required.   | Each | 0  |        | 11,284.98 |                   | -                |
| 12   | NSI-4      | Supplying and fixing 80 A, 415 V, TPN Industrial type socket outlet, with 4 pole and earth, metal enclosed plug top alongwith 80 A "C" curve, TPMCB, in sheet steel enclosure, on surface or in recess, with chained metal cover for the socket outlet and complete with connections, testing and commissioning etc. as required.   | Each | 0  |        | 17,343.23 |                   | -                |
| 13   | DSR-1.33   | Supplying and fixing <b>3 pin, 5 A ceiling rose</b> on the existing junction box/ wooden block including connections etc. as required.  | Each | 18 | 87     |           | 1,566.00          |                  |
| 14   | DSR-1.57   | Supplying & fixing suitable size GI box with modular plate and cover in front on surface or in recess i/c providing and fixing 25 amp modular socket outlet and 25 Amps modular SP MCB, "C" curve including connection, painting etc. as required. (AC's & Gysers)  | Each | 30 | 727    |           | 21,810.00         |                  |
| 15   | DSR 1.24   | Supplying and fixing following modular switch/ socket on the existing modular plate & switch box including connections but excluding modular plate etc. as required.  |      |    |        |           |                   |                  |
| 15.1 | DSR 1.24.6 | Telephone socket outlet   | Nos  | 6  | 148.00 |           | 888.00            |                  |
| 16   | DSR 1.27   | Supplying and fixing following size/ modules, GI box alongwith modular base & cover plate for modular switches in recess etc. as required.  |      |    |        |           |                   |                  |
| 16.1 | DSR 1.27.1 | 1 or 2 Module (75mmX75mm)   | Nos  | 0  | 298.00 |           | -                 |                  |
| 16.2 | DSR 1.27.4 | 6 module (78mm X 205 mm X 50 mm)  | Nos  | 0  | 402.00 |           | -                 |                  |
| 17   | DSR 1.24   | Supplying and fixing following size/ modules, GI box alongwith modular base & cover plate for modular switches in recess etc. as required.  |      |    |        |           |                   |                  |
| 17.1 | DSR 1.24.4 | 3 pin , 5/6 amps socket outlet  | Each | 0  | 122.00 |           | -                 |                  |
| 17.1 | DSR 1.24.1 | 5/6 amps switch   | Each | 0  | 103.00 |           | -                 |                  |
| 18   | DSR 1.21   | Supplying and fixing of following sizes of medium class PVC conduit along with accessories in surface/recess including cutting the wall and making good the same in case of recessed conduit as required.   |      |    |        |           |                   |                  |
| 18.1 | DSR 1.21.2 | 25 mm   | Mtr  | 0  | 145.00 |           | -                 |                  |
| 18.2 | DSR 1.21.3 | 32 mm   | Mtr  | 0  | 184.00 |           | -                 |                  |
|      |            | <b>TOTAL CARRIED TO SUMMARY FOR SUBHEAD - I</b>   |      |    |        |           | <b>837,741.00</b> | <b>12,698.74</b> |
|      |            | <b>SUBHEAD -II - FITTINGS &amp; FIXTURES</b>  |      |    |        |           |                   |                  |
| 1    | NSI-1      | Supply, Installation, Testing and Commissioning of 10 W Bulk head Light.  | Each | 0  |        | 1,158.20  |                   | -                |
| 2    | NSI-2      | Supply, Installation, Testing and Commissioning of 5W Mirror Light.   | Each | 0  |        | 445.46    |                   | -                |



|     |           |   |      |    |          |           |                  |                   |
|-----|-----------|---|------|----|----------|-----------|------------------|-------------------|
| 3   | NSI-3     | Supply, Installation, Testing and Commissioning of 18W Surface/Recessed Mounted LED circular Downlighter.   | Each | 0  |          | 1,470.02  |                  | -                 |
| 4   | NSI-4     | Supply, Installation, Testing and Commissioning of 18/20W Wall/Surface mouted 4 ft. LED   | Each | 24 |          | 1,336.38  |                  | 32,073.10         |
| 5   | NSI-5     | Supply, Installation, Testing and Commissioning of 15W Surface mounted LED Square Downlighter.  | Each | 15 |          | 1,380.93  |                  | 20,713.88         |
| 6   | NSI-6     | Supply, Installation, Testing and Commissioning of 150 W CHANDELIER   | Each | 0  |          | 89,091.94 |                  | -                 |
| 7   | NSI-7     | Supply, Installation, Testing and Commissioning of 12/9W Recessed mounted LED circular Downlighter.   | Each | 0  |          | 1,069.10  |                  | -                 |
| 8   | NSI-8     | Supply, Installation, Testing and Commissioning of 9W (Nominal) Wall Bracket Light  | Each | 30 |          | 222.73    |                  | 6,681.90          |
| 9   | DSR 19.1  | Supply, Installation, Testing and Commissioning of 1200 mm sweep, BEE 5 star rated, ceiling fan with Brush Less Direct Current (BLDC) Motor, class of insulation: B, 3 nos. blades, 30 cm long down rod, 2nos. canopies, shackle kit, safety rope, copper winding, Power Factor not less than 0.9, Service Value (CM/M/W) minimum 6.00, Air delivery minimum 210 Cum/Min , 350 RPM (tolerance as per IS : 374-2019), THD less than 10%, remote or electronic regulator unit for speed control and all remaining accessories including safety pin, nut bolts, washers, temperature rise=75 degree C (max.), insulation resistance more than 2 mega ohm, suitable for 230 V, 50 Hz, single phase AC Supply, earthing etc. complete as required. | Each | 18 | 2,730.00 |           | 49,140.00        | -                 |
| 10  | NSI-9     | Supply Installation, Testing and Commissioning of 250 mm dia Domestic Exhaust Fan   | Each | 18 |          | 2,260.41  |                  | 40,687.40         |
|     |           | <b>TOTAL CARRIED TO SUMMARY FOR SUBHEAD - II</b>  |      |    |          |           | <b>49,140.00</b> | <b>100,156.26</b> |
|     |           | <b>SUBHEAD - III - DISTRIBUTION BOARDS</b>  |      |    |          |           |                  |                   |
| 1   | DSR 2.3   | Supplying and fixing following way, single pole and neutral, sheet steel, MCB distribution board, 240 V, on surface/ recess, complete with tinned copper bus bar, neutral bus bar, earth bar, din bar, interconnections, powder painted including earthing etc. as required. (But without MCB/RCCB/Isolator)  |      |    |          |           |                  |                   |
| 1.1 | DSR 2.3.1 | 6 way, Double door  | Each | 0  | 2206     |           | -                |                   |
| 1.2 | DSR 2.3.2 | 8 way, Double door  | Each | 0  | 2573     |           | -                |                   |
| 1.3 | DSR 2.3.3 | 12 way, Double door   | Each | 0  | 2315     |           | -                |                   |
| 2   | DSR 2.4   | Supplying and fixing following way, three pole and neutral, sheet steel, MCB distribution board, 415 volts, on surface/ recess complete with tinned copper busbar, neutral busbar, earth bar, din bar, detachable gland plate, interconnections, phosphatized and powder painted including earthing etc. as required. (But without MCB/ RCCB/ Isolator)   |      |    |          |           |                  |                   |
| 2.1 | DSR 2.4.1 | 4 way (4 + 12), Double door   | Each | 0  | 4,091.00 |           | -                |                   |
| 2.2 | DSR 2.4.2 | 6 way (4 + 18), Double door   | Each | 6  | 4,974.00 |           | 29,844.00        |                   |
| 2.3 | DSR 2.4.3 | 8 way (4 + 24), Double door   | Each | 0  | 5,967.00 |           | -                |                   |
| 3   | DSR 2.5   | Supplying and fixing of following ways surface/ recess mounting, vertical type, 415 V, TPN MCB distribution board of sheet steel, dust protected, duly powder painted, inclusive of 200 A tinned copper bus bar, common neutral link, earth bar, din bar for mounting MCBs (but without MCBs and incomer) as required . (Note :Vertical type MCB TPDB is normally used where 3 phase outlets are required.)   |      |    |          |           |                  |                   |
| 3.1 | DSR 2.5.3 | 12 way (4 + 36), Double door  | Each | 0  | 12833    |           | -                |                   |
| 4   | DSR 2.10  | Supplying and fixing 5 A to 32 A rating, 240/415 V, 10 kA, "C" curve, miniature circuit breaker suitable for inductive load of following poles in the existing MCB DB complete with connections, testing and commissioning etc. as required.  |      |    |          |           |                  |                   |

|           |            |   |       |      |          |  |                   |          |
|-----------|------------|---|-------|------|----------|--|-------------------|----------|
| 4.1       | 2.10.1     | Single Pole   | Each  | 72   | 256      |  | 18,432.00         |          |
| 4.2       | 2.10.2     | Single Pole Neutral   | Each  | 0    | 599      |  | -                 |          |
| 5         | DSR 2.12   | Supplying and fixing following rating, double pole, 240 V, isolator in the existing MCB DB complete with connections, testing and commissioning etc. as required.   |       |      |          |  |                   |          |
| 5.1       | DSR 2.12.1 | 40 A  | Each  | 0    | 435      |  | -                 |          |
| 5.2       | DSR 2.12.2 | 63 A  | Each  | 0    | 527      |  | -                 |          |
| 6         | DSR 2.13   | Supplying and fixing following rating, four pole, 415 V, isolator in the existing MCB DB complete with connections, testing and commissioning etc. as required.   |       |      |          |  |                   |          |
| 6.1       | DSR 2.13.1 | 25 A  | Each  | 0    | 970      |  | -                 |          |
| 6.1       | DSR 2.13.1 | 40 A  | Each  | 0    | 970      |  | -                 |          |
| 6.2       | DSR 2.13.2 | 63 A  | Each  | 6    | 1034     |  | 6,204.00          |          |
| 7         | DSR 2.14   | Supplying and fixing following rating, double pole, (single phase and neutral), 240 V, residual current circuit breaker (RCCB), having a sensitivity current 30 mA in the existing MCB DB complete with connections, testing and commissioning etc. as required.              |       |      |          |  |                   |          |
| 7.1       | DSR 2.14.1 | 25 A  | Each  | 0    | 2028     |  | -                 |          |
| 7.2       | DSR 2.14.2 | 40 A  | Each  | 0    | 2642     |  | -                 |          |
| 7.3       | DSR 2.14.3 | 63 A  | Each  | 18   | 2722     |  | 48,996.00         |          |
| 8         | DSR 2.11   | Supplying and fixing single pole blanking plate in the existing MCB DB complete etc. as required.   | Each  | 2    | 13       |  | 26.00             |          |
|           |            | <b>TOTAL CARRIED TO SUMMARY FOR SUBHEAD - III</b>   |       |      |          |  | <b>103,502.00</b> | <b>-</b> |
| <b>VI</b> |            | <b>SUB HEAD-IV , LIGHTNING CONDUCTOR</b>  |       |      |          |  |                   |          |
|           |            | <b>LIGHTNING CONDUCTOR</b>  |       |      |          |  |                   |          |
| 1         | 6.2        | Providing and fixing of lightning conductor finial, made of 25 mm dia 300 mm long, G.I. tube, having single prong at top, with 85 mm dia 6 mm thick G.I. base plate including holes etc. complete as required.  | Each  | 4.0  | 518.00   |  | 2,072.00          |          |
| 2         | 6.3        | Fixing of lightning conductor finial (single prong) with base plate including holes etc. complete as required.  | Each  | 4.0  | 360.00   |  | 1,440.00          |          |
| 3         | 6.4        | Jointing copper / G.I. tape (with another copper/ G I tape, base of the finial or any other metallic object) by riveting / nut bolting/ sweating and soldering etc as required.   | Metre | 10.0 | 113.00   |  | 1,130.00          |          |
| 4         | 6.7        | Providing and fixing G.I. tape 20 mm X 3 mm thick on parapet or surface of wall for lightning conductor complete as required.(For horizontal run)   | Metre | 60.0 | 126.00   |  | 7,560.00          |          |
| 5         | 6.8        | Providing and fixing G.I. tape 20 mm X 3 mm thick on parapet or surface of wall for lightning conductor complete as required.(For vertical run)   | Metre | 40.0 | 197.00   |  | 7,880.00          |          |
| 6         | 6.10       | Fixing of copper/ G.I. tape 20 mm X 3 mm thick on parapet or surface of wall for lightning conductor complete as required.(For vertical run)  | Metre | 20.0 | 162.00   |  | 3,240.00          |          |
| 7         | 6.12       | Providing and fixing testing joint, made of 20 mm X 3 mm thick G.I. strip, 125 mm long, with 4 nos. of G.I. bolts, nuts, chuck nuts and spring washers etc. complete as required.   | Each  | 20.0 | 121.00   |  | 2,420.00          |          |
| 8         | 5.4        | Earthing with G.I. earth plate 600 mm X 600 mm X 6 mm thick including accessories, and providing masonry enclosure with cover plate having locking arrangement and watering pipe of 2.7 metre long etc. with charcoal/ coke and salt as required. Details of cost for one Set | Each  | 2.0  | 7,472.00 |  | 14,944.00         |          |
| 9         | 5.11       | Providing and fixing 25 mm X 5 mm G.I. strip in 40 mm dia G.I. pipe from earth electrode including connection with G.I. nut, bolt, spring, washer excavation and re-filling etc. as required.   | Metre | 4.0  | 706.00   |  | 2,824.00          |          |
|           |            | <b>TOTAL SUB HEAD (VI)</b>  |       |      |          |  | <b>43,510.00</b>  |          |

| ESTIMATE OF FOR CONSTRUCTION OF ADDITIONAL DORMITORY & STAFF QUARTERS AT JNV KUPWARA, JAMMU AND KASHMIR |  |          |          |      |          |                 |                    |
|---|--|----------|----------|------|----------|-----------------|--------------------|
| ABSTRACT OF COST  |  |          |          |      |          |                 |                    |
| [GUEST HOUSE I]   |  |          |          |      |          |                 |                    |
| S.N.  | DESCRIPTION OF ITEM  | DSR 2023 | QUANTITY | UNIT | RATES    | AMOUNT DSR ITEM | AMOUNT [M.R. ITEM] |
| <b>A</b>  | <b>Earth Work</b>  |          |          |      |          |                 |                    |
| 1   | Earth work in excavation by mechanical means (Hydraulic excavator) / manual means in foundation trenches or drains (not exceeding 1.5 m in width or 10 sqm on plan), including dressing of sides and ramming of bottoms, lift upto 1.5 m, including getting out the excavated soil and disposal of surplus excavated soil as directed, within a lead of 50 m.  |          |          |      |          |                 |                    |
| a.)   | All kinds of soil  | 2.8.1    | 70.19    | CUM  | 260.30   | 18,270.46       |                    |
| 2   | Filling available excavated earth (excluding rock) in trenches, plinth, sides of foundations etc. in layers not exceeding 20cm in depth,consolidating each deposited layer by ramming and watering, lead upto 50 m and lift upto 1.5 m.  | 2.25     | 56.15    | CUM  | 196.00   | 11,005.79       |                    |
| 3   | Extra for every additional lift of 1.5 m or part thereof in excavation / banking excavated or stacked materials.<br>All kinds of soil  | 2.26.1   | 17.00    | CUM  | 126.80   | 2,155.60        |                    |
| 4   | Supplying and filling in plinth with sand under floors, including watering, ramming,consolidating and dressing complete.   | 2.27     | 3.83     | CUM  | 2123.75  | 8,133.96        |                    |
| 5   | Excavating, supplying and filling of local earth (including royalty) by mechanical transport upto a lead of 5km also including ramming and watering of the earth in layers not exceeding 20 cm in trenches, plinth, sides of foundation etc. complete.   | 2.25a    | 2.25     | CUM  | 700.50   | 1,576.13        |                    |
| <b>B</b>  | <b>Concrete Work</b>   |          |          |      |          |                 |                    |
| 6   | Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level 1:5:10 (1 Cement : 5 coarse sand (zone-III) derived from natural sources : 10 graded stone aggregate 40 mm nominal size derived from natural sources)   | 4.1.10   | 6.82     | CUM  | 6518.60  | 44,456.85       |                    |
| 7   | Providing and laying damp-proof course 40mm thick with cement concrete 1:2:4 (1 cement : 2 coarse sand (zone-III) derived from natural sources : 4 graded stone aggregate 12.5mm nominal size derived from natural sources)  | 4.10     | 9.23     | SQM  | 410.85   | 3,792.15        |                    |
| 8   | Providing & applying a coat of residual petroleum bitumen of grade of VG-10 of approved quality using 1.7kg per square metre on damp proof course after cleaning the surface with brushes and finally with a piece of cloth lightly soaked in kerosene oil.  | 4.13     | 9.23     | SQM  | 146.15   | 1,348.96        |                    |
| 9   | Making plinth protection 50mm thick of cement concrete 1:3:6 (1 cement : 3 coarse sand (zone-III) derived from natural sources : 6 graded stone aggregate 20 mm nominal size derived from natural sources) over 75mm thick bed of dry brick ballast 40 mm nominal size, well rammed and consolidated and grouted with fine sand,including necessary excavation,levelling & dressing & finishing the top smooth.  | 4.17     | 21.78    | SQM  | 749.30   | 16,319.75       |                    |
| 10  | Brick edging in full brick width and half brick depth including excavation refilling and disposal of surplus earth lead upto 50 metres. With common burnt clay F.P.S.(non modular) bricks of class designation 75  | 16.7.1   | 36.29    | RM   | 194.30   | 7,051.15        |                    |
| <b>C</b>  | <b>Reinforced Cement Concrete</b>  |          |          |      |          |                 |                    |
| 11  | Centering and shuttering including strutting, propping etc. and removal of form for all heights :  |          |          |      |          |                 |                    |
| (a)   | Foundations, footings, bases of columns, etc. for mass concrete.   | 5.9.1    | 27.18    | SQM  | 392.15   | 10,658.64       |                    |
| (b)   | Suspended floors, roofs, landings, balconies and access platform.  | 5.9.3    | 57.18    | SQM  | 927.25   | 53,020.16       |                    |
| (c)   | Lintels, beams, plinth beams, girders, bressumers  | 5.9.5    | 79.81    | SQM  | 736.40   | 58,772.08       |                    |
| (d)   | Columns,Pillars, Piers, Abutments, Posts and Struts.   | 5.9.6    | 74.88    | SQM  | 961.30   | 71,982.14       |                    |
| (e)   | Edges of slabs and breaks in floors and walls Under 20 cm wide.  | 5.9.16.1 | 51.89    | RM   | 208.55   | 10,821.66       |                    |
| 12  | Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete <b>upto plinth level</b> . Thermo-Mechanically Treated bars of grade Fe-500D or more.  | 5.22.6   | 13.71    | QTL. | 10785.00 | 147,862.35      |                    |
| 13  | Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete <b>above plinth level</b> . Thermo-Mechanically Treated bars of grade Fe-500 D or more.  | 5.22.A.6 | 12.86    | QTL. | 10785.00 | 138,695.10      |                    |
| 14  | Add for plaster drip course/ groove in plastered surface or moulding to R.C.C. projections.  | 5.30     | 60.00    | RM   | 78.40    | 4,704.00        |                    |
| 15  | Providing and laying in position ready mixed or site batched design mix cement concrete for reinforced cement concrete work; using coarse aggregate and fine aggregate derived from natural sources, Portland Pozzolana / Ordinary Portland /Portland Slag cement, admixtures in recommended proportions as per IS: 9103 to accelerate / retard setting of concrete, to improve durability and workability without impairing strength; including pumping of concrete to site of laying, curing, carriage for all leads; but excluding the cost of centering, shuttering, finishing and reinforcement as per direction of the engineer-in-charge; for the following grades of concrete.<br>Note: Extra cement up to 10% of the minimum specified cement content in design mix shall be payable separately. In case the cement content in design mix is more than 110% of the specified minimum cement content, the contractor shall have discretion to either re-design the mix or bear the cost of extra cement. | 5.33     |          |      |          |                 |                    |

|          |  |             |       |     |         |            |  |
|----------|--|-------------|-------|-----|---------|------------|--|
| (I)      | <b>All works upto plinth level</b>   | 5.33.1      |       |     |         |            |  |
|          | Concrete of M25 grade with minimum cement content of 330 kg /cum   | 5.33.1.1    |       |     |         |            |  |
|          | (i) R.C.C. work in Footing   | 5.33.1.1    | 9.40  | CUM | 9504.75 | 89,344.65  |  |
|          | (ii) R.C.C. work in Beam   | 5.33.1.1    | 2.85  | CUM | 9504.75 | 27,088.54  |  |
|          | (iii) R.C.C. work in Columns   | 5.33.1.1    | 2.16  | CUM | 9504.75 | 20,530.26  |  |
| (II)     | <b>All works above plinth level upto floor V level</b>   | 5.33.2      |       |     |         |            |  |
|          | Concrete of M25 grade with minimum cement content of 330 kg /cum   | 5.33.2.1    |       |     |         |            |  |
|          | (i) R.C.C. work in Lintel  | 5.33.2.1    | 0.13  | CUM | 9860.40 | 1,281.85   |  |
|          | (ii) R.C.C. work in Beam   | 5.33.2.1    | 2.06  | CUM | 9860.40 | 20,312.42  |  |
|          | (iii) R.C.C. work in Columns   | 5.33.2.1    | 3.45  | CUM | 9860.40 | 34,018.38  |  |
|          | (iv) R.C.C. work in Slab   | 5.33.2.1    | 7.12  | CUM | 9860.40 | 70,206.05  |  |
| <b>D</b> | <b>Masonry Work</b>  |             |       |     |         |            |  |
| 16       | Half brick masonry with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in foundations and plinth in : cement mortar 1:4 (1 cement : 4 coarse sand)   | 6.13.2      | 13.10 | Sqm | 1123.80 | 14,721.78  |  |
| 17       | Extra for providing and placing in position 2 Nos 6mm dia. M.S. bars at every third course of half brick masonry.  | 6.15        | 13.10 | SQM | 104.80  | 1,372.88   |  |
| 18       | Brick work with non modular fly ash bricks conforming to IS:12894, class designation 10 average compressive strength in superstructure above plinth level up to floor V level in :   | 6.34        |       |     |         |            |  |
|          | Cement mortar 1:6 (1 cement : 6 coarse sand)   | 6.34.2      | 11.50 | CUM | 8752.55 | 100,654.33 |  |
| 19       | Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in foundation and plinth in:Cement mortar 1:6 (1 cement : 6 coarse sand)  | 6.1.2       | 3.19  | CUM | 7132.25 | 22,751.88  |  |
| <b>E</b> | <b>Cladding Work</b>   |             |       |     |         |            |  |
| 20       | Providing and fixing 1st quality ceramic glazed wall tiles conforming to IS: 15622 (thickness to be specified by the manufacturer), of approved make, in all colours, shades except burgundy, bottle green, black of any size as approved by Engineer-in-Charge, in skirting, risers of steps and dados, over 12 mm thick bed of cement mortar 1:3 (1 cement : 3 coarse sand) and jointin with grey cement slurry @ 3.3kg per sqm, including pointing in white cement mixed with pigment of matching shade complete. | 8.31        | 15.64 | SQM | 1267.95 | 19,830.74  |  |
| <b>F</b> | <b>Wood and PVC Work</b>   |             |       |     |         |            |  |
| 21       | Providing and fixing ISI marked flush door shutters conforming to IS : 2202 (Part I) non-decorative type, core of block board construction with frame of 1st class hard wood and well matched commercial 3 ply veneering with vertical grains or cross bands and face veneers on both faces of shutters:35 mm thick including ISI marked Stainless Steel butt hinges with necessary screws   | 9.21.1      | 9.03  | SQM | 2392.65 | 21,605.63  |  |
| 22       | Extra for providing lipping with 2nd class teak wood battens 25 mm minimum depth on all edges of flush door shutters (over all area of door shutter to be measured).   | 9.23        | 9.03  | SQM | 462.35  | 4,175.02   |  |
| 23       | Providing and fixing M.S. grills of required pattern in frames of windows etc. with M.S. flats, square or round bars etc. including priming coat with approved steel primer all complete. Fixed to steel windows by welding.   | 9.48.1      | 14.64 | KG  | 219.10  | 3,207.62   |  |
| 24       | Providing and fixing oxidised M.S. casement stays (straight peg type) with necessary screws etc. complete.   |             |       |     |         |            |  |
| (i)      | 300 mm weighing not less than 200 gms  | 9.68.1      | 12.00 | NOS | 67.40   | 808.80     |  |
| (ii)     | 250 mm weighing not less than 150 gms  | 9.68.2      | 2.00  | NOS | 61.05   | 122.10     |  |
| 25       | Providing and fixing aluminium hanging floor door stopper ISI marked anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour or shade with necessary screws etc. complete. Twin rubber stopper   | 9.101.2     | 6.00  | NOS | 72.35   | 434.10     |  |
| 26       | Providing and fixing factory made door frame (single rebate) made out of single piece extruded solid PVC foam profile with homogenous fine cellular structure having smooth outer integral skin having 62 mm width & 32 mm thickness, frame will be mitred & Jointed with self driven self tapping screws of size 38 mm x 4 mm & PVC solvent cement, including fixing the frame to wall with suitable dia & length anchor fastener as per manufacturer's specification and direction of Engineer-in-charge.          | 9.123       | 9.90  | RM  | 696.00  | 6,890.40   |  |
| 27       | Providing & Fixing decorative high pressure laminated sheet of plain / wood grain in gloss / matt/ suede finish with high density protective surface layer and reverse side of adhesive bonding quality conforming to IS : 2046 Type S, including cost of adhesive of approved quality. 1.0 mm thick   | 9.127.2     | 18.06 | SQM | 897.30  | 16,205.24  |  |
| 28       | Providing and fixing wire gauge shutters using stainless steel grade 304 wire gauge with wire of dia 0.5 mm and average width of aperture 1.4 mm in both directions for doors, windows and clerestory windows with necessary screws : <b>30 mm thick shutters With ISI marked stainless steel butt hinges of required size, Kiln seasoned and chemically treated hollock wood</b>  | 9.134.2.2.2 | 2.10  | SQM | 3619.60 | 7,601.16   |  |

|          |   |            |        |     |         |           |          |
|----------|---|------------|--------|-----|---------|-----------|----------|
| 29       | Providing and fixing fly proof stainless steel grade 304 wire gauge, to windows and clerestory windows using wire gauge with average width of aperture 1.4 mm in both directions with wire of dia. 0.50 mm all complete. <b>With 12 mm mild steel U beading</b>   | 9.135.2    | 7.92   | SQM | 1228.10 | 9,726.55  |          |
| 30       | Providing and fixing bright /matt finished Stainless Steel handles of approved quality & make with necessary screws etc all complete. (a) 125 mm.   | 9.165.1    | 12.00  | NOS | 119.20  | 1,430.40  |          |
| 31       | Providing & fixing Stainless steel sliding door bolts ISI marked anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour or shade with nuts and screws etc complete. (a) 250mm x 16mm .   | M.R.       | 6.00   | NOS | 560.00  |           | 3,360.00 |
| 32       | Providing and fixing stainless steel towerbolts (barrel type) with necessary screws etc. complete.  |            |        |     |         |           |          |
|          | 300 x 10mm  | M.R.       | 6.00   | NOS | 448.00  |           | 2,688.00 |
|          | 150 x 10mm  | M.R.       | 6.00   | NOS | 392.00  |           | 2,352.00 |
| <b>G</b> | <b>Steel Work</b>   |            |        |     |         |           |          |
| 33       | Providing and fixing factory made ISI marked steel glazed doors, windows and ventilators, side /top /centre hung, with beading and all members such as F7D, F4B, K11 B and K12 B etc. complete of standard rolled steel sections, joints mitred and flash butt welded and sash bars tenoned and riveted, including providing and fixing of hinges, pivots, including priming coat of approved steel primer, but excluding the cost of other fittings, complete all as per approved design, (sectional weight of only steel members shall be measured for payment). Fixing with 15x3 mm lugs 10 cm long embedded in cement concrete block 15x10x10 cm of C.C. 1:3:6 (1 Cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size).                        | 10.11.1    | 142.56 | KG  | 131.05  | 18,682.49 |          |
| 34       | Providing and fixing T-iron frames for doors, windows and ventilators of mild steel Tee-sections, joints mitred and welded, including fixing of necessary butt hinges and screws and applying a priming coat of approved steel primer Fixing with 15x3 mm lugs 10 cm long embedded in cement concrete block 15x10x10 cm of C.C. 1:3:6 (1 Cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size   | 10.13.1    | 72.60  | KG  | 141.70  | 10,287.42 |          |
| 35       | Providing and fixing M.S. Tubular frames for doors, windows, ventilators and cupboard with rectangular/ L-Type sections, made of 1.60 mm thick M.S. Sheet, joints mitred, welded and grinded finish, with profiles of required size, including fixing of necessary butt hinges and screws and applying a priming coat of approved steel primer. Fixing with 15x3 mm lugs 10 cm long embedded in cement concrete block 15x10x10 cm of C.C. 1:3:6 (1 Cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size)  | 10.15.1    | 386.19 | Kg  | 195.20  | 75,384.29 |          |
| 36       | Providing & fixing glass panes with putty and glazing clips in steel doors, windows, clerestory windows, all complete with : 4.0 mm thick glass panes.  | 10.30.1    | 17.92  | SQM | 1064.65 | 19,078.53 |          |
| <b>H</b> | <b>Flooring</b>   |            |        |     |         |           |          |
| 37       | Kota stone slab flooring over 20 mm (average) thick base laid over and jointed with grey cement slurry mixed with pigment to match the shade of the slab, including rubbing and polishing complete with base of cement mortar 1 : 4 (1 cement : 4 coarse sand) : 25 mm thick  | 11.26.1    | 4.49   | SQM | 1948.25 | 8,747.64  |          |
| 38       | Kota stone slabs 20 mm thick in risers of steps, skirting, dado and pillars laid on 12 mm (average) thick cement mortar 1:3 (1 cement: 3 coarse sand) and jointed with grey cement slurry mixed with pigment to match the shade of the slabs, including rubbing and polishing complete.   | 11.27      | 5.47   | SQM | 2354.70 | 12,880.21 |          |
| 39       | Providing and laying Vitrified tiles in floor in different sizes (thickness to be specified by the manufacturer) with water absorption less than 0.08% and conforming to IS:15622, of approved brand & manufacturer, in all colours and shade, laid on 20 mm thick cement mortar 1:4 (1 cement: 4 coarse sand) jointing with grey cement slurry @3.3 kg/sqm including grouting the joints with white cement and matching pigments etc. The tiles must be cut with the zero chipping diamond cutter only . Laying of tiles will be done with the notch trowel, plier, wedge, clips of required thickness, leveling system and rubber mallet for placing the tiles gently and easily. <b>Glazed Vitrified tiles Matt/Antiskid finish of size of Tile 600 x 600 mm</b> | 11.41A.3.1 | 6.40   | SQM | 1464.85 | 9,375.04  |          |
| 40       | Providing and laying vitrified floor tiles in different sizes (thickness to be specified by the manufacturer) with water absorption less than 0.08% and conforming to IS: 15622, of approved make, in all colours and shades, laid on 20mm thick cement mortar 1:4 (1 cement : 4 coarse sand), jointing with grey cement slurry @ 3.3kg/sqm including grouting the joints with white cement and matching pigments etc., complete. Size of Tile 600x600 mm.  | 11.41.2    | 43.07  | SQM | 1553.45 | 66,907.09 |          |
| 41       | Providing and laying Vitrified tiles in different sizes (thickness to be specified by manufacturer), with water absorption less than 0.08 % and conforming to I.S. 15622, of approved make, in all colours & shade, in skirting, riser of steps, over 12 mm thick bed of cement mortar 1:3 (1 cement: 3 coarse sand), jointing with grey cement slurry @ 3.3kg/sqm including grouting the joint with white cement & matching pigments etc. complete. Size of Tile 600x600 mm  | 11.46.2    | 4.55   | SQM | 1623.05 | 7,384.88  |          |
| <b>I</b> | <b>Finishing</b>  |            |        |     |         |           |          |

|          |  |         |        |                        |              |                     |                 |
|----------|--|---------|--------|------------------------|--------------|---------------------|-----------------|
| 42       | 12mm cement plaster in single coat on fair side of single or half brick wall for exterior plastering up to floor two level including internal rounded angles chamfers, and/or rounded angles not exceeding 80mm in girth and finished even and smooth no extra for mixing any additive. 1:6 (1 cement: 6 coarse sand)  | 13.4.2  | 130.69 | SQM                    | 343.65       | 44,911.62           |                 |
| 43       | 15 mm cement plaster on the rough side of single or half brick wall of mix : 1:6 (1 cement: 6 coarse sand)   | 13.5.2  | 131.09 | SQM                    | 395.35       | 51,826.43           |                 |
| 44       | 6 mm cement plaster on ceiling (a) 1:3(1 cement:3 fine sand)   | 13.16.1 | 10.91  | SQM                    | 300.45       | 3,277.91            |                 |
| 45       | Distempering with oil bound washable distemper of approved brand and manufacture to give an even shade : New work (two or more coats) over and including water thinnable priming coat with cement primer.  | 13.41.1 | 188.27 | SQM                    | 185.65       | 34,952.33           |                 |
| 46       | Finishing walls with Premium Acrylic Smooth exterior paint with Silicone additives of required shade. New work (Two or more coats applied @ 1.43 ltr/ 10 sqm. over and including priming coat of exterior primer applied @ 2.20 kg/ 10 sqm).   | 13.47.1 | 130.69 | SQM                    | 171.10       | 22,361.06           |                 |
|          | Applying priming coat:   | 13.50   |        |                        |              |                     |                 |
| 47       | With ready mixed aluminium primer of approved brand and manufacture on resinous wood and plywood   | 13.50.2 | 7.04   | SQM                    | 74.65        | 525.46              |                 |
| 48       | With ready mixed red oxide zink chromate primer of approved brand and manufacture on steel galvanised iron/steel works.  | 13.50.3 | 41.72  | SQM                    | 67.40        | 2,811.93            |                 |
| 49       | Painting with synthetic enamel paint of approved brand and manufacture to give an even shade:  |         |        |                        |              |                     |                 |
|          | Two or more coats on new work.   | 13.61.1 | 48.76  | SQM                    | 155.90       | 7,601.53            |                 |
| 50       | Providing and applying white cement based putty of average thickness 1 mm, of approved brand and manufacturer, over the plastered wall surface to prepare the surface even and smooth complete.  | 13.80   | 57.18  | SQM                    | 156.05       | 8,922.94            |                 |
| <b>J</b> | <b>Water Proofing</b>  |         |        |                        |              |                     |                 |
| 51       | Providing and laying in situ seven course water proofing treatment with APP (Atactic poly-propylene) modified Polymeric memberane over roof consisting of first coat of bitumen primer @ 0.40 litre per sqm, 2nd, 4th & 6th courses of bonding material @ 1.20 Kg/sqm, which shall consist of blown type bitumen of grade 85/25 conforming to IS : 702, 3rd and 5th layers of roofing membrane APP modified Polymeric membrane 1.5 mm thick of 2.25 Kg/sqm weight consisting of five layers prefabricated with centre core as 20 micron HMHDPE film sandwiched on both sides with polymeric mix and the polymeric mix is protected on both side with 20 micron HMHDPE film. 7th, the top most layer shall be finished with brick tiles of class designation 10 grouted with cement mortar 1:3 (1cement : 3 fine sand) mixed with 2% integral water proofing compound by weight of cement over a 12 mm layer of cement mortar 1:3 (1 cement : 3 fine sand) and finished neat (item of laying brick tiles shall be paid for separately). | 14.86   | 52.26  | SQM                    | 730.55       | 38,178.54           |                 |
| 52       | Providing and laying brick tiles over mumty roofs, grouted with cement mortar 1:3 (1 cement : 3 fine sand) mixed with 2% of integral water proofing compound by weight of cement, over 12 mm layer of cement mortar 1:3 (1 cement : 3 fine sand) and finished neat:<br>With common burnt clay F.P.S. (non modular) brick tiles of class designation 10   | 12.19   | 52.26  | SQM                    | 607.40       | 31,742.72           |                 |
|          |  |         |        |                        | <b>TOTAL</b> | <b>1,580,787.77</b> | <b>8,400.00</b> |
|          |  |         |        | <b>Say Rs. In Lacs</b> |              | <b>15.81</b>        | <b>0.08</b>     |

| ESTIMATE OF FOR CONSTRUCTION OF ADDITIONAL DORMITORY & STAFF QUARTERS AT JNV KUPWARA, JAMMU AND KASHMIR |                       |                   |                  |
|---|-----------------------|-------------------|------------------|
| PLUMBING INTERNAL ESTIMATE ( Guest House )  |                       |                   |                  |
| Sl. No.   | Description           | Amount            |                  |
|   |                       | DSR Items - 2023  | NS Items         |
| 1   | Sanitary Installation | 88,581.15         | 27,850.00        |
| 2   | Water Supply          | 60,390.85         | 41,876.00        |
|   | <b>Total</b>          | <b>148,972.00</b> | <b>69,726.00</b> |
|   | <b>Say in lacs</b>    | <b>1.49</b>       | <b>0.70</b>      |

| ESTIMATE OF FOR CONSTRUCTION OF ADDITIONAL DORMITORY & STAFF QUARTERS AT JNV KUPWARA, JAMMU AND KASHMIR |           |   |      |       |           |           |    |
|---|-----------|---|------|-------|-----------|-----------|----|
| PLUMBING INTERNAL ESTIMATE (Guest House)  |           |   |      |       |           |           |    |
| S.No.   | DSR '23   | Description   | Qty. | Unit  | Rate      | Amount    |    |
|   |           |   |      |       |           | DSR-2023  | MR |
|   |           | <b>Sub Head – I Sanitary Installation</b>   |      |       |           |           |    |
| 1.1   | 17.1      | Providing and fixing water closet squatting pan (Indian type W.C. pan ) with 100 mm sand cast Iron P or S trap, 10 litre low level white P.V.C. flushing cistern, including flush pipe, with manually controlled device (handle lever) conforming to IS : 7231, with all fittings and fixtures complete, including cutting and making good the walls and floors wherever required:.   |      |       |           |           |    |
|   | 17.1.1    | White Vitreous china Orissa pattern W.C. pan of size 580x440 mm with integral type foot rests.  | 0    | each  | 6,767.40  | -         |    |
| 1.2   | 17.3      | Providing and fixing white vitreous china pedestal type water closet (European type) with seat and lid, 10 litre low level white vitreous china flushing cistern & C.P. flush bend with fittings & C.I. brackets, 40 mm flush bend, overflow arrangement with specials of standard make and mosquito proof coupling of approved municipal design complete, including painting of fittings and brackets, cutting and making good the walls and floors wherever required :                |      |       |           |           |    |
|   | 17.3.1    | W.C. pan with ISI marked white solid plastic seat and lid   | 0    | each  | 8,006.60  | -         |    |
| 1.3   | 17.81     | Providing and fixing floor mounted, white vitreous china single piece, double traps syphonic water closet of approved brand/make, shape, size and pattern including integrated white vitreous china cistern of capacity 10 litres with dual flushing system, including all fittings and fixtures with seat cover, cistern fittings, nuts, bolts and gasket etc including making connection with the existing P/S trap, complete in all respect as per directions of Engineer-in-Charge. | 2    | each  | 18,212.90 | 36,425.80 |    |
| 1.4   | 17.80     | Providing and fixing white vitreous china battery based infrared sensor operated urinal of approx. size 610 x 390 x 370 mm having pre & post flushing with water (250 ml & 500 ml consumption), having water inlet from back side, including fixing to wall with suitable brackets all as per manufacturers specification and direction of Engineer-in-charge.  | 0    | each  | 7,979.20  | -         |    |
| 1.5   | 17.7      | Providing and fixing wash basin with C.I. brackets, 15 mm C.P. brass pillar taps, 32 mm C.P. brass waste of standard pattern, including painting of fittings and brackets, cutting and making good the walls wherever require:.   |      |       |           |           |    |
| 1.5.1   | 17.7.3    | White Vitreous China Wash basin size 550x400 mm with a pair of 15 mm C.P. brass pillar taps   | 2.00 | each  | 2,301.75  | 4,603.50  |    |
| 1.6   | NSI-1     | Providing and fixing white vitreous china wash basin under counter basin, with C.I. concealed type brackets fixed to walls with GI rag bolts or approved fasteners etc., including 32 mm CP brass waste coupling, including painting of fittings and brackets, cutting and making good the walls wherever required all complete (Granite counter top will be measured and paid separately under relevent item): as per approved make and decision of engineer-in-charge                 | 0    | each  | 4,689.00  | -         |    |
| 1.7   | 17.34     | Providing and fixing toilet paper holder :  |      |       |           |           |    |
|   | 17.34.1   | C.P. brass  | 2    | each  | 803.70    | 1,607.40  |    |
| 1.8   | NSI-2     | Providing and fixing CP brass auto closing system basin pillar tap / hand wash of Jaquar PRS - 001 or Equivalent as approved by Engineer- In Charge   | 0    | each  | 5,092.00  | -         |    |
| 1.9   | NSI-3     | Providing and fixing CP brass single lever basin mixer without popo with 450mm long braided hose (connection pipe) basin pillar tap of Jaquar LYR-38001B or Equivalent as approved by Engineer- In Charge.  | 2    | each  | 7,406.00  | 14,812.00 |    |
| 1.10  | 17.22A    | Providing and fixing 32mm C.P brass bottle Trap of approved quality & make as per the direction of engineer-in-charge.  | 2    | each  | 1,034.80  | 2,069.60  |    |
| 1.11  | 17.31     | Providing and fixing 600x450 mm beveled edge mirror of superior glass (of approved quality) complete with 6 mm thick hard board ground fixed to wooden cleats with C.P. brass screws and washers complete.  | 2    | Sqm   | 1,607.95  | 3,215.90  |    |
| 1.12  | 17.10     | Providing and fixing Stainless Steel A ISI 304 (18/8) kitchen sink as per IS : 13983 with C.I. brackets and stainless steel plug 40 mm, including painting of fittings and brackets, cutting and making good the walls wherever required :  |      |       |           |           |    |
|   | 17.10.1   | Kitchen sink with drain board   |      |       |           |           |    |
|   | 17.10.1.1 | 510x1040 mm bowl depth 250mm  | 0    | each  | 6945.60   | -         |    |
|   | 17.10.2   | Kitchen sink without drain board  |      |       |           |           |    |
|   | 17.10.2.2 | 610x460 mm bowl depth 200 mm  | 0    | each  | 3,873.80  | -         |    |
| 1.13  | 17.11     | Providing and fixing white vitreous china laboratory sink with C.I. brackets, C.P. brass chain with rubber plug, 40 mm C.P brass waste and 40mm C.P. brass trap with necessary C.P. brass unions complete, including painting of fittings and brackets, cutting and making good the wall wherever required :  |      |       |           |           |    |
|   | 17.11.1   | Size 450x300x150 mm   | 0    | each  | 5,020.85  | -         |    |
| 1.14  | 17.28     | Providing and fixing P.V.C. waste pipe for sink or wash basin including P.V.C. waste fittings complete.   |      |       |           |           |    |
|   | 17.28.2   | Flexible pipe   |      |       |           |           |    |
|   | 17.28.2.2 | 40 mm dia   | 0    | each  | 119.55    | -         |    |
| 1.15  | 17.35     | Providing and fixing soil, waste and vent pipes :   |      |       |           |           |    |
|   | 17.35.1   | 100 mm dia  |      |       |           |           |    |
|   | 17.35.1.3 | Hubless centrifugally cast (spun) iron pipes epoxy coated inside & outside IS:15905   | 10   | meter | 1,169.30  | 11,693.00 |    |
| 1.16  | 17.38     | Providing and fixing bend of required degree with access door, insertion rubber washer 3 mm thick, bolts and nuts complete.   |      |       |           |           |    |
|   | 17.38.1   | 100 mm  |      |       |           |           |    |



| ESTIMATE OF FOR CONSTRUCTION OF ADDITIONAL DORMITORY & STAFF QUARTERS AT JNV KUPWARA, JAMMU AND KASHMIR |            |  |      |       |          |          |          |
|---|------------|--|------|-------|----------|----------|----------|
| PLUMBING INTERNAL ESTIMATE (Guest House )   |            |  |      |       |          |          |          |
| S.No.   | DSR '23    | Description  | Qty. | Unit  | Rate     | Amount   |          |
|   | 17.38.1.3  | Hubless centrifugally cast (spun) iron epoxy coated inside & outside I.S. 15905  | 0    | each  | 567.20   | -        |          |
| 1.17  | 17.39      | Providing and fixing plain bend of required degree.  |      |       |          |          |          |
|   | 17.39.1    | 100 mm   |      |       |          |          |          |
|   | 17.39.1.3  | Hubless centrifugally cast (spun) iron pipe epoxy inside & outside IS: 15905   | 5    | each  | 368.00   | 1,840.00 |          |
| 1.18  | 17.40      | Providing and fixing heel rest sanitary bend   |      |       |          |          |          |
|   | 17.40.1    | 100 mm dia   |      |       |          |          |          |
|   | 17.40.1.2  | Sand cast iron S&S as per IS - 3989  | 0    | each  | 548.70   | -        |          |
| 1.19  | 17.42      | Providing and fixing double equal plain junction of required degree  |      |       |          |          |          |
|   | 17.42.1    | 100x100x100x100 mm   |      |       |          |          |          |
|   | 17.42.1.3  | Hubless centrifugally cast (spun) iron pipe epoxy inside & outside IS: 15905   | 0    | each  | 760.70   | -        |          |
| 1.20  | 17.43      | Providing and fixing single equal plain junction of required degree with access door, insertion rubber washer 3 mm thick, bolts and nuts complete.   |      |       |          |          |          |
|   | 17.43.1    | 100x100x100 mm   |      |       |          |          |          |
|   | 17.43.1.2  | sand cast Iron S&S as per IS: 3989   | 0    | each  | 925.70   | -        |          |
| 1.21  | 17.44      | Providing and fixing single equal plain junction of required degree  |      |       |          |          |          |
|   | 17.44.1    | 100x100x100 mm   |      |       |          |          |          |
|   | 17.44.1.3  | Hubless centrifugally cast (spun) iron pipe epoxy inside & outside IS: 15905   | 0    | each  | 581.45   | -        |          |
| 1.22  | 17.56      | Providing and fixing terminal guard:   |      |       |          |          |          |
|   | 17.56.1    | 100 mm   |      |       |          |          |          |
|   | 17.56.1.3  | Hubless centrifugally cast (spun) iron pipe epoxy inside & outside IS: 15905   | 0    | each  | 427.80   | -        |          |
| 1.23  | 17.57A     | Providing and fixing shielded coupling for Hubless centrifugally cast iron pipes   |      |       |          |          |          |
|   | 17.57A.1   | 100 mm   |      |       |          |          |          |
|   | 17.57A.1.1 | S S 304 grade coupling with EPDM rubber gasket   | 10   | each  | 432.05   | 4,320.50 |          |
| 1.24  | 17.59      | Providing and fixing M.S. stays and clamps for sand cast iron/centrifugally cast (spun) iron pipes of diameter :   |      |       |          |          |          |
|   | 17.59.1    | 100 mm   | 0    | each  | 139.70   | -        |          |
| 1.25  | 17.65      | Painting sand cast iron/ centrifugally cast (spun) iron soil, waste vent pipes and fittings with two coats of synthetic enamel paint of any colour such as chocolate grey, or buff etc. over a coat of primer (of approved quality) for new work :   |      |       |          |          |          |
|   | 17.65.1    | 100 mm diameter pipe   | 0    | meter | 82.80    | -        |          |
| 1.26  | 17.37      | Providing and fixing M.S. holder-bat clamps of approved design to Sand Cast iron/cast iron (spun) pipe embedded in and including cement concrete blocks 10x10x10cm of 1:2:4 mix (1 cement : 2 coarse sand : 4 graded stone aggregate 20mm nominal size) including cost of cutting holes and making good the walls etc. : |      |       |          |          |          |
|   | 17.37.1    | 100 mm diameter pipe   | 0    | each  | 362.85   | -        |          |
| 1.27  | 18.10      | Providing and fixing G.I. soil / waste pipes complete with G.I. fittings and clamps, i/c cutting and making good the walls etc.  |      |       |          |          |          |
|   | 18.10.4    | 32 mm dia. nominal bore  | 5    | metre | 667.00   | 3,335.00 |          |
|   | 18.10.5    | 40 mm dia. nominal bore  | 5    | metre | 811.90   | 4,059.50 |          |
|   | 18.10.6    | 50 mm dia. nominal bore  | 5    | metre | 1,048.35 | 5,241.75 |          |
| 1.28  | 17.60      | Providing and fixing trap of self cleansing design with screwed down or hinged grating with or without vent arm complete, including cost of cutting and making good the walls and floors :   |      |       |          |          |          |
|   | 17.60.1    | 100 mm inlet and 100 mm outlet   |      |       |          |          |          |
|   | 17.60.1.3  | Hubless centrifugally cast (spun) iron epoxy coated inside & outside as per IS:15905   | 2    | each  | 854.55   | 1,709.10 |          |
| 1.29  | 18.77      | Cutting holes up to 15 x 15 cm in R.C.C. floors and roofs for passing drain pipe etc. and repairing the hole after insertion of drain pipe etc. with cement concrete 1:2:4 ( 1 Cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size ) , including finishing complete so as to make it leak proof.        | 0    | each  | 452.00   | -        |          |
| 1.30  | NSI-4      | Providing & fixing in position GI 100x50 elbow floor drain including cost of cutting and making good the walls and floors wherever required.   | 0    | each  | 1,541.00 | -        |          |
| 1.31  | NSI-5      | Providing and fixing 125 mm dia S/S grating (with or without hole)for floor or Nahani trap.  | 4    | each  | 620.00   |          | 2,480.00 |
| 1.32  | NSI-6      | Providing and fixing soap dish holder from wall of standard shape with fittings of approved quality with all complete. Make Jaquar - ACN-1131N & Equivalent  | 2    | each  | 1,159.00 |          | 2,318.00 |
| 1.33  | NSI-7      | Providing and fixing soap dispenser with glass bottle from wall of standard shape with fittings of approved quality with all complete. Make Jaquar - ACN-1135N & Equivalent  | 2    | each  | 2,095.00 |          | 4,190.00 |
| 1.34  | NSI-8      | Providing & fixing 600 mm towel rail long stanless steel from wall face with concealed fittings arrangement of approved quality with all complete. Make Jaquar - CAN-1111SM  | 2    | each  | 2,025.00 |          | 4,050.00 |
| 1.35  | 18.65      | Providing and fixing PTMT soap Dish Holder having length of 138mm, breadth 102mm, height of 75mm with concealed fitting arrangements, weighing not less than 106 gms.  | 0    | each  | 111.45   | -        |          |
| 136   | 17.73      | Providing and fixing PTMT towel rail complete with brackets fixed to wooden cleats with CP brass screws with concealed fittings arrangement of approved quality and colour.  |      |       |          |          |          |
|   | 17.73.2    | 600 mm long towel rail with total length of 645 mm, width 78 mm and effective height of 88 mm, weighing not less than 190 gms.   | 0    | each  | 708.95   | -        |          |

| ESTIMATE OF FOR CONSTRUCTION OF ADDITIONAL DORMITORY & STAFF QUARTERS AT JNV KUPWARA, JAMMU AND KASHMIR |           |  |      |       |           |                  |                  |
|---|-----------|--|------|-------|-----------|------------------|------------------|
| PLUMBING INTERNAL ESTIMATE (Guest House )   |           |  |      |       |           |                  |                  |
| S.No.   | DSR '23   | Description  | Qty. | Unit  | Rate      | Amount           |                  |
| 1.37  | 12.22     | Making khurras 45x45 cm with average minimum thickness of 5 cm cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate of 20 mm nominal size) over P.V.C. sheet 1 m x1 m x 400 micron, finished with 12 mm cement plaster 1:3 (1 cement : 3 coarse sand) and a coat of neat cement, rounding the edges and making and finishing the outlet complete.  | 2    | each  | 298.25    | 596.50           |                  |
| 1.38  | 12.41     | Providing and fixing on wall face unplasticised Rigid PVC rain water pipes conforming to IS : 13592 Type A, including jointing with seal ring conforming to IS : 5382, leaving 10 mm gap for thermal expansion, (i) Single socketed pipes.   | 12   | metre | 377.40    | 4,528.80         |                  |
| 1.39  | 12.42     | Providing and fixing on wall face unplasticised - PVC moulded fittings/ accessories for unplasticised Rigid PVC rain water pipes conforming to IS : 13592 Type A, including jointing with seal ring conforming to IS : 5382, leaving 10 mm gap for thermal expansion.  |      |       |           |                  |                  |
|   | 12.42.1   | Coupler  |      |       |           |                  |                  |
|   | 12.42.1.1 | 110 mm   | 6    | each  | 136.15    | 816.90           |                  |
|   | 12.42.3   | Single tee with door   |      |       |           |                  |                  |
|   | 12.42.3.2 | 110x110x110 mm   | 2    | each  | 234.15    | 468.30           |                  |
|   | 12.42.5   | Bend 87.5°   |      |       |           |                  |                  |
|   | 12.42.5.2 | 110 mm   | 2    | each  | 150.35    | 300.70           |                  |
|   | 12.42.6   | Shoe (Plain)   |      |       |           |                  |                  |
|   | 12.42.6.1 | 110 mm Shoe  | 2    | each  | 131.85    | 263.70           |                  |
| 1.40  | 12.43     | Providing and fixing unplasticised -PVC pipe clips of approved design to unplasticised - PVC rain water pipes by means of 50x50x50 mm hard wood plugs, screwed with M.S. screws of required length, including cutting brick work and fixing in cement mortar 1:4 (1 cement : 4 coarse sand) and making good the wall etc. complete.  |      |       |           |                  |                  |
|   | 12.43.2   | 110 mm   | 4    | each  | 371.30    | 1,485.20         |                  |
| 1.41  | NSI-9     | Supplying and fixing of HDPE pipe (PE grade 63 - PN-8 ) conforming to IS 14333-1996 chemical waste pipes jointed with rubber ring with good quality lubricant with fittings inclusive of all necessary specials like bends, tees, offsets, junctions etc laid under floor/under ceiling/on walls with suitable clamps and specials curing, necessary chasing, jointing and restoring to original conditions, testing etc. including all other incidental charges etc. complete for successful completion of work as per specifications, and as directed by Engineer -in- Charge. |      |       |           |                  |                  |
|   | a)        | 110 mm outer dia   | 0    | metre | 1,543.00  | -                |                  |
|   | b)        | 50 mm outer dia  | 0    | metre | 558.00    | -                |                  |
| 1.42  | NSI-10    | Providing & fixing in position upvc P"or S" trap of self cleaning design of following sizes for the embedded areas Making proper connection with chemical sealant joint , cutting chase / hole in floors /slabs and bringing the same in proper condition in cement concrete 1:2:4 mix complete as required. including cost of cutting and making good the walls and floors wherever required.   | 0    | each  | 627.00    | -                |                  |
| 1.43  | NSI-11    | Providing & Fixing water cooler with stainless steel having storage capacity of 80 liter & cooling capacity 60 liter / hour with Reverse osmosis system & ultra violet membrane TDS reduction 90% having automatic back wash system with filtration unit & all other required accessories complete in all respect as per direction of the engineer in charge .   | 0    | each  | 65,604.00 | -                |                  |
|   |           | <b>TOTAL</b>   |      |       |           | <b>88,581.15</b> | <b>27,850.00</b> |
|   |           | <b>Sub Head – II Water Supply</b>  |      |       |           |                  |                  |
| 2.1   | 18.10     | Providing and fixing G.I. pipes complete with G.I. fittings and clamps, i/c cutting and making good the walls etc.   |      |       |           |                  |                  |
|   |           | <b>Internal work – Exposed on wall.</b>  |      |       |           |                  |                  |
|   | 18.10.2   | 20 mm nominal outer dia Pipes  | 10   | metre | 437.30    | 4,373.00         |                  |
|   | 18.10.3   | 25 mm nominal outer dia Pipes  | 10   | metre | 551.70    | 5,517.00         |                  |
|   | 18.10.4   | 32 mm nominal outer dia Pipes  | 5    | metre | 667.00    | 3,335.00         |                  |
|   | 18.10.5   | 40 mm nominal outer dia Pipes  | 0    | metre | 811.90    | -                |                  |
|   | 18.10.6   | 50 mm nominal outer dia Pipes  | 0    | metre | 1,048.35  | -                |                  |
|   | NSI-12a   | 65 mm nominal outer dia Pipes  | 0    | metre | 1,084.00  | -                |                  |
|   | NSI-12b   | 80 mm nominal outer dia Pipes  | 0    | metre | 1,276.00  | -                |                  |
| 2.2   | 18.8      | Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply, including all CPVC plain & brass threaded fittings, i/c fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and the cost of cutting chases and making good the same including testing of joints complete as per direction of Engineer in Charge.   |      |       |           |                  |                  |
|   |           | <b>Concealed including cutting chases and making good the wall etc.</b>  |      |       |           |                  |                  |
|   | 18.8.2    | 15 mm nominal outer dia Pipes  | 10   | metre | 537.60    | 5,376.00         |                  |
|   | 18.8.3    | 20 mm nominal outer dia Pipes  | 9    | metre | 627.25    | 5,645.25         |                  |
|   | 18.8.4    | 25 mm nominal outer dia Pipes  | 3    | metre | 739.30    | 2,217.90         |                  |
| 2.3   | 18.17     | Providing and fixing gun metal gate valve with C.I. wheel of approved quality (screwed end) :  |      |       |           |                  |                  |
|   | 18.17.1A  | 20 mm dia. nominal bore  | 2    | each  | 539.95    | 1,079.90         |                  |
|   | 18.17.1   | 25 mm dia. nominal bore  | 2    | each  | 622.40    | 1,244.80         |                  |
|   | 18.17.2   | 32 mm dia. nominal bore  | 0    | each  | 689.60    | -                |                  |
|   | 18.17.3   | 40 mm dia. nominal bore  | 0    | each  | 826.10    | -                |                  |
|   | 18.17.4   | 50 mm dia. nominal bore  | 0    | each  | 1,026.65  | -                |                  |

| ESTIMATE OF FOR CONSTRUCTION OF ADDITIONAL DORMITORY & STAFF QUARTERS AT JNV KUPWARA, JAMMU AND KASHMIR |           |   |       |           |           |                  |                  |
|---|-----------|---|-------|-----------|-----------|------------------|------------------|
| PLUMBING INTERNAL ESTIMATE (Guest House )   |           |   |       |           |           |                  |                  |
| S.No.   | DSR '23   | Description   | Qty.  | Unit      | Rate      | Amount           |                  |
| 2.4   | 18.18     | Providing and fixing ball valve (brass) of approved quality, High or low pressure, with plastic floats complete :   |       |           |           |                  |                  |
|   | 18.18.3   | 25 mm nominal bore  |       | each      | 464.05    |                  |                  |
| 2.5   | NSI-13    | Providing and fixing hand held ablation fitting (health faucet) with 1.2 meter long flexible tube and wall hook, all complete approved engineer-in-charge   | 2     | each      | 2,373.00  |                  | 4,746.00         |
| 2.6   | NSI-14    | Supply and fixing of 15mm CP brass 2 -Way Bib Cock with wall flange and suitable length CP brass extension pipe all of approved engineer-in-charge  | 2     | each      | 2,654.00  |                  | 5,308.00         |
| 2.7   | 18.48     | Providing and placing on terrace (at all floor levels) polyethylene water storage tank, IS : 12701 marked, with cover and suitable locking arrangement and making necessary holes for inlet, outlet and overflow pipes but without fittings and the base support for tank   | 1,000 | per litre | 11.00     | 11,000.00        |                  |
| 2.8   | 18.51     | Providing and fixing C.P. brass long nose bib cock of approved quality conforming to IS standards and weighing not less than 810 gms.   |       |           |           |                  |                  |
|   | 18.51.1   | 15 mm nominal bore  |       | each      | 796.95    |                  |                  |
| 2.9   | 18.52     | Providing and fixing C.P. brass stop cock (concealed) of standard design and of approved make conforming to IS:8931.  |       |           |           |                  |                  |
|   | 18.52.1   | 15 mm nominal bore  |       |           | 670.45    |                  |                  |
| 2.10  | 18.53     | Providing and fixing C.P. brass angle valve for basin mixer and geyser points of approved quality conforming to IS:8931   |       |           |           |                  |                  |
|   | 18.53.1   | 15mm nominal bore   | 10    | each      | 574.30    | 5,743.00         |                  |
| 2.11  | 18.21     | Providing and fixing uplasticised PVC connection pipe with brass unions :   |       |           |           |                  |                  |
|   | 18.21.2   | 45 cm length  |       |           |           |                  |                  |
|   | 18.21.2.1 | 15 mm nominal bore  | 10    | each      | 97.75     | 977.50           |                  |
| 2.12  | 18.22     | Providing and fixing C.P. brass shower rose with 15 or 20 mm inlet :  |       |           |           |                  |                  |
|   | 18.22.2   | 150 mm diameter   | 0     | each      | 222.35    | -                |                  |
| 2.13  | 17.22B    | Providing and fixing CP Brass Single lever telephonic wall mixer of quality & make as approved by Engineer in charge.   |       |           |           |                  |                  |
|   |           | (a) 15 mm nominal dia   | 2     | each      | 6,940.75  | 13,881.50        |                  |
| 2.14  | NSI-15    | Providing , Fixing, testing and commissioning of CP Brass 150 mm x 150 mm Shower head with wall flange with all accessories as required and making good the walls wherever required. ( MAKE-JAQUAR - Model No- OHS-35495 or EQUIVALENT.)  | 1     | each      | 4,875.00  |                  | 4,875.00         |
| 2.15  | NSI-16    | Supply ,Erection , Testing & Commissioning of Automatic water level control panel & related accessories for pumping automation with consisting of automatic water level controller , level sensor with stainless steel probe, motorized butterfly valve, motorized valve controller with complete in all respect. |       |           |           |                  |                  |
|   | a         | upto 50 mm dia. nominal bore  | 1     | each      | 26,947.00 |                  | 26,947.00        |
|   |           | <b>TOTAL</b>  |       |           |           | <b>60,390.85</b> | <b>41,876.00</b> |

| ESTIMATE OF FOR CONSTRUCTION OF ADDITIONAL DORMITORY & STAFF QUARTERS AT<br>JNV KUPWARA, JAMMU AND KASHMIR |  |                      |                  |
|--|--|----------------------|------------------|
| SUMMARY SHEET OF Guest House Electrical Work   |  |                      |                  |
| Sl.No.   | Name of Work                           | TOTAL AMOUNT(IN RS.) |                  |
|  |  | DSR-2022             | MR               |
|  |  |                      |                  |
| I  | SUB HEAD - I: CIRCUIT CUM POINT WIRING | 144,713.00           | -                |
| II   | SUBHEAD -II - FITTINGS & FIXTURES      | 10,920.00            | 13,741.84        |
| III  | SUBHEAD - III - DISTRIBUTION BOARDS    | 16,765.00            | -                |
| IV   | SUB HEAD-IV , LIGHTNING CONDUCTOR      | 23,257.00            |                  |
|  | <b>TOTAL</b>                           | <b>195,655.00</b>    | <b>13,741.84</b> |
|  | <b>Say in lacs</b>                     | <b>1.96</b>          | <b>0.14</b>      |

| ESTIMATE OF FOR CONSTRUCTION OF ADDITIONAL DORMITORY & STAFF QUARTERS AT JNV KUPWARA, JAMMU AND KASHMIR |              |  |       |     |          |           |           |     |
|---|--------------|--|-------|-----|----------|-----------|-----------|-----|
| Detailed Estimate for ELECTRICAL Works GUEST HOUSE  |              |  |       |     |          |           |           |     |
| S.No.   | DSR-2022/NSI | Description  | Unit  | Qty | Rate     |           | Amount    |     |
|   |              |  |       |     | DSR-2022 | NSI       | DSR-2022  | NSI |
|   |              | <b>SUB HEAD - I: CIRCUIT CUM POINT WIRING</b>  |       |     |          |           |           |     |
|   |              | <b>SWITCH CONTROL LIGHT POINTS</b>   |       |     |          |           |           |     |
| 1   | DSR 1.10     | Wiring for light point/ fan point/ exhaust fan point/ call bell point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable in surface / recessed medium class PVC conduit, with modular switch, modular plate, suitable GI box and earthing the point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable etc. as required.   |       |     |          |           |           |     |
| 1.1   | DSR 1.10.3   | Group C  | Point | 21  | 1,467.00 |           | 30,807.00 |     |
| 2   | DSR-1.55     | Wiring for group controlled (looped) light point/fan point/exhaust fan point/ call bell point (without Independent switch etc.) with 1.5 sq. mm FRLS PVC insulated copper conductor single core cable in surface/ recessed PVC conduit, and earthing the point with 1.5 sq. mm FRLS PVC insulated copper conductor single core cable etc as required. (Switch Control Secondary Points)  | Point | 2   | 858.00   |           | 1,716.00  |     |
| 2.1   | DSR-1.55.3   | Group C  |       |     |          |           |           |     |
| 3   | DSR-1.3      | Wiring for light point/ fan point/ exhaust fan point/ call bell point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable in surface / recessed steel conduit, with modular switch, modular plate, suitable GI box and earthing the point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable etc. as required. (Switch Control Primary Points)  |       |     |          |           |           |     |
| 3.1   | DSR-1.3.3    | Group C  | Point | 0   | 1,845.00 |           | -         |     |
| 4   | DSR-1.54     | Wiring for group controlled (looped) light point/fan point/exhaust fan point/ call bell point (without Independent switch etc.) with 1.5 sq. mm FRLS PVC insulated copper conductor single core cable in surface/ recessed steel conduit, and earthing the point with 1.5 sq. mm FRLS PVC insulated copper conductor single core cable etc as required. (Switch Control Secondary Points)  |       |     |          |           |           |     |
| 4.1   | DSR-1.54.3   | Group C  | Point | 0   | 1,094.00 |           | -         |     |
|   |              | <b>MCB CONTROL LIGHT POINTS</b>  |       |     |          |           |           |     |
| 5   | NSI-1        | Wiring for light point/ fan point/ exhaust fan point/ call bell point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable in surface / recessed steel conduit, with modular switch, modular plate, suitable GI box and earthing the point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable etc. as required. (Switch Control Primary Points)  |       |     |          |           |           |     |
| 5.1   | NSI-1.1      | Primary point controlled by one MCB.   | Point | 0   |          | 1,523.13  | -         |     |
| 5.2   | NSI-1.2      | Same as item above but Secondary point. i.e. Points to be looped with Primary point with 2.5 sqmm wire and Point wiring  | Point | 0   |          | 1,354.89  | -         |     |
| 6   | DSR 1.5      | Wiring for light/ power plug with 2X4 sq. mm FRLS PVC insulated copper conductor single core cable in surface/ recessed steel conduit alongwith 1 No. 4 sq. mm FRLS PVC insulated copper conductor single core cable for loop earthing as required.  | Metre | 30  | 433.00   |           | 12,990.00 |     |
| 7   | DSR 1.7      | Wiring for circuit/ submain wiring alongwith earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface/ recessed steel conduit as required.   |       |     |          |           |           |     |
| 7.1   | DSR 1.7.1    | 2 X 1.5 sq. mm + 1 X 1.5 sq. mm earth wire   | Metre | 0   | 327.00   |           | -         |     |
| 7.2   | DSR 1.7.2    | 2 X 2.5 sq. mm + 1 X 2.5 sq. mm earth wire   | Metre | 90  | 369.00   |           | 33,210.00 |     |
| 7.3   | DSR 1.7.4    | 2 X 6 sq. mm + 1 X 6 sq. mm earth wire   | Metre | 45  | 589.00   |           | 26,505.00 |     |
| 7.4   | DSR 1.7.5    | 2 x 10 sq. mm + 1 x 10 sq.mm earth wire  | Metre | 0   | 710.00   |           | -         |     |
| 7.5   | DSR 1.7.10   | 4 X 10 sq. mm + 2 X 6 sq. mm earth wire  | Metre | 25  | 1,166.00 |           | 29,150.00 |     |
| 7.6   | DSR 1.7.11   | 4 X 16 sq. mm + 2 X 6 sq. mm earth wire  | Metre | 0   | 1,645.00 |           | -         |     |
| 8   | DSR 1.31     | Supplying and fixing suitable size GI box with modular plate and cover in front on surface or in recess including providing and fixing 3 pin 5/6 Amp modular socket outlet and 5/6 A modular switch, connection etc. as required.  | Each  | 6   | 477.00   |           | 2,862.00  |     |
| 9   | NSI-2        | Supply and Wiring for 250 volts single phase and neutral 2 Nos 6 amps socket outlate with control by 1 No switched with 2.5 sq.mm PVC insulated copper conductor 1100 volts grade stranded flexible FRLS wires in concealed or surface mounted 25 mm dia 2mm thick PVC conduit including providing and fixing of 6 amps 3 pin switch socket outlet of approved make and design in 2 mm thick GI box with grid plate and earthing of third pin of the socket with 2.5 Sq. mm PVC insulated copper conductor stranded flexible FRLS wire.(maximum four no. of switches socket shall be connected on one circuit) | Each  | 0   |          | 1,781.84  | -         |     |
| 10  | DSR 1.32     | Supplying and fixing suitable size GI box with modular plate and cover in front on surface or in recess, including providing and fixing 6 pin 5/6 & 15/16 A modular socket outlet and 15/16 A modular switch, connections etc. as required.  | Each  | 6   | 586.00   |           | 3,516.00  |     |
| 11  | NSI-3        | Supplying and fixing 63 A, 415 V, TPN Industrial type socket outlet, with 4 pole and earth, metal enclosed plug top alongwith 63 A "C" curve, TPMCB, in sheet steel enclosure, on surface or in recess, with chained metal cover for the socket outlet and complete with connections, testing and commissioning etc. as required.  | Each  | 0   |          | 11,284.98 | -         |     |
| 12  | NSI-4        | Supplying and fixing 80 A, 415 V, TPN Industrial type socket outlet, with 4 pole and earth, metal enclosed plug top alongwith 80 A "C" curve, TPMCB, in sheet steel enclosure, on surface or in recess, with chained metal cover for the socket outlet and complete with connections, testing and commissioning etc. as required.  | Each  | 0   |          | 17,343.23 | -         |     |
| 13  | DSR-1.33     | Supplying and fixing 3 pin, 5 A ceiling rose on the existing junction box/ wooden block including connections etc. as required.  | Each  | 2   | 87.00    |           | 174.00    |     |
| 14  | DSR-1.57     | Supplying & fixing suitable size GI box wih modular plate and cover in front on surface or in recess i/c providing and fixing 25 amp modular socket outlet and 25 Amps modular SP MCB, "C" curve including connection, painting etc. as required. (AC's & Gysers)  | Each  | 5   | 727.00   |           | 3,635.00  |     |
| 15  | DSR 1.24     | Supplying and fixing following modular switch/ socket on the existing modular plate & switch box including connections but excluding modular plate etc. as required.   |       |     |          |           |           |     |
| 15.1  | DSR 1.24.6   | Telephone socket outlet  | Nos   | 1   | 148.00   |           | 148.00    |     |
| 16  | DSR 1.27     | Supplying and fixing following size/ modules, GI box alongwith modular base & cover plate for modular switches in recess etc. as required.   |       |     |          |           |           |     |
| 16.1  | DSR 1.27.1   | 1 or 2 Module (75mmX75mm)  | Nos   | 0   | 298.00   |           | -         |     |
| 16.2  | DSR 1.27.4   | 6 module (78mm X 205 mm X 50 mm)   | Nos   | 0   | 402.00   |           | -         |     |

|      |            |   |      |    |           |           |                   |                  |
|------|------------|---|------|----|-----------|-----------|-------------------|------------------|
| 17   | DSR 1.24   | Supplying and fixing following size/ modules, GI box alongwith modular base & cover plate for modular switches in recess etc. as required.  |      |    |           |           |                   |                  |
| 17.1 | DSR 1.24.4 | 3 pin , 5/6 amps socket outlet  | Each | 0  | 122.00    |           | -                 |                  |
| 17.1 | DSR 1.24.1 | 5/6 amps switch   | Each | 0  | 103.00    |           | -                 |                  |
| 18   | DSR 1.21   | Supplying and fixing of following sizes of medium class PVC conduit along with accessories in surface/recess including cutting the wall and making good the same in case of recessed conduit as required.   |      |    |           |           |                   |                  |
| 18.1 | DSR 1.21.2 | 25 mm   | Mtr  | 0  | 145.00    |           | -                 |                  |
| 18.2 | DSR 1.21.3 | 32 mm   | Mtr  | 0  | 184.00    |           | -                 |                  |
|      |            | <b>TOTAL CARRIED TO SUMMARY FOR SUBHEAD - I</b>   |      |    |           |           | <b>144,713.00</b> | <b>-</b>         |
|      |            | <b>SUBHEAD -II - FITTINGS &amp; FIXTURES</b>  |      |    |           |           |                   |                  |
| 1    | NSI-1      | Supply, Installation, Testing and Commissioning of 10 W Bulk head Light.  | Each | 0  |           | 1,158.20  | -                 |                  |
| 2    | NSI-2      | Supply, Installation, Testing and Commissioning of 5W Mirror Light.   | Each | 2  |           | 445.46    |                   | 890.92           |
| 3    | NSI-3      | Supply, Installation, Testing and Commissioning of 18W Surface/Recessed Mounted LED circular Downlighter.   | Each | 0  |           | 1,470.02  | -                 |                  |
| 4    | NSI-4      | Supply, Installation, Testing and Commissioning of 18/20W Wall/Surface mouted 4 ft. LED   | Each | 3  |           | 1,336.38  |                   | 4,009.14         |
| 5    | NSI-5      | Supply, Installation, Testing and Commissioning of 15W Surface mounted LED Square Downlighter.  | Each | 2  |           | 1,380.93  |                   | 2,761.85         |
| 6    | NSI-6      | Supply, Installation, Testing and Commissioning of 150 W CHANDELIER   | Each | 0  |           | 89,091.94 | -                 |                  |
| 7    | NSI-7      | Supply, Installation, Testing and Commissioning of 12/9W Recessed mounted LED circular Downlighter.   | Each | 0  |           | 1,069.10  | -                 |                  |
| 8    | NSI-8      | Supply, Installation, Testing and Commissioning of 9W (Nominal) Wall Bracket Light  | Each | 7  |           | 222.73    |                   | 1,559.11         |
| 9    | DSR 1.21   | Supply, Installation, Testing and Commissioning of 1200 mm sweep, BEE 5 star rated, ceiling fan with Brush Less Direct Current (BLDC) Motor, class of insulation: B, 3 nos. blades, 30 cm long down rod, 2nos. canopies, shackle kit, safety rope, copper winding, Power Factor not less than 0.9, Service Value (CM/M/W) minimum 6.00, Air delivery minimum 210 Cum/Min , 350 RPM (tolerance as per IS : 374-2019),THD less than 10%, remote or electronic regulator unit for speed control and all remaining accessories including safety pin, nut bolts, washers, temperature rise=75 degree C (max.), insulation resistance more than 2 mega ohm, suitable for 230 V, 50 Hz, single phase AC Supply earthing etc. complete as required. | Each | 4  | 2,730.00  |           | 10,920.00         | -                |
| 10   | NSI-9      | Supply Installation, Testing and Commissioning of 250 mm dia Domestic Exhaust Fan   | Each | 2  |           | 2,260.41  |                   | 4,520.82         |
|      |            | <b>TOTAL CARRIED TO SUMMARY FOR SUBHEAD - II</b>  |      |    |           |           | <b>10,920.00</b>  | <b>13,741.84</b> |
|      |            | <b>SUBHEAD - III - DISTRIBUTION BOARDS</b>  |      |    |           |           |                   |                  |
| 1    | DSR 2.3    | Supplying and fixing following way, single pole and neutral, sheet steel, MCB distribution board, 240 V, on surface/ recess, complete with tinned copper bus bar, neutral bus bar, earth bar, din bar, interconnections, powder painted including earthing etc. as required. (But without MCB/RCCB/Isolator)  |      |    |           |           |                   |                  |
| 1.1  | DSR 2.3.1  | 6 way, Double door  | Each | 0  | 2,206.00  |           | -                 |                  |
| 1.2  | DSR 2.3.2  | 8 way, Double door  | Each | 0  | 2,573.00  |           | -                 |                  |
| 1.3  | DSR 2.3.3  | 12 way, Double door   | Each | 0  | 2,315.00  |           | -                 |                  |
| 2    | DSR 2.4    | Supplying and fixing following way, three pole and neutral, sheet steel, MCB distribution board, 415 volts, on surface/ recess complete with tinned copper busbar, neutral busbar, earth bar, din bar, detachable gland plate, interconnections, phosphatized and powder painted including earthing etc. as required. (But without MCB/ RCCB/ Isolator)   |      |    |           |           |                   |                  |
| 2.1  | DSR 2.4.1  | 4 way (4 + 12), Double door   | Each | 0  | 4,091.00  |           | -                 |                  |
| 2.2  | DSR 2.4.2  | 6 way (4 + 18), Double door   | Each | 1  | 4,974.00  |           | 4,974.00          |                  |
| 2.3  | DSR 2.4.3  | 8 way (4 + 24), Double door   | Each | 0  | 5,967.00  |           | -                 |                  |
| 3    | DSR 2.5    | Supplying and fixing of following ways surface/ recess mounting, vertical type, 415 V, TPN MCB distribution board of sheet steel, dust protected, duly powder painted, inclusive of 200 A tinned copper bus bar, common neutral link, earth bar, din bar for mounting MCBs (but without MCBs and incomer) as required . (Note :Vertical type MCB TPDB is normally used where 3 phase outlets are required.)   |      |    |           |           |                   |                  |
| 3.1  | DSR 2.5.3  | 12 way (4 + 36), Double door  | Each | 0  | 12,833.00 |           | -                 |                  |
| 4    | DSR 2.10   | Supplying and fixing 5 A to 32 A rating, 240/415 V, 10 kA, "C" curve, miniature circuit breaker suitable for inductive load of following poles in the existing MCB DB complete with connections, testing and commissioning etc. as required.  |      |    |           |           |                   |                  |
| 4.1  | 2.10.1     | Single Pole   | Each | 12 | 256.00    |           | 3,072.00          |                  |
| 4.2  | 2.10.2     | Single Pole Neutral   | Each | 0  | 599.00    |           | -                 |                  |
| 5    | DSR 2.12   | Supplying and fixing following rating, double pole, 240 V, isolator in the existing MCB DB complete with connections, testing and commissioning etc. as required.   |      |    |           |           |                   |                  |
| 5.1  | DSR 2.12.1 | 40 A  | Each | 0  | 435.00    |           | -                 |                  |
| 5.2  | DSR 2.12.2 | 63 A  | Each | 1  | 527.00    |           | 527.00            |                  |
| 6    | DSR 2.13   | Supplying and fixing following rating, four pole, 415 V, isolator in the existing MCB DB complete with connections, testing and commissioning etc. as required.   |      |    |           |           |                   |                  |
| 6.1  | DSR 2.13.1 | 25 A  | Each | 0  | 970.00    |           | -                 |                  |
| 6.1  | DSR 2.13.1 | 40 A  | Each | 0  | 970.00    |           | -                 |                  |
| 6.2  | DSR 2.13.2 | 63 A  | Each | 0  | 1,034.00  |           | -                 |                  |
| 7    | DSR 2.14   | Supplying and fixing following rating, double pole, (single phase and neutral), 240 V, residual current circuit breaker (RCCB), having a sensitivity current 30 mA in the existing MCB DB complete with connections, testing and commissioning etc. as required.  |      |    |           |           |                   |                  |
| 7.1  | DSR 2.14.1 | 25 A  | Each | 0  | 2,028.00  |           | -                 |                  |
| 7.2  | DSR 2.14.2 | 40 A  | Each | 0  | 2,642.00  |           | -                 |                  |
| 7.3  | DSR 2.14.3 | 63 A  | Each | 3  | 2,722.00  |           | 8,166.00          |                  |
| 8    | DSR 2.11   | Supplying and fixing single pole blanking plate in the existing MCB DB complete etc. as required.   | Each | 2  | 13.00     |           | 26.00             |                  |

|           |      |   |       |      |          |  |                  |          |
|-----------|------|---|-------|------|----------|--|------------------|----------|
|           |      |   |       |      |          |  |                  |          |
|           |      | <b>TOTAL CARRIED TO SUMMARY FOR SUBHEAD - III</b>   |       |      |          |  | <b>16,765.00</b> | <b>-</b> |
| <b>VI</b> |      | <b>SUB HEAD-IV , LIGHTNING CONDUCTOR</b>  |       |      |          |  |                  |          |
|           |      | <b>LIGHTNING CONDUCTOR</b>  |       |      |          |  |                  |          |
| 1         | 6.2  | Providing and fixing of lightning conductor finial, made of 25 mm dia 300 mm long, G.I. tube, having single prong at top, with 85 mm dia 6 mm thick G.I. base plate including holes etc. complete as required.  | Each  | 2.0  | 518.00   |  | 1,036.00         |          |
| 2         | 6.3  | Fixing of lightning conductor finial (single prong) with base plate including holes etc. complete as required.  | Each  | 2.0  | 360.00   |  | 720.00           |          |
| 3         | 6.4  | Jointing copper / G.I. tape (with another copper/ G I tape, base of the finial or any other metallic object) by riveting / nut bolting/ sweating and soldering etc as required.   | Metre | 5.0  | 113.00   |  | 565.00           |          |
| 4         | 6.7  | Providing and fixing G.I. tape 20 mm X 3 mm thick on parapet or surface of wall for lightning conductor complete as required.(For horizontal run)   | Metre | 40.0 | 126.00   |  | 5,040.00         |          |
| 5         | 6.8  | Providing and fixing G.I. tape 20 mm X 3 mm thick on parapet or surface of wall for lightning conductor complete as required.(For vertical run)   | Metre | 20.0 | 197.00   |  | 3,940.00         |          |
| 6         | 6.10 | Fixing of copper/ G.I. tape 20 mm X 3 mm thick on parapet or surface of wall for lightning conductor complete as required.(For vertical run)  | Metre | 10.0 | 162.00   |  | 1,620.00         |          |
| 7         | 6.12 | Providing and fixing testing joint, made of 20 mm X 3 mm thick G.I. strip, 125 mm long, with 4 nos. of G.I. bolts, nuts, chuck nuts and spring washers etc. complete as required.   | Each  | 12.0 | 121.00   |  | 1,452.00         |          |
| 8         | 5.4  | Earthing with G.I. earth plate 600 mm X 600 mm X 6 mm thick including accessories, and providing masonry enclosure with cover plate having locking arrangement and watering pipe of 2.7 metre long etc. with charcoal/ coke and salt as required. Details of cost for one Set | Each  | 1.0  | 7,472.00 |  | 7,472.00         |          |
| 9         | 5.11 | Providing and fixing 25 mm X 5 mm G.I. strip in 40 mm dia G.I. pipe from earth electrode including connection with G.I. nut, bolt, spring, washer excavation and re-filling etc. as required.   | Metre | 2.0  | 706.00   |  | 1,412.00         |          |
|           |      | <b>TOTAL SUB HEAD (VI)</b>  |       |      |          |  | <b>23,257.00</b> |          |
|           |      |   |       |      |          |  |                  |          |
|           |      |   |       |      |          |  |                  |          |

## ESTIMATE OF FOR CONSTRUCTION OF ADDITIONAL DORMITORY & STAFF QUARTERS AT JNV KUPWARA, JAMMU AND KASHMIR

## COST OF DEVELOPEMNT WORK

| S.N. | DSR-23 | Description            | Qty      | Unit | Rate     | Amount<br>on DSR-2023<br>( In RS.) | Amount<br>on Non-DSR<br>( In RS.) |
|------|--------|------------------------|----------|------|----------|------------------------------------|-----------------------------------|
| 1    |        | Cost of CC Road        |          |      |          |                                    |                                   |
| 1.1  | AOR    | Earth Filling for Road |          |      |          | 73,713.62                          |                                   |
| 1.2  | AOR    | Cost of CC Road        | 1,208.17 | Sqm  | 3,569.06 | 4,312,013.37                       |                                   |
|      |        |                        |          |      |          |                                    |                                   |
|      |        |                        |          |      |          | 4,385,726.99                       |                                   |
|      |        |                        |          |      |          |                                    |                                   |
| 1    | AOR    | Cost of CC PATHWAY     | 1,047.30 | Sqm  | 2,613.00 | 2,736,594.90                       |                                   |
|      |        |                        |          |      |          |                                    |                                   |
|      |        |                        |          |      |          |                                    |                                   |
|      |        |                        |          |      |          |                                    |                                   |
|      |        |                        |          |      |          |                                    |                                   |
|      |        |                        |          |      |          |                                    |                                   |



| ESTIMATE OF FOR CONSTRUCTION OF ADDITIONAL DORMITORY & STAFF QUARTERS AT<br>JNV KUPWARA, JAMMU AND KASHMIR |   |              |               |      |                  |                     |
|--|---|--------------|---------------|------|------------------|---------------------|
| Analysis for Road Earth Filling  |   |              |               |      |                  |                     |
| S.N.   | DESCRIPTION OF ITEM   | DSR-<br>2023 | QTY           | UNIT | RATE<br>(In Rs.) | AMOUNT<br>( In Rs.) |
| 1  | Excavating, supplying and filling of local earth (including royalty) by mechanical transport upto a lead of 5km also including ramming and watering of the earth in layers not exceeding 20 cm in trenches, plinth, sides of foundation etc. complete | 2.25a        |               |      |                  |                     |
|  | Near By Type 2, Type-3,Boys and Girls Dormitory   |              | 3.63          |      |                  |                     |
|  | -   |              | 19.44         |      |                  |                     |
|  | -   |              | 15.92         |      |                  |                     |
|  |   |              | 13.14         |      |                  |                     |
|  | -   |              | 13.09         |      |                  |                     |
|  |   |              | 40.01         |      |                  |                     |
|  |   |              |               |      |                  |                     |
|  |   |              | <b>105.23</b> | Cum  | 700.50           | 73,713.62           |
|  |   |              |               |      |                  |                     |
|  |   |              |               |      |                  | <b>73,713.62</b>    |
|  |   |              |               |      |                  |                     |

| S.N.  | DESCRIPTION OF ITEM  | DSR-2023 | QTY   | UNIT | RATE (In Rs.) | AMOUNT (In Rs.) |
|---|--|----------|-------|------|---------------|-----------------|
| <b>CONSTRUCTION OF ADDITIONAL DORMITORY &amp; STAFF QUARTERS AT JNV KUPWARA, JAMM</b> |  |          |       |      |               |                 |
| <b>Analysis of Road 10.00 mtr Length 3.50 mtr wide</b>                                |  |          |       |      |               |                 |
| 1   | Preparation and consolidation of sub grade with power road roller of 8 to 12 tonne capacity after excavating earth to an average of 22.5 cm depth, dressing to camber and consolidating with road roller including making good the undulations etc. and re-rolling the sub grade and disposal of surplus earth with lead upto 50 metres.                     | 16.1     | 35.00 |      |               |                 |
|   |  |          | 35.00 | Sqm  | 218.90        | 7,661.50        |
| 2   | Earth work in excavation by mechanical means (Hydraulic excavator) /manual means in foundation trenches or drains (not exceeding 1.5 m in width or 10 sqm on plan), including dressing of sides and ramming of bottoms, lift upto 1.5 m, including getting out the excavated soil and disposal of surplus excavated soil as directed, within a lead of 50 m. | 2.8      |       |      |               |                 |
|   | All kinds of soil.   | 2.8.1    | 1.02  |      |               |                 |
|   |  |          | 1.02  | Cum  | 260.30        | 265.51          |
| 3   | Supplying and stacking at site.  | 16.3     |       |      |               |                 |
|   | 90 mm to 45 mm size stone aggregate  | 16.3.1   | 4.55  |      |               |                 |
|   |  |          | 4.55  | Cum  | 2,098.40      | 9,547.72        |
| 4   | 63 mm to 45 mm size stone aggregate  | 16.3.2   | 3.50  |      |               |                 |
|   |  |          | 3.50  | Cum  | 1,636.05      | 5,726.18        |
| 5   | stone screening 13.2 mm nominal size   | 16.3.6   | 0.35  |      |               |                 |
|   |  |          | 0.35  |      |               |                 |
|   |  |          | 0.70  | Cum  | 2,034.35      | 1,424.05        |
| 6   | Red bajri  | 16.3.8   | 0.35  |      |               |                 |
|   |  |          | 0.32  |      |               |                 |
|   |  |          | 0.67  | Cum  | 1,564.90      | 1,048.48        |
| 7   | Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level :   | 4.1      |       |      |               |                 |
|   | 1:5:10 (1 cement : 5 coarse sand (zone-III): 10 graded stone aggregate 40 mm nominal size)   | 4.1.10   | 0.45  |      |               |                 |
|   |  |          | 0.45  | Cum  | 6,518.60      | 2,933.37        |

| S.N. | DESCRIPTION OF ITEM   | DSR-2023 | QTY  | UNIT | RATE (In Rs.) | AMOUNT (In Rs.) |
|------|---|----------|------|------|---------------|-----------------|
| 8    | Laying, spreading and compacting stone aggregate of specified sizes to WBM specifications in uniform thickness, hand picking, rolling with 3 wheeled road / vibratory roller 8-10 tonne capacity in stages to proper grade and camber, applying and brooming requisite type of screening / binding material to fill up interstices of coarse aggregate, watering and compacting to the required density .   | 16.4     |      |      |               |                 |
|      | Qty same as 63-45 mm size Stone Aggregate   |          | 3.50 |      |               |                 |
|      | Qty same as 90-45 mm size Stone Aggregate   |          | 4.55 |      |               |                 |
|      |   |          | 8.05 | Cum  | 1,046.95      | 8,427.95        |
| 9    | Providing and laying at or near ground level factory made kerb stone of M-25 grade cement concrete in position to the required line, level and curvature, jointed with cement mortar 1:3 (1 cement: 3 coarse sand), including making joints with or without grooves (thickness of joints except at sharp curve shall not to more than 5mm), including making drainage opening wherever required complete etc. as per direction of Engineer-in-charge (length of finished kerb edging shall be measured for payment). (Precast C.C. kerb stone shall be approved by Engineer-in charge). | 16.69    | 1.35 |      |               |                 |
|      |   |          | 1.35 | Cum  | 10,117.60     | 13,658.76       |
|      |   |          |      |      |               |                 |
|      |   |          |      |      |               |                 |
| 10   | Providing and laying C.C. pavement of mix M-25 with ready mixed concrete from batching plant. The ready mixed concrete shall be laid and finished with screed board vibrator , vacuum dewatering process and finally finished by floating, brooming with wire brush etc. complete as per specifications and directions of Engineer-incharge. (The panel shuttering work shall be paid for separately). (Note:- Cement content considered in this item is @ 330 kg/cum. Excess/less cement used as per design mix is payable/ recoverable separately).                                   | 16.75    |      |      |               |                 |
|      |   |          | 5.25 |      |               |                 |
|      |   |          | 5.25 | Cum  | 9,823.80      | 51,574.95       |
|      |   |          |      |      |               |                 |
| 11   | Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete upto plinth level.  | 5.22     |      |      |               |                 |

| S.N. | DESCRIPTION OF ITEM  | DSR-2023 | QTY    | UNIT | RATE<br>(In Rs.) | AMOUNT<br>( In Rs.) |
|------|--|----------|--------|------|------------------|---------------------|
|      | Thermo-Mechanically Treated bars of grade Fe-500D or more. | 5.22.6   | 210.00 |      |                  |                     |
|      |  |          | 210.00 | Cum  | 107.85           | 22,648.50           |
|      | <b>Total Cost for 35.00 Sqm</b>                            |          |        |      |                  | <b>124,916.97</b>   |
|      | <b>Cost For Per Sqm Area</b>                               |          |        |      |                  | <b>3,569.06</b>     |

ESTIMATE OF FOR CONSTRUCTION OF ADDITIONAL DORMITORY & STAFF QUARTERS AT JNV KUPWARA,  
JAMMU AND KASHMIR

### Analysis of 10 mtr Length and 2.00 mtr. width. Pathway

[illegible]

| Sl.<br>No. | DESCRIPTION OF ITEM | DSR-<br>2023 | QTY | UNIT | RATE<br>(In Rs.) | AMOUNT<br>( In Rs.) |
|------------|---------------------|--------------|-----|------|------------------|---------------------|
|            |                     |              |     |      |                  |                     |

| ESTIMATE OF FOR CONSTRUCTION OF ADDITIONAL DORMITORY & STAFF<br>QUARTERS AT JNV KUPWARA, JAMMU AND KASHMIR |                                       |        |      |              |                     |
|--|---------------------------------------|--------|------|--------------|---------------------|
| <u>BILL OF QUANTITY FOR INTERNAL DRAIN</u>   |                                       |        |      |              |                     |
| S.N.   | DESCRIPTION OF ITEM                   | QTY    | UNIT | RATE RS.     | AMOUNT RS.          |
|  | <b>APRON DRAIN</b>                    |        |      |              |                     |
| 1  | COST FOR DRAIN 230mm X 300mm<br>depth | 435.00 | Rm   | 2,319.95     | 1,009,180.21        |
|  |                                       |        |      |              |                     |
|  | <b>EXTERNAL DRAIN</b>                 |        |      |              |                     |
| 1  | COST FOR DRAIN 300mm X 450mm<br>depth | 68.00  | Rm   | 3,692.11     | 251,063.45          |
|  |                                       |        |      |              |                     |
|  |                                       |        |      | <b>TOTAL</b> | <b>1,260,243.65</b> |
|  |                                       |        |      |              |                     |

# ESTIMATE OF FOR CONSTRUCTION OF ADDITIONAL DORMITORY & STAFF QUARTERS AT JNV KUPWARA, JAMMU AND KASHMIR

## Analysis of Rate for Drain (230mm x 300mm)

| S.N. | DSR-23 | Description  | Qty         | Unit       | Rate     | Amount          |
|------|--------|--|-------------|------------|----------|-----------------|
|      |        |  |             |            |          |                 |
| 1    | 2.8    | Earth work in excavation by mechanical means (Hydraulic excavator) / manual means in foundation trenches or drains (not exceeding 1.5 m in width or 10 sqm on plan) including dressing of sides and ramming of bottoms, lift upto 1.5 m, including getting out the excavated soil and disposal of surplus excavated soil as directed, within a lead of 50 m. |             |            |          |                 |
|      | 2.8.1  | All kinds of soil.   | 0.62        |            |          |                 |
|      |        |  | 0.62        | Cum        | 260.30   | 161.39          |
|      |        |  |             |            |          |                 |
| 2    | 2.25   | Filling available excavated earth (excluding rock) in trenches, plinth, sides of foundations etc. in layers not exceeding 20cm in depth, consolidating each deposited layer by ramming and watering, lead up to 50 m and lift upto 1.5 m. (40% of Item No. 1)  | 0.25        | Cum        | 196.00   | 49.00           |
|      |        |  |             |            |          |                 |
| 3    | 4.1    | Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level :   |             |            |          |                 |
|      | 4.1.3  | 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size)   | 0.01        | Cum        |          |                 |
|      |        |  | 0.02        | Cum        |          |                 |
|      |        | <b>Total</b>   | <b>0.03</b> | <b>Cum</b> | 7,878.50 | 236.36          |
|      |        |  |             |            |          |                 |
| 4    | 4.1.10 | 1:5:10 (1 Cement : 5 coarse sand : 10 graded stone aggregate 40 mm nominal size).  | 0.08        | cum        | 6,518.60 | 521.49          |
|      |        |  |             |            |          |                 |
| 5    | 6.1    | Brick work with F.P.S. bricks of class designation 75 in foundation and plinth in:   |             |            |          |                 |
|      | 6.1.2  | Cement mortar 1:6 (1 cement : 6 coarse sand)   | 0.14        |            |          |                 |
|      |        |  | 0.14        | cum        | 7,132.25 | 998.52          |
|      |        |  |             |            |          |                 |
| 6    | 13.7   | 12 mm cement plaster on rough side of single or half brick wall finished with a floating coat of neat cement of mix :  |             |            |          |                 |
|      | 13.7.2 | 1:4 (1 cement: 4 fine sand)  | 0.60        |            |          |                 |
|      |        |  | 0.23        |            |          |                 |
|      |        |  | 0.83        | sqm        | 425.55   | 353.21          |
|      |        |  |             |            |          |                 |
|      |        | <b>Total</b>   |             |            |          | <b>2,319.95</b> |



# ESTIMATE OF FOR CONSTRUCTION OF ADDITIONAL DORMITORY & STAFF QUARTERS AT JNV KUPWARA, JAMMU AND KASHMIR

## Analysis of Rate for Drain (300mm x 450mm)

| S.N. | DSR-23 | Description  | Qty         | Unit       | Rate     | Amount          |
|------|--------|--|-------------|------------|----------|-----------------|
| 1    | 2.8    | Earth work in excavation by mechanical means (Hydraulic excavator) / manual means in foundation trenches or drains (not exceeding 1.5 m in width or 10 sqm on plan) including dressing of sides and ramming of bottoms, lift upto 1.5 m, including getting out the excavated soil and disposal of surplus excavated soil as directed, within a lead of 50 m. |             |            |          |                 |
|      | 2.8.1  | All kinds of soil.   | 1.06        |            |          |                 |
|      |        |  | 1.06        | Cum        | 260.30   | 275.92          |
| 2    | 2.25   | Filling available excavated earth (excluding rock) in trenches, plinth, sides of foundations etc. in layers not exceeding 20cm in depth, consolidating each deposited layer by ramming and watering, lead up to 50 m and lift upto 1.5 m. (40% of Item No. 1)  |             |            |          |                 |
|      |        |  | 0.06        | Cum        |          |                 |
|      |        |  | 0.12        | Cum        |          |                 |
|      |        |  | 0.35        | Cum        |          |                 |
|      |        |  | 0.53        | Cum        | 196.00   | 103.88          |
| 3    | 4.1    | Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level :   |             |            |          |                 |
|      | 4.1.3  | 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size)   | 0.01        | Cum        |          |                 |
|      |        |  | 0.02        | Cum        |          |                 |
|      |        | <b>Total</b>   | <b>0.03</b> | <b>Cum</b> | 7,878.50 | 236.36          |
| 4    | 4.1.10 | 1:5:10 (1 cement : 5 coarse sand : 10 graded stone aggregate 40 mm nominal size)   | 0.12        |            |          |                 |
|      |        |  | 0.12        | cum        | 6,518.60 | 782.23          |
| 5    | 6.1    | Brick work with F.P.S. bricks of class designation 75 in foundation and plinth in:   |             |            |          |                 |
|      | 6.1.2  | Cement mortar 1:6 (1 cement : 6 coarse sand)   | 0.14        |            |          |                 |
|      |        |  | 0.11        |            |          |                 |
|      |        |  | 0.25        | cum        | 7,132.25 | 1,783.06        |
| 6    | 13.7   | 12 mm cement plaster on rough side of single or half brick wall finished with a floating coat of neat cement of mix :  |             |            |          |                 |
|      | 13.7.2 | 1:4 (1 cement: 4 fine sand)  | 0.90        |            |          |                 |
|      |        |  | 0.30        |            |          |                 |
|      |        |  | 1.20        | sqm        | 425.55   | 510.66          |
|      |        | <b>Total</b>   |             |            |          | <b>3,692.11</b> |

# ESTIMATE OF FOR CONSTRUCTION OF ADDITIONAL DORMITORY & STAFF QUARTERS AT JNV KUPWARA, JAMMU AND KASHMIR

## SUMMARY OF COST

| S.NO | NAME OF SUB-HEAD            |                   |          |
|------|-----------------------------|-------------------|----------|
|      |                             | DSR-2023          | NON-DSR  |
|      |                             |                   |          |
| 1    | EXTERNAL WATER SUPPLY       |                   |          |
| a    | EXTERNAL FRESH WATER SUPPLY | 748,897.33        |          |
|      |                             |                   |          |
|      | <b>Total C/F To Summary</b> | <b>748,897.33</b> | <b>-</b> |
|      |                             |                   |          |
|      |                             |                   |          |

| ESTIMATE OF FOR CONSTRUCTION OF ADDITIONAL DORMITORY & STAFF QUARTERS AT JNV KUPWARA,<br>JAMMU AND KASHMIR |           |  |      |           |           |           |            |      |
|--|-----------|--|------|-----------|-----------|-----------|------------|------|
| EXTERNAL WATER SUPPLY  |           |  |      |           |           |           |            |      |
| S. No  | DSR-2023  | DESCRIPTION  | UNIT | TOTAL QTY | RATE DSR  | RATE NDSR | DSR-2021   | NDSR |
| 1  | 2.1       | Excavating trenches upto 1.5 meter depth in all kind of soil of required width for pipes. including excavation for sockets and dressing of sides ramming of bottoms including getting out the excavated soil & then returning the soil as required, in layers not exceeding 20 cm in depth including consolidating each deposited layer by ramming, watering, etc & disposing of surplus excavated soil as directed within a lead of 50m or as directed at site by engg-in-charge. |      |           |           |           |            |      |
|  | 2.10.1    | All kinds of soil  |      |           |           |           |            |      |
|  | 2.10.1.1  | Pipes, cables etc, not exceeding 80 mm dia.  | Rmt  | 344.40    | 215.60    |           | 74,252.64  |      |
| 2  | 18.09     | Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply including all CPVC plain & brass threaded fittings. This includes jointing of pipes & fittings with one step CPVC solvent cement, trenching, refilling & testing of joints complete as per direction of Engineer in Charge :<br>External work   |      |           |           |           |            |      |
|  |           | External work  |      |           |           |           |            |      |
|  | 18.9.4    | 32 mm dia nominal bore for horizontal surface for vertical   | Rmt  | 291.83    | 438.60    |           | 127,996.64 |      |
|  | a         | Boys Dormi;- (3.2x4+20)=32.80 meter  | Rmt  | 32.80     | 438.60    |           | 14,386.08  |      |
|  | b         | Type-III (3.2x2+10= 16.40 meter  | Rmt  | 16.40     | 438.60    |           | 7,193.04   |      |
|  | c         | Girls Dormi;- (3.2x2+10)=16.40 meter   | Rmt  | 16.40     | 438.60    |           | 7,193.04   |      |
|  | 18.9.5    | 40 mm dia nominal bore   | Rmt  | 52.57     | 563.05    |           | 29,599.54  |      |
| 3  | 18.19     | Providing and fixing gun metal non- return valve of approved quality (screwed end) :   |      |           |           |           |            |      |
|  | 18.19.3   | 40 mm nominal bore   |      |           |           |           |            |      |
|  | 18.19.3.1 | Horizontal   | Nos  | 2.00      | 952.60    |           | 1,905.20   |      |
| 4  | 18.33     | Construction of Masonary Chamber 60x60x75 inside in Brickwork Cement Mortar 1.6  |      |           |           |           |            |      |
|  | 18.33.1   | With common burnt clay F.P.S.(non modular) bricks of class designation 7.5   | Nos  | 42.00     | 10,862.40 |           | 456,220.80 |      |
| 5  | 18.17     | Providing and fixing gun metal gate valve with C.I. wheel of approved quality (screwed end) :  |      |           |           |           |            |      |
|  | 18.17.2   | 32 mm nominal bore   | Each | 10.00     | 689.60    |           | 6,896.00   |      |
|  | 18.17.3   | 40 mm nominal bore   | Each | 2.00      | 826.10    |           | 1,652.20   |      |
| 6  | 18.46     | Providing and fixing G.I. Union in GI pipe including cutting and threading the pipe and making long screws etc. complete(New work)   |      |           |           |           |            |      |
|  | 18.46.5   | 40 mm nominal bore   | Each | 2.00      | 631.30    |           | 1,262.60   |      |
| 7  | 19.19     | Providing and fixing in position pre-cast R.C.C. manhole cover and frame of required shape and approved quality  |      |           |           |           |            |      |
|  | 19.19.1   | LD- 2.5  |      |           |           |           |            |      |
|  | 19.19.1.1 | Rectangular shape 600*450 mm internal dimensions   | Each | 12.00     | 1,437.65  |           | 17,251.80  |      |
|  |           | TOTAL SECTION  |      |           |           |           | 748,897.33 |      |

| ESTIMATE OF FOR CONSTRUCTION OF ADDITIONAL DORMITORY & STAFF QUARTERS AT<br>JNV KUPWARA, JAMMU AND KASHMIR |          |  |       |        |             |            |
|--|----------|--|-------|--------|-------------|------------|
| ABSTRACT OF EXTERNAL SEWER LINE  |          |  |       |        |             |            |
| S.N.   | DSR-2023 | DESCRIPTION  | UNIT  | QTY    | RATE<br>DSR | AMOUNT     |
| 1  | 2.10     | Excavating trenches of required width for pipes, cable, etc including excavation for sockets and dressing of sides, ramming of bottoms, <b>depth upto 1.50m</b> including getting out the excavated soil & then returning the soil as required, in layers not exceeding 20 cm in depth including consolidating each deposited layer by ramming, watering, etc & disposing of surplus excavated soil as directed within a lead of 50m.  |       |        |             |            |
|  | 2.10.1   | All kinds of soil  |       |        |             |            |
|  | 2.10.1.2 | Pipes cables etc. exceeding 80 mm dia. But not exceeding 300mm dia.  | Mtr   | 256.30 | 352.15      | 90,256.05  |
| 2  | 19.6     | Providing and laying non-pressure NP2 class (light duty) R.C.C. pipes with collars jointed with stiff mixture of cement mortar in the proportion of 1:2 (1 cement : 2 fine sand) including testing of joints etc. complete :   |       |        |             |            |
|  | 19.6.2   | 150 mm dia. R.C.C. pipe  | Mtr   | 133.91 | 556.45      | 74,514.22  |
| 3  | 19.6.3   | 250 mm dia. R.C.C. pipe  | Mtr   | 70.77  | 899.80      | 63,678.85  |
| 4  | 4.1      | Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level :   |       |        |             |            |
|  | 4.1.10   | 1:5:10 (1 cement : 5 coarse sand (zone-III): 10 graded stone aggregate 40 mm nominal size).  | Cum   | 11.37  | 6,518.60    | 74,116.48  |
| 5  | 5.9      | Centering and shuttering including strutting, propping etc. and removal of form for :  |       |        |             |            |
|  | 5.9.1    | Foundations, footings, bases of columns, etc. for mass concrete.   | Sqm   | 60.93  | 392.15      | 23,893.70  |
| 6  | 19.7     | Constructing <b>brick masonry manhole</b> in cement mortar 1 : 4 (1 cement : 4 coarse sand) with RCC top slab with 1 : 2 : 4 mix (1 cement : 2 coarse sand : 4 grade stone aggregate 20mm nominal size); foundation concrete 1:4:8 mix (1 cement : 4 coarse sand : 8 graded stone aggregate 40 mm nominal size) inside plastering 12 mm thick with cement mortar 1:3 (1cement 3 coarse sand ) finished with a floating coat of neat cement and making channels in cement concrete 1:2:4 (1cement : 2 coarse sand: 4 graded stone aggregate 20 mm nominal size) finishd with a floating coat of neat cement complete as per standard design |       |        |             |            |
|  | 19.7.1   | Inside size <b>90 x 80 cm &amp; 45 cm</b> deep including CI cover with frame (light duty) 455 x 610mm internal dimensions, total weight of cover & frame to be not less than 38 kg (weight of cover 23 kg and weight of frame 15 kg)   |       |        |             |            |
|  | 19.7.1.1 | With common burnt clay F.P.S.(non modular) bricks of classic designation 7.5   | each  | 17.00  | 12,770.55   | 217,099.35 |
| 7  | 19.7.3   | Inside size <b>120 x 90 cm &amp; 90 cm</b> deep including CI cover with frame (Medium duty) 560mm internal diameter, total wt. of cover & frame to be not less than 208 kg (wt. of cover 108 kg and wt. of frame 100 kg)   |       |        |             |            |
|  | 19.7.3.1 | With common burnt clay F.P.S.(non modular) bricks of classic designation 7.5   | each  | 6.00   | 32,857.85   | 197,147.10 |
| 8  | 19.8     | <b>Extra for depth</b> for manholes:   |       |        |             |            |
|  | 19.8.1   | size 90 X 80 cm  |       |        |             |            |
|  | 19.8.1.1 | With common burnt clay F.P.S. (non modular) bricks of class designation 7.5  | metre | 4.25   | 8,825.40    | 37,507.95  |
| 9  | 19.8.2   | size 120 X 90 cm   |       |        |             |            |
|  | 19.8.2.1 | With common burnt clay F.P.S. (non modular) bricks of class designation 7.5  | metre | 1.50   | 10,585.50   | 15,878.25  |

| S.N. | DSR-2023 | DESCRIPTION   | UNIT | QTY   | RATE<br>DSR | AMOUNT            |
|------|----------|---|------|-------|-------------|-------------------|
| 10   | 19.4     | Providing and fixing square mouth <b>S. W. Gully trap</b> class SP-1 complete with C.I. grating brick masonry chamber with water tight CI cover with frame of 300 x 300 mm size (inside) the weight of cover to be not less than 4.50 kg and frame to be not less than 2.70 kg as per standard design |      |       |             |                   |
|      | 19.4.3   | 180 x 150 mm. size P type   |      |       |             |                   |
|      | 19.4.3.1 | With common burnt clay F.P.S. (non modular) bricks of class designation 7.5   | each | 10.00 | 2,802.15    | 28,021.50         |
|      |          |   |      |       |             |                   |
| 11   | 19.15    | Providing M.S. foot rests including fixing in manholes with 20x20x10 cm cement concrete blocks 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size) as per standard design :  |      |       |             |                   |
|      | 19.15.2  | With 20 mm diameter round bar   | each | 29.00 | 496.50      | 14,398.50         |
|      |          |   |      |       |             |                   |
|      |          | <b>TOTAL OF SUB HEAD</b>  |      |       |             | <b>836,511.94</b> |
|      |          |   |      |       |             |                   |

|  |
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| <b>ESTIMATE OF FOR CONSTRUCTION OF ADDITIONAL DORMITORY &amp; STAFF<br/>QUARTERS AT JNV KUPWARA, JAMMU AND KASHMIR</b> |
|--|

|                            |
|----------------------------|
| <b>Cost of Septic Tank</b> |
|----------------------------|

| S.N. | DESCRIPTION OF WORK          |                   |
|------|------------------------------|-------------------|
| 1    | Septic Tank 100 User (1 nos) | 563,186.98        |
|      |                              |                   |
|      | <b>Total</b>                 | <b>563,186.98</b> |

| ESTIMATE OF FOR CONSTRUCTION OF ADDITIONAL DORMITORY & STAFF QUARTERS AT JNV<br>KUPWARA, JAMMU AND KASHMIR<br>ABSTRACT FOR SEPTIC TANK 100 USERS |          |   |           |       |          |            |
|--|----------|---|-----------|-------|----------|------------|
| S.No.  | DSR-23   | Description   | Qty       | Unit  | Rate     | Amount     |
| 1  | 2.8      | Earth work in excavation by mechanical means (Hydraulic excavator) / manual means in foundation trenches or drains (not exceeding 1.5 m in width or 10 sqm on plan) including dressing of sides and ramming of bottoms, lift up to 1.5 m, including getting out the excavated soil and disposal of surplus excavated soil as directed, within a lead of 50 m. |           |       |          |            |
|  | 2.8.1    | All kinds of soil. 0.00-1.50m   | 88.740    | Cum   | 260.30   | 23,099.02  |
| 2  | 2.26.1   | Earth work in excavation by mechanical means (Hydraulic excavator) / manual means in foundation trenches or drains (not exceeding 1.5 m in width or 10 sqm on plan) including dressing of sides and ramming of bottoms, lift up to 1.5 m, including getting out the excavated soil and disposal of surplus excavated soil as directed, within a lead of 50 m. |           |       |          |            |
|  |          | All kinds of soil. 1.50-3.00m   | 38.510    | Cum   | 126.80   | 4,883.07   |
| 3  | 2.25     | Filling available excavated earth (excluding rock) in trenches, plinth, sides of foundations etc. in layers not exceeding 20cm in depth, consolidating each deposited layer by ramming and watering, lead up to 50 m and lift up to 1.5 m.  | 22.190    | Cum   | 196.00   | 4,349.24   |
| 4  | 4.1      | Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level :  |           |       |          |            |
|  | 4.1.10   | 1:5:10 (1 cement : 5 coarse sand (zone-III): 10 graded stone aggregate 40 mm nominal size).   | 1.760     | Cum   | 6,518.60 | 11,472.74  |
| 5  | 5.1      | Providing and laying in position specified grade of reinforced cement concrete excluding the cost of centering, shuttering, finishing and reinforcement - All work up to plinth level:  |           |       |          |            |
|  | 5.1.2    | 1:1.5:3 (1 cement : 1.5 coarse sand : 3 graded stone aggregate 20 mm nominal size)  | 17.920    | Cum   | 9,045.75 | 162,099.84 |
| 6  | 5.9      | Centering and shuttering including strutting, propping etc. and removal of form for:  |           |       |          |            |
| a)   | 5.9.1    | Foundations, footings, bases of columns, etc. for mass concrete.  | 7.060     | Sqm   | 392.15   | 2,768.58   |
| b)   | 5.9.2    | Walls (any thickness) including attached pilasters, buttresses, plinth and string courses etc.  | 94.440    | Sqm   | 842.50   | 79,565.70  |
| 7  | 5.9.3    | Suspended floors, roofs, landings, balconies and access platform.   | 11.970    | Sqm   | 927.25   | 11,099.18  |
| 8  | 5.9.5    | Lintels, beams, plinth beams, girders, bressumers and cantilevers.  | 3.486     | Sqm   | 736.40   | 2,567.09   |
| 9  | 5.9.16   | Edges of slabs and breaks in floors and walls.  |           |       |          |            |
|  | 5.9.16.1 | Under 20 cm wide  | 17.440    | Meter | 208.55   | 3,637.11   |
| 10   | 5.22     | Reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete.  |           |       |          |            |
|  | 5.22.6   | Thermo-Mechanically Treated bars.   | 1,792.000 | Kg    | 107.85   | 193,267.20 |
| 11   | 11.3     | Cement concrete flooring 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate) finished with a floating coat of neat cement, including cement slurry, but excluding the cost of nosing of steps etc. complete.  |           |       |          |            |

| S.No. | DSR-23    | Description  | Qty    | Unit  | Rate      | Amount            |
|-------|-----------|--|--------|-------|-----------|-------------------|
|       | 11.3.1    | 40 mm thick with 20 mm nominal size stone aggregate  | 11.970 | Sqm   | 614.20    | 7,351.97          |
|       |           |  |        |       |           |                   |
| 12    | 13.16     | 6 mm cement plaster of mix :   |        |       |           |                   |
|       | 13.16.1   | 1:3 (1 cement : 3 fine sand)   | 52.980 | Sqm   | 300.45    | 15,917.84         |
|       |           |  |        |       |           |                   |
| 13    | 19.19     | Providing and fixing in position pre-cast R.C.C. manhole cover and frame of required shape and approved quality  |        |       |           |                   |
|       | 19.19.3   | HD-20  |        |       |           |                   |
|       | 19.19.3.1 | Circular shape 560 mm internal diameter  | 2.00   | Nos   | 1,675.70  | 3,351.40          |
|       |           |  |        |       |           |                   |
| 14    | 19.16     | Providing orange colour safety foot rest of minimum 6 mm thick plastic encapsulated as per IS : 10910 on 12mm dia steel bar conforming to IS : 1786 having minimum cross section as 23 mmx25mm and over all minimum length 263 mm and width as 165mm with minimum 112 mm space between protruded legs having 2 mm tread on top surface by ribbing or chequering besides necessary and adequate anchoring projections on tail length on 138 mm as per standard drawing and suitable to with stand the bend test and chemical resistance test as per specifications and having manufacture's permanent identification mark to be visible even after fixing, including fixing in manholes with 30x20x15 cm cement concrete block 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size) complete as per design. | 12.000 | Nos   | 553.70    | 6,644.40          |
|       |           |  |        |       |           |                   |
| 15    | 17.35     | Providing and fixing soil, waste and vent pipes  |        |       |           |                   |
|       | 17.35.1   | 100 mm dia.  |        |       |           |                   |
|       | 17.35.1.2 | Centrifugally cast (spun) iron socketed pipe as per IS: 3989.  | 3.600  | Meter | 1,180.75  | 4,250.70          |
|       |           |  |        |       |           |                   |
| 16    | 19.32     | Making soak pit 2.5 m diameter 3.0 metre deep with 45 x 45 cm dry brick honey comb shaft with bricks and S.W. drain pipe 100 mm diameter, 1.8 m long complete as per standard design.  |        |       |           |                   |
|       | 19.32.1   | With common burnt clay F.P.S. (non modular) bricks of class designation 7.5  | 1.000  | Nos   | 26,861.90 | 26,861.90         |
|       |           |  |        |       |           |                   |
|       |           | <b>Cost for 1 Nos Septic Tank</b>  |        |       |           | <b>563,186.98</b> |



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| <b>ESTIMATE OF FOR CONSTRUCTION OF ADDITIONAL DORMITORY &amp; STAFF<br/>QUARTERS AT JNV KUPWARA, JAMMU AND KASHMIR</b> |
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|                            |  |  |
|----------------------------|--|--|
| <b>Cost of Septic Tank</b> |  |  |
|----------------------------|--|--|

| S.N. | DESCRIPTION OF WORK        |                   |
|------|----------------------------|-------------------|
| 1    | Septic Tank 50 User (1 no) | 362,622.54        |
|      |                            |                   |
|      | <b>Total</b>               | <b>362,622.54</b> |

**ESTIMATE OF FOR CONSTRUCTION OF ADDITIONAL DORMITORY & STAFF QUARTERS AT JNV KUPWARA,  
JAMMU AND KASHMIR**

**ABSTRACT FOR RCC SEPTIC TANK 50 USERS**

| S.N. | DSR-23   | Description   | Qty       | Unit  | Rate     | Amount     |
|------|----------|---|-----------|-------|----------|------------|
| 1    | 2.8      | Earth work in excavation by mechanical means (Hydraulic excavator) / manual means in foundation trenches or drains (not exceeding 1.5 m in width or 10 sqm on plan) including dressing of sides and ramming of bottoms, lift up to 1.5 m, including getting out the excavated soil and disposal of surplus excavated soil as directed, within a lead of 50 m. |           |       |          |            |
|      | 2.8.1    | All kinds of soil. 0.00-1.50m   | 24.180    | Cum   | 260.30   | 6,294.05   |
| 2    | 2.26.1   | Earth work in excavation by mechanical means (Hydraulic excavator) / manual means in foundation trenches or drains (not exceeding 1.5 m in width or 10 sqm on plan) including dressing of sides and ramming of bottoms, lift up to 1.5 m, including getting out the excavated soil and disposal of surplus excavated soil as directed, within a lead of 50 m. |           |       |          |            |
|      |          | All kinds of soil. 1.50-3.00m   | 20.150    | Cum   | 126.80   | 2,555.02   |
| 3    | 2.25     | Filling available excavated earth (excluding rock) in trenches, plinth, sides of foundations etc. in layers not exceeding 20cm in depth, consolidating each deposited layer by ramming and watering, lead up to 50 m and lift up to 1.5 m.  | 2.980     | Cum   | 196.00   | 584.08     |
| 4    | 4.1      | Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level :  |           |       |          |            |
|      | 4.1.10   | 1:5:10 (1 Cement : 5 coarse sand : 10 graded stone aggregate 40 mm nominal size).   | 1.280     | Cum   | 6,518.60 | 8,343.81   |
| 5    | 5.33     | Providing and laying in position machine batched and machine mixed design mix M-25 grade cement concrete for reinforced cement concrete work, using cement content as per approved design mix, including pumping of concrete to site of laying but excluding the cost of centering, shuttering  |           |       |          |            |
|      | 5.33.1   | All works up to plinth level.   | 9.720     | Cum   | 9,504.75 | 92,386.17  |
| 6    | 5.9      | Centering and shuttering including strutting, propping etc. and removal of form for:  |           |       |          |            |
|      | 5.9.1    | Foundations, footings, bases of columns, etc. for mass concrete.  | 6.100     | Sqm   | 392.15   | 2,392.12   |
| 7    | 5.9.3    | Suspended floors, roofs, landings, balconies and access platform.   | 37.370    | Sqm   | 927.25   | 34,651.33  |
| 8    | 5.9.5    | Lintels, beams, plinth beams, girders, bressumers and cantilevers.  | 0.610     | Sqm   | 736.40   | 449.20     |
| 9    | 5.9.16   | Edges of slabs and breaks in floors and walls.  |           |       |          |            |
|      | 5.9.16.1 | Under 20 cm wide  | 15.040    | Meter | 208.55   | 3,136.59   |
| 10   | 5.22     | Reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete.  |           |       |          |            |
|      | 5.22.6   | Thermo-Mechanically Treated bars.   | 1,458.000 | Kg    | 107.85   | 157,245.30 |

| S.N. | DSR-23    | Description   | Qty    | Unit  | Rate      | Amount            |
|------|-----------|---|--------|-------|-----------|-------------------|
| 12   | 11.5      | 62 mm thick cement concrete flooring with concrete hardener topping under layer 50 mm thick cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20mm nominal size) and top layer 12mm thick cement hardener consisting of mix 1:2 (1 cement hardener mix : 2 graded stone aggregate 6mm nominal size) by volume. Hardening compound is mixed @ 2 litre per 50kg of cement or as per manufactures specifications. This includes cost of cement slurry, but excluding the cost of nosing of steps etc. complete.   | 8.000  | Sqm   | 1,056.15  | 8,449.20          |
|      |           |   |        |       |           |                   |
| 13   | 13.16     | 6 mm cement plaster of mix :  |        |       |           |                   |
|      | 13.16.1   | 1:3 (1 cement : 3 fine sand)  | 28.820 | Sqm   | 300.45    | 8,658.97          |
|      |           |   |        |       |           |                   |
| 14   | 19.19     | Providing and fixing in position pre-cast R.C.C. manhole cover and frame of required shape and approved quality   |        |       |           |                   |
|      | 19.19.3   | HD-20   |        |       |           |                   |
|      | 19.19.3.1 | Circular shape 560 mm internal diameter   | 2.00   | Nos   | 1,675.70  | 3,351.40          |
|      |           |   |        |       |           |                   |
| 15   | 19.16     | Providing orange colour safety foot rest of minimum 6 mm thick plastic encapsulated as per IS : 10910 on 12mm dia steel bar conforming to IS : 1786 having minimum cross section as 23 mmx25mm and over all minimum length 263 mm and width as 165mm with minimum 112 mm space between protruded legs having 2 mm tread on top surface by ribbing or chequering besides necessary and adequate anchoring projections on tail length on 138 mm as per standard drawing and suitable to with stand the bend test and chemical resistance test as per specifications and having manufacture's permanent identification mark to be visible even after fixing. | 8.000  | Nos   | 553.70    | 4,429.60          |
|      |           |   |        |       |           |                   |
| 16   | 17.35     | Providing and fixing soil, waste and vent pipes   |        |       |           |                   |
|      | 17.35.1   | 100 mm dia.   |        |       |           |                   |
|      | 17.35.1.2 | Centrifugally cast (spun) iron socketed pipe as per IS: 3989.   | 2.400  | Meter | 1,180.75  | 2,833.80          |
|      |           |   |        |       |           |                   |
| 17   | 19.32     | Making soak pit 2.5 m diameter 3.0 metre deep with 45 x 45 cm dry brick honey comb shaft with bricks and S.W. drain pipe 100 mm diameter, 1.8 m long complete as per standard design.   |        |       |           |                   |
|      | 19.32.1   | With common burnt clay F.P.S. (non modular) bricks of class designation 7.5   | 1.000  | Nos   | 26,861.90 | 26,861.90         |
|      |           |   |        |       |           |                   |
|      |           | <b>Cost for 1 Nos Septic Tank</b>   |        |       |           | <b>362,622.54</b> |

| PRELIMINARY ESTIMATE FOR CONSTRUCTION OF MULTI SPORTS COMPLEX |         |   |    |       |       |       |         |      |             |                |               |
|---|---------|---|----|-------|-------|-------|---------|------|-------------|----------------|---------------|
| Abstract of cost for providing of sport complex               |         |   |    |       |       |       |         |      |             |                |               |
| Sl. No.   |         | Description   | No | L     | B     | H     | Qty.    | Unit | Rates       | Total DSR-2023 | Total Non DSR |
| 1   | 16.1    | Preparation and consolidation of sub grade with power road roller of 8 to 12 tonne capacity after excavating earth to an average of 22.5 cm depth, dressing to camber and consolidating with road roller including making good the undulations etc. and re-rolling the sub grade and disposal of surplus earthwith lead upto 50 metres.   | 1  | 42.00 | 62.00 |       | 2604.00 | Sqm  | 218.90      | 570,015.60     |               |
|   |         |   |    |       |       |       |         |      |             | -              |               |
| 2   | 16.3.2  | Supplying and stacking at site 63 mm to 45 mm size stone aggregate  | 1  | 42.00 | 62.00 | 0.075 | 195.30  | cum. | 1636.05     | 319,520.57     |               |
| 3   | 16.3.3  | Supplying and stacking at site 53 mm to 22.4 mm size stone aggregate  | 1  | 42.00 | 62.00 | 0.075 | 195.30  | cum. | 1,842.30    | 359,801.19     |               |
| 4   | 16.3.6  | Supplying and stacking at site Stone screening 13.2 mm nominal size (Type A)  | 1  | 42.00 | 62.00 | 0.050 | 130.20  | cum. | 2,034.35    | 264,872.37     |               |
| 5   | 16.3.7  | Supplying and stacking at site Stone screening 11.2 mm nominal size (Type B)  | 1  | 42.00 | 62.00 | 0.050 | 130.20  | cum. | 2,247.75    | 292,657.05     |               |
| 6   | 16.3.8  | Supplying and stacking at site Red bajri  | 1  | 42.00 | 62.00 | 0.050 | 130.20  | cum. | 1,564.90    | 203,749.98     |               |
| 7   | 16.3.10 | Supplying and stacking at site Moorum   | 1  | 42.00 | 62.00 | 0.050 | 130.20  | cum. | 768.25      | 100,026.15     |               |
| 8   | 16.4    | Laying, spreading and compacting stone aggregate of specified sizes to WBM specifications in uniform thickness, hand picking, rolling with 3 wheeled road/vibratory roller 8-10 tonne capacity in stages to proper grade and camber, applying and brooming requisite type of screening / binding material to fill up interstices of coarse aggregate, watering and compacting to the required density                               |    |       |       |       |         |      |             |                |               |
|   |         | qty same item No.16.3.2   |    |       |       |       | 195.30  |      |             |                |               |
|   |         | qty same item No.16.3.3   |    |       |       |       | 195.30  |      |             |                |               |
|   |         | qty same item No.16.3.6   |    |       |       |       | 130.20  |      |             |                |               |
|   |         | qty same item No.16.3.7   |    |       |       |       | 130.20  |      |             |                |               |
|   |         | qty same item No.16.3.8   |    |       |       |       | 130.20  |      |             |                |               |
|   |         | qty same item No.16.3.10  |    |       |       |       | 130.20  |      |             |                |               |
|   |         |   |    |       |       | Total | 911.40  | cum. | 1,046.95    | 954,190.23     |               |
| 9   |         | ACRYLIC FLOORING CONSISTING OF 8 LAYERS SYSTEMS:<br>Specifications:<br>a) 1 layer of re-surfacer<br>b) 5 layers of Cushion<br>c) 2 layers of color<br>Line marking as per international standards   | 2  | 18.00 | 30.00 |       | 1080.00 | Sqm  | 753.20      |                | 813,456.00    |
| 10  |         | Hand Operated Hydraulic Moveable Basketball System with 20 mm thick. Transparent Acrylic board with Double Die made frame Aluminium Anodized with built in brackets for mounting, Dunking Rims, 3.2 mtrs Projection From the Base pole, Special non marking wheels, Hand operated Hydraulic System for Easy lifting and bringing down the Backboard in a folded position as shown in the picture, System as per BFI Specifications. | 1  |       |       |       | 1.00    | Pair | 630,000.00  |                | 630,000.00    |
| 11  |         | HANDBALL GOAL POST POLES (MOVEABLE):<br>Handball Goal Post size (3 Mtrs width 2 MTRs Ht.)<br>Front Fascia of 80 mm Diameter of M.S. Pipe 3.2 mm + 0.1 mm Wall thickness, with Rear Pipes of 40/mm Dia with Hooks for holding Nets at the rear along with wheels. All Premiered & Painted along with Handball net (Heavy Duty).  | 1  |       |       |       | 1.00    | Pair | 34,200.00   |                | 34,200.00     |
| 12  |         | Volleyball poles Basic model with over lapping system for height adjustment.<br>Volleyball Net Plastic Coated Steel Ware Net . Antenna for (Volley Ball Poles) Fiberglass, Detachable.  | 1  |       |       |       | 1.00    | Pair | 25,200.00   |                | 25,200.00     |
| 13  |         | Volleyball poles Basic model with over lapping system for height adjustment.<br>Volleyball Net Plastic Coated Steel Ware Net . Antenna for (Volley Ball Poles) Fiberglass, Detachable.  | 1  |       |       |       | 1.00    | Pair | 25,200.00   |                | 25,200.00     |
| 14  |         | Line Marking of Badminton Court on Kota stone flooring, as per international rules with Paint (Asian, Berger or Equivalent)   | 1  |       |       |       | 1.00    | Job  | 15,000.00   |                | 15,000.00     |
| 15  |         | Installation Charges  | 1  |       |       |       | 1.00    | Job  | 20,000.00   |                | 20,000.00     |
| 16  | 16.71   | Providing and fixing G.I. chain link fabric fencing of required width in mesh size 25x25 mm made of G.I. wire of dia 3 mm including strengthening with 2 mm dia wire or nuts, bolts and washers as required complete as per the direction of Engineer-in-charge.  |    |       |       |       |         |      |             |                |               |
|   |         | E=[A*(B+C)*2*D]   | A  | B     | C     | D     | E       |      |             |                |               |
|   |         |   | 1  | 44    | 60    | 3.0   | 624.00  | SQM  | 1,149.25    | 717,132.00     |               |
|   |         |   |    |       |       |       |         |      | Total       | 3,781,965.14   | 1,563,056.00  |
|   |         |   |    |       |       |       |         |      | Say in lacs | 37.82          | 15.63         |

| ESTIMATE OF FOR CONSTRUCTION OF ADDITIONAL DORMITORY & STAFF QUARTERS AT JNV KUPWARA, JAMMU AND KASHMIR |   |          |      |      |           |            |                |
|---|---|----------|------|------|-----------|------------|----------------|
| BOQ TUBE WELL INCLUDING SUBMERSIBLE PUMP  |   |          |      |      |           |            |                |
| S.N.  | DESCRIPTION OF ITEM   | DSR-21   | QTY  | UNIT | RATE      | AMOUNT DSR | AMOUNT NON-DSR |
| 1   | Mobilization & Demobilization of drilling rig at site along with other related equipments   | NDSR     | 1    | No   | 30,000.00 |            | 30,000.00      |
|   |   |          |      |      |           |            |                |
| 2   | Geophysical study for calculations of zone wise aquifer characteristics along with the designs of tube well etc.  | NDSR     | 1    | No   | 40,000.00 |            | 40,000.00      |
|   |   |          |      |      |           |            |                |
| 3   | Collection of drill cutting samples, analysis of samples, preparation of logs, logs analysis of all the drilling data for designing the well assembly for lowering.   | NDSR     | 1    | No   | 10,000.00 |            | 10,000.00      |
|   |   |          |      |      |           |            | -              |
| 4   | Geophysical logging ( using Sp, 16-64-N & lateral ) of the borehole to demarcate the exact aquifers for deciding well assembly in corroboration with lithologs  | NDSR     | 1    | No   | 30,000.00 |            | 30,000.00      |
|   |   |          |      |      |           |            |                |
| 5   | Boring/drilling bore well of required dia for casing/ strainer pipe, by suitable method prescribed in IS: 2800 (part I), including collecting samples from different strata, preparing and submitting strata chart/ bore log, including hire & running charges of all equipments, tools, plants & machineries required for the job, all complete as per direction of Engineer-in-charge, upto 90 metre depth below ground level.  |          |      |      |           |            |                |
|   | All types of soil   | 23.1.1   |      |      |           |            |                |
| A   | 300 mm dia  | 23.1.1.1 | 90   | M    | 707.75    | 63,697.50  |                |
|   | Boring/drilling bore well of required dia for casing/ strainer pipe, by suitable method prescribed in IS: 2800 (part I), including collecting samples from different strata, preparing and submitting strata chart/ bore log, including hire & running charges of all equipments, tools, plants & machineries required for the job, all complete as per direction of Engineer -in-charge, beyond 90 metre & upto 150 metre depth below ground level.  | 23.2     |      |      |           |            |                |
|   | All types of soil   | 23.2.1   |      |      |           |            |                |
| B   | 300 mm dia (90 to 150 mts)  | 23.2.1.1 | 10   | M    | 825.70    | 8,257.00   |                |
|   |   |          |      |      |           | -          |                |
| 6   | Supplying, assembling, lowering and fixing in vertical position in bore well, unplasticized PVC medium well casing (CM) pipe of required dia, conforming to IS: 12818, including required hire and labour charges, fittings & accessories etc. all complete, for all depths, as per direction of Engineer -in-charge.   |          |      |      |           |            |                |
|   |   |          |      |      |           | -          |                |
| A   | 200 mm nominal size dia   | 23.3.3   | 70   | M    | 1,113.35  | 77,934.50  |                |
|   | Supplying, assembling, lowering and fixing in vertical position in bore well, ERW (Electric Resistance Welded) FE 410 plain slotted (having slot of size 1.6/3.2 mm) mild steel threaded and socketed/ plain bevel ended pipe (type A) of required dia, conforming to IS: 8110, of reputed and approved make, having wall thickness not less than 5.40 mm, including painted with outside surface with two coats of anticorrosive bitumestic paint of approved brand and manufacture, including hire & labour charges, fittings & accessories, all complete, for all depths, as per direction of Engineer -in-charge.   | 23.11    |      |      |           |            |                |
| B   | 200 mm nominal size dia   | 23.11.3  | 30   | M    | 2,571.05  | 77,131.50  |                |
|   | Providing and fixing Bail plug/ Bottom plug of required dia to the bottom of pipe assembly of tubewell as per IS:2800 (part I).   | 23.15    |      |      |           |            |                |
| C   | 200mm dia   | 23.15.3  | 2    | Nos  | 357.60    | 715.20     |                |
|   | Providing and fixing M.S. clamp of required dia to the top of casing/ housing pipe of tubewell as per IS: 2800 (part I), including necessary bolts & nuts of required size complete.  |          |      |      |           |            |                |
| D   | 200 mm clamp  | 23.14.3  | 3    | Nos  | 1,827.00  | 5,481.00   |                |
|   |   |          |      |      |           |            |                |
| 7   | Gravel packing in tubewell construction in accordance with IS: 4097, including providing gravel fine/ medium/ coarse, in required grading & sizes as per actual requirement, all complete as per direction of Engineer-in-charge.   | 23.8     | 15.7 | Cum  | 2,024.50  | 31,784.65  |                |
|   |   |          |      |      |           | -          |                |
| 8   | Development of tube well in accordance with IS : 2800 (part I) and IS: 11189, to establish maximum rate of usable water yield without sand content (beyond permissible limit), with required capacity air compressor, running the compressor for required time till well is fully developed, measuring yield of well by "V" notch method or any other approved method, measuring static level & draw down etc. by step draw down method, collecting water samples & getting tested in approved laboratory, i/c disinfection of tubewell, all complete, including hire & labour charges of air compressor, tools & accessories etc., all as per requirement and direction of Engineer-in-charge. | 23.12    | 100  | Hour | 1,085.05  | 108,505.00 |                |
|   |   |          |      |      |           |            | -              |
| 9   | Supply & installation of submersible pump of make KSB 7.5 HP with control panel, support wire etc. complete.  | NDSR     | 2    | Set  | 59,400.00 |            | 118,800.00     |
|   |   |          |      |      |           |            | -              |

| S.N. | DESCRIPTION OF ITEM  | DSR-21  | QTY | UNIT | RATE      | AMOUNT DSR        | AMOUNT NON-DSR    |
|------|--|---------|-----|------|-----------|-------------------|-------------------|
| 10   | Providing & fixing 3 core 4 sqmm Copper stranded conductor submersible flat cable connected to pump with water proof joint and connection to submersible panel board with necessary lugs, etc.   | NDSR    | 120 | M    | 219.67    |                   | 26,360.40         |
|      |  |         |     |      |           |                   | -                 |
| 11   | Providing and fixing G.I. Union in G.I. pipe including cutting and threading the pipe and making long screws etc. complete (New work) :  |         |     |      |           |                   |                   |
|      | 80 mm nominal bore   | 18.46.8 | 95  | Mtr  | 1,207.95  | 114,755.25        |                   |
|      |  |         |     |      |           |                   |                   |
| 12   | Installation and Commissioning of pump set and all other necessary fitting.  | NDSR    | 1   | No   | 5,000.00  |                   | 5,000.00          |
|      |  |         |     |      |           |                   | -                 |
| 13   | Providing & fixing factory made out door type, weather proof Panel Board for submersible pump with 7.5 HP motor, fitted with DOL starter, ammeter, voltmeter, single phase preventer MCB's, on/ off switch push button duly wired and made out of 14 SWG sheet, complete with locking arrangements, grouted on ground, complete as directed by Project Director / Architect. | MR      | 1   | Each | 25,000.00 |                   | 25,000.00         |
|      |  |         |     |      |           |                   | -                 |
| 15   | Supplying, assembling, lowering and fixing in vertical position in bore well unplasticized PVC medium well screen (RMS) pipes with ribs, conforming to IS: 12818, including hire & labour charges, fittings & accessories etc. all complete, for all depths, as per direction of Engineer-in-charge.   | 23.4    |     |      |           |                   |                   |
|      | 200 mm nominal size dia  | 23.4.3  | 70  | M    | 1,255.70  | 87,899.00         |                   |
|      |  |         |     |      |           |                   |                   |
|      | <b>TOTAL</b>   |         |     |      |           | <b>576,160.60</b> | <b>285,160.40</b> |

| RUNNING TRACK SIZE 110MX90M |  |          |    |     |    |       |         |                     |                  |                    |
|-----------------------------|--|----------|----|-----|----|-------|---------|---------------------|------------------|--------------------|
| Sl. No.                     | DESCRIPTION OF ITEM  | DSR-2023 | NO | L   | B  | H     | QTY.    | UNIT                | RATE<br>(In Rs.) | Amount<br>(In Rs.) |
| 1                           | Excavating supply and filling of local earth (including royalty) by mechanical transport upto a lead of 5Km also including ramming and watering of the earth in layers not exceeding 20 cm in trnches plinth sides of foundation etc complete. | 2.25(a)  | 1  | 110 | 90 | 0.300 | 2970.00 | Cum                 | 700.50           | 2080485.00         |
|                             |  |          |    |     |    |       |         |                     | <b>Total</b>     | <b>2080485.00</b>  |
|                             |  |          |    |     |    |       |         | <b>Say In Lakhs</b> |                  | <b>20.80</b>       |

| ESTIMATE OF FOR CONSTRUCTION OF ADDITIONAL DORMITORY & STAFF QUARTERS AT JNV<br>KUPWARA, JAMMU AND KASHMIR |   |   |      |            |            |
|--|---|---|------|------------|------------|
| ESTIMATE FOR H.T./L.T. PANEL & FEEDER PILLARS  |   |   |      |            |            |
|  |   |   |      |            |            |
| <b>1</b>   | <b>BOYS / GIRLS DORMITORY PANEL</b>   |   |      |            |            |
|  | <u><b>Incoming</b></u>  |   |      |            |            |
|  | 100Amp MCCB TP 35 KA  | 1 | Nos  |            |            |
|  | Indication light R,Y,B  | 3 | Nos  |            |            |
|  | <b>BUS-BAR FEEDERS</b>  |   |      |            |            |
|  | 150Amp Aluminum bus-bar TPN   | 1 | Set  |            |            |
|  | <u><b>Out going</b></u>   |   |      |            |            |
|  | 63Amp MCB TPN 10KA  | 3 | Nos  |            |            |
|  | 63Amp MCB TPN 10KA (SPARE)  | 1 | Nos  |            |            |
|  | <u><b>Incoming</b></u>  |   |      |            |            |
|  | 63Amp MCB DP 10KA   | 1 | Nos  |            |            |
|  | 25Amp MCB DP 10KA   | 3 | Nos  |            |            |
|  | 32Amp MCB DP 10KA   | 1 | Nos  |            |            |
|  | <b>ENCLOSURE</b>  | 1 | SETS |            |            |
|  | <b>1050*1450*150 (17 SFT)</b>   |   |      |            |            |
|  | PANEL BODY FABRICATED IN 14/16 SWG CRCA SHEET ,<br>POWDER COA- TED IN SIEMENCE GREY COLOUR<br>COMPLETE IN ALL RESPECTS UNIVERSAL GLAND<br>PLATES. | 3 | Set  | 120,000.00 | 360,000.00 |
|  |   |   |      |            |            |
|  |   |   |      |            |            |
| <b>2</b>   | <b>METER PANEL (Type 2 )</b>  |   |      |            |            |
|  | <u><b>Incoming</b></u>  |   |      |            |            |
|  | MCB 32A 10 KA TPN   | 2 | Nos  |            |            |
|  | Indication light R,Y,B  | 6 | Nos  |            |            |
|  | <b>BUS-BAR FEEDERS</b>  |   |      |            |            |
|  | 100AMP ALU.BUS-BAR TPN  | 2 | SETS |            |            |
|  | <u><b>Out going</b></u>   |   |      |            |            |
|  | Single Phase Energy Meter   | 2 | Nos  |            |            |
|  | MCB 25A DP  | 2 | Nos  |            |            |
|  |   |   |      |            |            |
|  | <u><b>Emergency Section</b></u>   |   |      |            |            |
|  | <u><b>Incoming</b></u>  |   |      |            |            |
|  | MCCB 32A DP   | 2 | Nos  |            |            |
|  | <u><b>Out going</b></u>   |   |      |            |            |
|  | 16A DP  | 2 | Nos  |            |            |
|  | <b>ENCLOSURE</b>  | 2 | Set  |            |            |
|  | PANEL BODY FABRICATED IN 14/16 SWG CRCA SHEET ,<br>POWDER COA- TED IN SIEMENCE GREY COLOUR<br>COMPLETE IN ALL RESPECTS UNIVERSAL GLAND<br>PLATES. | 4 | Set  | 44,500.00  | 178,000.00 |
|  |   |   |      |            |            |
| <b>3</b>   | <b>METER PANEL (TYPE 3)</b>   |   |      |            |            |
|  | <u><b>Incoming</b></u>  |   |      |            |            |
|  | MCB 63A 10 KA TPN   | 1 | Nos  |            |            |
|  | Indication light R,Y,B  | 3 | Nos  |            |            |
|  | <b>BUS-BAR FEEDERS</b>  |   |      |            |            |
|  | 100AMP ALU.BUS-BAR TPN  | 1 | SETS |            |            |
|  | <u><b>Out going</b></u>   |   |      |            |            |
|  | Single Phase Energy Meter   | 4 | Nos  |            |            |
|  | MCB 25A DP  | 4 | Nos  |            |            |
|  | <u><b>Emergency Section</b></u>   |   |      |            |            |
|  | <u><b>Incoming</b></u>  |   |      |            |            |



|          |   |   |      |            |                   |
|----------|---|---|------|------------|-------------------|
|          |   |   |      |            |                   |
|          | MCCB 32A DP   | 1 | Nos  |            |                   |
|          | <b><u>Out going</u></b>   |   |      |            |                   |
|          | 16A DP  | 4 | Nos  |            |                   |
|          | <b>ENCLOSURE</b>  | 1 | Set  |            |                   |
|          | PANEL BODY FABRICATED IN 14/16 SWG CRCA SHEET ,<br>POWDER COA- TED IN SIEMENCE GREY COLOUR<br>COMPLETE IN ALL RESPECTS UNIVERSAL GLAND<br>PLATES. | 1 | Set  |            |                   |
|          |   |   |      |            |                   |
| <b>4</b> | <b>METER PANEL (TYPE 3)</b>   |   |      |            |                   |
|          | <b><u>Incoming</u></b>  |   |      |            |                   |
|          | MCB 63A 10 KA TPN   | 1 | Nos  |            |                   |
|          | Indication light R,Y,B  | 3 | Nos  |            |                   |
|          | <b>BUS-BAR FEEDERS</b>  |   |      |            |                   |
|          | 100AMP ALU.BUS-BAR TPN  | 1 | SETS |            |                   |
|          | <b><u>Out going</u></b>   |   |      |            |                   |
|          | Single Phase Energy Meter   | 6 | Nos  |            |                   |
|          | MCB 25A DP  | 6 | Nos  |            |                   |
|          | <b><u>Emergency Section</u></b>   |   |      |            |                   |
|          | <b><u>Incoming</u></b>  |   |      |            |                   |
|          | MCCB 32A DP   | 1 | Nos  |            |                   |
|          | <b><u>Out going</u></b>   |   |      |            |                   |
|          | 16A DP  | 6 | Nos  |            |                   |
|          | <b>ENCLOSURE</b>  | 1 | Set  |            |                   |
|          | PANEL BODY FABRICATED IN 14/16 SWG CRCA SHEET ,<br>POWDER COA- TED IN SIEMENCE GREY COLOUR<br>COMPLETE IN ALL RESPECTS UNIVERSAL GLAND<br>PLATES. | 1 | Set  |            |                   |
|          |   |   |      |            |                   |
|          |   |   |      |            | <b>538,000.00</b> |
|          |   |   |      |            |                   |
| <b>1</b> | <b>SUB FEEDER PANEL</b>   | 2 | Set  | 210,000.00 | 420,000.00        |
| <b>2</b> | <b>BOYS / GIRLS DORMITORY PANEL</b>   | 2 | Set  | 120,000.00 | 240,000.00        |
| <b>3</b> | <b>METER PANEL (TYPE 2)</b>   | 1 | Set  | 120,000.00 | 120,000.00        |
| <b>4</b> | <b>METER PANEL (TYPE 3)</b>   | 1 | Set  | 120,000.00 | 120,000.00        |
|          |   |   |      |            | <b>900,000.00</b> |

**ESTIMATE OF FOR CONSTRUCTION OF ADDITIONAL DORMITORY & STAFF QUARTERS AT JNV KUPWARA, JAMMU AND KASHMIR**

**ESTIMATE FOR EXTERNAL ELECTRIFICATION**

| S.No. | DSR-22 | Name of Item   | Qty    | Unit | Rate      | Amount     |
|-------|--------|--|--------|------|-----------|------------|
|       |        | <b><u>G.I. Earth pipe electrode with salt/charcoal:</u></b>  |        |      |           |            |
| 1     | 5.6    | Earthing with copper earth plate 600 mm X 600 mm X 3 mm thick including accessories, and providing masonry enclosure with cover plate having locking arrangement and watering pipe of 2.7 meter long etc. with charcoal/ coke and salt as required.  | 6      | Set  | 13,838.00 | 83,028.00  |
| 2     | 5.2    | Earthing with GI earth pipe 4.50 meter long 40mm dia including accessories, and providing masonry enclosure with cover plate having locking arrangement and watering pipe etc. with charcoal or coke and salt complete as required.  | 6      | Set  | 6,855.00  | 41,130.00  |
| 3     | 5.4    | Earthing with GI earth plate 600 x 600 x 3mm thick including accessories, and providing masonry enclosure with cover plate having locking arrangement and watering pipe etc. with watering pipe of 2.7 meter long etc. with charcoal or coke and salt complete as required. (for MLTP & DG body) | 6      | Set  | 7,472.00  | 44,832.00  |
| 4     | 5.10   | Providing and fixing 25 mm x 5 mm copper strips in 40 mm dia G.I. pipe from earth electrode, including connection with brass nut bolts, spring washer, excavation and refilling etc, as required (copper plate earthing)   | 90     | Mtr  | 1,551.00  | 139,590.00 |
| 5     | 5.11   | Providing and fixing 25 mm x 5 mm GI strip in 40 mm dia G.I. pipe from earth electrode, including connection with brass nut bolts, spring washer, excavation and refilling etc, as required (copper GI plate earthing)   | 90     | Mtr  | 706.00    | 63,540.00  |
| 6     | 5.13   | Providing & laying earth connection from earth electrode with 6 SWG dia GI wire in 15 mm Gi pipe from earth electrode including connection with GI thimble excavation and refilling etc as required. (for GI pipe earthing of poles)   | 802.66 | Mtr  | 369.00    | 296,181.54 |
| 7     | 5.14   | Supply & Laying of 25 x 5 mm copper earth strip in surface /recess   | 90     | Mtr  | 1,162.00  | 104,580.00 |
| 8     | 5.15   | Providing and fixing 25mm x 5 mm G.I. strips on surface or in recess for connections etc. as required  | 90     | Mtr  | 244.00    | 21,960.00  |
| 9     | 2.21   | Providing and fixing MV danger notice plate of 200 mm x 150 mm made of mild steel atleast 2 mm thick and vitreous enameled white on both sides & with inscription in signal red colour on front side as required.(on 7mts poles & panels)  | 16     | Nos  | 269.00    | 4,304.00   |
|       |        | <b><u>LT CABLES LAYING</u></b>   |        |      |           |            |
| 10    | 7.5    | Laying of one number PVC insulated and PVC sheathed / XLPE power cable of 1.1 KV grade of following size in the existing RCC/ HUME/ METAL pipe as required.  |        |      |           |            |
|       | 7.5.1  | Upto 35 sq. mm   | 802.66 | Rmt  | 37.00     | 29,698.42  |
|       | 7.5.2  | Above 35 sq. mm and upto 95 sq. mm   | 363.56 | Rmt  | 57.00     | 20,722.92  |

| S.No. | DSR-22   | Name of Item  | Qty    | Unit  | Rate     | Amount              |
|-------|----------|---|--------|-------|----------|---------------------|
| 11    | 14.16    | Supplying and laying of following size DWC HDPE pipe ISI marked along with all accessories like socket, bend, couplers etc. conforming to IS 14930, Part II complete with fitting and cutting, jointing etc.direct in ground (75 cm below ground level) including excavation and refilling the trench but excluding sand cushioning and protective covering etc., complete as required.   |        |       |          |                     |
|       | 14.16.1  | 63 mm dia (OD-63 mm & ID-51 mm nominal)   | 802.66 | Rmt   | 247.00   | 198,257.02          |
|       | 14.16.3  | 120 mm dia (OD-120 mm & ID-103 mm nominal)  | 363.56 | Rmt   | 368.00   | 133,790.08          |
|       |          |   |        |       |          |                     |
| 12    | 9.1      | Supplying and making end termination with brass compression gland and aluminium lugs for following size of PVC insulated and PVC sheathed/ XLPE aluminium conductor cable of 1.1 KV grade as required   |        |       |          |                     |
|       | 9.1.34   | 4 Core 25 Sqmm  | 3      | Nos   | 315.00   | 945.00              |
|       | 9.1.33   | 4 Core 16 Sqmm  | 2      | Nos   | 309.00   | 618.00              |
|       | 9.1.29   | 3.5 Core 240 Sqmm   | 1      | Nos   | 1,027.00 | 1,027.00            |
|       | 9.1.13   | 3.5 Core 95 Sqmm  | 2      | Nos   | 542.00   | 1,084.00            |
|       | 9.1.6    | 2 Core 50 Sqmm  | 3      | Nos   | 351.00   | 1,053.00            |
|       | 9.1.3    | 2 Core 16 Sqmm  | 3      | Nos   | 256.00   | 768.00              |
|       | 9.1.2    | 2 Core 10 Sqmm  | 52     | Nos   | 241.00   | 12,532.00           |
|       |          |   |        |       |          |                     |
| 13    | 2.13     | Excavating trenches of required width for pipes, cables, etc including excavation for sockets, and dressing of sides, ramming of bottoms, depth upto 1.5 m including getting out the excavated soil, and then returning the soil as required, in layers not exceeding 20 cm in depth including consolidating each deposited layer by ramming, watering, etc. and disposing of surplus excavated soil as directed, within a lead of 50 m : |        |       |          |                     |
|       | 2.13.1   | Ordinary rock   |        |       |          |                     |
|       | 2.13.1.2 | Pipes, cables etc. exceeding 80 mm dia. but not exceeding 300 mm dia.   | 69     | Meter | 998.65   | 68,906.85           |
|       |          |   |        |       |          |                     |
| 14    | 19.6     | Providing and laying non-pressure NP2 class (light duty) R.C.C. pipes with collars jointed with stiff mixture of cement mortar in the proportion of 1:2 (1 cement : 2 fine sand) including testing of joints etc. complete.   |        |       |          |                     |
|       | 19.6.2   | 150 mm dia. R.C.C. pipe   | 69     | Meter | 556.45   | 38,395.05           |
|       |          |   |        |       |          |                     |
|       |          | <b>Total</b>  |        |       |          | <b>1,306,942.88</b> |
|       |          |   |        |       |          |                     |

| ESTIMATE OF FOR CONSTRUCTION OF ADDITIONAL DORMITORY & STAFF<br>QUARTERS AT JNV KUPWARA, JAMMU AND KASHMIR |  |        |      |                  |                                    |                                  |
|--|--|--------|------|------------------|------------------------------------|----------------------------------|
|  |  |        |      |                  |                                    |                                  |
| ABSTRACT OF COST FOR BOUNDARY WALL   |  |        |      |                  |                                    |                                  |
| Sl.<br>No  | Description  | Qty    | Unit | Rate<br>(In Rs.) | Amount<br>(In Rs.) on DSR-<br>2023 | Amount<br>(In Rs.) on<br>NON-DSR |
| 1  | COST OF CONSTRUCTION OF<br>BOUNDARY WALL WITH CONCERTINA<br>COIL FENCING | 648.00 | Rmt  | 18658.67         | 12090818.16                        | 0.00                             |
| 2  | COST OF REPAIR WORK OF<br>BOUNDARY WALL (1000 MTR)                       |        |      |                  | 3117953.69                         | 0.00                             |
|  |  |        |      |                  |                                    |                                  |
|  |  |        |      |                  |                                    |                                  |
|  |  |        |      | TOTAL            | 15208771.85                        | 0.00                             |
|  |  |        |      |                  |                                    |                                  |
|  |  |        |      | GRAND TOTAL      | 15208771.85                        |                                  |

# ESTIMATE OF FOR CONSTRUCTION OF ADDITIONAL DORMITORY & STAFF QUARTERS AT JNV KUPWARA, JAMMU AND KASHMIR

(ANALYSIS FOR 33.3 RM LENGTH)

[ BASED ON D.S.R. 2023 ]

| S.N. | DESCRIPTION OF ITEM   | DSR. NO.<br>2023 | QUANTITY | UNIT | RATES   | AMOUNT<br>ON DSR | AMOUNT<br>ON NON-<br>DSR |
|------|---|------------------|----------|------|---------|------------------|--------------------------|
| 1    | Clearing jungle including uprooting of rank vegetation, grass, brush wood, trees and saplings of girth up to 30 cm measured at a height of 1 m above ground level and removal of rubbish up to a distance of 50 m outside the periphery of the area cleared.  | 2.31             | 99.900   | Sqm  | 17.60   |                  |                          |
| 2    | Excavation work by mechanical means (Hydraulic excavator)/ manual means in foundation trenches or drains (not exceeding 1.5m in width or 10 sqm on plan), including dressing of sides and ramming of bottoms, lift upto 1.5 m, including getting out the excavated soil and disposal of surplus excavated soils as directed, within a lead of 50 m. Ordinary rock   | 2.9.1            | 31.16    | Cum  | 632.95  | 19722.72         |                          |
| 3    | Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level : 1:5:10 (1 Cement : 5 coarse sand (zone-III) : 10 graded stone aggregate 40 mm nominal size)  | 4.1.10           | 3.500    | Cum  | 6518.60 | 22815.10         |                          |
| 4    | Providing and laying in position machine batched and machine mixed design mix M-25 grade cement concrete for reinforced cement concrete work, using cement content as per approved design mix, including pumping of concrete to site of laying but excluding the cost of centering, shuttering, finishing and reinforcement, including admixtures in recommended proportions as per IS: 9103 to accelerate, retard setting of concrete, improve workability without impairing strength and durability as per direction of Engineer-in-charge. (Note :- Cement content considered in this item is @ 330 kg/cum. "Excess/less cement used as per design mix is payable/recoverable separately). |                  |          |      |         |                  |                          |
| (a)  | <b>Upto plinth level</b>  |                  |          |      |         |                  |                          |
|      | (i) R.C.C. work in Beam   | 5.33.1           | 3.150    | Cum  | 9504.75 | 29939.96         |                          |
|      | (ii) R.C.C. work in Footing   | 5.33.1           | 5.170    | Cum  | 9504.75 | 49139.56         |                          |
|      | (iii) R.C.C. work in Columns  | 5.33.1           | 0.920    | Cum  | 9504.75 | 8744.37          |                          |
| (b)  | <b>Above plinth to floor-V lvl</b>  |                  |          |      |         |                  |                          |
|      | Same as above but R.C.C. work above plinth Lvl.   |                  |          |      |         |                  |                          |
|      | (ii) R.C.C. work in Beam  | 5.33.2           | 1.710    | Cum  | 9860.40 | 16861.28         |                          |
|      | (iii) R.C.C. work in Columns  | 5.33.2           | 1.460    | Cum  | 9860.40 | 14396.18         |                          |
| 5    | <b>Form Work</b>  |                  |          |      |         |                  |                          |
|      | Edges of slabs and breaks in floors and walls   | 5.9.16           |          |      |         |                  |                          |
|      | Under 20 cm wide  | 5.9.16.1         | 66.600   | Rm   | 208.55  | 13889.43         |                          |
| 6    | Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete <b>upto plinth level</b> . Thermo-Mechanically Treated bars of grade Fe-500D or more.   | 5.22.6           | 1241.000 | Kg   | 107.85  | 133841.85        |                          |

|     |   |         |                                  |     |         |                  |  |
|-----|---|---------|----------------------------------|-----|---------|------------------|--|
| 7   | Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in foundation and plinth in: Cement mortar 1:6 (1 cement : 6 coarse sand).   | 6.1.2   | 6.728                            | Cum | 7132.25 | 47982.21         |  |
| 8   | Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in superstructure above plinth level up to floor V level in all shapes and sizes in : Cement mortar 1:6 (1 cement : 6 coarse sand)   | 6.4.2   | 10.178                           | Cum | 9105.95 | 92675.81         |  |
| 9   | 12 mm cement plaster on the fair side of single or half brick wall:- 1:6 (1 cement: 6 coarse sand)  | 13.4.2  | 74.100                           | Sqm | 343.65  | 25464.47         |  |
| 10  | 15 mm cement plaster on rough side of single or half brick wall of mix:1:6 (1 cement: 6 coarse sand)  | 13.5.2  | 62.480                           | Sqm | 395.35  | 24701.47         |  |
| 11  | Finishing walls with water proofing cement paint of required shade : New work (Two or more coats applied @ 3.84 kg/10 sqm)  | 13.44.1 | 136.580                          | Sqm | 116.90  | 15966.20         |  |
| 12  | Providing and fixing concertina coil fencing with punched tape concertina coil 600 mm dia 10 metre openable length ( total length 90 m), having 50 nos rounds per 6 metre length, upto 3 m height of wall with existing angle iron 'Y' shaped placed 2.4 m or 3.00 m apart and with 9 horizontal R.B.T. reinforced barbed wire, stud tied with G.I. staples and G.I. clips to retain horizontal, including necessary G.I. staples and G.I. clips to retain horizontal, including necessary bolts or G.I. barbed wire tied to angle iron, all complete as per direction of Engineer-in-charge, with reinforced barbed tape(R.B.T.) / Spring core (2.5mm thick) wire of high tensile strength of 165 kg/ sq.mm with tape (0.52 mm thick) and weight 43.478 gm/ metre (cost of M.S. angle, C.C. blocks shall be paid separately) | 16.53   | 33.300                           | Rm  | 375.80  | 12514.14         |  |
| 13  | Providing and fixing T-iron frames for doors, windows and ventilators of mild steel Tee-sections, joints mitred and welded, including fixing of necessary butt hinges and screws and applying a priming coat of approved steel primer. Fixing with 15x3 mm lugs 10 cm long embedded in cement concrete block 15x10x10 cm of C.C. 1:3:6 (1 Cement : 3 coarse sand : 6 graded stone aggregate 20 mm   | 10.13.1 | 94.330                           | KG  | 141.70  | 13366.56         |  |
| 14  | <b>Steel Painting:Applying priming coat:</b>  |         |                                  |     |         |                  |  |
|     | (a) With ready mixed red oxide zink chromate primer of approved brand and manufacture on steel galvanised iron/steel works.   | 13.50.3 | 19.80                            | Sqm | 67.40   | 1334.52          |  |
|     | (b) Painting with synthetic enamel paint of approved brand and manufacture to give an even shade: Two or more coats on new work.  | 13.62.2 | 19.80                            | Sqm | 226.25  | 4479.75          |  |
| 15  | Add for plaster drip course/ groove in plastered surface or moulding to R.C.C. projections  | 5.30    | 212.400                          | Rm  | 78.40   | 16652.16         |  |
| 16  | Centering and shuttering including strutting, propping etc. and removal of form for all heights :   |         |                                  |     |         |                  |  |
| (a) | Foundations, footings, bases of columns, etc. for mass concrete.  | 5.9.1   | 17.010                           | Sqm | 392.15  | 6670.47          |  |
| (b) | Lintels, beams, plinth beams, girders, bressumers and cantilevers.  | 5.9.21  | 30.000                           | Sqm | 841.95  | 25258.50         |  |
| (c) | Columns,Pillars, Piers, Abutments, Posts and Struts.  | 5.9.6   | 25.920                           | Sqm | 961.30  | 24916.90         |  |
|     |   |         | <b>COST OF 33.30 R.M. LENGTH</b> |     |         | <b>621333.61</b> |  |
|     |   |         | <b>COST PER R.M. LENGTH</b>      |     |         | <b>18658.67</b>  |  |

**ESTIMATE OF FOR CONSTRUCTION OF ADDITIONAL DORMITORY & STAFF QUARTERS AT JNV  
KUPWARA, JAMMU AND KASHMIR  
Boundary Wall Repair  
[ BASED ON D.S.R. 2021 ]**

| S.N. | DESCRIPTION OF ITEM   | DSR. NO.<br>2023 | QUANTITY | UNIT | RATES   | AMOUNT<br>ON DSR | AMOUNT<br>ON NON-<br>DSR |
|------|---|------------------|----------|------|---------|------------------|--------------------------|
| 1    | Demolishing brick work manually/ by mechanical means including stacking of serviceable material and disposal of unserviceable material within 50 metres lead as per direction of Engineer-in-charge.  | 15.7             |          |      |         |                  |                          |
|      | In cement mortar  | 15.7.4           | 115.40   | Cum  | 2060.20 | 237747.08        |                          |
| 2    | Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in superstructure above plinth level up to floor V level in all shapes and sizes in : Cement mortar 1:6 (1 cement : 6 coarse sand)   | 6.4.2            | 44.190   | Cum  | 9105.95 | 402391.93        |                          |
| 3    | Providing and laying in position machine batched and machine mixed design mix M-25 grade cement concrete for reinforced cement concrete work, using cement content as per approved design mix, including pumping of concrete to site of laying but excluding the cost of centering, shuttering, finishing and reinforcement, including admixtures in recommended proportions as per IS: 9103 to accelerate, retard setting of concrete, improve workability without impairing strength and durability as per direction of Engineer-in-charge.“(Note :- Cement content considered in this item is @ 330 kg/cum.“Excess/ less cement used as per design mix is payable/recoverable separately). |                  |          |      |         |                  |                          |
| (a)  | <b>Above plinth to floor-V lvl</b>  |                  |          |      |         |                  |                          |
|      | (ii) R.C.C. work in Beam  | 5.33.2           | 24.410   | Cum  | 9860.40 | 240692.36        |                          |
| 4    | Removing dry or oil bound distemper, water proofing cement paint and the like by scrapping, sand papering and preparing the surface smooth including necessary repairs to scratches etc. complete.  | 13.91            | 642.53   | Sqm  | 25.15   | 16159.63         |                          |
| 5    | Dismantling old plaster or skirting raking out joints and cleaning the surface for plaster including disposal of rubbish to the dumping ground within 50 metres lead.   | 15.56            | 642.53   | Sqm  | 54.65   | 35114.26         |                          |
| 6    | 12 mm cement plaster on the fair side of single or half brick wall:- 1:6 (1 cement: 6 coarse sand)  | 13.4.2           | 923.290  | Sqm  | 343.65  | 317288.61        |                          |
|      |   |                  |          |      |         | 0.00             |                          |
| 7    | 15 mm cement plaster on rough side of single or half brick wall of mix:1:6 (1 cement: 6 coarse sand)  | 13.5.2           | 923.290  | Sqm  | 395.35  | 365022.70        |                          |
|      |   |                  |          |      |         | 0.00             |                          |

|  |   |         |          |     |        |                   |             |
|--|---|---------|----------|-----|--------|-------------------|-------------|
| 8  | Providing and applying white cement based putty of average thickness 1 mm, of approved brand and manufacturer, over the plastered wall surface to prepare the surface even and smooth complete.   | 13.80   | 2439.88  | Sqm | 156.05 | 380743.27         |             |
| 9  | Finishing walls with water proofing cement paint of required shade : New work (Two or more coats applied @ 3.84 kg/10 sqm)  | 13.44.1 | 2439.890 | Sqm | 116.90 | 285223.14         |             |
| 10   | Providing and fixing concertina coil fencing with punched tape concertina coil 600 mm dia 10 metre openable length ( total length 90 m), having 50 nos rounds per 6 metre length, upto 3 m height of wall with existing angle iron 'Y' shaped placed 2.4 m or 3.00 m apart and with 9 horizontal R.B.T. reinforced barbed wire, stud tied with G.I. staples and G.I. clips to retain horizontal, including necessary G.I. staples and G.I. clips to retain horizontal, including necessary bolts or G.I. barbed wire tied to angle iron, all complete as per direction of Engineer-in-charge, with reinforced barbed tape(R.B.T.) / Spring core (2.5mm thick) wire of high tensile strength of 165 kg/ sq.mm with tape (0.52 mm thick) and weight 43.478 gm/ metre (cost of M.S. angle, C.C. blocks shall be paid separately) | 16.53   | 817.190  | Rm. | 375.80 | 307100.00         |             |
| 11   | Providing and fixing T-iron frames for doors, windows and ventilators of mild steel Tee-sections, joints mitred and welded, including fixing of necessary butt hinges and screws and applying a priming coat of approved steel primer. Fixing with 15x3 mm lugs 10 cm long embedded in cement concrete block 15x10x10 cm of C.C. 1:3:6 (1 Cement 3 Sand 6 Blocks)   | 10.13.1 | 1663.550 | KG  | 141.70 | 235725.04         |             |
| 12   | <b>Steel Painting:Applying priming coat:</b>  |         |          |     |        |                   |             |
|  | (a) With ready mixed red oxide zink chromate primer of approved brand and manufacture on steel galvanised iron/steel works.   | 13.50.3 | 349.20   | Sqm | 67.40  | 23536.08          |             |
|  | (b) Painting with synthetic enamel paint of approved brand and manufacture to give an even shade: Two or more coats on new work.  | 13.61.1 | 349.20   | Sqm | 226.25 | 79006.50          |             |
| 13   | Add for plaster drip course/ groove in plastered surface or moulding to R.C.C. projections  | 5.30    | 2451.570 | Rm  | 78.40  | 192203.09         |             |
| <b>TOTAL COST OF REPAIR OF BOUNDARY WALL</b> |   |         |          |     |        | <b>3117953.69</b> | <b>0.00</b> |



| ABSTRACT OF COST (ENTRANCE GATE ) |  |          |          |      |         |                    |                       |
|-----------------------------------|--|----------|----------|------|---------|--------------------|-----------------------|
| [ BASED ON D.S.R. 2023 ]          |  |          |          |      |         |                    |                       |
| S.N.                              | DESCRIPTION OF ITEM  | DSR.2023 | QUANTITY | UNIT | RATES   | AMOUNT<br>DSR ITEM | AMOUNT<br>[M.R. ITEM] |
| <b>A</b>                          | <b>Earth Work</b>  |          |          |      |         |                    |                       |
| 1                                 | Earth work in excavation by mechanical means (Hydraulic excavator) / manual means in foundation trenches or drains (not exceeding 1.5 m in width or 10 sqm on plan), including dressing of sides and ramming of bottoms, lift upto 1.5 m, including getting out the excavated soil and disposal of surplus excavated soil as directed, within a lead of 50 m.all kinds of soil   | 2.8.1    | 61.77    | CUM  | 260.30  | 16,078.73          |                       |
| 2                                 | Extra for every additional lift of 1.5 m or part thereof in excavation / banking excavated or stacked materials.<br>All kinds of soil  | 2.26.1   | 24.47    | CUM  | 126.80  | 3,102.80           |                       |
| <b>B</b>                          | <b>Concrete Work</b>   |          |          |      |         |                    |                       |
| 3                                 | Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level : 1:5:10 (1 Cement : 5 coarse sand (zone-III) derived from natural sources : 10 graded stone aggregate 40 mm nominal size derived from natural sources)   | 4.1.10   | 3.03     | CUM  | 6518.00 | 19,749.54          |                       |
| 4                                 | Providing and laying damp-proof course 40mm thick with cement concrete 1:2:4 (1 cement : 2 coarse sand (zone-III): 4 graded stone aggregate 12.5mm nominal size)   | 4.10     | 3.150    | SQM  | 410.85  | 1,294.18           |                       |
| 5                                 | Providing & applying a coat of residual petroleum bitumen of grade of VG-10 of approved quality using 1.7kg per square metre on damp proof course after cleaning the surface with brushes and finally with a piece of cloth lightly soaked in kerosene oil.  | 4.13     | 3.150    | SQM  | 146.15  | 460.37             |                       |
| <b>C</b>                          | <b>Reinforced Cement Concrete</b>  |          |          |      |         |                    |                       |
| 6                                 | Providing and laying in position ready mixed or site batched design mix cement concrete for reinforced cement concrete work; using coarse aggregate and fine aggregate derived from natural sources, Portland Pozzolana / Ordinary Portland /Portland Slag cement, admixtures in recommended proportions as per IS: 9103 to accelerate / retard setting of concrete, to improve durability and workability without impairing strength; including pumping of concrete to site of laying, curing, carriage for all leads; but excluding the cost of centering, shuttering, finishing and reinforcement as per direction of the engineer-in-charge; for the following grades of concrete.<br>Note: Extra cement up to 10% of the minimum specified cement content in design mix shall be payable separately. In case the cement content in design mix is more than 1.10 times of the specified minimum cement content, the contractor shall have discretion to either re-design the mix or bear the cost of extra cement. |          |          |      |         |                    |                       |
| (a)                               | <b>Upto plinth level</b>   |          |          |      |         |                    |                       |
|                                   | (i) R.C.C. work in Footing   | 5.33.1.1 | 6.280    | CUM  | 9504.75 | 59,689.83          |                       |
|                                   | (ii) R.C.C. work in Beam   | 5.33.1.1 | 1.210    | CUM  | 9504.75 | 11,500.75          |                       |
|                                   | (iii) R.C.C. work in Columns   | 5.33.1.1 | 2.440    | CUM  | 9504.75 | 23,191.59          |                       |
| (b)                               | <b>Above plinth to floor-V lvi</b>   |          |          |      |         |                    |                       |
|                                   | Providing and laying in position ready mixed or site batched design mix cement concrete for reinforced cement concrete work; using coarse aggregate and fine aggregate derived from natural sources, Portland Pozzolana / Ordinary Portland /Portland Slag cement, admixtures in recommended proportions as per IS: 9103 to accelerate / retard setting of concrete, to improve durability and workability without impairing strength; including pumping of concrete to site of laying, curing, carriage for all leads; but excluding the cost of centering, shuttering, finishing and reinforcement as per direction of the engineer-in-charge; for the following grades of concrete.Note: Extra cement up to 10% of the minimum specified cement content in design mix shall be payable separately. In case the cement content in design mix is more than 1.10 times of the specified minimum cement content, the contractor shall have discretion to either re-design the mix or bear the cost of extra cement.     |          |          |      |         |                    |                       |
|                                   | (i) R.C.C. work in Beam  | 5.33.2.1 | 4.550    | CUM  | 9860.40 | 44,864.82          |                       |
|                                   | (ii) R.C.C. work in Columns  | 5.33.2.1 | 4.540    | CUM  | 9860.40 | 44,766.22          |                       |
|                                   | (iii) R.C.C. work in Slab  | 5.33.2.1 | 10.970   | CUM  | 9860.40 | 108,168.59         |                       |
| 7                                 | Centering and shuttering including strutting, propping etc. and removal of form for all heights :  |          |          |      |         |                    |                       |
| (a)                               | Foundations, footings, bases of columns, etc. for mass concrete.   | 5.9.1    | 20.730   | SQM  | 392.15  | 8,129.27           |                       |
| (b)                               | Columns,Pillars, Piers, Abutments, Posts and Struts.   | 5.9.6    | 92.880   | SQM  | 961.30  | 89,285.54          |                       |
| (c)                               | Suspended floors, roofs, landings, balconies and access platform. with water proof ply 12 mm thick   | 5.9.20   | 73.150   | SQM  | 1028.40 | 75,227.46          |                       |
| (d)                               | Lintels, beams, plinth beams, girders, bressumers and cantilevers. with water proof ply 12 mm thick  | 5.9.21   | 58.530   | SQM  | 841.95  | 49,279.33          |                       |

|          |  |          |          |     |         |            |        |
|----------|--|----------|----------|-----|---------|------------|--------|
| 8        | Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete <b>upto plinth level</b> . Thermo-Mechanically Treated bars of grade Fe-500D or more.  | 5.22.6   | 1305.00  | Kg  | 107.85  | 140,744.25 |        |
| 9        | Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete <b>above plinth level</b> . Thermo-Mechanically Treated bars of grade Fe-500 D or more.  | 5.22.A.6 | 2823.00  | Kg  | 107.85  | 304,460.55 |        |
| <b>D</b> | <b>Masonry Work</b>  |          |          |     |         |            |        |
| 10       | Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in superstructure above plinth level up to floor V level in all shapes and sizes in : Cement mortar 1:6 (1 cement : 6 coarse sand)  | 6.4.2    | 19.260   | CUM | 9105.95 | 175,380.60 |        |
| <b>F</b> | <b>Wood and PVC Work</b>   |          |          |     |         |            |        |
| 11       | Providing and fixing ISI marked flush door shutters conforming to IS : 2202 (Part I) non-decorative type, core of block board construction with frame of 1st class hard wood and well matched commercial 3 ply veneering with vertical grains or cross bands and face veneers on both faces of shutters:35 mm thick including ISI marked Stainless Steel butt hinges with necessary screws.  | 9.21.1   | 1.58     | SQM | 2392.65 | 3,780.39   |        |
| 12       | Providing and fixing M.S. grills of required pattern in frames of windows etc. with M.S. flats, square or round bars etc. including priming coat with approved steel primer all complete. Fixed to steel windows by welding.   | 9.48.1   | 9.72     | KG  | 219.10  | 2,129.65   |        |
| 13       | Providing and fixing aluminium hanging floor door stopper ISI marked anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour or shade with necessary screws etc. complete. Twin rubber stopper   | 9.101.2  | 1.00     | NOS | 72.35   | 72.35      |        |
| 14       | Providing and fixing bright /matt finished Stainless Steel handles of approved quality & make with necessary screws etc all complete(a) 125 mm.  | 9.165.1  | 2.00     | NOS | 119.20  | 238.40     |        |
| 15       | Providing & fixing Stainless steel sliding door bolts ISI marked anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour or shade with nuts and screws etc complete. (a) 250mm x 16mm .  | M.R.     | 1.00     | NOS | 560.00  |            | 560.00 |
| 16       | Providing and fixing stainless steel towerbolts (barrel type) with necessary screws etc. complete.   |          |          |     |         |            | -      |
|          | 300 x 10mm   | M.R.     | 1.00     | NOS | 448.00  |            | 448.00 |
|          | 200 x 10mm   | M.R.     | 1.00     | NOS | 392.00  |            | 392.00 |
|          |  |          |          |     |         |            | -      |
| <b>G</b> | <b>Steel Work</b>  |          |          |     |         |            |        |
| 17       | Providing and fixing factory made ISI marked steel glazed doors, windows and ventilators, side /top /centre hung, with beading and all members such as F7D, F4B, K11 B and K12 B etc. complete of standard rolled steel sections, joints mitred and flash butt welded and sash bars tenoned and riveted, including providing and fixing of hinges, pivots, including priming coat of approved steel primer, but excluding the cost of other fittings, complete all as per approved design, (sectional weight of only steel members shall be measured for payment). Fixing with 15x3 mm lugs 10 cm long embedded in cement concrete block 15x10x10 cm of C.C. 1:3:6 (1 Cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size). | 10.11.1  | 12.96    | KG  | 131.05  | 1,698.41   |        |
| 18       | Providing and fixing T-iron frames for doors, windows and ventilators of mild steel Tee-sections, joints mitred and welded, including fixing of necessary butt hinges and screws and applying a priming coat of approved steel primer  |          |          |     |         |            |        |
|          | Fixing with 15x3 mm lugs 10 cm long embedded in cement concrete block 15x10x10 cm of C.C. 1:3:6 (1 Cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size)   | 10.13.1  | 32.850   | KG  | 141.70  | 4,654.85   |        |
| 19       | Steel work welded in built up sections/ framed work, including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer using structural steel etc. as required. In gratings, frames, guard bar, ladder, railings, brackets, gates and similar works   | 10.25.2  | 1350.000 | KG  | 172.60  | 233,010.00 |        |
| 20       | Providing & fixing glass panes with putty and glazing clips in steel doors, windows, clerestory windows, all complete with : 4.0 mm thick glass panes.   | 10.30.1  | 0.540    | SQM | 1064.65 | 574.91     |        |
| <b>H</b> | <b>Flooring</b>  |          |          |     |         |            |        |
| 21       | Kota stone slab flooring over 20 mm (average) thick base laid over and jointed with grey cement slurry mixed with pigment to match the shade of the slab, including rubbing and polishing complete with base of cement mortar 1 : 4 (1 cement : 4 coarse sand) :   | 11.26    | 4.240    | SQM | 1948.25 | 8,260.58   |        |

|          |  |         |         |                    |              |                     |                 |
|----------|--|---------|---------|--------------------|--------------|---------------------|-----------------|
| 22       | Kota stone slabs 20 mm thick in risers of steps, skirting, dado and pillars laid on 12 mm (average) thick cement mortar 1:3 (1 cement: 3 coarse sand) and jointed with grey cement slurry mixed with pigment to match the shade of the slabs, including rubbing and polishing complete   | 11.27   | 1.620   | SQM                | 2354.70      | 3,814.61            |                 |
| <b>I</b> | <b>Finishing</b>   |         |         |                    |              |                     |                 |
| 23       | 12 mm cement plaster on the fair side of single or half brick wall (a) 1:6 (1 cement: 6 coarse sand)   | 13.4.2  | 142.060 | SQM                | 343.65       | 48,818.92           |                 |
| 24       | 15 mm cement plaster on rough side of single or half brick wall of mix : 1:4 (1 cement: 4 coarse sand).  | 13.5.1  | 5.350   | SQM                | 411.75       | 2,202.86            |                 |
| 25       | 15 mm cement plaster on the rough side of single or half brick wall of mix : 1:6 (1 cement: 6 coarse sand)   | 13.5.2  | 84.000  | SQM                | 395.35       | 33,209.40           |                 |
|          |  |         |         |                    |              |                     |                 |
| 26       | 6 mm cement plaster on ceiling (a) 1:3(1 cement:3 fine sand)   | 13.16.1 | 27.05   | SQM                | 300.45       | 8,127.17            |                 |
|          |  |         |         |                    |              |                     |                 |
| 27       | Distempering with oil bound washable distemper of approved brand and manufacture to give an even shade : New work (two or more coats) over and including water thinnable priming coat with cement primer.  | 13.41.1 | 111.050 | SQM                | 185.65       | 20,616.43           |                 |
|          |  |         |         |                    |              |                     |                 |
| 28       | Finishing walls with water proofing cement paint of required shade : New work (Two or more coats applied @ 3.84 kg/10 sqm)   | 13.44.1 | 142.060 | SQM                | 116.90       | 16,606.81           |                 |
|          | <b>Applying priming coat:</b>  |         |         |                    |              |                     |                 |
| 29       | With ready mixed pink or Grey primer of approved brand and manufacture on wood work (hard and soft wood)   | 13.50.1 | 3.150   | SQM                | 74.65        | 235.15              |                 |
| 30       | With ready mixed red oxide zink chromate primer of approved brand and manufacture on steel galvanised iron/steel works.  | 13.50.3 | 37.49   | SQM                | 67.40        | 2,526.83            |                 |
| 31       | Painting with synthetic enamel paint of approved brand and manufacture to give an even shade: Two or more coats on new work.   | 13.61.1 | 40.64   | SQM                | 155.90       | 6,335.78            |                 |
|          |  |         |         |                    |              |                     |                 |
| 32       | Providing and applying white cement based putty of average thickness 1 mm, of approved brand and manufacturer, over the plastered wall surface to prepare the surface even and smooth complete.  | 13.80   | 258.460 | SQM                | 156.05       | 40,332.68           |                 |
| <b>J</b> | <b>Water Proofing</b>  |         |         |                    |              |                     |                 |
|          |  |         |         |                    |              |                     |                 |
| 33       | Providing and laying integral cement based water proofing treatment including preparation of surface as required for treatment of roofs, balconies, terraces etc consisting of following operations:   |         |         |                    |              |                     |                 |
|          | (a) Applying a slurry coat of neat cement using 2.75 kg/sqm of cement admixed with water proofing compound conforming to IS. 2645 and approved by Engineer-in-charge over the RCC slab including adjoining walls upto 300  |         |         |                    |              |                     |                 |
|          | (b) Laying brick bats with mortar using broken bricks/brick bats 25 mm to 115 mm size with 50% of cement mortar 1:5 (1 cement : 5 coarse sand) admixed with water proofing compound conforming to IS : 2645 and approved by Engineerin- charge over 20 mm thick layer of cement mortar of mix 1:5 (1 cement :5 coarse sand ) admixed with water proofing compound conforming to IS : 2645 and approved by Engineerin- charge to required slope and treating similarly the adjoining walls upto 300 mm height including rounding of junctions of walls and slabs. |         |         |                    |              |                     |                 |
|          | (c) After two days of proper curing applying a second coat of cement slurry using 2.75 kg/ sqm of cement admixed with water proofing compound conforming to IS : 2645 and approved by Engineer-in-charge.  |         |         |                    |              |                     |                 |
|          | (d) Finishing the surface with 20 mm thick jointless cement mortar of mix 1:4 (1 cement :4 coarse sand) admixed with water proofing compound conforming to IS : 2645 and approved by Engineer-in-charge including laying glass fibre cloth of approved quality in top layer of plaster and finally finishing the surface with trowel with neat cement slurry and making pattern of 300x300 mm square 3 mm deep.  |         |         |                    |              |                     |                 |
|          | (e) The whole terrace so finished shall be flooded with water for a minimum period of two weeks for curing and for final test."All above operations to be done in order and as directed and specified by the Engineer-in-Charge :  |         |         |                    |              |                     |                 |
|          | With average thickness of 120 mm and minimum thickness at khurra as 65 mm.   | 22.7.1  | 54.570  | SQM                | 1684.60      | 91,928.62           |                 |
|          |  |         |         |                    | <b>TOTAL</b> | <b>1,704,549.22</b> | <b>1,400.00</b> |
|          |  |         |         | <b>SAY IN LACS</b> | <b>17.05</b> | <b>0.01</b>         |                 |

| BILL OF QUANTITIES FOR ELECTRICAL WORKS ( MAIN GATE ) |         |   |       |          |              |                |                |
|---|---------|---|-------|----------|--------------|----------------|----------------|
| S.No  | SCH NO. | DESCRIPTION   | UNIT  | Quantity | RATE (in Rs) | AMOUNT (in Rs) | AMOUNT (in Rs) |
| I   |         | <b>SUB HEAD (I) :- INTERNAL WIRING</b>  |       |          |              |                |                |
| 1   |         | <b>Point wiring in PVC conduit, with modular type switch :-</b>   |       |          |              |                |                |
|   | 1.1     | <b>Wiring for light point/ fan point/ exhaust fan point/ call bell point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable in surface / recessed medium class pvc conduit, with modular switch, modular plate, suitable GI box and earthing the point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable etc. as required.</b> |       |          |              |                |                |
|   | 1.1.1   | Group A   | Point | 4.00     | 1221.00      | 4,884.00       |                |
|   | 1.54    | Wiring for group controlled (looped) light point/fan point/exhaust fan point/ call bell point ( without independent switch etc.) with 1.5 sq. mm FRLS PVC insulated copper conductor single core cable in surface/ recessed PVC conduit, and earthing the point with 1.5 sq. mm FRLS PVC insulated copper conductor single core cable etc. as required.             |       |          |              |                |                |
|   | 1.54.1  | Group A   | Point | 1.00     | 777.00       | 777.00         |                |
| 2   |         | <b>Twin Control Point wiring in PVC conduit, with modular type switch :-</b>  |       |          |              |                |                |
|   | 1.9     | Wiring for twin control light point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable in surface / recessed medium class pvc conduit, 2 way modular switch, modular switch, suitable M.S. box and earthing the point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable etc. as required.                                      | Point | 1.00     | 1457.00      | 1,457.00       |                |
| 3   |         | <b>Power plug wiring in PVC conduit (2 x 4 Sq.Mm.) :-</b>   |       |          |              |                |                |
|   | 1.12    | Wiring for light/ power plug with 2X4 sq. mm FRLS PVC insulated copper conductor single core cable in surface/ recessed medium class pvc conduit alongwith 1 No. 4 sq. mm FRLS PVC insulated copper conductor single core cable for loop earthing as required.  | M     | 30.00    | 334.00       | 10,020.00      |                |
| 4   |         | <b>Circuit / Sub main wiring in PVC conduit :-</b>  |       |          |              |                |                |
|   | 1.14    | <b>Wiring for circuit/ submain wiring alongwith earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface/ recessed medium class pvc conduit as required.</b>  |       |          |              |                |                |
|   | 1.14.1  | 2 X 1.5 sq. mm + 1 X 1.5 sq. mm earth wire.   | M     | 5.00     | 233.00       | 1,165.00       |                |
|   | 1.14.2  | 2 X 2.5 sq. mm + 1 X 2.5 sq. mm earth wire.   | M     | 30.00    | 275.00       | 8,250.00       |                |
|   | 1.14.4  | 2 x 6 sq.mm. + 1 x 6 sq.mm. Earth wire  | M     | 10.00    | 439.00       | 4,390.00       |                |
|   | 1.14.5  | 2 x 10 sq.mm. + 1 x 6 sq.mm. Earth wire   | M     | 5.00     | 570.00       | 2,850.00       |                |
|   | 1.14.10 | 4 x 10 sq.mm. + 2 x 6 sq.mm. Earth wire   | M     | 0.00     | 1005.00      | -              |                |
| 6   |         | <b>S/F light plug point Modular type accessories :-</b>   |       |          |              |                |                |
|   | 1.31    | Supply and fixing of suitable size GI box with modular plate and cover in front on surface or in recess including providing and fixing 3 pin 5/6 amps modular socket outlet and 5/6 amps. modular switch, connection etc. as required.  | Each  | 2.00     | 477.00       | 954.00         |                |
| 7   |         | <b>S/F power plug point modular type accessories :-</b>   |       |          |              |                |                |
|   | 1.32    | Supply and fixing of suitable size GI box with modular plate and cover in FRLS on surface or in recess, including providing and fixing 6 pin 5/6 & 15/16 amps modular socket outlet and 15/16 amps. modular switch, connection etc. as required.  | Each  | 2.00     | 586.00       | 1,172.00       |                |
| 8   | 2.18    | Supplying and fixing <b>20 amps</b> , 240 volts, SPN, industrial type socket outlet, with 2 poles and earth metal enclosed plug top along with 20 amps. "C" curve, <b>SP MCB</b> in sheet steel enclosure, on surface or in recess, with chained metal cover for the socket outlet, and complete with connections, testing and commissioning etc. as required.      | Each  | 2.00     | 1621.00      | 3,242.00       |                |
| 9   |         | <b>S/F modular type electronic fan regulator :-</b>   |       |          |              |                |                |
|   | 1.25    | Supply and fixing <b>two module</b> stepped type electronic <b>fan regulator</b> on the existing modular plate switch box including connections but excluding modular plate etc. as required.   | Each  | 1.00     | 369.00       | 369.00         |                |
| 10  |         | <b>S/F modular type blanking plate :-</b>   |       |          |              |                |                |
|   | 1.26    | Supply and fixing <b>modular blanking plate</b> on the existing modular plate & switch box excluding modular plate as required.   | Each  | 1.00     | 40.00        | 40.00          |                |
| II  |         | <b>SUB HEAD (II) :- DISTRIBUTION BOARDS &amp; MCB's</b>   |       |          |              |                |                |
| 1   | 2.3     | Supplying and fixing following way, <b>single pole and neutral, sheet steel, MCB distribution board, 240 V</b> , on surface/ recess, complete with tinned copper bus bar, neutral bus bar, earth bar, din bar, interconnections, powder painted including earthing etc. as required. (But without MCB/RCCB/Isolator)  |       |          |              |                |                |
|   | 2.3.2   | 8 way , Double door   | Each  | 1.00     | 2573.00      | 2,573.00       |                |
|   | 2.3.3   | 12 way , Double door  | Each  | 0.00     | 2315.00      | -              |                |

|     |                        |  |      |       |         |                  |                 |
|-----|------------------------|--|------|-------|---------|------------------|-----------------|
| 4   | 2.14                   | Supplying and fixing following rating, <b>double pole</b> , (single phase and neutral), 240 volts, <b>residual current circuit breaker (RCCB)</b> , having a sensitivity current upto 30 mA in the existing MCB DB complete with connections, testing and commissioning etc. as required.  |      |       |         |                  |                 |
|     | 2.14.2                 | 40 amps.   | Each | 0.00  | 2642.00 | -                |                 |
| 5   | 2.10                   | Supplying and fixing <b>5 amps. to 32 amps.</b> rating, 240 volts 'C' series, <b>miniature circuit breaker (MCB)</b> suitable for inductive load of following poles in the existing MCB DB complete with connections, testing and commissioning etc. as required.  |      |       |         |                  |                 |
|     | 2.10.1                 | single pole  | Each | 10.00 | 256.00  | 2,560.00         |                 |
| 6   | 2.11                   | Supplying & fixing single pole, <b>blanking plate</b> in the existing MCB DB complete etc. as required.  | Each | 1.00  | 13.00   | 13.00            |                 |
| 1   |                        | Supplying and fixing following rating, Single/ double/ three pole, 230/ 415 volts, MCB "C" curve in the existing MCB DB complete with connections, testing and commissioning etc. as required.   |      |       |         |                  |                 |
|     | NDSR                   | 40 amps DP MCB   | Each | 0.00  | 1012.00 | -                |                 |
|     | NDSR                   | 63 amps DP MCB   | Each | 1.00  | 1121.00 | 1,121.00         |                 |
| III |                        | <b>SUB HEAD (III) :- MISCELLANEOUS</b>   |      |       |         |                  |                 |
| 1   | 2.21                   | Providing and fixing <b>M.V. danger notice plate</b> of 200mmx150mm made of mild steel, atleast 2mm thick and vitreous enamelled white on both sides and with inscription single red colour on FRLSont side as required.   | Each | 1.00  | 269.00  | 269.00           |                 |
| 2   | 1.38                   | Supplying and fixing <b>call bell/buzzer</b> suitable for single phase, 230 volts, complete as required.   | NOS  | 1.00  | 99.00   | 99.00            |                 |
| 3   | 10.18 DSR-2021 (Civil) | Providing and fixing circular/ Hexagonal cast iron or M.S. sheet box for ceiling fan clamp, of internal dia 140 mm, 73 mm height, top lid of 1.5 mm thick M.S. sheet with its top surface hacked for proper bonding, top lid shall be screwed into the cast iron/ M.S. sheet box by means of 3.3 mm dia round headed screws, one lock at the corners. Clamp shall be made of 12 mm dia M.S. bar bent to shape as per standard drawing. | Each | 1.00  | 185.20  | 185.20           |                 |
| IV  |                        | <b>SUB HEAD(IV):-INTERNAL LIGHTING FIXTURES &amp; FANS</b>   |      |       |         |                  |                 |
|     |                        | <b>SUPPLY OF LIGHTING FIXTURES</b>   |      |       |         |                  |                 |
| 1   | NDSR                   | Supply of <b>15W SURFACE MOUNTED LED</b> with all accessories as per standard item.  | Each | 1.00  | 977.00  | 977.00           |                 |
| 2   | NDSR                   | Supply of <b>15W WALL BRACKET LED BULB</b> with all accessories as per standard item.  | Each | 1.00  | 336.00  | 336.00           |                 |
| 3   | NDSR                   | Supply of <b>20W SURFACE MOUNTED LED TUBE</b> with all accessories as per standard item.   | Each | 1.00  | 916.00  | 916.00           |                 |
| 3   | NDSR                   | Supply of <b>18W SURFACE MOUNTED LED TUBE</b> with all accessories as per standard item.   | Each | 0.00  | 1494.00 | -                |                 |
|     |                        | <b>SUPPLY OF CEILING &amp; EXHAUST FANS</b>  |      |       |         |                  |                 |
| 5   |                        | Supply of AC 230/250 volts, 50 HZ <b>ceiling fan</b> with standard down rod, blades, 2 nos. caps & regulator etc. ISI with 5 star marked & energy efficient complete as required. (Such as Havells Velocity/Velocity HS or Equivalent).  |      |       |         |                  |                 |
|     | 19.1                   | 1200 mm sweep  | Nos  | 1.00  | 2730.00 | 2,730.00         |                 |
| 6   |                        | Supply of AC 230/250 volts, 50 HZ <b>exhaust fans</b> including providing nuts, bolts, mounting FRLSame and other accessories etc. Complete as required (Such as Ventil Air - DX White or Equivalent).   |      |       |         |                  |                 |
|     | NDSR                   | 300 mm sweep 900 rpm   | Nos  | 1.00  | 2800.00 | 2,800.00         |                 |
|     |                        | <b>ERECTION OF LIGHTING FIXTURES AND FANS</b>  |      |       |         |                  |                 |
| 1   | 1.41                   | Installation, testing and commissioning of pre-wired, flourescent fitting / compact florescent fitting of all types, complete with all accessories and tubes etc. directly on ceiling / wall, including connection with 1.5 sq. mm. FRLS PVC insulated, copper conductor, single core cable and earthing etc. as required.   | Each | 3.00  | 206.00  | 618.00           |                 |
| 2   | 1.45                   | Installation, testing and commissioning of <b>ceiling fan</b> including wiring the down rod of standard length (upto 30 cm.) with 1.5 sq. mm. FRLS PVC insulated, copper conductor, single core cable, including providing and fixing phenolic laminated sheet cover on the fan box etc. as required.  | Each | 1.00  | 339.00  | 339.00           |                 |
| 3   | 1.50                   | Installation of <b>exhaust fan</b> in the existing opening, including making good the damage, connection, testing, commissioning etc. as required  |      |       |         |                  |                 |
|     | 1.50.1                 | Upto 450 mm sweep  | Each | 1.00  | 450.00  | 450.00           |                 |
|     |                        | <b>TOTAL SUB HEAD (IV)</b>   |      |       |         | <b>49,406.20</b> | <b>6,150.00</b> |