

DETAIL ESTIMATE OF PHASE-A WORK AT JNV RAMBAN , JAMMU & KASHMIR

SUMMARY OF COST

S.N.	Description	Amount as per Detailed Estimate		
		DSR-2022	DSR-2021	Market Rate
1	SCHOOL BUILDING (G+1) RCC FRAME STRUCTURE AREA = 2064 SQM	26.15	474.49	15.45
	PORCH AREA = 51.22 SQM			
2	KITCHEN AND DINNING (G) RCC FRAME STRUCTURE AREA = 757.00 SQM	7.92	227.36	5.71
3	1.00 UNIT DORMITORY (G+3) RCC FRAME STRUCTURE FOR 192 BOYS WITH 4 WARDEN RESIDENCE. AREA =1620 SQM	17.87	388.13	12.02
4	0.50 UNIT DORMITORY (G+3) RCC FRAME STRUCTURE FOR 96 BOYS WITH 4 WARDEN RESIDENCE. AREA = 920 SQM	9.38	218.69	6.43
5	1.00 UNIT DORMITORY (G+3) RCC FRAME STRUCTURE FOR 192 GIRLS WITH 4 WARDEN RESIDENCE. AREA = 1620 SQM	17.87	384.39	12.02
6	PRINCIPAL RESIDENCE (G) RCC FRAMED STRUCTURE. AREA = 106.00 SQM	2.40	30.54	1.45
7	TYPE-III QUARTERS (G+2), RCC FRAMED STRUCTURE 18 NOS. AREA = 60X18 = 1080 SQM	10.39	294.75	10.45
8	TYPE-II QUARTERS (G+2), RCC FRAMED STRUCTURE AREA = 50x13 = 650 SQM	7.50	195.26	7.42
9	SUB STATION (G), RCC FRAMED STRUCTURE AREA = 40 SQM	0.93	8.42	0.31
10	PUMP HOUSE (G), RCC FRAMED STRUCTURE AREA = 12 SQM	0.25	2.37	0.10
11	VICE PRINCIPAL RESIDENCE (G), RCC FRAMED STRUCTURE AREA = 90 SQM	2.40	25.47	1.41
12	GUEST HOUSE (G), RCC FRAMED STRUCTURE AREA = 60 SQM	1.11	20.02	0.71
	SUB TOTAL (A)	104.17	2,269.88	73.49
	Add additional GST @5.36% as per CPWD circular order dated 30.09.2022	5.58	121.67	
	SUB TOTAL (B)	109.75	2,391.54	73.49

S.N.	Description	Amount as per Detailed Estimate		
		DSR-2022	DSR-2021	Market Rate
	Add for Cost Index Based on PAR-19 as on 04/2019 of Awantipura (i.e 136.50/1.01/1.05 = 128.71 i.e 28.71% on (PAR-21, DSR-21 & DSR-22)	31.51	686.61	
	SUB TOTAL (B)	141.26	3,078.15	73.49
	SUB TOTAL (C)	3292.91		
	Add for Development		522.49	
	Add for Boundary wall		457.50	
	SUB TOTAL (D)	4272.89		

DETAIL ESTIMATE OF PHASE-A WORK AT JNV RAMBAN , JAMMU & KASHMIR

S.No.	PARTICULARS OF ITEMS	Amount As per Detailed BOQ		
		DSR-22 Items	DSR-2021 Items	NSR Items
1	SCHOOL BUILDING			
	Civil Work		46,647,478.30	-
	Plumbing Work		801,292.65	437,185.00
	Electrical Work	2,615,254.40		1,107,350.00
	Total	2,615,254.40	47,448,770.95	1,544,535.00
2	KITCHEN & DINNING			
	Civil Work		22,299,222.87	-
	Plumbing Work		436,845.85	146,855.00
	Electrical Work	791,881.00		424,361.00
	Total	791,881.00	22,736,068.72	571,216.00
3	1.00 UNIT BOYS DORMITORY WITH 4 NOS WARDEN RESIDENCE			
	Civil Work		36,697,396.73	287,236.11
	Plumbing Work		2,115,587.60	86,928.00
	Electrical Work	1,786,854.00		828,216.70
		1,786,854.00	38,812,984.33	1,202,380.81
4	0.50 UNIT BOYS DORMITORY WITH 4 NOS WARDEN RESIDENCE			
	Civil Work		20,699,414.86	167,116.86
	Plumbing Work		1,169,724.50	43,464.00
	Electrical Work	937,954.00		432,840.95
		937,954.00	21,869,139.36	643,421.81
5	1.00 UNIT GIRLS DORMITORY WITH 4 NOS WARDEN RESIDENCE			
	Civil Work		36,322,925.19	287,236.11
	Plumbing Work		2,115,587.60	86,928.00
	Electrical Work	1,786,854.00		828,216.70
		1,786,854.00	38,438,512.79	1,202,380.81
6	PRINCIPAL RESIDENCE			
	Civil Work		2,934,630.14	-
	Plumbing Work		119,049.10	91,685.00
	Electrical Work	240,092.40		53,270.00
	Total	240,092.40	3,053,679.24	144,955.00
7	TYPE-III QUARTERS			
	Civil Work		27,777,538.87	161,940.60

S.No.	PARTICULARS OF ITEMS	Amount As per Detailed BOQ		
		DSR-22 Items	DSR-2021 Items	NSR Items
	Plumbing Work		1,697,926.35	113,766.00
	Electrical Work	1,038,849.00		769,371.42
	Total	1,038,849.00	29,475,465.22	1,045,078.02
8	TYPE-II QUARTERS			
	Civil Work		18,300,066.06	104,263.14
	Plumbing Work		1,226,280.14	82,164.33
	Electrical Work	750,279.83		555,657.14
	Total	750,279.83	19,526,346.20	742,084.61
9	SUB STATION			
	Civil Work		841,859.78	5,550.00
	Electrical Work	93,132.00		25,770.00
	Total	93,132.00	841,859.78	31,320.00
10	PUMP ROOM			
	Civil Work		236,561.70	1,850.00
	Electrical Work	24,628.00		8,200.00
	Total	24,628.00	236,561.70	10,050.00
11	VICE PRINCIPAL RESIDENCE			
	Civil Work		2,427,600.28	-
	Plumbing Work		119,362.15	92,235.00
	Electrical Work	239,903.40		48,330.00
	Total	239,903.40	2,546,962.43	140,565.00
12	GUEST HOUSE			
	Civil Work		1,817,356.22	
	Plumbing Work		184,209.67	-
	Electrical Work	111,056.76		71,077.48
	Total	111,056.76	2,001,565.89	71,077.48

DETAIL ESTIMATE OF PHASE-A WORK AT JNV RAMBAN , JAMMU & KASHMIR

S.No.	PARTICULARS OF ITEMS	Amount As per Detailed BOQ		
		DSR-22 Items	DSR-2021 Items	NSR Items
1	SCHOOL BUILDING			
	Civil Work		46,647,478.30	-
	Plumbing Work		801,292.65	437,185.00
	Electrical Work	2,615,254.40		1,107,350.00
	Total	2,615,254.40	47,448,770.95	1,544,535.00
2	KITCHEN & DINNING			
	Civil Work		22,299,222.87	-
	Plumbing Work		436,845.85	146,855.00
	Electrical Work	791,881.00		424,361.00
	Total	791,881.00	22,736,068.72	571,216.00
3	1.00 UNIT BOYS DORMITORY WITH 4 NOS WARDEN RESIDENCE			
	Civil Work		36,697,396.73	287,236.11
	Plumbing Work		2,115,587.60	86,928.00
	Electrical Work	1,786,854.00		828,216.70
		1,786,854.00	38,812,984.33	1,202,380.81
4	0.50 UNIT BOYS DORMITORY WITH 4 NOS WARDEN RESIDENCE			
	Civil Work		20,699,414.86	167,116.86
	Plumbing Work		1,169,724.50	43,464.00
	Electrical Work	937,954.00		432,840.95
		937,954.00	21,869,139.36	643,421.81
5	1.00 UNIT GIRLS DORMITORY WITH 4 NOS WARDEN RESIDENCE			
	Civil Work		36,322,925.19	287,236.11
	Plumbing Work		2,115,587.60	86,928.00
	Electrical Work	1,786,854.00		828,216.70
		1,786,854.00	38,438,512.79	1,202,380.81
6	PRINCIPAL RESIDENCE			
	Civil Work		2,934,630.14	-
	Plumbing Work		119,049.10	91,685.00
	Electrical Work	240,092.40		53,270.00
	Total	240,092.40	3,053,679.24	144,955.00
7	TYPE-III QUARTERS			
	Civil Work		27,777,538.87	161,940.60

S.No.	PARTICULARS OF ITEMS	Amount As per Detailed BOQ		
		DSR-22 Items	DSR-2021 Items	NSR Items
	Plumbing Work		1,697,926.35	113,766.00
	Electrical Work	1,038,849.00		769,371.42
	Total	1,038,849.00	29,475,465.22	1,045,078.02
8	TYPE-II QUARTERS			
	Civil Work		18,300,066.06	104,263.14
	Plumbing Work		1,226,280.14	82,164.33
	Electrical Work	750,279.83		555,657.14
	Total	750,279.83	19,526,346.20	742,084.61
9	SUB STATION			
	Civil Work		841,859.78	5,550.00
	Electrical Work	93,132.00		25,770.00
	Total	93,132.00	841,859.78	31,320.00
10	PUMP ROOM			
	Civil Work		236,561.70	1,850.00
	Electrical Work	24,628.00		8,200.00
	Total	24,628.00	236,561.70	10,050.00
11	VICE PRINCIPAL RESIDENCE			
	Civil Work		2,427,600.28	-
	Plumbing Work		119,362.15	92,235.00
	Electrical Work	239,903.40		48,330.00
	Total	239,903.40	2,546,962.43	140,565.00
12	GUEST HOUSE			
	Civil Work		1,817,356.22	
	Plumbing Work		184,209.67	-
	Electrical Work	111,056.76		71,077.48
	Total	111,056.76	2,001,565.89	71,077.48

DETAIL ESTIMATE OF PHASE-A WORK AT JNV RAMBAN, JAMMU AND KASHMIR							
ABSTRACT OF COST							
[SCHOOL BUILDING]							
S.N.	DESCRIPTION OF ITEM	DSR-2021	QUANTITY	UNIT	RATES	AMOUNT DSR ITEM	AMOUNT [M.R. ITEM]
1	Earth work in excavation by mechanical means (Hydraulic excavator) /manual means in foundation trenches or drains (not exceeding 1.5 m inwidth or 10 sqm on plan), including dressing of sides and ramming ofbottoms, 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	662.15	CUM	286.85	189937.73	
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 up to 50 m and lift upto 1.5 m.	2.25	397.29	CUM	253.95	100891.80	
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	25.66	CUM	6050.65	155259.68	
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).						
(I)	Upto plinth level						
	(i) R.C.C. work in Footing	5.33.1	129.70	CUM	7997.30	1037219.65	
	(ii) R.C.C. work in Beam	5.33.1	120.96	CUM	7997.30	967353.41	
	(iii) R.C.C. work in Columns	5.33.1	52.57	CUM	7997.30	420418.06	
	(iv) R.C.C. work in Grade Slab	5.33.1	89.50	CUM	7997.30	715758.35	
(II)	Above plinth to floor-V lvl						
	Same as above but R.C.C. work above plinth Lvl.						
	(i) R.C.C. work in Lintel	5.33.2	6.78	CUM	10080.15	68343.42	
	(ii) R.C.C. work in Beam	5.33.2	211.96	CUM	10080.15	2136588.59	
	(iii) R.C.C. work in Columns	5.33.2	110.10	CUM	10080.15	1109824.52	
	(iv) R.C.C. work in Slab	5.33.2	256.78	CUM	10080.15	2588380.92	
5	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	59961.23	kg	89.65	5375524.27	
6	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	90186.70	kg	89.65	8085237.66	
7	Add for plaster drip course/ groove in plastered surface or moulding to R.C.C. projections.	5.30	204.14	meter	64.70	13207.86	
8	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	192.61	SQM	307.95	59314.25	
	(b) Suspended floors, roofs, landings, balconies and access platform	5.9.3	2577.33	SQM	766.55	1975652.31	
	(c) Lintels, beams, plinth beams, girders, bressumers and cantilevers.	5.9.5	3126.51	SQM	608.35	1902013.70	
	(d) Columns, Pillars, Piers, Abutments, Posts and Struts.	5.9.6	1468.29	SQM	804.25	1180872.23	
	(e) Edges of slabs and breaks in floors and walls Under 20 cm wide.	5.9.16.1	455.48	RM	181.90	82851.81	
9	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	8.50	CUM	6658.25	56595.13	
10	Providing and laying autoclaved aerated cement blocks masonry with 150mm/230mm/300 mm thick AAC blocks in super structure above plinth level up to floor V level with RCC band at sill level and lintel level with approved block laying polymer modified adhesive mortar all complete as per direction of Engineer-in-Charge. (The payment of RCC band and reinforcement shall be made for seperately).	6.47	466.75	CUM	6994.15	3264519.51	
11	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	132.66	Sqm	1018.05	135054.51	
12	Extra for providing and placing in position 2 Nos 6mm dia. M.S. bars at every third course of half brick masonry.	6.15	132.66	SQM	86.45	11468.46	
13	Providing and laying water proofing treatment to vertical and horizontal surfaces of depressed portions of W.C., kitchen and the like consisting of:						
	(a) Ist course of applying cement slurry @ 4.4 kg/sqm mixedwith water proofing compound conforming to IS 2645 in recommended proportions including rounding off junction of vertical and horizontal surface.						
	(b) IInd course of 20 mm cement plaster 1:3 (1 cement : 3 coarse sand) mixed with water proofing compound in recommended proportion including rounding off junction of vertical and horizontal surface.						
	(c) IIIrd course of applying blown or residual bitumen applied hot at 1.7 kg. per sqm of area.						
	(d) IVth course of 400 micron thick PVC sheet. (Overlaps at joints of PVC sheet should be 100 mm wide and pasted to each other with bitumen @ 1.7 kg/sqm).	22.3	58.45	SQM	774.25	45254.91	
14	Providing and laying four courses water proofing treatment with bitumen felt over roofs consisting of first and third courses of blown bitumen 85/25 or 90/15 conforming to IS : 702 applied hot @ 1.45 Kg per square metre of area for each course, second course of roofing felt type 3 grade-I (hessian based self finished bitumen felt) and fourth and final course of stone grit 6 mm and down size or pea sized gravel spread at 6 cubic decimeter per square metre, including preparation of surface but excluding grading complete with :	22.8					
	Bitumen felt (hessian base) type 3 grade I conforming to IS : 1322	22.8.1	758.74	SQM	432.10	327851.55	
15	Grading roof for water proofing treatment with	22.14					

S.N.	DESCRIPTION OF ITEM	DSR-2021	QUANTITY	UNIT	RATES	AMOUNT DSR ITEM	AMOUNT [M.R. ITEM]
	Cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20mm nominal size)	22.14.1	75.87	Cum	7510.75	569840.60	
16	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. 35 mm thick including ISI marked Stainless Steel butt hinges with necessary screws.						
(a)	Single Leaf	9.20.1	173.63	SQM	3086.10	535839.54	
(b)	Double Leaf	9.20.1+9.26	5.40	SQM	3179.75	17170.65	
17	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	179.03	SQM	401.40	71862.64	
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	1689.28	KG	114.65	193675.95	
19	Providing and fixing factory made uPVC white colour sliding glazed window upto 1.50 m in height dimension comprising of uPVC multi-chambered frame with in-built roller track and sash extruded profiles duly reinforced with 1.60 ± 0.2 mm thick galvanized mild steel section made from roll forming process of required length (shape & size according to uPVC profile), appropriate dimension of uPVC extruded glazing beads and uPVC extruded interlocks, EPDM gasket, wool pile, zinc alloy (white powder coated) touch locks with hook, zinc alloy body with single nylon rollers (weight bearing capacity to be 40 kg), G.I fasteners 100 x 8 mm size for fixing frame to finished wall and necessary stainless steel screws etc. Profile of frame & sash shall be mitred cut and fusion welded at all corners, including drilling of holes for fixing hardware's and drainage of water etc. After fixing frame the gap between frame and adjacent finished wall shall be filled with weather proof silicon sealant over backer rod of required size and of approved quality, all complete as per approved drawing & direction of Engineer-in-Charge. (Single / double glass panes, wire mesh and silicon sealant shall be paid separately). Variation in profile dimension in higher side shall be accepted but no extra payment on this account shall be made.	9.147					
	Three track three panels sliding window with fly proof S.S wire mesh (Two nos. glazed & one no. wire mesh panels) made of (big series) frame 116 x 45 mm & sash 46 x 62 mm both having wall thickness of 2.3 ± 0.2 mm and single glazing bead / double glazing bead of appropriate dimension. (Area of window above 1.75 sqm).	9.147D.4	285.60	SQM	9642.60	2753926.56	
20	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.M.S. tube	10.26.1	2374.40	KG	157.15	373136.96	
21	Providing and fixing factory made uPVC white colour fixed glazed windows/ ventilators comprising of uPVC multi-chambered frame and mullion (where ever required) extruded profiles duly reinforced with 1.60 ± 0.2 mm thick galvanized mild steel section made from roll forming process of required length (shape & size according to uPVC profile), uPVC extruded glazing beads of appropriate dimension, EPDM gasket, G.I fasteners 100 x 8 mm size for fixing frame to finished wall, plastic packers, plastic caps and necessary stainless steel screws etc. Profile of frame shall be mitred cut and fusion welded at all corners, mullion (if required) shall be also fusion welded including drilling of holes for fixing hardware's and drainage of water etc. After fixing frame the gap between frame and adjacent finished wall shall be filled with weather proof silicon sealant over backer rod of required size and of approved quality, all complete as per approved drawing & direction of Engineer-in-Charge. (Single / double glass panes and silicon sealant shall be paid separately). Variation in profile dimension in higher side shall be accepted but no extra payment on this account shall be made.	9.147B					
	Fixed window / ventilator made of (small series) frame 47 x 50 mm & mullion 47 x 68 mm both having wall thickness of 1.9 ± 0.2 mm and single glazing bead of appropriate dimension.	9.147B.1	86.94	SQM	7249.90	630306.31	
22	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	49.32	SQM	940.30	46375.60	
23	Add for plaster drip course/ groove in plastered surface or moulding to R.C.C. projections.	5.30	559.74	RM	64.70	36215.18	
24	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	2397.76	SQM	339.10	813080.42	
25	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	2466.39	SQM	294.35	725981.90	
26	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	153.14	SQM	1416.65	216945.78	
27	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	12.95	SQM	1466.50	18983.84	

S.N.	DESCRIPTION OF ITEM	DSR-2021	QUANTITY	UNIT	RATES	AMOUNT DSR ITEM	AMOUNT [M.R. ITEM]
28	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	61.60	SQM	1515.45	93351.72	
29	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	3.20	SQM	1637.70	5240.64	
30	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	1582.90	SQM	1706.60	2701377.14	
31	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	179.89	SQM	2038.55	366714.76	
32	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.	11.37	95.73	SQM	935.60	89564.99	
33	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	350.81	SQM	1063.45	373063.58	
34	Steel Painting:						
	(a) With ready mixed red oxide zink chromate primer of approved brand and manufacture on steel galvanised iron/steel works.	13.50.3	354.00	SQM	55.50	19647.00	
	(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	354.00	SQM	131.45	46533.30	
35	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	4138.21	SQM	162.55	672666.04	
36	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).	(DSR-13.47.1)	2397.76	SQM	162.35	389276.34	
37	Providing and fixing ISI marked oxidised M.S. single acting spring hinges with necessary screws etc. complete : 150 mm	9.59 9.59.1	128.00	NOS	251.70	32217.60	
38	Providing and fixing oxidised M.S. hasp and staple (safety type) conforming to IS : 363 with necessary screws etc. complete : 90 mm	9.67 9.67.3	128.00	NOS	22.10	2828.80	
39	Providing and fixing special quality bright finished brass cupboard or ward robe locks with four levers of approved quality including necessary screws etc. complete. 75 mm	9.79 9.79.4	20.00	NOS	333.15	6663.00	
40	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. 50x50 mm (base and height)	9.111 9.111.1	24.20	meter	310.40	7511.68	
41	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 .	9.96.2	128.00	NOS	234.90	30067.20	
42	Providing and fixing stainless steel towerbolts (barrel type) with necessary screws etc. complete. 300 x 10mm 200 x 10mm	9.97 9.97.1 9.97.3	128.00 128.00	NOS NOS	117.65 90.80	15059.20 11622.40	
43	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) 125 mm.	9.100.1	128.00	NOS	60.05	7686.40	
44	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	128.00	NOS	62.25	7968.00	
45	Expansion Joint Treatment						
i)	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						

S.N.	DESCRIPTION OF ITEM	DSR-2021	QUANTITY	UNIT	RATES	AMOUNT DSR ITEM	AMOUNT [M.R. ITEM]	
	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 resist 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	90.00	RM	5424.20	488178.00		
ii)	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.)							
	Wall Joint of 100 mm gap	5.45.1	301.78	RM	4835.50	1459278.47		
46	Chequered terrazo tiles 22 mm thick with graded marble chips of size up to 6 mm in floors, jointed with neat cement slurry mixed with pigment to match the shade of the tiles, including rubbing and polishing complete, on 20 mm thick bed of cement mortar 1:4 (1 cement :4 coarse sand) : Light shade pigment using white cement.	11.19.1	17.280	SQM	1295.20	22381.06		
47	Float glass panes 5.0 mm thick glass panes (weight not less than 12.50 kg/sqm).	dsr-9.7.7.2	354.000	SQM	2231.20	789844.80		
					TOTAL	46,647,478.30	-	
					Say Rs. in Lacs	466.47		

DETAIL ESTIMATE OF PHASE-A WORK AT JNV KISHTWAR , JAMMU & KASHMIR			
SUMMARY OF COST FOR INTERNAL PLUMBING & SANITATION WORK (SCHOOL BUILDING)			
S.NO	NAME OF SUB-HEAD	AMOUNT	
		DSR-2021	NON-DSR
1	SANITARY FIXTURES	211114.00	30320.00
2	TOILET REQUISIES	12779.05	
3	SOIL , WASTE, VENT AND RAIN WATER PIPES AND FITTINGS	3416.70	276475.00
4	WATER SUPPLY PIPES AND FITTINGS	573982.90	130390.00
	Total C/F To Summary	801292.65	437185.00
	SAY IN LACS	8.01	4.37

DETAIL ESTIMATE OF PHASE-A WORK AT JNV KISHTWAR , JAMMU & KASHMIR						
BILL OF QUANTITIES FOR PLUMBING WORKS (SCHOOL BUILDING)						
S.No	DSR-2021	DESCRIPTION	UNIT	QTY	RATE (in Rs)	AMOUNT (in Rs)
I	SUB HEAD (I) :- SANITARY FIXTURES (DSR ITEMS)					
1	17.1	Providing and fixing water closet squatting pan (Indian type W.C. pan) with 100mm 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, Parryware/Hindware/Seabird/Orient (Coral) 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 580x440mm with integral type foot rests	each	16.00	5781.35	92501.60
2	17.2	Providing and fixing white vitreous china pedestal type water closet (European type W.C. pan) with seat and lid, 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.				
	17.2.1	W.C. pan with ISI marked white solid plastic seat and lid	each	4.00	5540.55	22162.20
3	17.28	Providing and fixing P.V.C. waste pipe for sink or wash basin including PVC waste fittings complete.				
	17.28.2	Flexible Pipe				
	17.28.2.2	40 mm dia (for sink and urinal)	each	17.00	104.35	1773.95
4	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 250 mm	each	1.00	6008.45	6008.45
5	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 :				
	17.11.2	Size 600x450x200 mm	each	10.00	5610.85	56108.50
6	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 required				
	17.7.4	White Vitreous china wash basin size 550x400 mm with single 15 mm C.P. brass pillar tap	each	9.00	2731.45	24583.05
7	17.22A	Providing and fixing CP Brass 32mm size Bottle Trap of approved quality & make and as per the direction of Engineerin- charge.	each	9.00	886.25	7976.25
		TOTAL SUB HEAD (I) (DSR'18)				211114.00
	SUB HEAD (I) :- SANITARY FIXTURES (NON DSR ITEMS)					
1	MR	Providing & fixing C.P. Brass health faucet for abluition with 1 meter long PVC tube, hand shower, couplings, wall hook and other accessories.	each	4.00	1780.00	7120.00
2	MR	Providing & fixing C.P. Brass Waste Coupling for PVC waste Pipe.	each	16.00	650.00	10400.00
3	MR	Providing and Fixing stainless steel Horizontal / Vertical grab bar 600mm length fixed to PVC cleats with C.P. brass screws wherever required with approved make & quality and as per the directions and to the satisfaction of Engineer-in-charge.	each	4.00	3200.00	12800.00
		TOTAL SUB HEAD (I) (NON-DSR)				30320.00
II	SUB HEAD (II) :- TOILET REQUISIES (DSR'18)					
1	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.	each	4.00	1411.15	5644.60
2	17.34	Providing & fixing toilet paper holder.				
	17.34.2	vitreous china	each	4.00	463	1852.00
1	17.72	Providing and fixing PTMT towel ring trapezoidal shape 215 mm long, 200 mm wide with minimum distances of 37 mm from wall face with concealed fittings arrangement of approved quality and colour, weighing not less than 88 gms.	each	4.00	204.7	818.80
2	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.				
	17.73.1	450 mm long towel rail with total length of 495 mm, 78 mm wide and effective height of 88 mm, weighing not less than 170 gms	each	4.00	573.6	2294.40

S.No	DSR-2021	DESCRIPTION	UNIT	QTY	RATE (in Rs)	AMOUNT (in Rs)
4	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.	each	9.00	96.75	870.75
5	17.75	Providing and fixing PTMT 15 mm Urinal spreader size 95x69x100 mm with 1/2" BSP thread and shapes, weighing not less than 60 gms.	each	14.00	92.75	1298.50
		TOTAL SUB HEAD (II) (DSR)				12779.05
		SUB HEAD (III) :- SOIL , WASTE, VENT AND RAIN WATER PIPES AND FITTINGS (NON DSR)				
1		Providing, fixing, jointing and testing in position of ISI marked UV stabilized UPVC pipes for soil, waste, and vent, Type-B as per IS : 13592 suitable for rubber ring joints, including all necessary specials and fittings (confirming to IS:14735) i.e. bends, tees, junctions (with or without doors), reducers, WC connectors, couplers, expansion joints / bellows, cowels, clamps, rubber rings, clean outs etc. fixing at wall/ ceiling/ floor level supported by clamp & hangers etc. in concealed / inside duct / under floor & basement ceiling / external work etc. including chase cutting as required, excavation and back filling in all kind of soils, suspended from floor under false ceiling or embedding the pipes laid under floors / building in 75 mm. around 1:2:4 cement concrete (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) including cost of shuttering for proper completion of the work, breaking and making good the walls and floors etc. after pipes have been duly laid and tested. The rubber ring shall confirm to IS:5382.				
		The Pipes will be supported with threaded G I rods & U clamps with nuts, washers etc on 50x50x5 mm slotted angle. The cost will include all support arrangements. The work includes commissioning of all pipes lines as per drawings and specifications and as directed by engg-in-charge at site.				
	MR	110 mm dia (Wall Thickness - 3.2 to 3.8 mm)	metre	200.00	585.00	117000.00
	MR	75 mm dia (Wall Thickness - 3.2 to 3.8 mm)	metre	80.00	445.00	35600.00
2		Providing, fixing, jointing and testing in position ISI marked (IS:4985) UPVC pipes of min 6 Kg/ Sqcm rating with fitting for waste pipe from fixtures to floor trap including reduces, enlarger, socket, couplers, bends, tees etc including fixing at wall/ ceiling level supported by clamp & hangers etc. cutting holes in wall/ floors/ slabs and making good the same with cement concrete 1:2:4 complete as required.				
	MR	32 mm dia.	metre	50.00	95.00	4750.00
3		Providing & fixing UPVC Floor trap of self cleansing design with stainless steel grating complete in all respects.				
	MR	Multi Floor Trap (5" Ht) with height raiser and branch saddle strip of 50/75 mm outlet	each	5.00	365.00	1825.00
	MR	Plain Floor Trap (4" Ht) with 50 / 75 outlet and with height raiser	each	20.00	410.00	8200.00
	MR	P-Trap type Floor Trap 110 x 75 mm	each	30.00	445.00	13350.00
4	MR	Extra for providing & fixing 125 mm dia C.P. grating in place of C.I. grating over floor traps.	each	40.00	145.00	5800.00
5	MR	Providing & fixing of SS Floor Cleanout , round or square with rubber seal and flat round cover with screws and other required fitting complete as required.	each	20.00	710.00	14200.00
6		Providing, fixing, jointing and testing in position of ISI marked UV stabilized UPVC pipes for rain water disposal, Type-B as per IS : 13592 suitable for rubber ring joints, including all necessary specials and fittings (confirming to IS:14735) i.e. bends, tees, junctions (with or without doors), reducers, couplers, expansion joints / bellows, cowels, clamps, rubber rings, MS gratings over pipes of bell mouth construction with epoxy painting etc. fixing at wall/ ceiling/ floor level supported by clamp & hangers etc. in concealed / inside duct / under floor / external work etc. including chase cutting as required, excavation and back filling in all kind of soils, suspended from floor under false ceiling or embedding the pipes laid under floors / building in 75 mm. around 1:2:4 cement concrete (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) including cost of shuttering for proper completion of the work, breaking and making good the walls and floors etc. after pipes have been duly laid and tested. The rubber ring shall confirm to IS:5382.				
		The Pipes will be supported with threaded G I rods & clamps on 50x50x5 mm slotted angle. The cost will include all support arrangements. The work includes commissioning of all pipes lines as per drawings and specifications and as directed by engg-in-charge at site.				
	MR	110 mm dia	metre	150.00	505.00	75750.00
		TOTAL SUB HEAD (III) (NON-DSR)				276475.00

S.No	DSR-2021	DESCRIPTION	UNIT	QTY	RATE (in Rs)	AMOUNT (in Rs)
1	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.	Each	14.00	244.05	3416.70
		TOTAL SUB HEAD (III) (DSR)				3416.70
IV	SUB HEAD (IV) :- WATER SUPPLY PIPES AND FITTINGS (DSR)					
1	18.21	Providing & fixing 15 mm nominal bore 45 cm long unplasticised PVC connection pipe with brass unions.				
	18.21.2	45 cm length				
	18.21.2.1	15 mm nominal bore	each	42.00	85.2	3578.40
2	18.54	Providing and fixing PTMT bib cock of approved quality and colour.				
	18.54.1	15mm nominal bore, 86 mm long, weighing not less than 88 gms	each	36.00	109.85	3954.60
3	18.50	Providing and fixing C.P brass long nose bib cock of approved quality conforming to IS standards and weighing not less than 810 gms.				
	18.50.1	15 mm nominal bore	each	11.00	715.05	7865.55
4	18.53	Providing & fixing 15 mm nominal bore C.P brass Angle valve for basin mixer and geyser points of approved quality conforming to IS 8931.				
	18.53.1	15 mm nominal bore	each	42.00	500.35	21014.70
5	18.32	Constructing brick masonry chamber 300 x 300 x 500 mm, inside with F.P.S. brick work in cement mortar 1: 4 (1 cement : 4 coarse sand) for Stop Cock , with C. I. surface box 100 x 100 x 75 mm (inside) with hinged cover fixed in cement concrete slab 1:2:4mix (1cement : 2 coarse sand:4 grade stone aggregate 20mm nominal size); necessary excavation, foundation concrete 1:5:10 (1 cement :5 fine sand: 10 graded stone aggregate 40mm nominal size) and inside plastering with cement mortar 1 : 3 (1 cement : 3 coarse sand) 12 mm thick finished with a floating coat of neat cement complete as per standard design				
	18.32.1	With common burnt clay F.P.S.(non modular) bricks of class designation 7.5	each	2.00	1712.15	3424.30
6	18.46	Providing & Fixing G.I. Unoun in G.I. pipe including cutting and threading the pipe & making long screws etc. complete.				
	18.46.1	15mm dia nominal bore	each	5.00	262.3	1311.50
	18.46.2	20mm dia nominal bore	each	5.00	289.05	1445.25
	18.46.3	25mm dia nominal bore	each	5.00	369.35	1846.75
	18.46.4	32mm dia nominal bore	each	10.00	409.45	4094.50
	18.46.5	40mm dia nominal bore	each	10.00	523.2	5232.00
	18.46.6	50mm dia nominal bore	each	10.00	706.7	7067.00
	18.46.7	65mm dia nominal bore	each	10.00	994.35	9943.50
7	18.76	Cutting holes up to 30 X 30 cm in walls including making good the same:				
	18.76.1	With common burnt clay F.P.S. (non modular) bricks	each	60.00	362.4	21744.00
8	18.7	Providing, fixing chlorinated polyvinyl Chloride (CPVC) pipes CTS-SDR 11, class-1 CPVC Pipes (pressure rating 28 kg/cm ² at 23oC and 7 kg/cm ² at 82oC) conforming to IS : 15778-2007, ASTM D-2846, having thermal stability for hot and cold water supply including all CPVC plain and brass threaded fittings including fixing the pipes 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.				
		Internal work exposed on wall				
	18.7.2	20mm nominal outer dia pipes	metre	75.00	325.1	24382.50
	18.7.3	25mm nominal outer dia pipes	metre	90.00	408.55	36769.50
	18.7.4	32mm nominal outer dia pipes	metre	76.00	500.95	38072.20
	18.7.5	40mm nominal outer dia pipes	metre	45.00	674.35	30345.75
	18.7.6	50mm nominal outer dia pipes	metre	65.00	927	60255.00
9	18.8	Providing, fixing chlorinated polyvinyl Chloride (CPVC) pipes CTS-SDR 11, class-1 CPVC Pipes (pressure rating 28 kg/cm ² at 23oC and 7 kg/cm ² at 82oC) conforming to IS : 15778-2007, ASTM D-2846, having thermal stability for hot and cold water supply including all CPVC plain and brass threaded fittings including fixing the pipes 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 chase and making good the wall etc.				

S.No	DSR-2021	DESCRIPTION	UNIT	QTY	RATE (in Rs)	AMOUNT (in Rs)
	18.8.1	15mm nominal outer dia pipes	metre	120.00	441.15	52938.00
	18.8.2	20mm nominal outer dia pipes	metre	70.00	513.75	35962.50
	18.8.3	25mm nominal outer dia pipes	metre	70.00	626.05	43823.50
	18.8.4	32mm nominal outer dia pipes	metre	60.00	712.75	42765.00
10	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.				
	18.48B	Circular tank	Per Ltr	10000.00	9.7	97000.00
11	18.17	Providing and fixing gun metal gate valve with C.I. wheel of approved quality (screwed end) :				
	18.17.1A	20 mm nominal bore	each	12.00	461.75	5541.00
	18.17.1	25 mm nominal dia	each	7.00	532.35	3726.45
	18.17.2	32 mm nominal bore	each	3.00	589.9	1769.70
	18.17.3	40 mm nominal bore	each	3.00	707.3	2121.90
	18.17.4	50 mm nominal dia	each	5.00	878.25	4391.25
12	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 dia	each	4.00	399.15	1596.60
		TOTAL SUB HEAD (IV) (DSR'18)				573982.90
		SUB HEAD (IV) :- WATER SUPPLY PIPES AND FITTINGS (NON-DSR)				
1		Providing, fixing, jointing and testing in position flowguard CPVC sch 40 pipes with sch 80 fittings confirming to ASTM F 441 suitable for cold and hot water supply in exposed works complete with all necessary fittings i.e. elbows, tees, bends, couplers, reducers, unions, plugs, clamps including jointing the pipe and fittings by solvent cement over primer coat as per ASTM F 493 including proper supports and clamped including building expansion loop wherever pipe crosses exp joint, complete as required by the Engg-in-charge for proper completion of the work.				
	MR	73.30 mm OD / 65 mm ID (min wall thickness - 5.16 mm)	each	45.00	1200.00	54000.00
	MR	73.30 mm OD / 80 mm ID (min wall thickness - 5.16 mm)	each	35.00	1560.00	54600.00
4		Providing & fixing of medium class G.I.spout up to 300 mm. length including cutting and making good the walls and floors etc. as required.				
	MR	a) 25 mm dia	each	10.00	80.00	800.00
5		Supply & fixing in position ISI marked cast iron double flanged butterfly valves (PN 1 MPa) as per IS:13095, with SS disc, shaft, seating rings, internal fastening, nitrile rubber lining, nuts, bolts including transporting to worksite, 3 mm thick rubber gaskets etc. including testing, Complete as per drawings & directions of the Engineer-in-charge.				
	MR	65 mm nominal dia	each	4.00	3350.00	13400.00
	MR	80 mm nominal dia	each	2.00	3795.00	7590.00
		TOTAL SUB HEAD (IV) (NON-DSR)				130390.00

DETAIL ESTIMATE OF PHASE-A WORK AT JNV RAMBAN, JAMMU AND KASHMIR			
SUMMARY OF COST FOR ELECTRICAL WORKS (SCHOOL BUILDING)			
S. No	DESCRIPTION	AMOUNT	
		DSR-2022	NON-DSR
I	INTERNAL WIRING	2044256.00	
II	DISTRIBUTION BOARDS & MCB's	81554.00	8560.00
III	TELEPHONE, TELEVISION & DATA SYSTEM	142845.00	22650.00
IV	EARTHING SYSTEM	58744.00	
V	LIGHTNING CONDUCTOR	137852.00	
VI	MISCELLANEOUS	43198.40	
VII	INTERNAL LIGHTING FIXTURES & FANS	106805.00	1076140.00
	Total C/F To Summary	2615254.40	1107350.00
	SAY IN LACS	26.15	11.07

DETAIL ESTIMATE OF PHASE-A WORK AT JNV RAMBAN, JAMMU AND KASHMIR

BILL OF QUANTITIES ELECTRICAL WORKS OF SCHOOL BUILDING

S.No	DSR-2022	DESCRIPTION	UNIT	Quantity	RATE (in Rs)	AMOUNT (in Rs)
I		SUB HEAD-I , INTERNAL WIRING				
1		Point wiring in PVC conduit, with piano type switch :-				
	1.8	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 piano type switch, phenolic laminated sheet, suitable GI box and earthing the point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable etc. as required.				
	1.8.3	Group C	Point	150.00	1445.00	216750.00
	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.				
	1.55.3	Group C	Point	150.00	858.00	128700.00
2		Twin Control Point wiring in PVC conduit, with piano type switch :-				
	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 piano type switch, phenolic laminated sheet, suitable GI box and earthing the point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable etc. as required.	Point	60.00	1457.00	87420.00
3		Power plug wiring in PVC conduit (2 x 4 Sq.Mm.) :-				
	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	550.00	334.00	183700.00
4		Circuit / Sub main wiring in PVC conduit :-				
	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.				
	1.14.1	2 X 1.5 sq. mm + 1 X 1.5 sq. mm earth wire.	M	460.00	233.00	107180.00
	1.14.2	2 X 2.5 sq. mm + 1 X 2.5 sq. mm earth wire.	M	1500.00	275.00	412500.00
	1.14.4	2 x 6 sq.mm. + 1 x 6 sq.mm. Earth wire	M	222.00	439.00	97458.00
	1.14.5	2 x 10 sq.mm. + 1 x 6 sq.mm. Earth wire	M	225.00	570.00	128250.00
	1.14.10	4 x 10 sq.mm. + 2 x 6 sq.mm. Earth wire	M	525.00	1005.00	527625.00
	1.14.11	4 x 16 sq.mm. + 2 x 6 sq.mm. Earth wire	M	55.00	1365.00	75075.00
5		S/F light plug point piano type accessories :-				
	1.29	Supplying and fixing metal box of 150 mm X 75 mm X 60 mm deep (nominal size) on surface or in recess with suitable size of phenolic laminated sheet cover in front including providing and fixing 3 pin 5/6 A socket outlet and 5/6 A piano type switch, connections, painting etc. as required.	Each	58.00	358.00	20764.00
6		S/F power plug point piano type accessories :-				
	1.30	Supplying and fixing metal box of 180 mm X 100 mm X 60 mm deep (nominal size) on surface or in recess with suitable size of phenolic laminated sheet cover in front including providing and fixing 6 pin 5/6 A & 15/16 A socket outlet and 15/16 A piano type switch, connections, painting	Each	28.00	488.00	13664.00
7	2.18	Supplying and fixing 20 amps , 240 volts, SPN, industrial type socket outlet, with 2 poles and earth metal enclosed plug top along with 20 amps. "C" curve, SP MCB 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	3242.00
8		S/F modular type electronic fan regulator :-				
	1.25	Supply 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	112.00	369.00	41328.00
9		S/F modular type blanking plate :-				

	1.26	Supply and fixing modular blanking plate on the existing modular plate & switch box excluding modular plate as required.	Each	15.00	40.00	600.00
		TOTAL OF SUB HEAD-I , INTERNAL WIRING				2044256.00
II		SUB HEAD-II , DISTRIBUTION BOARDS & MCB's				
1	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)				
	2.3.1	6 way , Double door	Each	2.00	2206.00	4412.00
2	2.4	Supplying and fixing following way, horizontal type TP&N, 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 / Isolators).				
	2.4.3	8 way (4 + 24), Double door	Each	4.00	5967.00	23868.00
3	2.14	Supplying and fixing following rating, double pole , (single phase and neutral), 240 volts, residual current circuit breaker (RCCB) , having a sensitivity current upto 30 mA in the existing MCB DB complete with connections, testing and commissioning etc. as required.				
	2.14.3	63 amps.	Each	12.00	2722.00	32664.00
4	2.10	Supplying and fixing 5 amps. to 32 amps. rating, 240 volts 'C' series, miniature circuit breaker (MCB) 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	80.00	256.00	20480.00
5	2.11	Supplying & fixing single pole, blanking plate in the existing MCB DB complete etc. as required.	Each	10.00	13.00	130.00
		TOTAL OF SUB HEAD-II (DSR ITEMS)				81554.00
		(NON-DSR)				
6		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	63 amps FP MCB	Each	4.00	1710.00	6840.00
	NDSR	40 amps DP MCB	Each	2.00	860.00	1720.00
		TOTAL OF SUB HEAD-II (NON DSR ITEMS)				8560.00
III		SUB HEAD-III , TELEPHONE, TELEVISION & DATA SYSTEM				
1		S/F MODULAR BOXES, BASE & COVER PLATE :-				
	1.27	Supplying and fixing following size / modules, GI box along with modular base & cover plate for modular switches in recess etc as required				
	1.27.1	1 or 2 Module (75 mm x 75 mm)	Each	32.00	298.00	9536.00
2		S/F PIANO TYPE SWITCH / SOCKET :-				
	1.23	Supplying and fixing following piano type switch / socket on the existing switch box including connections etc as required				
	1.23.6	Telephone Socket outlet	Each	11.00	109.00	1199.00
	1.23.7	TV Antenna socket outlet	Each	2.00	95.00	190.00
3	1.21	Supply 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 :				
	1.21.1	20 mm.	M	500.00	128.00	64000.00
	1.21.2	25 mm.	M	120.00	145.00	17400.00
	1.21.3	32 mm.	M	120.00	184.00	22080.00

4	1.18	Supply and drawing following pair, 0.5 sq.mm. FRLS PVC insulated annealed copper conductor, unarmoured telephone cable in the existing surface / recessed steel/ PVC conduit as required.				
	1.18.2	2 Pair	M	600.00	38.00	22800.00
5	1.19	Supply 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.	M	120.00	47.00	5640.00
TOTAL OF SUB HEAD-III , (DSR ITEMS)						142845.00
(NON-DSR)						
1	NDSR	Providing, laying, connecting, testing & commissioning of multi-core telephone armoured cables of conductor size 0.5 sq.mm. annealed tinned electrolytic grade copper, PVC insulated, twisted pairs bunched together, over all PVC sheathed, GI strip or wire armouring laid on existing cable tray or along the wall or laid in pipes or in trenches including excavation of cable trench, sand filling covering with bricks and back filling complete as 20 pair	M	90.00	240.00	21600.00
2	NDSR	Providing, fixing, connecting & testing of Telephone Tag Block krone type in a suitable size 1.6 mm thick dust and vermin proof Sheet steel enclosure duly painted by synthetic enamel over anti corrosive primer, lockable and hinged cover with provision for cable through glands complete in all respects.				
		20 pair with 2 Krone Module of Krone Make	Nos	1.00	1050.00	1050.00
TOTAL OF SUB HEAD-III , (NON DSR ITEMS)						22650.00
IV	SUB HEAD-IV , EARTHING SYSTEM					
1	5.4	Earthing with GI earth plate 600mm x 600 mm x 6mm 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.	Set	2.00	7472.00	14944.00
2	5.9	Supplying and laying 25 mm x 5 mm. G.I. strip at 0.50 metre below ground as strip earth electrode, including connection/ terminating with G.I. nut, bolt, spring, washer etc. as required. (Jointing shall be done by overlapping and with 2 sets of G.I. nut bolt & spring washer spaced at 50mm)	M	40.00	144.00	5760.00
3	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.	M	20.00	706.00	14120.00
4	5.15	Providing and fixing 25mm x 5 mm G.I strip on surface or in recess for connections etc. as required.	M	55.00	244.00	13420.00
5	5.16	Providing and fixing 6 SWG dia G.I. wire on surface or in recess for loop earthing as required.	M	150.00	70.00	10500.00
TOTAL OF SUB HEAD-IV , EARTHING SYSTEM						58744.00
V	SUB HEAD-V , LIGHTNING CONDUCTOR					
1	5.4	Earthing with GI earth plate 600mm x 600 mm x 6mm 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.	Set	4.00	7472.00	29888.00
2	6.2	Providing and fixing of lighting 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	4.00	518.00	2072.00
3	6.7	Providing and fixing G.I.tape 20 mm x 3 mm thick on parapet or surface of wall for lighting conductor complete as required (For horizontal run)	M	450.00	126.00	56700.00

4	6.8	Providing and fixing G.I.tape 20 mm x 3 mm thick on parapet or surface of wall for lighting conductor complete as required (For vertical run)	M	100.00	197.00	19700.00
5	6.12	Providing and fixing testing joint , made of 20mm. x 3mm. thick G.I. strip, 125mm. long, with 4 nos of G.I. bolts, nuts, check nuts and spring washers etc. complete as required.	Each	2.00	121.00	242.00
6	6.14	Providing & laying G.I. tape , 32mm x 6mm thick, from earth electrode directly in ground as required.	M	150.00	195.00	29250.00
		TOTAL OF SUB HEAD-V , LIGHTNING CONDUCTOR				137852.00
VI		SUB HEAD-VI , MISCELLANEOUS				
1	2.21	Providing and fixing M.V. danger notice plate 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	2.00	269.00	538.00
2	1.38	Supplying and fixing call bell/buzzer suitable for single phase, 230 volts, complete as required.	NOS	2.00	99.00	198.00
3	14.14	Providing, laying and fixing following dia RCC pipe NP 2 class (light duty) in ground complete with RCC collars, jointing with cement mortar 1:2 (1cement : 2 fine sand) including trenching (75 cm deep) and refilling etc as required.				
	14.14.2	150 mm. dia.	MTRS	30.00	724.00	21720.00
4	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	112.00	185.20	20742.40
		TOTAL OF SUB HEAD-VI , MISCELLANEOUS				43198.40
VII		SUB HEAD-VII , INTERNAL LIGHTING FIXTURES & FANS				
		SUPPLY OF LIGHTING FIXTURES				
		(NON-DSR)				
1	NDSR	Supply of 15W SURFACE MOUNTED LED with all accessories as per standard item..(Such as Panasonic ADL04R156 or Equivalent).	Each	17.00	1840.00	31280.00
2	NDSR	Supply of 10W WALL MOUNTED LED (MIRROR) with all accessories as per standard item..(Such as Panasonic PBTM01107 or Equivalent).	Each	20.00	370.00	7400.00
3	NDSR	Supply of 20W SURFACE MOUNTED LED with all accessories as per standard item..(Such as Panasonic ADL04R206 or Equivalent).	Each	100.00	550.00	55000.00
4	NDSR	Supply of 40W LED Tube (Ceiling Surface) with all accessories as per standard item..(Such as Bajaj BCLAB 40W or Equivalent).	Each	42.00	1150.00	48300.00
4	NDSR	Supply of 35W LED Tube (Ceiling Suspended) with all accessories as per standard item..(Such as Panasonic PLHM01356 or Equivalent).	Each	112.00	5640.00	631680.00
		SUPPLY OF CEILING & EXHAUST FANS				
5	NDSR	Supply of AC 230/250 volts, 50 HZ ceiling fan 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).				
	NDSR	1200 mm sweep	Nos	112.00	2470.00	276640.00
6	NDSR	Supply of AC 230/250 volts, 50 HZ exhaust fans 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	8.00	3230.00	25840.00
		TOTAL SUB HEAD - VII (NON DSR)				1076140.00

		ERECTION OF LIGHTING FIXTURES AND FANS				
		DSR 2018				
1	1.41	Installation, testing and commissioning of pre-wired, flourescent fitting / compact flourescent 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	292.00	206.00	60152.00
2	1.45	Installation, testing and commissioning of ceiling fan 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	127.00	339.00	43053.00
3	1.50	Installation of exhaust fan in the existing opening, including making good the damage, connection, testing, commissioning etc. as required				
	1.50.1	Upto 450 mm sweep	Each	8.00	450.00	3600.00
		TOTAL SUB HEAD - VII (DSR ITEMS)				106805.00

DETAIL ESTIMATE OF PHASE-A WORK AT JNV RAMBAN, JAMMU & KASHMIR								
[DINING HALL & KITCHEN]								
S.N.	DESCRIPTION OF ITEM	DSR-2021	QTY	UNIT	RATES	AMOUNT (In RS.) ON DSR	AMOUNT (In RS.) ON NON SCHEDULE	Remark
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.							
(i)	all kinds of soil	2.8.1	529.41	CUM	286.85	151861.26		
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 up to 50 m and lift upto 1.5 m.	2.25	317.646	CUM	253.95	80666.20		
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	19.57	CUM	6050.65	118414.25		
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).							
(I)	Upto plinth level							
(i)	R.C.C. work in Footing	5.33.1	85.433	CUM	7997.30	683233.36		
(ii)	R.C.C. work in Beam	5.33.1	114.380	CUM	7997.30	914731.17		
(iii)	R.C.C. work in Columns	5.33.1	43.540	CUM	7997.30	348202.44		
(iii)	R.C.C. work in Grade Slab	5.33.1	129.960	CUM	7997.30	1039329.11		
(II)	Above plinth to floor-V lvl							
	Same as above but R.C.C. work above plinth Lvl.							
(i)	R.C.C. work in Lintel	5.33.2	1.430	CUM	10080.15	14414.61		
(ii)	R.C.C. work in Beam	5.33.2	69.060	CUM	10080.15	696135.16		
(iii)	R.C.C. work in Columns	5.33.2	31.860	CUM	10080.15	321153.58		
(iv)	R.C.C. work in Slab	5.33.2	122.650	CUM	10080.15	1236330.40		
5	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	44797.560	Kg	89.65	4016101.25		
6	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	27000.000	Kg	89.65	2420550.00		
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	137.470	SQM	307.95	42333.89		
(b)	Suspended floors, roofs, landings, balconies and access platform.	5.9.3	1839.950	SQM	766.55	1410413.67		
(c)	Lintels, beams, plinth beams, girders, bressumers and cantilevers.	5.9.5	1494.580	SQM	608.35	909227.74		
(d)	Columns, Pillars, Piers, Abutments, Posts and Struts.	5.9.6	681.600	SQM	804.25	548176.80		
8	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	9.920	CUM	6658.00	66047.36		
9	Providing and laying autoclaved aerated cement blocks masonry with 150mm/230mm/300 mm thick AAC blocks in super structure above plinth level up to floor V level with RCC band at sill level and lintel level with approved block laying polymer modified adhesive mortar all complete as per direction of Engineer-in-Charge. (The payment of RCC band and reinforcement shall be made for separately).	6.47						
			130.500	CUM	6994.15	912736.58		
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	8.21	Sqm	1018.05	8358.19		

11	Providing and laying four courses water proofing treatment with bitumen felt over roofs consisting of first and third courses of blown bitumen 85/25 or 90/15 conforming to IS : 702 applied hot @ 1.45 Kg per square metre of area for each course, second course of roofing felt type 3 grade-I (hessian based self finished bitumen felt) and fourth and final course of stone grit 6 mm and down size or pea sized gravel spread at 6 cubic decimeter per square metre, including preparation of surface but excluding grading complete with :	22.8						
	Bitumen felt (hessian base) type 3 grade I conforming to IS : 1322	22.8.1	712.700	SQM	432.10	307957.67		
12	Grading roof for water proofing treatment with	22.14						
	Cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20mm nominal size)	22.14.1	53.45	Cum	7510.75	401449.59		
13	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. 35 mm thick including ISI marked Stainless Steel butt hinges with necessary screws.	9.20.1	33.710	SQM	3086.10	104032.43		
14	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).	9.2	33.710	SQM	401.40	13531.19		
15	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	293.490	KG	114.65	33648.63		
16	Providing and fixing factory made uPVC white colour sliding glazed window upto 1.50 m in height dimension comprising of uPVC multi-chambered frame with in-built roller track and sash extruded profiles duly reinforced with 1.60 ± 0.2 mm thick galvanized mild steel section made from roll forming process of required length (shape & size according to uPVC profile), appropriate dimension of uPVC extruded glazing beads and uPVC extruded interlocks, EPDM gasket, wool pile, zinc alloy (white powder coated) touch locks with hook, zinc alloy body with single nylon rollers (weight bearing capacity to be 40 kg), G.I fasteners 100 x 8 mm size for fixing frame to finished wall and necessary stainless steel screws etc. Profile of frame & sash shall be mitred cut and fusion welded at all corners, including drilling of holes for fixing hardware's and drainage of water etc. After fixing frame the gap between frame and adjacent finished wall shall be filled with weather proof silicon sealant over backer rod of required size and of approved quality, all complete as per	9.147						
	Three track three panels sliding window with fly proof S.S wire mesh (Two nos. glazed & one no. wire mesh panels) made of (big series) frame 116 x 45 mm & sash 46 x 62 mm both having wall thickness of 2.3 ± 0.2 mm and single glazing bead / double glazing bead of appropriate dimension. (Area of window above	9.147D.4	80.31	SQM	9642.60	774385.63		
17	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. M.S. tube	10.26.1	259.20	KG	157.15	40733.28		
18	Providing and fixing factory made uPVC white colour fixed glazed windows/ ventilators comprising of uPVC multi-chambered frame and mullion (where ever required) extruded profiles duly reinforced with 1.60 ± 0.2 mm thick galvanized mild steel section made from roll forming process of required length (shape & size according to uPVC profile), uPVC extruded glazing beads of appropriate dimension, EPDM gasket, G.I fasteners 100 x 8 mm size for fixing frame to finished wall, plastic packers, plastic caps and necessary stainless steel screws etc. Profile of frame shall be mitred cut and fusion welded at all corners, mullion (if required) shall be also fusion welded including drilling of holes for fixing hardware's and drainage of water etc. After fixing frame the gap between frame and adjacent finished wall shall be filled with weather proof silicon sealant over backer rod of required size and of approved quality, all complete as per approved drawing & direction of Engineer-in-Charge. (Single / double glass panes and silicon sealant shall be paid separately). Variation in profile dimension in higher side shall be accepted but no extra payment on this account shall be made.	9.147B						

	Fixed window / ventilator made of (small series) frame 47 x 50 mm & mullion 47 x 68 mm both having wall thickness of 1.9 ± 0.2 mm and single glazing bead of appropriate dimension.	9.147B.1	93.520	SQM	7249.90	678010.65		
19	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	9.810	SQM	940.30	9224.34		
20	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 :							
	30 mm thick shutters with ISI marked M.S. pressed butt hinges bright finished of required size Second class teak wood	(DSR-9.27.2.1.1)	24.78	SQM	3863.65	95741.25		
21	Add for plaster drip course/ groove in plastered surface or moulding to R.C.C. projections.	5.30	361.39	RM	64.70	23381.93		
22	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	949.220	SQM	339.10	321880.50		
23	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	1028.09	SQM	294.35	302618.29		
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	82.540	SQM	354.50	29260.43		
25	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	907.040	SQM	1706.60	1547954.46		
26	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	57.250	SQM	2038.55	116706.99		
27	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.	11.37	6.710	SQM	935.60	6277.88		
28	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	179.890	SQM	1030.30	185340.67		
29	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	4.00	NO	808.15	3232.60		
30	Chequered terrazo tiles 22 mm thick with graded marble chips of size up to 6 mm in floors, jointed with neat cement slurry mixed with pigment to match the shade of the tiles, including rubbing and polishing complete, on 20 mm thick bed of cement mortar 1:4 (1 cement :4 coarse sand) : Light shade pigment using white cement.	11.19.1	10.800	SQM	1295.20	13988.16		
31	Steel Painting:							
	(a) With ready mixed red oxide zink chromate primer of approved brand and manufacture on steel galvanised iron/steel works.	13.50.3	153.92	SQM	55.50	8542.56		
	(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	153.92	SQM	131.45	20232.78		

32	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	949.220	SQM	162.55	154295.71		
33	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	1028.09	SQM	162.35	166910.41		
35	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 .	9.96.2	16.00	NOS	234.90	3758.40		
36	Providing and fixing stainless steel towerbolts (barrel type) with necessary screws etc. complete.	9.97						
	300 x 10mm	9.97.1	16.00	NOS	117.65	1882.40		
	200 x 10mm	9.97.3	16.00	NOS	90.80	1452.80		
37	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) 125 mm.	9.100.1	32.00	NOS	60.05	1921.60		
38	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	16.00	NOS	62.25	996.00		
39	Steel work in built up tubular (round, square or rectangular hollow tubes etc.) trusses etc., including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer, including welding and bolted with special shaped washers etc. complete. Electric resistance or induction butt welded tubes.	10.16.3	2796.37	KG	140.85	393868.71		
40	Providing and fixing precoated 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 Engineerin- 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.	12.50	201.07	SQM	671.55	135028.56		
41	Providing and fixing 15 cm wide, 45 cm overall semi-circular plain G.S. sheet gutter with iron brackets 40x3mm size, bolts, nuts and washers etc., including making necessary connections with rain water pipes complete. 0.80 mm thick with zinc coating not less than 275 gm/m ²	12.7.1	21.23	RM	811.85	17235.58		
42	Providing ridges or hips of width 60 cm overall width plain G.S. sheet fixed with polymer coated J or L hooks, bolts and nuts 8 mm dia G.I. limpet and bitumen washers complete 0.80 mm thick with zinc coating not less than 275 gm/m ²	12.4.1	21.230	RM	822.15	17454.24		
43	Finishing with Epoxy paint (two or more coats) at all locations prepared and applied as per manufacturer's specifications including appropriate priming coat, preparation of surface, etc. complete. On steel work.	13.52.1	20.410	SQM	201.70	4116.70		
44	Boundary Wall 2.1 mtr height	ANALYSIS	21.540	RM	11354.00	244565.16		
45	Float glass panes 5.0 mm thick glass panes (weight not less than 12.50 kg/sqm).	dsr-9.7.7.2	80.310	SQM	2231.20	179187.67		
					TOTAL	22299222.87		
					SAY IN LACS	222.99		

DETAIL ESTIMATE OF PHASE-A WORK AT JNV RAMBAN, JAMMU & KASHMIR			
SUMMARY OF COST FOR INTERNAL PLUMBING & SANITATION WORK (DINING HALL & KITCHEN)			
S.NO	NAME OF SUB-HEAD	AMOUNT	
		DSR-2018	NON-DSR
1	SANITARY FIXTURES	30284.15	13000.00
2	TOILET REQUISIES	5302.00	
3	SOIL , WASTE, VENT AND RAIN WATER PIPES AND FITTINGS	2666.00	109755.00
4	WATER SUPPLY PIPES AND FITTINGS	398593.70	24100.00
	Total C/F To Summary	436845.85	146855.00
	SAY IN LACS	4.37	1.47

DETAIL ESTIMATE OF PHASE-A WORK AT JNV RAMBAN, JAMMU & KASHMIR						
BILL OF QUANTITIES FOR PLUMBING WORKS (DINING HALL & KITCHEN)						
S.No	DSR-2021	DESCRIPTION	UNIT	QTY	RATE (in Rs)	AMOUNT (in Rs)
I SUB HEAD (I) :- SANITARY FIXTURES (DSR ITEMS)						
1	17.10	Providing and fixing water closet squatting pan (Indian type W.C. pan) with 100mm 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, Parryware/Hindware/Seabird/Orient (Coral) 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 580x440mm with integral type foot rests	each	3.00	5781.35	17344.05
2	17.2	Providing and fixing white vitreous china pedestal type water closet (European type W.C. pan) with seat and lid, 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.				
	17.2.1	W.C. pan with ISI marked white solid plastic seat and lid	each	0.00	5540.55	0.00
3	17.28	Providing and fixing P.V.C. waste pipe for sink or wash basin including PVC waste fittings complete.				
	17.28.2	Flexible Pipe				
	17.28.2.1	32 mm dia (for wash basin)	each	20.00	104.35	2087.00
	17.28.2.2	40 mm dia (for sink and urinal)	each	0.00	104.35	0.00
4	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 250 mm	each	0.00	6008.45	0.00
	17.10.2	Kitchen sink without drain board				
	17.10.2.1	610x510 mm bowl depth 200 mm	each	0.00	4274.40	0.00
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 required				
	17.7.4	White Vitreous china wash basin size 550x400 mm with single 15 mm C.P. brass pillar tap	each	3.00	2731.45	8194.35
6	17.22A	Providing and fixing CP Brass 32mm size Bottle Trap of approved quality & make and as per the direction of Engineerin- charge.	each	3.00	886.25	2658.75
TOTAL SUB HEAD (I) (DSR'18)						30284.15
SUB HEAD (I) :- SANITARY FIXTURES (NON DSR ITEMS)						
1	MR	Providing & fixing C.P. Brass Waste Coupling for PVC waste Pipe.	each	20.00	650.00	13000.00
TOTAL SUB HEAD (I) (NON-DSR)						13000.00
II SUB HEAD (II) :- TOILET REQUISIES (DSR'18)						
1	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.	each	3.00	1411.15	4233.45
2	17.34	Providing & fixing toilet paper holder .				
	17.34.2	viterous china	each	0.00	463.00	0.00
3	17.72	Providing and fixing PTMT towel ring trapezoidal shape 215 mm long, 200 mm wide with minimum distances of 37 mm from wall face with concealed fittings arrangement of approved quality and colour, weighing not less than 88 gms.	each	1.00	204.70	204.70
4	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.				
	17.73.1	450 mm long towel rail with total length of 495 mm, 78 mm wide and effective height of 88 mm, weighing not less than 170 gms	each	1.00	573.60	573.60
5	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.	each	3.00	96.75	290.25
TOTAL SUB HEAD (II) (DSR'18)						5302.00
SUB HEAD (III) :- SOIL , WASTE, VENT AND RAIN WATER PIPES AND FITTINGS (NON DSR)						

1		Providing, fixing, jointing and testing in position of ISI marked UV stabilized UPVC pipes for soil, waste, and vent, Type-B as per IS : 13592 suitable for rubber ring joints, including all necessary specials and fittings (confirming to IS:14735) i.e. bends, tees, junctions (with or without doors), reducers, WC connectors, couplers, expansion joints / bellows, cowels, clamps, rubber rings, clean outs etc. fixing at wall/ ceiling/ floor level supported by clamp & hangers etc. in concealed / inside duct / under floor & basement ceiling / external work etc. including chase cutting as required, excavation and back filling in all kind of soils, suspended from floor under false ceiling or embedding the pipes laid under floors / building in 75 mm. around 1:2:4 cement concrete (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) including cost of shuttering for proper completion of the work, breaking and making good the walls and floors etc. after pipes have been duly laid and tested. The rubber ring shall confirm to IS:5382.				
		The Pipes will be supported with threaded G I rods & U clamps with nuts, washers etc on 50x50x5 mm slotted angle. The cost will include all support arrangements. The work includes commissioning of all pipes lines as per drawings and specifications and as directed by engg-in-charge at site.				
	MR	110 mm dia (Wall Thickness - 3.2 to 3.8 mm)	metre	80.00	585.00	46800.00
	MR	75 mm dia (Wall Thickness - 3.2 to 3.8 mm)	metre	40.00	420.00	16800.00
2		Providing, fixing, jointing and testing in position ISI marked (IS:4985) UPVC pipes of min 6 Kg/ Sqcm rating with fitting for waste pipe from fixtures to floor trap including reduces, enlarger, socket, couplers, bends, tees etc including fixing at wall/ ceiling level supported by clamp & hangers etc. cutting holes in wall/ floors/ slabs and making good the same with cement concrete 1:2:4 complete as required.				
	MR	32 mm dia.	metre	20.00	95.00	1900.00
	MR	40 mm dia.	metre	0.00	95.00	0.00
3		Providing & fixing UPVC Floor trap of self cleansing design with stainless steel grating complete in all respects.				
	MR	Multi Floor Trap (5" Ht) with height raiser and branch saddle strip of 50/75 mm outlet	each	1.00	365.00	365.00
	MR	Plain Floor Trap (4" Ht) with 50 / 75 outlet and with height raiser	each	7.00	410.00	2870.00
	MR	P-Trap type Floor Trap 110 x 75 mm	each	15.00	445.00	6675.00
4	MR	Extra for providing & fixing 125 mm dia C.P. grating in place of C.I. grating over floor traps.	each	23.00	145.00	3335.00
5	MR	Providing & fixing of SS Floor Cleanout , round or square with rubber seal and flat round cover with screws and other required fitting complete as required.	each	1.00	710.00	710.00
6		Providing, fixing, jointing and testing in position of ISI marked UV stabilized UPVC pipes for rain water disposal, Type-B as per IS : 13592 suitable for rubber ring joints, including all necessary specials and fittings (confirming to IS:14735) i.e. bends, tees, junctions (with or without doors), reducers, couplers, expansion joints / bellows, cowels, clamps, rubber rings, MS gratings over pipes of bell mouth construction with epoxy painting etc. fixing at wall/ ceiling/ floor level supported by clamp & hangers etc. in concealed / inside duct / under floor / external work etc. including chase cutting as required, excavation and back filling in all kind of soils, suspended from floor under false ceiling or embedding the pipes laid under floors / building in 75 mm. around 1:2:4 cement concrete (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) including cost of shuttering for proper completion of the work, breaking and making good the walls and floors etc. after pipes have been duly laid and tested. The rubber ring shall confirm to IS:5382.				
		The Pipes will be supported with threaded G I rods & clamps on 50x50x5 mm slotted angle. The cost will include all support arrangements. The work includes commissioning of all pipes lines as per drawings and specifications and as directed by engg-in-charge at site.				
	MR	110 mm dia	metre	60.00	505.00	30300.00
		TOTAL SUB HEAD (III) (NON DSR)				109755.00
1	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	10.00	266.60	2666.00
		TOTAL SUB HEAD (III) (DSR)				2666.00
IV	SUB HEAD (IV) :- WATER SUPPLY PIPES AND FITTINGS (DSR)					
1	18.21	Providing & fixing 15 mm nominal bore 45 cm long unplasticised PVC connection pipe with brass unions.				
	18.21.2	45 cm length				
	18.21.2.1	15 mm nominal bore	each	9.00	85.20	766.80
2	18.54	Providing and fixing PTMT bib cock of approved quality and colour.				
	18.54.1	15mm nominal bore, 86 mm long, weighing not less than 88 gms	each	3.00	109.85	329.55
3	18.50	Providing and fixing C.P brass long nose bib cock of approved quality conforming to IS standards and weighing not less than 810 gms.				

	18.50.1	15 mm nominal bore	each	0.00	715.05	0.00
4	18.53	Providing & fixing 15 mm nominal bore C.P brass Angle valve for basin mixer and geyser points of approved quality conforming to IS 8931.				
	18.53.1	15 mm nominal bore	each	11.00	500.35	5503.85
5	18.32	Constructing brick masonry chamber 300 x 300 x 500 mm, inside with F.P.S. brick work in cement mortar 1: 4 (1 cement : 4 coarse sand) for Stop Cock , with C. I. surface box 100 x 100 x 75 mm (inside) with hinged cover fixed in cement concrete slab 1:2:4mix (1cement : 2 coarse sand:4 grade stone aggregate 20mm nominal size); necessary excavation, foundation concrete 1:5:10 (1 cement :5 fine sand: 10 graded stone aggregate 40mm nominal size) and inside plastering with cement mortar 1 : 3 (1 cement : 3 coarse sand) 12 mm thick finished with a floating coat of neat cement complete as per standard design				
	18.32.1	With common burnt clay F.P.S.(non modular) bricks of class designation 7.5	each	1.00	1712.15	1712.15
6	18.46	Providing & Fixing G.I. Unoun in G.I. pipe including cutting and threading the pipe & making long screws etc. complete.				
	18.46.1	15mm dia nominal bore	each	5.00	262.30	1311.50
	18.46.2	20mm dia nominal bore	each	5.00	289.05	1445.25
	18.46.3	25mm dia nominal bore	each	5.00	369.35	1846.75
	18.46.4	32mm dia nominal bore	each	5.00	409.45	2047.25
	18.46.5	40mm dia nominal bore	each	5.00	523.20	2616.00
	18.46.6	50mm dia nominal bore	each	5.00	706.70	3533.50
	18.46.7	65mm dia nominal bore	each	5.00	994.35	4971.75
7	18.76	Cutting holes up to 30 X 30 cm in walls including making good the same:				
	18.76.1	With common burnt clay F.P.S. (non modular) bricks	each	10.00	362.40	3624.00
8	18.7	Providing, fixing chlorinated polyvinyl Chloride (CPVC) pipes CTS-SDR 11, class-1 CPVC Pipes (pressure rating 28 kg/cm2 at 23oC and 7 kg/cm2 at 82oC) confirming to IS : 15778-2007, ASTM D-2846, having thermal stability for hot and cold water supply including all CPVC plain and brass threaded fittings including fixing the pipes 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.				
		Internal work exposed on wall				
	18.7.2	20mm nominal outer dia pipes	metre	30.00	325.10	9753.00
	18.7.3	25mm nominal outer dia pipes	metre	40.00	408.55	16342.00
	18.7.4	32mm nominal outer dia pipes	metre	90.00	500.95	45085.50
	18.7.5	40mm nominal outer dia pipes	metre	70.00	674.35	47204.50
	18.7.6	50mm nominal outer dia pipes	metre	50.00	927.00	46350.00
9	18.8	Providing, fixing chlorinated polyvinyl Chloride (CPVC) pipes CTS-SDR 11, class-1 CPVC Pipes (pressure rating 28 kg/cm2 at 23oC and 7 kg/cm2 at 82oC) confirming to IS : 15778-2007, ASTM D-2846, having thermal stability for hot and cold water supply including all CPVC plain and brass threaded fittings including fixing the pipes 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 chase and making good the wall etc.				
	18.8.1	15mm nominal outer dia pipes	metre	80.00	441.15	35292.00
	18.8.2	20mm nominal outer dia pipes	metre	30.00	513.75	15412.50
	18.8.3	25mm nominal outer dia pipes	metre	40.00	626.05	25042.00
	18.8.4	32mm nominal outer dia pipes	metre	15.00	712.75	10691.25
10	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.				
	18.48B	Circular tank	Per Ltr	10500.00	9.70	101850.00
11	18.17	Providing and fixing gun metal gate valve with C.I. wheel of approved quality (screwed end) :				
	18.17.1A	20 mm nominal bore	each	6.00	461.75	2770.50
	18.17.1	25 mm nominal dia	each	9.00	532.35	4791.15
	18.17.2	32 mm nominal bore	each	11.00	589.90	6488.90
	18.17.3	40 mm nominal bore	each	2.00	707.30	1414.60
	18.17.4	50 mm nominal dia	each	0.00	878.25	0.00
12	18.18	Providing and fixing ball valve (brass) of approved quality, High or low pressure, with plastic floats complete :				
	18.18.2	20 mm nominal dia	each	1.00	397.45	397.45
		TOTAL SUB HEAD (IV) (DSR'18)				398593.70
		SUB HEAD (IV) :- WATER SUPPLY PIPES AND FITTINGS (NON-DSR)				

1		Providing, fixing, jointing and testing in position flowguard CPVC sch 40 pipes with sch 80 fittings confirming to ASTM F 441 suitable for cold and hot water supply in exposed works complete with all necessary fittings i.e. elbows, tees, bends, couplers, reducers, unions, plugs, clamps including jointing the pipe and fittings by solvent cement over primer coat as per ASTM F 493 including proper supports and clamped including building expansion loop wherever pipe crosses exp joint, complete as required by the Engg-in-charge for proper completion of the work.				
	MR	73.30 mm OD / 65 mm ID (min wall thickness - 5.16 mm)	each	6.00	1200.00	7200.00
	MR	73.30 mm OD / 80 mm ID (min wall thickness - 5.16 mm)	each	6.00	1560.00	9360.00
2		Providing & fixing of hand lever operated forged brass body full way ball valve type isolating valve having forged brass hard chrome plated mirror finish ball, steel handle with PVC grip, teflon seat, screwed ends tested to a pressure of 15 kg/sqcm complete.				
	MR	15 mm nominal bore	each	1.00	470.00	470.00
3		Providing & fixing brass ball float valve with bronze floats of approved quality complete.				
	MR	32 mm nominal dia	each	1.00	2475.00	2475.00
4		Providing & fixing of medium class G.I.spout up to 300 mm. length including cutting and making good the walls and floors etc. as required.				
	MR	a) 25 mm dia	each	10.00	80.00	800.00
5		Supply & fixing in position ISI marked cast iron double flanged butterfly valves (PN 1 MPa) as per IS:13095, with SS disc, shaft, seating rings, internal fastening, nitrile rubber lining, nuts, bolts including transporting to worksite, 3 mm thick rubber gaskets etc. including testing, Complete as per drawings & directions of the Engineer-in-charge.				
	MR	80 mm nominal dia	each	1.00	3795.00	3795.00
		TOTAL SUB HEAD (IV) (NON-DSR)				24100.00

DETAIL ESTIMATE OF PHASE-A WORK AT JNV RAMBAN, JAMMU & KASHMIR			
SUMMARY OF COST FOR ELECTRICAL WORKS			
S. No	DESCRIPTION	AMOUNT	
		DSR-2022	NON-DSR
I	INTERNAL WIRING	589618.00	
II	DISTRIBUTION BOARDS & MCB's	55795.00	
III	TELEPHONE, TELEVISION & DATA SYSTEM	8990.00	
IV	EARTHING SYSTEM	51864.00	
V	LIGHTNING CONDUCTOR	38104.00	
VI	MISCELLANEOUS	14749.00	29095.00
VII	INTERNAL LIGHTING FIXTURES & FANS	32761.00	393690.00
IX	CABLE & ACCESSORIES		1576.00
	Total C/F To Summary	791881.00	424361.00
	SAY IN LACS	7.92	4.24

DETAIL ESTIMATE OF PHASE-A WORK AT JNV RAMBAN, JAMMU & KASHMIR

BILL OF QUANTITIES FOR ELECTRICAL WORKS (Kitchen & dining Hall)						
S.No	DSR-2022	DESCRIPTION	UNIT	Quantity	RATE (in Rs)	AMOUNT (in Rs)
I SUB HEAD (I) :- INTERNAL WIRING						
(DSR'2018)						
1		Point wiring in PVC conduit, with piano type switch :-				
	1.8	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 piano type switch, phenolic laminated sheet, suitable GI box and earthing the point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable etc. as required.				
	1.8.3	Group C	Point	120.00	1445.00	173400.00
2	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 piano type switch, phenolic laminated sheet, suitable GI box and earthing the point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable etc. as required.	Point	20.00	1457.00	29140.00
3		Power plug wiring in PVC conduit (2 x 4 Sq.Mm.) :-				
	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	220.00	334.00	73480.00
4		Power plug wiring in PVC conduit (4 x 4 Sq.Mm.) :-				
	1.13	Wiring for light/ power plug with 4X4 sq. mm FRLS PVC insulated copper conductor single core cable in surface/ recessed medium class pvc conduit alongwith 2 Nos. 4 sq. mm FRLS PVC insulated copper conductor single core cable for loop earthing as required.	M	25.00	537.00	13425.00
5		Circuit / Sub main wiring in PVC conduit :-				
	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.				
	1.14.1	2 X 1.5 sq. mm + 1 X 1.5 sq. mm earth wire.	M	60.00	233.00	13980.00
	1.14.2	2 X 2.5 sq. mm + 1 X 2.5 sq. mm earth wire.	M	350.00	275.00	96250.00
	1.14.4	2 x 6 sq.mm. + 1 x 6 sq.mm. Earth wire	M	25.00	439.00	10975.00
	1.14.5	2 x 10 sq.mm. + 1 x 6 sq.mm. Earth wire	M	60.00	570.00	34200.00
	1.14.10	4 x 10 sq.mm. + 2 x 6 sq.mm. Earth wire	M	95.00	1005.00	95475.00
	1.14.11	4 x 16 sq.mm. + 2 x 6 sq.mm. Earth wire	M	15.00	1365.00	20475.00
6		S/F light plug point piano type accessories :-				
	1.29	Supplying and fixing metal box of 150 mm X 75 mm X 60 mm deep (nominal size) on surface or in recess with suitable size of phenolic laminated sheet cover in front including providing and fixing 3 pin 5/6 A socket outlet and 5/6 A piano type switch, connections, painting etc. as required.	Each	6.00	358.00	2148.00
7		S/F power plug point piano type accessories :-				
	1.30	Supplying and fixing metal box of 180 mm X 100 mm X 60 mm deep (nominal size) on surface or in recess with suitable size of phenolic laminated sheet cover in front including providing and fixing 6 pin 5/6 A & 15/16 A socket outlet and 15/16 A piano type switch, connections, painting etc. as required.	Each	13.00	488.00	6344.00
8		S/F modular type electronic fan regulator :-				
	1.25	Supply 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	54.00	369.00	19926.00
9		S/F modular type blanking plate :-				
	1.26	Supply and fixing modular blanking plate on the existing modular plate & switch box excluding modular plate as required.	Each	10.00	40.00	400.00
TOTAL SUB HEAD (I) (DSR'2018)						589618.00
II SUB HEAD (II) :- DISTRIBUTION BOARDS & MCB's						
(DSR'2018)						
1	2.10	Supplying and fixing 5 amps. to 32 amps. rating, 240 volts 'C' series, miniature circuit breaker (MCB)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	78.00	256.00	19968.00
2	2.11	Supplying & fixing single pole, blanking plate in the existing MCB DB complete etc. as required.	Each	13.00	13.00	169.00
3		S/F DP MCB Isolator				
	2.12	Supplying and fixing following rating, double pole, 240 V, isolator in the existing MCB DB complete with connections, testing and commissioning etc.				
	2.12.1	40 Amps	Each	1.00	435.00	435.00

4		S/F TP MCB Isolator				
	2.13	Supplying and fixing following rating, four pole , 415 V, isolator in the existing MCB DB complete with connections, testing and commissioning etc.				
	2.13.1	40 Amps	Each	3.00	970.00	2910.00
5	2.14	Supplying and fixing following rating, double pole , (single phase and neutral), 240 volts, residual current circuit breaker (RCCB) , having a sensitivity current upto 300 milliampere in the existing MCB DB complete with connections, testing and commissioning etc. as required.				
	2.14.2	40 amps.	Each	1.00	2642.00	2642.00
6	2.15	Supplying and fixing following rating, four pole , (three phase & neutral) 415 volts, residual current circuit breaker (RCCB), having a sensitivity current upto 300 milliampere in the existing MCB DB complete with connections, testing and commissioning etc. as required :				
	2.15.2	40 amps.	Each	3.00	3188.00	9564.00
7	2.3	Supplying and fixing following way, SP&N, 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)				
	2.3.1	6 way, Double door	Each	1.00	2206.00	2206.00
8	2.4	Supplying and fixing following way, horizontal type TP&N, 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 / Isolators).				
	2.4.3	8 way (4 + 24), Double door	Each	3.00	5967.00	17901.00
		TOTAL SUB HEAD (II) (DSR'2018)				55795.00
III		SUB HEAD (III) :- TELEPHONE, TELEVISION & DATA SYSTEM (DSR'2018)				
1		S/F MODULAR BOXES, BASE & COVER PLATE :-				
	1.27	Supplying and fixing following size / modules, GI box along with modular base & cover plate for modular switches in recess etc as required				
	1.27.1	1 or 2 Module (75 mm x 75 mm)	Each	2.00	298.00	596.00
2		S/F PIANO TYPE SWITCH / SOCKET :-				
	1.23	Supplying and fixing following piano type switch / socket on the existing switch box including connections etc as required				
	1.23.6	Telephone Socket outlet	Each	1.00	109.00	109.00
	1.23.7	TV Antenna socket outlet	Each	1.00	95.00	95.00
3	1.21	Supply 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 :				
	1.21.1	20 mm.	M	25.00	128.00	3200.00
	1.21.2	25 mm.	M	10.00	145.00	1450.00
	1.21.3	32 mm.	M	10.00	184.00	1840.00
4	1.18	Supply and drawing following pair, 0.5 sq.mm. FRLS PVC insulated annealed copper conductor, unarmoured telephone cable in the existing surface / recessed steel/ PVC conduit as required.				
	1.18.2	2 Pair	M	20.00	38.00	760.00
5	1.19	Supply 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.				
			M	20.00	47.00	940.00
		TOTAL SUB HEAD (III) (DSR'2018)				8990.00
IV		SUB HEAD (IV) :- EARTHING SYSTEM (DSR'2018)				
1	5.4	Earthing with GI earth plate 600mm x 600 mm x 6mm 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.	Set	2.00	7472.00	14944.00
2	5.9	Supplying and laying 25 mm x 5 mm. G.I. strip at 0.50 metre below ground as strip earth electrode, including connection/ terminating with G.I. nut, bolt, spring, washer etc. as required. (Joining shall be done by overlapping and with 2 sets of G.I. nut bolt & spring washer spaced at 50mm)				
			M	25.00	144.00	3600.00
3	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.				
			M	20.00	706.00	14120.00
4	5.15	Providing and fixing 25mm x 5 mm G.I strip on surface or in recess for connections etc. as required.				
			M	50.00	244.00	12200.00

5	5.16	Providing and fixing 6 SWG dia G.I. wire on surface or in recess for loop earthing as required.	M	100.00	70.00	7000.00
		TOTAL SUB HEAD (IV) (DSR'2018)				51864.00
V		SUB HEAD (V) :- LIGHTNING CONDUCTOR (DSR'2018)				
1	5.4	Earthing with GI earth plate 600mm x 600 mm x 6mm 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.	Set	2.00	7472.00	14944.00
2	6.2	Providing and fixing of lighting 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	1.00	518.00	518.00
3	6.7	Providing and fixing G.I.tape 20 mm x 3 mm thick on parapet or surface of wall for lighting conductor complete as required (For horizontal run)	M	100.00	126.00	12600.00
4	6.8	Providing and fixing G.I.tape 20 mm x 3 mm thick on parapet or surface of wall for lighting conductor complete as required (For vertical run)	M	25.00	197.00	4925.00
5	6.12	Providing and fixing testing joint , made of 20mm. x 3mm. thick G.I. strip, 125mm. long, with 4 nos of G.I. bolts, nuts, check nuts and spring washers etc. complete as required.	Each	2.00	121.00	242.00
6	6.14	Providing & laying G.I. tape , 32mm x 6mm thick, from earth electrode directly in ground as required.	M	25.00	195.00	4875.00
		TOTAL SUB HEAD (V) (DSR'2018)				38104.00
VI		SUB HEAD (VI) :- MISCELLANEOUS (DSR'2018)				
1	2.21	Providing and fixing M.V. danger notice plate 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	14.14	Providing, laying and fixing following dia RCC pipe NP 2 class (light duty) in ground complete with RCC collars, jointing with cement mortar 1:2 (1cement : 2 fine sand) including trenching (75 cm deep) and refilling etc as required.				
	14.14.2	150 mm. dia.	MTRS	20.00	724.00	14480.00
		TOTAL SUB HEAD (VI)(DSR'2018)				14749.00
		(NON-DSR')				
1	MR	S/F of hexagonal fan box with hexagonal side of approx. 80 mm.in length fabricated from 14 SWG M.S. sheet incorporating with 10 mm. dia. M.S. round bar duly bent for supporting fan hanger painted with red oxide and screwing arrangement with wiring conduit laid in the R.C.C. roof before concreting along with supply of all materials, labour, T&P etc. for proper completion of work.	Each	49.00	345.00	16905.00
2	MR	S/F of shock treatment chart (prescribed under I.E.rules) duly FRLSamed with glass and supported from back with hard board with supply of all material labour T & P etc for proper completion of work.	Each	1.00	1020.00	1020.00
3	MR	Supplying, Fixing, Testing, Commissioning of 1800 mm x 900 mm x 20 mm thick chequered rubber matting of tested quality to withstand 11 KV dielectric strength complete in all respects.	Each	1.00	3170.00	3170.00
4	MR	AC Three Phase Dual Source CT operated, AC sensing Multifunction Energy meter of Accuracy Class 1.0, 3 X 240V, 50Hz, with Optical + Modbus RS485 Communication, Backlit LCD Display of Rating (Measures & Displays , Active & apparent energy, Loadsurvey , TOD & Power On/Off Events) of Rating 5-60 A	MTRS	1.00	8000.00	8000.00
		TOTAL SUB HEAD (VI) (NON DSR)				29095.00
VII		SUB HEAD(VII):-INTERNAL LIGHTING FIXTURES & FANS				
		SUPPLY OF LIGHTING FIXTURES (NON-DSR')				
1	MR	Supply of Astra Surface & wall mounted LED batten with extruded aluminum housing and robust construction of 15 watt & 1300 Lumens with all accessories as per standard item..(Such as Philips BN150W LED13S-6500 PSE OD GR or Equivalent).	Each	2.00	2170.00	4340.00
2	MR	1 x 15 watt surface mounting type LED light fixture complete with all accessories as required. (Eq. to Bajaj cat. no. BGSLO SLEEK SURFACE 15W WH RD)	Each	3.00	1270.00	3810.00
3	MR	1 x 18 watt surface mounting type LED light fixture complete with all accessories as required. (Eq. to Bajaj cat. no. BGSLO SLEEK SURFACE 18W WH RD)	Each	10.00	1270.00	12700.00

4		Supply of Mounting rail with Master LED tube with all accessories as per standard item:				
	MR	TMC 501 P 2xT-LED 22W P3241 with Master LED Tube 2x18 W, 3200 lumen	Each	78.00	2690.00	209820.00
		SUPPLY OF CEILING & EXHAUST FANS				
5		Supply of AC 230/250 volts, 50 HZ ceiling fan with standard down rod, blades, 2 nos. caps & regulator etc. ISI with 5 star marked & energy efficient complete as required.				
	MR	1200 mm sweep	Nos	49.00	2470.00	121030.00
6		Supply of AC 230/250 volts, 50 HZ exhaust fans including providing nuts, bolts, mounting FRLSame and other accessories etc. complete				
	MR	300 mm sweep 900 rpm	Nos	13.00	3230.00	41990.00
		TOTAL SUB HEAD (VII) (NON-DSR)				393690.00
		ERECTION OF LIGHTING FIXTURES AND FANS				
		DSR 2018				
1	1.41	Installation, testing and commissioning of pre-wired, fluorescent fitting / compact fluorescent 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	50.00	206.00	10300.00
2	1.45	Installation, testing and commissioning of ceiling fan 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	49.00	339.00	16611.00
3	1.50	Installation of exhaust fan in the existing opening, including making good the damage, connection, testing, commissioning etc. as required				
	1.50.1	Upto 450 mm sweep	Each	13.00	450.00	5850.00
		TOTAL SUB HEAD (VII) (DSR'2018)				32761.00
IX		SUB HEAD (IX) :- CABLE AND ACCESSORIES				
		CABLES SUPPLY				
		(NON-DSR')				
1		Supply and making end termination with brass double compression gland including providing and crimping of aluminium/copper solderless lugs/ferrules for XLPE/ PVC armoured/ Unarmoured aluminium/copper conductor cable 1.1 KV grade of following sizes:				
	i)	End Termination for Copper Conductor Armoured Cable				
	MR	2 x 10 sq.mm	Set	2.00	80.00	160.00
	MR	4 x 10 sq.mm	Set	6.00	236.00	1416.00
		TOTAL SUB HEAD (IX) NON D.S.R. ITEMS				1576.00

DETAIL ESTIMATE OF PHASE-A WORK AT JNV RAMBAN, JAMMU & KASHMIR

BOYS DORMITORY WITH 2 NO WARDEN RESIDENCE

SUMMARY OF COST (CIVIL WORK)

S. No.	Description	Amount (Rs.)	
1	EARTH WORK	179037.71	
2	CONCRETE WORK	121231.58	
3	REINFORCED CEMENT CONCRETE	10475990.72	
4	BRICK WORK	1580565.50	
5	MARBLE WORK	156238.54	
6	WOOD WORK & PVC WORK	2399247.14	
7	STEEL WORK	268540.71	
8	FLOORING	1759350.36	
9	FINISHING	989021.89	
10	WATER PROOFING	232238.46	
	Total for 1 Block	18161462.60	
	Total for 2 Block	36322925.19	
	Non DSR Amount	143618.06	
	Total for 2 Block	287236.11	
	Grand Total	287236.11	

DETAIL ESTIMATE OF PHASE-A WORK AT JNV RAMBAN, JAMMU & KASHMIR

BOYS DORMITORY WITH 2 NO WARDEN RESIDENCE

ABSTRACT OF COST (CIVIL WORKS)

S. No.	Ref. No	Description	Unit	Quantity	DSR 21 Rate	Amount (Rs.)	Remark
1.0	2	EARTH WORK					
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	407.63	286.85	116927.66	
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	244.58	253.95	62,110.05	
		Total of sub-head				179037.71	
2.0	4	CONCRETE WORK					
2.01	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	17.57	6050.65	106321.87	
2.02	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	1.59	9375.20	14909.71	
		Total of sub-head				121231.58	

S. No.	Ref. No	Description	Unit	Quantity	DSR 21 Rate	Amount (Rs.)	Remark
3.0	5	REINFORCED CEMENT CONCRETE					
3.01	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	85.76	307.95	26409.64	
c)	5.9.6	Columns, Pillars, Piers, Abutments, Posts and Struts	Sqm	610.87	804.25	491293.81	
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	13.83	307.95	4258.64	
e)	5.9.16	Edges of slabs and breaks in floors and walls					
f)	5.9.16.1	Under 20 cms wide	metre	106.75	181.90	19417.83	
g)	5.9.3	Suspended floors, roofs, landings, balconies and access platform.	Sqm	1198.76	766.55	918908.65	
h)	5.9.5	Lintels, beams, plinth beams, girders, bressumers and cantilevers.	Sqm	899.33	608.35	547109.13	
3.02	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	52172.00	89.65	4677219.80	
3.03	5.30	Add for plaster drip course/ groove in plastered surface or moulding to R.C.C. projections.	metre	110.00	64.70	7117.00	
3.04	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	141.31	7997.30	1130132.40	
(ii)	5.33.2	All works above plinth level upto floor V level	Cum	232.65	10080.15	2345175.01	
3.05	5.35	Add for using extra cement in the items of design mix over and above the specified cement content therein.	Quintal	448.76	688.45	308948.82	
		Total of sub-head				10475990.72	

S. No.	Ref. No	Description	Unit	Quantity	DSR 21 Rate	Amount (Rs.)	Remark
4.0	6	BRICK WORK					
4.01	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	6.36	6658.25	42350.07	
4.02	6.47	Providing and laying autoclaved aerated cement blocks masonry with 150mm/230mm/300 mm thick AAC blocks in super structure above plinth level up to floor V level with RCC band at sill level and lintel level with approved block laying polymer modified adhesive mortar all complete as per direction of Engineer-in-Charge. (The payment of RCC band and reinforcement shall be made for seperately).					
a)			Cum	173.68	6994.15	1,214,730.86	
4.03	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	292.88	1018.05	298165.21	
4.04	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	292.88	86.45	25319.37	
		Total of sub-head				1580565.50	

S. No.	Ref. No	Description	Unit	Quantity	DSR 21 Rate	Amount (Rs.)	Remark
5.0	8	MARBLE WORK					
5.01	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	25.92	2639.45	68414.54	
b)	8.2.2	Granite of any colour and shade					
i)	8.2.2.2	Area of slab over 0.50 sqm	sqm	8.10	4425.35	35845.34	
5.02	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	57.60	244.90	14106.24	
b)	8.3.2	Granite work	Metre	13.50	418.85	5654.48	
5.03	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	64.35	475.55	30601.64	
5.04	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	2.00	808.15	1616.30	
		Total of sub-head				156238.54	

S. No.	Ref. No	Description	Unit	Quantity	DSR 21 Rate	Amount (Rs.)	Remark
6.0	9	WOOD WORK & PVC WORK					
6.01	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	96.81	2015.75	195144.76	
6.02	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	96.81	401.40	38859.53	
6.03	9.26	Extra for cutting rebate in flush door shutters (Total area of the shutter to be measured).	Sqm	96.81	93.65	9066.26	
6.04	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	24.36	3140.15	76494.05	
6.05	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	20.00	224.95	4499.00	
6.06	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)	9.96.2	250x16 mm	Each	104.00	234.90	24429.60	
6.07	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)	9.97.3	200x10 mm	Each	104.00	90.80	9443.20	
6.08	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 :					
	9.100.1	125 mm	Each	104.00	60.05	6245.20	
6.09	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	48.00	62.25	2988.00	
6.10	9.147	Providing and fixing factory made uPVC white colour sliding glazed window upto 1.50 m in height dimension comprising of uPVC multi-chambered frame with in-built roller track and sash extruded profiles duly reinforced with 1.60 ± 0.2 mm thick galvanized mild steel section made from roll forming process of required length (shape & size according to uPVC profile), appropriate dimension of uPVC extruded glazing beads and uPVC extruded interlocks, EPDM gasket, wool pile, zinc alloy (white powder coated) touch locks with hook, zinc alloy body with single nylon rollers (weight bearing capacity to be 40 kg), G.I fasteners 100 x 8 mm size for fixing frame to finished wall and necessary stainless steel screws etc. Profile of frame & sash shall be mitred cut and fusion welded at all corners, including drilling of holes for fixing hardware's and drainage of water etc. After fixing frame the gap between frame and adjacent finished wall shall be filled with weather proof silicon sealant over backer rod of required size and of approved quality, all complete as per approved drawing & direction of Engineer-in-Charge. (Single / double glass panes, wire mesh and silicon sealant shall be paid separately). Variation in profile dimension in higher side shall be accepted but no extra payment on this account shall be made.					

S. No.	Ref. No	Description	Unit	Quantity	DSR 21 Rate	Amount (Rs.)	Remark
a)	9.147D.4	Three track three panels sliding window with fly proof S.S wire mesh (Two nos. glazed & one no. wire mesh panels) made of (big series) frame 116 x 45 mm & sash 46 x 62 mm both having wall thickness of 2.3 ± 0.2 mm and single glazing bead / double glazing bead of appropriate dimension. (Area of window above 1.75 sqm).	Sqm	163.52	9642.60	1576709.74	
6.11	dsr-9.7.7.2	Float glass panes 5.0 mm thick glass panes (weight not less than 12.50 kg/sqm).	Sqm	163.52	2231.20	364834.67	
6.12	9.147	Providing and fixing factory made uPVC white colour fixed glazed windows/ ventilators comprising of uPVC multi-chambered frame and mullion (where ever required) extruded profiles duly reinforced with 1.60 ± 0.2 mm thick galvanized mild steel section made from roll forming process of required length (shape & size according to uPVC profile), uPVC extruded glazing beads of appropriate dimension, EPDM gasket, G.I fasteners 100 x 8 mm size for fixing frame to finished wall, plastic packers, plastic caps and necessary stainless steel screws etc. Profile of frame shall be mitred cut and fusion welded at all corners, mullion (if required) shall be also fusion welded including drilling of holes for fixing hardware's and drainage of water etc. After fixing frame the gap between frame and adjacent finished wall shall be filled with weather proof silicon sealant over backer rod of required size and of approved quality, all complete as per approved drawing & direction of Engineer-in-Charge. (Single / double glass panes and silicon sealant shall be paid separately). Variation in profile dimension in higher side shall be accepted but no extra payment on this account shall be made.					
a)	9.147B.1	Fixed window / ventilator made of (small series) frame 47 x 50 mm & mullion 47 x 68 mm both having wall thickness of 1.9 ± 0.2 mm and single glazing bead of appropriate dimension.	Sqm	12.49	7249.90	90533.13	
		Total of sub-head				2399247.14	

S. No.	Ref. No	Description	Unit	Quantity	DSR 21 Rate	Amount (Rs.)	Remark
7.00	10	STEEL WORK					
7.01	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	1019.90	114.65	116931.54	
7.02	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	56.00	185.20	10371.20	
7.03	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	853.27	157.15	134091.69	
7.04	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	7.60	940.30	7146.28	
		Total of sub-head				268540.71	

S. No.	Ref. No	Description	Unit	Quantity	DSR 21 Rate	Amount (Rs.)	Remark
8.00	11	FLOORING					
8.01	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	524.15	1706.60	894511.66	
8.02	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	77.63	2038.55	158246.19	
8.03	11.31	Extra for pre finished nosing in treads of steps of Kota stone/ sand stone slab.	Metre	153.68	157.35	24181.55	
8.04	11.32	Extra for Kota stone/ sand stone in treads of steps and risers using single length up to 1.05 metre.	Sqm	63.36	36.35	2303.14	
8.05	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	503.18	1063.45	535111.02	
8.06	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	92.00	1416.65	130331.80	
8.07	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	10.00	1466.50	14665.00	
		Total of sub-head				1759350.36	
9.00	13	FINISHING					
9.01	13.4	12 mm cement plaster of mix					
a)	13.4.2	1:6 (1 cement: 6 coarse sand)	Sqm	666.00	294.35	196037.10	
9.02	13.5	15 mm cement plaster on rough side of single or half brick wall of mix:					
a)	13.5.2	1:6 (1 cement: 6 coarse sand)	Sqm	1169.92	339.10	396719.62	
9.03	13.37	White washing with lime to give an even shade :					
a)	13.37.1	New work (three or more coats)	Sqm	927.93	32.45	30111.29	
9.04	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	665.84	162.55	108231.52	
9.05	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	1169.92	162.35	189936.39	
9.06	13.50	Applying priming coat:					
a)	13.50.1	With ready mixed pink or Grey primer of approved brand and manufacture on wood work (hard and soft wood)	Sqm	261.58	61.45	16073.85	

S. No.	Ref. No	Description	Unit	Quantity	DSR 21 Rate	Amount (Rs.)	Remark
b)	13.50.3	With ready mixed red oxide zinc chromate primer of approved brand and manufacture on steel galvanised iron/ steel works	Sqm	93.76	55.50	5203.54	
9.07	13.61	Painting with synthetic enamel paint of approved brand and manufacture to give an even shade :					
a)	13.61.1	Two or more coats on new work	Sqm	355.33	131.45	46708.58	
		Total of sub-head				989021.89	

S. No.	Ref. No	Description	Unit	Quantity	DSR 21 Rate	Amount (Rs.)	Remark
10.00	22	WATER PROOFING					
10.01	22.3	Providing and laying water proofing treatment to vertical and horizontal surfaces of depressed portions of W.C., kitchen and the like consisting of:					
	(a)	Ist course of applying cement slurry @ 4.4 kg/sqm mixed with water proofing compound conforming to IS 2645 in recommended proportions including rounding off junction of vertical and horizontal surface.					
	(b)	IIInd course of 20 mm cement plaster 1:3 (1 cement : 3 coarse sand) mixed with water proofing compound in recommended proportion including rounding off junction of vertical and horizontal surface.					
	(c)	IIIrd course of applying blown or residual bitumen applied hot at 1.7 kg. per sqm of area.					
	(d)	IVth course of 400 micron thick PVC sheet. (Overlaps at joints of PVC sheet should be 100 mm wide and pasted to each other with bitumen @ 1.7 kg/sqm).	Sqm	71.11	774.25	55056.14	
10.02	22.8	Providing and laying four courses water proofing treatment with bitumen felt over roofs consisting of first and third courses of blown bitumen 85/25 or 90/15 conforming to IS : 702 applied hot @ 1.45 Kg per square metre of area for each course, second course of roofing felt type 3 grade-I (hessian based self finished bitumen felt) and fourth and final course of stone grit 6 mm and down size or pea sized gravel spread at 6 cubic decimeter per square metre, including preparation of surface but excluding grading complete with :					
	22.8.1	Bitumen felt (hessian base) type 3 grade I conforming to IS : 1322	Sqm	178.00	432.10	76913.80	
10.03	22.14	Grading roof for water proofing treatment with					
	22.14.1	Cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20mm nominal size)	Cum	13.35	7510.75	100268.51	
		Total of sub-head				232238.46	

S. No.	Ref. No	Description	Unit	Quantity	DSR 21 Rate	Amount (Rs.)	Remark
11.00		NON SCHEDULE ITEMS					
11.01	MR	Providing and laying cinder filling in sunken floors and other locations with approved quality cinder including watering and light ramming etc. required for proper compaction/completion of the work complete in all respects as per drawings and as directed by the Engineer in Charge.	Cum	14.22	2000.00	28443.60	
11.02	MR	Providing and laying 1st quality ceramic glazed Anti skid floor tiles of size 300x300 mm (thickness to be specified by the manufacturer) conforming to IS:15622 in all colours, shades, sizes as approved over 20 mm thick bed of Cement Mortar 1: 4 (1 cement : 4 Coarse Sand) including pointing the joints with white cement and matching pigment etc complete in all respects as per specifications/drawings and to the entire satisfaction to the Architect.	Sqm	104.70	1100.00	115174.46	
		Total of sub-head				143618.06	

DETAIL ESTIMATE OF PHASE-A WORK AT JNV RAMBAN, JAMMU & KASHMIR

BOYS DORMITORY WITH 2 NO WARDEN RESIDENCE

SUMMARY OF COST (SANITARY WORK)

S. No.	DESCRIPTION	AMOUNT (Rs.)	
1	EARTH WORK	32793.50	
2	ROOFING	43695.85	
3	SANITARY INSTALLATIONS	457215.25	
4	WATER SUPPLY	288773.50	
5	SEWERAGE & DRAINAGE	235315.70	
	Total for 1 Block	1,057,793.80	
	Total for 2 Block	2,115,587.60	
6	Total for 1 Block NDSR	43,464.00	
	Total for 2 Block NDSR	86,928.00	
	TOTAL NON DSR ITEMS (B)	86,928.00	

DETAIL ESTIMATE OF PHASE-A WORK AT JNV RAMBAN, JAMMU & KASHMIR

BOYS DORMITORY WITH 2 NO WARDEN RESIDENCE

ABSTRACT OF COST (SANITARY WORKS)

S. No.	Ref. No	Description	Unit	Qty	DSR 21 Rate	Amount (Rs.)
1	2	3	4	5	6.00	7
1.00	2.00	EARTH WORK				
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				
a)	2.8.1	All kinds of soil.	Cum	25.00	286.85	7171.25
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				
	2.10.1	All kinds of soil				
a)	2.10.1.1	Pipes, cables etc, not exceeding 80 mm dia.	Metre	25.00	255.55	6388.75
b)	2.10.1.2	Pipes, cables etc. exceeding 80 mm dia. but not exceeding 300 mm dia	Metre	40.00	417.35	16694
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	10.00	253.95	2539.5
		Total of sub-head				32793.50
2.00	12.00	ROOFING				
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	125.00	319.75	39968.75
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	3.00	119.95	359.85
ii)	12.42.5	Bend 87.5°				
a)	12.42.5.2	110 mm bend	Each	3.00	132.00	396
iii)	12.42.6	Shoe (Plain)				
a)	12.42.6.2	110 mm Shoe	Each	3.00	115.95	347.85
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	309.50	1857
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	16.00	47.90	766.4
		Total of sub-head				43695.85
3.00	17.00	SANITARY INSTALLATIONS				

S. No.	Ref. No	Description	Unit	Qty	DSR 21 Rate	Amount (Rs.)
1	2	3	4	5	6.00	7
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 fixtures complete, including cutting and making good the walls and floors wherever required:				
a)	17.1.1	White Vitreous china Orissa pattern W.C. pan of size 580x440 mm with integral type foot rests	Each	12.00	5781.35	69376.200
3.02	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 :				
a)	17.3.2	W.C. pan with ISI marked black solid plastic seat and lid	Each	5.00	6827.55	34137.750
3.03	17.23	Providing and fixing white vitreous china flat back or wall corner type lipped front urinal basin of 430x260x350 mm and 340x410x265 mm sizes respectively.	Each	4.00	1382.30	5529.20
3.04	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	2.00	2731.45	5462.900
3.05	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 :				
a)	17.10.1	Kitchen sink with drain board				
	17.10.1.1	510x1040 mm bowl depth 250 mm	Each	2.00	6008.45	12016.900
3.06	17.16	Extra for using coloured pedestal type W.C pan (European type) with low level cistern of same colour instead of white vitreous china W.C pan and cistern.	Each	5.00	167.25	836.250
3.07	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.	Each	2.00	1411.15	2822.300
3.08	17. 34	Providing and fixing toilet paper holder :				
a)	17.34.2	Vitreous china	Each	5.00	463.00	2315.000
3.09	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	70.00	1077.40	75418.000
b)	17.35.2	75mm diameter				
i)	17.35.2.2	Centrifugally cast (spun) iron socketed pipe as per IS: 3989	Metre	65.00	1042.10	67736.500
3.10	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	35.00	308.45	10795.750
b)	17.37.2	For 75 mm dia. pipe	Each	2.00	304.45	608.900
3.11	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				

S. No.	Ref. No	Description	Unit	Qty	DSR 21 Rate	Amount (Rs.)
1	2	3	4	5	6.00	7
i)	17.38.1.2	Sand cast iron S&S as per IS - 3989	Each	18.00	597.60	10756.800
b)	17.38.2	75 mm				
i)	17.38.2.2	Sand cast iron S&S as per IS- 3989	Each	2.00	453.40	906.800
3.12	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	30.00	439.75	13192.500
b)	17.39.2	75 mm				
i)	17.39.2.2	Sand cast iron S&S as per IS - 3989	Each	2.00	298.20	596.40
3.13	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	4.00	439.75	1759.000
b)	17.40.2	75 mm dia				
i)	17.40.2.2	Sand cast iron S&S as per IS - 3989	Each	1.00	405.25	405.250
3.14	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	9.00	731.40	6582.600
b)	17.43.1	75x75x75mm				
i)	17.43.2.2	Sand cast iron S&S as per IS - 3989	Each	1.00	573.80	573.800
3.15	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	12.00	707.30	8487.600
b)	17.44.2	75x75x75mm				
i)	17.44.2.2	Sand cast iron S&S as per IS - 3989	Each	1.00	498.90	498.900
3.16	17. 55	Providing and fixing door piece, insertion rubber washer 3mm thick, bolts & nuts complete :				
a)	17.55.1	100 mm				
i)	17.55.1.2	Sand cast iron S&S as per IS - 3989	Each	10.00	611.00	6110.000
b)	17.55.2	75 mm				
i)	17.55.2.2	Sand cast iron S&S as per IS - 3989	Each	2.00	453.40	906.800
3.17	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	9.00	439.75	3957.750
b)	17.56.2	75 mm				
i)	17.56.2.2	Sand cast iron S&S as per IS - 3989	Each	1.00	311.55	311.550
3.18	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	20.00	439.75	8795.000
b)	17.57.2	75 mm				
i)	17.57.2.2	Sand cast iron S&S as per IS - 3989	Each	1.00	271.45	271.450
3.19	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	25.00	549.65	13741.250
b)	17.58.2	75 mm	Each	20.00	466.40	9328.000
3.20	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	9.00	128.65	1157.850
b)	17.59.2	75 mm	Each	1.00	80.10	80.100
3.21	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 :				
a)	17.60.1	100 mm inlet and 100 mm outlet				
i)	17.60.1.2	Sand Cast Iron S&S as per IS: 1729	Each	12.00	1403.45	16841.400

S. No.	Ref. No	Description	Unit	Qty	DSR 21 Rate	Amount (Rs.)
1	2	3	4	5	6.00	7
3.22	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 and pointing in cement mortar 1:4 (1 cement : 4 coarse sand) :				
a)	17.61.1	100 mm dia	Metre	30.00	615.70	18471.000
3.23	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 :				
b)	17.65.2	75 mm diameter pipe	Metre	10.00	52.90	529.000
3.24	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	6.00	109.70	658.200
3.25	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	2.00	325.10	650.200
3.26	17.71	Providing and fixing PTMT liquid soap container 109 mm wide, 125 mm high and 112 mm distance from wall of standard shape with bracket of the same materials with snap fittings of approved quality and colour, weighing not less than 105 gms.	Each	2.00	146.30	292.600
3.27	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.				
a)	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.	Each	2.00	600.35	1200.700
3.28	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 :				
a)	17.10.1	Kitchen sink with drain board				
	17.10.1.1	510x1040 mm bowl depth 250 mm	Each	2.00	6008.45	12016.900
3.29	17.16A	Providing and fixing 8mm dia C.P / S.S Jet with flexible tube upto 1 metre long with S.S triangular plate to European type W.C of quality and make as approved by engineer-in-charge.	Each	2.00	299.35	598.70
3.30	18.12	Providing and fixing G.I. pipes complete with G.I. fittings including trenching & refilling.				
		External work				
	18.12.4	32mm dia nominal bore	Metre	30.00	457.70	13731.00
	18.12.5	40mm dia nominal bore	Metre	30.00	558.35	16750.50
		Total of sub-head				457215.25
4.00	18.00	WATER SUPPLY				

S. No.	Ref. No	Description	Unit	Qty	DSR 21 Rate	Amount (Rs.)
1	2	3	4	5	6.00	7
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.				
		Internal work - Exposed on wall				
a)	18.7.2	20 mm nominal outer dia Pipes	Metre	25.00	325.10	8127.50
b)	18.7.3	25 mm nominal outer dia Pipes	Metre	30.00	408.55	12256.50
c)	18.7.4	32 mm nominal outer dia Pipes	Metre	20.00	500.95	10019.00
d)	18.7.5	40 mm nominal outer dia Pipes	Metre	40.00	674.35	26974.00
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	20.00	441.15	8823.00
b)	18.8.2	20 mm nominal outer dia Pipes	Metre	60.00	513.75	30825.00
c)	18.8.3	25 mm nominal outer dia Pipes	Metre	30.00	626.05	18781.50
d)	18.8.4	32 mm nominal outer dia Pipes	Metre	25.00	712.75	17818.75
4.03	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	2.00	757.10	1514.20
4.04	18.16	Providing and fixing brass stop cock of approved quality :				
a)	18.16.1	15 mm nominal bore	Each	2.00	303.85	607.70
b)	18.16.2	20 mm nominal bore	Each	16.00	327.95	5247.20
4.05	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	4.00	532.35	2129.40
b)	18.17.2	32mm nominal bore	Each	4.00	589.90	2359.60
c)	18.17.3	40mm nominal bore	Each	10.00	707.30	7073.00
4.06	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	399.15	798.30
4.07	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	2.00	447.00	894.00
4.08	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	8.00	85.20	681.60
4.09	18.22	Providing and fixing C.P. brass shower rose with 15 or 20 mm inlet :				
a)	18.22.1	100 mm diameter	Each	5.00	166.35	831.75
4.10	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.				
a)	18.48B	Rectangular tank	Per litre	10000.00	9.70	97000.00
4.11	18.49	Providing and fixing C.P. brass bib cock of approved quality conforming to IS:8931 :				

S. No.	Ref. No	Description	Unit	Qty	DSR 21 Rate	Amount (Rs.)
1	2	3	4	5	6.00	7
a)	18.49.1	15 mm nominal bore	Each	15.00	434.20	6513.00
4.12	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	15.00	708.40	10626.00
4.13	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	4.00	594.75	2379.00
4.14	18.53	Providing and fixing C.P. brass angle valve for basin mixer and geyser points of approved quality conforming to IS:8931				
a)	18.53.1	15 mm nominal bore	Each	20.00	500.35	10007.00
4.15	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	25.00	33.20	830.00
4.16	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	15.00	377.10	5656.50
		Total of sub-head				288773.500
5.00	19	SEWORAGE & DRAINAGE				
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	10.00	375.75	3757.50
b)	19.1.2	150 mm diameter	Metre	30.00	591.40	17742.00
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	10.00	895.50	8955.00
b)	19.2.2	150 mm diameter S.W. pipe	Metre	30.00	1095.15	32854.50
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				
a)	19.4.3	180 x 150 mm size P type				
i)	19.4.3.1	With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	Each	13.00	2534.00	32942.00
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) :				

S. No.	Ref. No	Description	Unit	Qty	DSR 21 Rate	Amount (Rs.)
1	2	3	4	5	6.00	7
i)	19.7.1.1	With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	Each	4.00	11687.10	46748.40
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	2.00	8127.45	16254.90
5.06	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 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.	Each	10.00	487.10	4871.00
5.07	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	683.70	1367.40
5.08	19.6	Providing, laying and jointing non pressure NP2 class (light duty)RCC 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 :				
a)	19.6.2	150 mm dia RCC pipe	Metre	10.00	493.10	4931.00
b)	19.6.3	250 mm dia RCC pipe	Metre	80.00	811.15	64892.00
		Total of sub-head				235315.70
6.00		NON SHEDULE ITEMS				
6.01	NS	Providing and fixing concealed single lever bath & overhead shower mixer of hindware make and model No. (F360019CP) respectively or equivalent approved make as approved by Engineer in charge.	Each	2.000	5000.00	10000.00
6.02	NS	Supplying, fixing, testing and commissioning of storage type water heater (Geyser) etc. with Stainless steel body , copper container , automatic thermostatic control electric element, pressure release valve, M.S. nuts and bolts etc. conforming to IS: 2082				
a)		25 Litre Capacity	Each	2.000	13188.00	26376.00
6.03	NS	Providing & fixing Sink Mixer with Swinging Casted Spout (Wall Mounted Jaquar model CON-309 KN)/approved equal with 450mm long copper pipes & brass nuts.	Each	1.00	3522.00	3522.00
6.04	NS	Providing and fixing C.P. brass grab bar(600mm long) fixed with C.P. brass screws including all fittings complete.Jaquar model no. AHS-1507/approve equal.	Each	2.00	1783.00	3566.00
		Total of sub-head				43464.00

DETAIL ESTIMATE OF PHASE-A WORK AT JNV RAMBAN, JAMMU & KASHMIR

BOYS DORMITORY WITH 2 NO WARDEN RESIDENCE

SUMMARY OF COST (ELECTRICAL WORK)

SUB HEAD	PARTICULARS	AMOUNT AS PER	
		SR ITEMS	NS ITEMS
I	WIRING	626,932.00	9,089.55
II	SUPPLY OF FITTINGS AND FANS	68,418.00	389,180.90
III	BOARDS & DISTRIBUTION BOARDS	106,041.00	-
IV	EARTHING	43,950.00	-
V	STREET LIGHTING ON BUILDING	29,464.00	15,837.90
VI	LIGHTNING CONDUCTOR	18,622.00	-
	TOTAL FOR 1 BLOCK	893,427.00	414,108.35
	TOTAL FOR 2 BLOCK	1,786,854.00	828,216.70

DETAIL ESTIMATE OF PHASE-A WORK AT JNV RAMBAN, JAMMU & KASHMIR
BOYS DORMITORY WITH 2 NO WARDEN RESIDENCE
ABSTRACT OF COST (ELECTRICAL WORKS)

SI. No.	DSR-2022	DESCRIPTION	UNIT	QTY.	RATE (AS PER SR)	RATE (AS PER NS)	AMOUNT (SR ITEMS)	AMOUNT (NS ITEMS)
1.00		SUBHEAD - I - WIRING						
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	114.00	1467.00		167238.00	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	182.00	334.00		60788.00	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	177.50	662.00		117505.00	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	11.00	343.00		3773.00	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	11.00	156.00		1716.00	0.00
b)	1.24.4	3 pin 5/6 A socket outlet	Each	25.00	122.00		3050.00	0.00
c)	1.24.6	Telephone socket outlet	Each	2.00	148.00		296.00	0.00
d)	1.24.7	TV antenna socket outlet	Each	6.00	148.00		888.00	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	200.00	327.00		65400.00	0.00
b)	1.7.4	2 X 6 sq. mm + 1 X 6 sq. mm earth wire	Metre	60.00	589.00		35340.00	0.00
c)	1.7.5	2 X 10 sq. mm + 1 X 6 sq. mm earth wire	Metre	50.00	710.00		35500.00	0.00
d)	1.7.8	4 X 4 sq. mm + 2 X 4 sq. mm earth wire	Metre	125.00	677.00		84625.00	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	124.00	47.00		5828.00	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	50.00	256.00		12800.00	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	80.00	298.00		23840.00	0.00
1.10	1.18	Supplying and drawing following pair 0.5 mm dia FRLS PVC insulated annealed copper conductor, unarmored telephone cable in the existing surface/ recessed steel/ PVC conduit as required.						
a)	1.18.2	2 Pair	Metre	40.00	38.00		1520.00	0.00
1.11	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	25.00	128.00		3200.00	

Sl. No.	DSR-2022	DESCRIPTION	UNIT	QTY.	RATE (AS PER SR)	RATE (AS PER NS)	AMOUNT (SR ITEMS)	AMOUNT (NS ITEMS)
b)	1.21.2	25 mm	Metre	25.00	145.00		3625.00	
1.12	M . R	Providing and fixing in position 2mm thick M.S. Telephone junction box of size suitable for fixing of following Krone Tag Block with key lock arrangement. Also provide clamps for fixing tag blocks.						
a)	a)	10 pair Telephone Tag Block with box	Each	1.00		496.55	0.00	496.55
1.13	M . R	Supplying, laying of 10 pair unarmoured PVC insulated copper conductor (ATC) telephone cable in ground/existing pipes/on wall and making connection with telephone main junction box (MDF) including supports and all accessories as required						
a)	a)	10 Pair Cable unarmoured	Metre	50.00		171.86	0.00	8593.00
		TOTAL OF SUBHEAD - 1					626932.00	9089.55
2.00		SUBHEAD - II - SUPPLY & INSTALLATION OF FITTINGS						
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 read						
a)		Mounting rail for TLED lamps 1600 Lumens (TMC 501 P 1xT-LED with Essential LED 18W Tube)	Each	60.00		585.35	0.00	35121.00
b)		Sereno 42 watt 2950 lumens philips SP824 P LED 30S-5000 GR OA	Each	4.00		9366.25	0.00	37465.00
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	4.00		2458.65	0.00	9834.60
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	18.00		1170.80	0.00	21074.40
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	46.00		2868.45	0.00	131948.70
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	4.00		1697.60	0.00	6790.40
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	16.00		1639.10	0.00	26225.60
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	58.00		2081.40	0.00	120721.20
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	58.00	369.00		21402.00	0.00

SI. No.	DSR-2022	DESCRIPTION	UNIT	QTY.	RATE (AS PER SR)	RATE (AS PER NS)	AMOUNT (SR ITEMS)	AMOUNT (NS ITEMS)
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	58.00	339.00		19662.00	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	60.00	206.00		12360.00	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	16.00	450.00		7200.00	0.00
2.12	1.51	Extra for fixing the louvers/ shutters complete with frame for a exhaust fan of all sizes.	Each	16.00	207.00		3312.00	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	36.00	119.00		4284.00	0.00
2.14	1.38	Supplying and fixing call bell/ buzzer suitable for single phase, 230 V, complete as required.	Each	2.00	99.00		198.00	0.00
		TOTAL OF SUBHEAD - II.					68418.00	389180.90
3.00		SUBHEAD - III - DISTRIBUTION BOARD						
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	5.00	4974.00		24870.00	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	5.00	1227.00		6135.00	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	5.00	2872.00		14360.00	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	4.00	435.00		1740.00	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	4.00	2315.00		9260.00	0.00
b)	2.3.4	16 way , Double door	Each	4.00	3141.00		12564.00	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	4.00	2028.00		8112.00	0.00
(b)	2.14.2	40 A	Each	4.00	2642.00		10568.00	0.00

Sl. No.	DSR-2022	DESCRIPTION	UNIT	QTY.	RATE (AS PER SR)	RATE (AS PER NS)	AMOUNT (SR ITEMS)	AMOUNT (NS ITEMS)
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	72.00	256.00		18432.00	0.00
		TOTAL OF SUBHEAD - III.					106041.00	0.00
4.00		<u>SUBHEAD - IV - EARTHING</u>						
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	2.00	6855.00		13710.00	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	20.00	287.00		5740.00	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	350.00	70.00		24500.00	0.00
		TOTAL OF SUBHEAD - IV					43950.00	0.00
5.00		<u>SUBHEAD - V - STREET LIGHTING ON BUILDING</u>						
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. (Philips Cat No. TRC 33 / 236 HPF) (To be fixed directly on wall of building)	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	80.00		98.45	0.00	7876.00
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	30.00	387.00		11610.00	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	10.00	37.00		370.00	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	6.00	55.00		330.00	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	4.00	240.00		960.00	0.00

SI. No.	DSR-2022	DESCRIPTION	UNIT	QTY.	RATE (AS PER SR)	RATE (AS PER NS)	AMOUNT (SR ITEMS)	AMOUNT (NS ITEMS)
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 bakelie connector to terminate incoming & outgoing armoured cable & wiring the light fixture with 3x1.5 sq mm PVC insulated coppwer wire including interconnection ets 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 withcement 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	20.00	662.00		13240.00	0.00
		TOTAL OF SUBHEAD - V.					29464.00	15837.90
6.00	6.00	SUBHEAD - VI - LIGHTNING CONDUCTOR						
6.01	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	2.00	518.00		1036.00	0.00
6.02	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	4.00	113.00		452.00	0.00
6.03	6.9	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 horizontal run)	Rm	60.00	80.00		4800.00	0.00
6.04	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)	Rm	50.00	162.00		8100.00	0.00
6.05	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	4.00	121.00		484.00	0.00
6.06	6.15	Laying copper/ G.I. tape 32 mm X 6 mm from earth electrode directly in ground as required	Rm	50.00	75.00		3750.00	0.00
		TOTAL OF SUBHEAD - VI					18622.00	0.00
		TOTAL (I TO V)					893427.00	414108.35

DETAIL ESTIMATE OF PHASE-A WORK AT JNV RAMBAN, JAMMU & KASHMIR

BOYS DORMITORY WITH 4 NO WARDEN RESIDENCE

SUMMARY OF COST (CIVIL WORK)

S. No.	Description	Amount (Rs.)	
1	EARTH WORK	179037.71	
2	CONCRETE WORK	123642.32	
3	REINFORCED CEMENT CONCRETE	11690849.70	
4	BRICK WORK	2064136.49	
5	MARBLE WORK	156238.54	
6	WOOD WORK & PVC WORK	3030028.70	
7	STEEL WORK	295403.37	
8	FLOORING	1939332.14	
9	FINISHING	988507.43	
10	WATER PROOFING	232238.46	
	Total	20699414.86	
	Non DSR Amount	167116.86	

DETAIL ESTIMATE OF PHASE-A WORK AT JNV RAMBAN, JAMMU & KASHMIR

BOYS DORMITORY WITH 4 NO WARDEN RESIDENCE

ABSTRACT OF COST (CIVIL WORKS)

S. No.	Ref. No	Description	Unit	Quantity	DSR 21 Rate	Amount (Rs.)	Remark
1.0	2	EARTH WORK					
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	407.63	286.85	116927.66	
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	244.58	253.95	62,110.05	
		Total of sub-head				179037.71	
2.0	4	CONCRETE WORK					
2.01	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	17.57	6050.65	106321.87	
2.02	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	1.85	9375.20	17320.45	
		Total of sub-head				123642.32	

S. No.	Ref. No	Description	Unit	Quantity	DSR 21 Rate	Amount (Rs.)	Remark
3.0	5	REINFORCED CEMENT CONCRETE					
3.01	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	85.76	307.95	26409.64	
c)	5.9.6	Columns, Pillars, Piers, Abutments, Posts and Struts	Sqm	684.16	804.25	550235.68	
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	16.07	307.95	4947.22	
e)	5.9.16	Edges of slabs and breaks in floors and walls					
f)	5.9.16.1	Under 20 cms wide	metre	106.75	181.90	19417.83	
g)	5.9.3	Suspended floors, roofs, landings, balconies and access platform.	Sqm	1317.75	766.55	1010119.48	
h)	5.9.5	Lintels, beams, plinth beams, girders, bressumers and cantilevers.	Sqm	1004.48	608.35	611072.90	
3.02	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	58615.00	89.65	5254834.75	
3.03	5.30	Add for plaster drip course/ groove in plastered surface or moulding to R.C.C. projections.	metre	110.00	64.70	7117.00	
3.04	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	152.57	7997.30	1220148.06	
(ii)	5.33.2	All works above plinth level upto floor V level	Cum	263.04	10080.15	2651457.88	
3.05	5.35	Add for using extra cement in the items of design mix over and above the specified cement content therein.	Quintal	486.73	688.45	335089.27	
		Total of sub-head				11690849.70	

S. No.	Ref. No	Description	Unit	Quantity	DSR 21 Rate	Amount (Rs.)	Remark
4.0	6	BRICK WORK					
4.01	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	16.36	6658.25	108928.97	
4.02	6.47	Providing and laying autoclaved aerated cement blocks masonry with 150mm/230mm/300 mm thick AAC blocks in super structure above plinth level up to floor V level with RCC band at sill level and lintel level with approved block laying polymer modified adhesive mortar all complete as per direction of Engineer-in-Charge. (The payment of RCC band and reinforcement shall be made for seperately).					
a)			Cum	221.22	6994.15	1,547,249.23	
4.03	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	369.36	1018.05	376027.10	
4.04	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	369.36	86.45	31931.18	
		Total of sub-head				2064136.49	

S. No.	Ref. No	Description	Unit	Quantity	DSR 21 Rate	Amount (Rs.)	Remark
5.0	8	MARBLE WORK					
5.01	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	25.92	2639.45	68414.54	
b)	8.2.2	Granite of any colour and shade					
i)	8.2.2.2	Area of slab over 0.50 sqm	sqm	8.10	4425.35	35845.34	
5.02	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	57.60	244.90	14106.24	
b)	8.3.2	Granite work	Metre	13.50	418.85	5654.48	
5.03	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	64.35	475.55	30601.64	
5.04	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	2.00	808.15	1616.30	
		Total of sub-head				156238.54	

S. No.	Ref. No	Description	Unit	Quantity	DSR 21 Rate	Amount (Rs.)	Remark
6.0	9	WOOD WORK & PVC WORK					
6.01	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	218.65	2015.75	440743.74	
6.02	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	118.65	401.40	47626.11	
6.03	9.26	Extra for cutting rebate in flush door shutters (Total area of the shutter to be measured).	Sqm	118.65	93.65	11111.57	
6.04	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	28.56	3140.15	89682.68	
6.05	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	24.00	224.95	5398.80	
6.06	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)	9.96.2	250x16 mm	Each	128.00	234.90	30067.20	
6.07	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)	9.97.3	200x10 mm	Each	128.00	90.80	11622.40	
6.08	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 :					
	9.100.1	125 mm	Each	128.00	60.05	7686.40	
6.09	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	64.00	62.25	3984.00	
6.10	9.147	Providing and fixing factory made uPVC white colour sliding glazed window upto 1.50 m in height dimension comprising of uPVC multi-chambered frame with in-built roller track and sash extruded profiles duly reinforced with 1.60 ± 0.2 mm thick galvanized mild steel section made from roll forming process of required length (shape & size according to uPVC profile), appropriate dimension of uPVC extruded glazing beads and uPVC extruded interlocks, EPDM gasket, wool pile, zinc alloy (white powder coated) touch locks with hook, zinc alloy body with single nylon rollers (weight bearing capacity to be 40 kg), G.I fasteners 100 x 8 mm size for fixing frame to finished wall and necessary stainless steel screws etc. Profile of frame & sash shall be mitred cut and fusion welded at all corners, including drilling of holes for fixing hardware's and drainage of water etc. After fixing frame the gap between frame and adjacent finished wall shall be filled with weather proof silicon sealant over backer rod of required size and of approved quality, all complete as per approved drawing & direction of Engineer-in-Charge. (Single / double glass panes, wire mesh and silicon sealant shall be paid separately). Variation in profile dimension in higher side shall be accepted but no extra payment on this account shall be made.					

S. No.	Ref. No	Description	Unit	Quantity	DSR 21 Rate	Amount (Rs.)	Remark
a)	9.147D.4	Three track three panels sliding window with fly proof S.S wire mesh (Two nos. glazed & one no. wire mesh panels) made of (big series) frame 116 x 45 mm & sash 46 x 62 mm both having wall thickness of 2.3 ± 0.2 mm and single glazing bead / double glazing bead of appropriate dimension. (Area of window above 1.75 sqm).	Sqm	191.90	9642.60	1850366.73	
6.11	dsr-9.7.7.2	Float glass panes 5.0 mm thick glass panes (weight not less than 12.50 kg/sqm).	Sqm	191.90	2231.20	428156.12	
6.12	9.147	Providing and fixing factory made uPVC white colour fixed glazed windows/ ventilators comprising of uPVC multi-chambered frame and mullion (where ever required) extruded profiles duly reinforced with 1.60 ± 0.2 mm thick galvanized mild steel section made from roll forming process of required length (shape & size according to uPVC profile), uPVC extruded glazing beads of appropriate dimension, EPDM gasket, G.I fasteners 100 x 8 mm size for fixing frame to finished wall, plastic packers, plastic caps and necessary stainless steel screws etc. Profile of frame shall be mitred cut and fusion welded at all corners, mullion (if required) shall be also fusion welded including drilling of holes for fixing hardware's and drainage of water etc. After fixing frame the gap between frame and adjacent finished wall shall be filled with weather proof silicon sealant over backer rod of required size and of approved quality, all complete as per approved drawing & direction of Engineer-in-Charge. (Single / double glass panes and silicon sealant shall be paid separately). Variation in profile dimension in higher side shall be accepted but no extra payment on this account shall be made.					
a)	9.147B.1	Fixed window / ventilator made of (small series) frame 47 x 50 mm & mullion 47 x 68 mm both having wall thickness of 1.9 ± 0.2 mm and single glazing bead of appropriate dimension.	Sqm	14.29	7249.90	103582.95	
		Total of sub-head				3030028.70	

S. No.	Ref. No	Description	Unit	Quantity	DSR 21 Rate	Amount (Rs.)	Remark
7.00	10	STEEL WORK					
7.01	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	1246.00	114.65	142853.90	
7.02	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	56.00	185.20	10371.20	
7.03	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	853.27	157.15	134091.69	
7.04	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	8.60	940.30	8086.58	
		Total of sub-head				295403.37	

S. No.	Ref. No	Description	Unit	Quantity	DSR 21 Rate	Amount (Rs.)	Remark
8.00	11	FLOORING					
8.01	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	543.23	1706.60	927073.59	
8.02	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	79.53	2038.55	162135.75	
8.03	11.31	Extra for pre finished nosing in treads of steps of Kota stone/ sand stone slab.	Metre	153.68	157.35	24181.55	
8.04	11.32	Extra for Kota stone/ sand stone in treads of steps and risers using single length up to 1.05 metre.	Sqm	63.36	36.35	2303.14	
8.05	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	503.18	1063.45	535111.02	
8.06	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	184.00	1416.65	260663.60	
8.07	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	19.00	1466.50	27863.50	
		Total of sub-head				1939332.14	
9.00	13	FINISHING					
9.01	13.4	12 mm cement plaster of mix					
a)	13.4.2	1:6 (1 cement: 6 coarse sand)	Sqm	648.00	294.35	190738.80	
9.02	13.5	15 mm cement plaster on rough side of single or half brick wall of mix:					
a)	13.5.2	1:6 (1 cement: 6 coarse sand)	Sqm	1151.13	339.10	390346.49	
9.03	13.37	White washing with lime to give an even shade :					
a)	13.37.1	New work (three or more coats)	Sqm	1046.92	32.45	33972.48	
9.04	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	647.04	162.55	105176.51	
9.05	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	1151.13	162.35	186885.14	
9.06	13.50	Applying priming coat:					
a)	13.50.1	With ready mixed pink or Grey primer of approved brand and manufacture on wood work (hard and soft wood)	Sqm	319.03	61.45	19604.52	

S. No.	Ref. No	Description	Unit	Quantity	DSR 21 Rate	Amount (Rs.)	Remark
b)	13.50.3	With ready mixed red oxide zinc chromate primer of approved brand and manufacture on steel galvanised iron/ steel works	Sqm	106.16	55.50	5891.92	
9.07	13.61	Painting with synthetic enamel paint of approved brand and manufacture to give an even shade :					
a)	13.61.1	Two or more coats on new work	Sqm	425.19	131.45	55891.57	
		Total of sub-head				988507.43	

S. No.	Ref. No	Description	Unit	Quantity	DSR 21 Rate	Amount (Rs.)	Remark
10.00	22	WATER PROOFING					
10.01	22.3	Providing and laying water proofing treatment to vertical and horizontal surfaces of depressed portions of W.C., kitchen and the like consisting of:					
	(a)	Ist course of applying cement slurry @ 4.4 kg/sqm mixed with water proofing compound conforming to IS 2645 in recommended proportions including rounding off junction of vertical and horizontal surface.					
	(b)	IIInd course of 20 mm cement plaster 1:3 (1 cement : 3 coarse sand) mixed with water proofing compound in recommended proportion including rounding off junction of vertical and horizontal surface.					
	(c)	IIIrd course of applying blown or residual bitumen applied hot at 1.7 kg. per sqm of area.					
	(d)	IVth course of 400 micron thick PVC sheet. (Overlaps at joints of PVC sheet should be 100 mm wide and pasted to each other with bitumen @ 1.7 kg/sqm).	Sqm	71.11	774.25	55056.14	
10.02	22.8	Providing and laying four courses water proofing treatment with bitumen felt over roofs consisting of first and third courses of blown bitumen 85/25 or 90/15 conforming to IS : 702 applied hot @ 1.45 Kg per square metre of area for each course, second course of roofing felt type 3 grade-I (hessian based self finished bitumen felt) and fourth and final course of stone grit 6 mm and down size or pea sized gravel spread at 6 cubic decimeter per square metre, including preparation of surface but excluding grading complete with :					
	22.8.1	Bitumen felt (hessian base) type 3 grade I conforming to IS : 1322	Sqm	178.00	432.10	76913.80	
10.03	22.14	Grading roof for water proofing treatment with					
	22.14.1	Cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20mm nominal size)	Cum	13.35	7510.75	100268.51	
		Total of sub-head				232238.46	

S. No.	Ref. No	Description	Unit	Quantity	DSR 21 Rate	Amount (Rs.)	Remark
11.00		NON SCHEDULE ITEMS					
11.01	MR	Providing and laying cinder filling in sunken floors and other locations with approved quality cinder including watering and light ramming etc. required for proper compaction/completion of the work complete in all respects as per drawings and as directed by the Engineer in Charge.	Cum	14.22	2000.00	28443.60	
11.02	MR	Providing and laying 1st quality ceramic glazed Anti skid floor tiles of size 300x300 mm (thickness to be specified by the manufacturer) conforming to IS:15622 in all colours, shades, sizes as approved over 20 mm thick bed of Cement Mortar 1: 4 (1 cement : 4 Coarse Sand) including pointing the joints with white cement and matching pigment etc complete in all respects as per specifications/drawings and to the entire satisfaction to the Architect.	Sqm	126.07	1100.00	138673.26	
		Total of sub-head				167116.86	

DETAIL ESTIMATE OF PHASE-A WORK AT JNV RAMBAN, JAMMU & KASHMIR

BOYS DORMITORY WITH 4 NO WARDEN RESIDENCE

SUMMARY OF COST (SANITARY WORK)

S. No.	DESCRIPTION	AMOUNT (Rs.)	
1	EARTH WORK	32793.50	
2	ROOFING	43695.85	
3	SANITARY INSTALLATIONS	569145.95	
4	WATER SUPPLY	288773.50	
5	SEWERAGE & DRAINAGE	235315.70	
	Total	1,169,724.50	
6	Total NDSR	43,464.00	

DETAIL ESTIMATE OF PHASE-A WORK AT JNV RAMBAN, JAMMU & KASHMIR

BOYS DORMITORY WITH 4 NO WARDEN RESIDENCE

ABSTRACT OF COST (SANITARY WORKS)

S. No.	Ref. No	Description	Unit	Qty	DSR 21 Rate	Amount (Rs.)
1	2	3	4	5	6.00	7
1.00	2.00	EARTH WORK				
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				
a)	2.8.1	All kinds of soil.	Cum	25.00	286.85	7171.25
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				
	2.10.1	All kinds of soil				
a)	2.10.1.1	Pipes, cables etc, not exceeding 80 mm dia.	Metre	25.00	255.55	6388.75
b)	2.10.1.2	Pipes, cables etc. exceeding 80 mm dia. but not exceeding 300 mm dia	Metre	40.00	417.35	16694
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	10.00	253.95	2539.5
		Total of sub-head				32793.50
2.00	12.00	ROOFING				
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	125.00	319.75	39968.75
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	3.00	119.95	359.85
ii)	12.42.5	Bend 87.5°				
a)	12.42.5.2	110 mm bend	Each	3.00	132.00	396
iii)	12.42.6	Shoe (Plain)				
a)	12.42.6.2	110 mm Shoe	Each	3.00	115.95	347.85
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	309.50	1857
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	16.00	47.90	766.4
		Total of sub-head				43695.85
3.00	17.00	SANITARY INSTALLATIONS				

S. No.	Ref. No	Description	Unit	Qty	DSR 21 Rate	Amount (Rs.)
1	2	3	4	5	6.00	7
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 fixtures complete, including cutting and making good the walls and floors wherever required:				
a)	17.1.1	White Vitreous china Orissa pattern W.C. pan of size 580x440 mm with integral type foot rests	Each	16.00	5781.35	92501.600
3.02	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 :				
a)	17.3.2	W.C. pan with ISI marked black solid plastic seat and lid	Each	8.00	6827.55	54620.400
3.03	17.23	Providing and fixing white vitreous china flat back or wall corner type lipped front urinal basin of 430x260x350 mm and 340x410x265 mm sizes respectively.	Each	4.00	1382.30	5529.20
3.04	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	4.00	2731.45	10925.800
3.05	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 :				
a)	17.10.1	Kitchen sink with drain board				
	17.10.1.1	510x1040 mm bowl depth 250 mm	Each	4.00	6008.45	24033.800
3.06	17.16	Extra for using coloured pedestal type W.C pan (European type) with low level cistern of same colour instead of white vitreous china W.C pan and cistern.	Each	8.00	167.25	1338.000
3.07	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.	Each	4.00	1411.15	5644.600
3.08	17. 34	Providing and fixing toilet paper holder :				
a)	17.34.2	Vitreous china	Each	8.00	463.00	3704.000
3.09	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	90.00	1077.40	96966.000
b)	17.35.2	75mm diameter				
i)	17.35.2.2	Centrifugally cast (spun) iron socketed pipe as per IS: 3989	Metre	65.00	1042.10	67736.500
3.10	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	35.00	308.45	10795.750
b)	17.37.2	For 75 mm dia. pipe	Each	2.00	304.45	608.900
3.11	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				

S. No.	Ref. No	Description	Unit	Qty	DSR 21 Rate	Amount (Rs.)
1	2	3	4	5	6.00	7
i)	17.38.1.2	Sand cast iron S&S as per IS - 3989	Each	18.00	597.60	10756.800
b)	17.38.2	75 mm				
i)	17.38.2.2	Sand cast iron S&S as per IS- 3989	Each	2.00	453.40	906.800
3.12	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	34.00	439.75	14951.500
b)	17.39.2	75 mm				
i)	17.39.2.2	Sand cast iron S&S as per IS - 3989	Each	2.00	298.20	596.40
3.13	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	4.00	439.75	1759.000
b)	17.40.2	75 mm dia				
i)	17.40.2.2	Sand cast iron S&S as per IS - 3989	Each	1.00	405.25	405.250
3.14	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	9.00	731.40	6582.600
b)	17.43.1	75x75x75mm				
i)	17.43.2.2	Sand cast iron S&S as per IS - 3989	Each	1.00	573.80	573.800
3.15	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	16.00	707.30	11316.800
b)	17.44.2	75x75x75mm				
i)	17.44.2.2	Sand cast iron S&S as per IS - 3989	Each	1.00	498.90	498.900
3.16	17. 55	Providing and fixing door piece, insertion rubber washer 3mm thick, bolts & nuts complete :				
a)	17.55.1	100 mm				
i)	17.55.1.2	Sand cast iron S&S as per IS - 3989	Each	10.00	611.00	6110.000
b)	17.55.2	75 mm				
i)	17.55.2.2	Sand cast iron S&S as per IS - 3989	Each	2.00	453.40	906.800
3.17	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	9.00	439.75	3957.750
b)	17.56.2	75 mm				
i)	17.56.2.2	Sand cast iron S&S as per IS - 3989	Each	1.00	311.55	311.550
3.18	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	20.00	439.75	8795.000
b)	17.57.2	75 mm				
i)	17.57.2.2	Sand cast iron S&S as per IS - 3989	Each	1.00	271.45	271.450
3.19	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	25.00	549.65	13741.250
b)	17.58.2	75 mm	Each	20.00	466.40	9328.000
3.20	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	9.00	128.65	1157.850
b)	17.59.2	75 mm	Each	1.00	80.10	80.100
3.21	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 :				
a)	17.60.1	100 mm inlet and 100 mm outlet				
i)	17.60.1.2	Sand Cast Iron S&S as per IS: 1729	Each	16.00	1403.45	22455.200

S. No.	Ref. No	Description	Unit	Qty	DSR 21 Rate	Amount (Rs.)
1	2	3	4	5	6.00	7
3.22	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 and pointing in cement mortar 1:4 (1 cement : 4 coarse sand) :				
a)	17.61.1	100 mm dia	Metre	30.00	615.70	18471.000
3.23	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 :				
b)	17.65.2	75 mm diameter pipe	Metre	10.00	52.90	529.000
3.24	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	8.00	109.70	877.600
3.25	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	4.00	325.10	1300.400
3.26	17.71	Providing and fixing PTMT liquid soap container 109 mm wide, 125 mm high and 112 mm distance from wall of standard shape with bracket of the same materials with snap fittings of approved quality and colour, weighing not less than 105 gms.	Each	4.00	146.30	585.200
3.27	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.				
a)	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.	Each	4.00	600.35	2401.400
3.28	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 :				
a)	17.10.1	Kitchen sink with drain board				
	17.10.1.1	510x1040 mm bowl depth 250 mm	Each	4.00	6008.45	24033.800
3.29	17.16A	Providing and fixing 8mm dia C.P / S.S Jet with flexible tube upto 1 metre long with S.S triangular plate to European type W.C of quality and make as approved by engineer-in-charge.	Each	2.00	299.35	598.70
3.30	18.12	Providing and fixing G.I. pipes complete with G.I. fittings including trenching & refilling.				
		External work				
	18.12.4	32mm dia nominal bore	Metre	30.00	457.70	13731.00
	18.12.5	40mm dia nominal bore	Metre	30.00	558.35	16750.50
		Total of sub-head				569145.95
4.00	18.00	WATER SUPPLY				

S. No.	Ref. No	Description	Unit	Qty	DSR 21 Rate	Amount (Rs.)
1	2	3	4	5	6.00	7
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.				
		Internal work - Exposed on wall				
a)	18.7.2	20 mm nominal outer dia Pipes	Metre	25.00	325.10	8127.50
b)	18.7.3	25 mm nominal outer dia Pipes	Metre	30.00	408.55	12256.50
c)	18.7.4	32 mm nominal outer dia Pipes	Metre	20.00	500.95	10019.00
d)	18.7.5	40 mm nominal outer dia Pipes	Metre	40.00	674.35	26974.00
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	20.00	441.15	8823.00
b)	18.8.2	20 mm nominal outer dia Pipes	Metre	60.00	513.75	30825.00
c)	18.8.3	25 mm nominal outer dia Pipes	Metre	30.00	626.05	18781.50
d)	18.8.4	32 mm nominal outer dia Pipes	Metre	25.00	712.75	17818.75
4.03	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	2.00	757.10	1514.20
4.04	18.16	Providing and fixing brass stop cock of approved quality :				
a)	18.16.1	15 mm nominal bore	Each	2.00	303.85	607.70
b)	18.16.2	20 mm nominal bore	Each	16.00	327.95	5247.20
4.05	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	4.00	532.35	2129.40
b)	18.17.2	32mm nominal bore	Each	4.00	589.90	2359.60
c)	18.17.3	40mm nominal bore	Each	10.00	707.30	7073.00
4.06	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	399.15	798.30
4.07	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	2.00	447.00	894.00
4.08	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	8.00	85.20	681.60
4.09	18.22	Providing and fixing C.P. brass shower rose with 15 or 20 mm inlet :				
a)	18.22.1	100 mm diameter	Each	5.00	166.35	831.75
4.10	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.				
a)	18.48B	Rectangular tank	Per litre	10000.00	9.70	97000.00
4.11	18.49	Providing and fixing C.P. brass bib cock of approved quality conforming to IS:8931 :				

S. No.	Ref. No	Description	Unit	Qty	DSR 21 Rate	Amount (Rs.)
1	2	3	4	5	6.00	7
a)	18.49.1	15 mm nominal bore	Each	15.00	434.20	6513.00
4.12	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	15.00	708.40	10626.00
4.13	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	4.00	594.75	2379.00
4.14	18.53	Providing and fixing C.P. brass angle valve for basin mixer and geyser points of approved quality conforming to IS:8931				
a)	18.53.1	15 mm nominal bore	Each	20.00	500.35	10007.00
4.15	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	25.00	33.20	830.00
4.16	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	15.00	377.10	5656.50
		Total of sub-head				288773.500
5.00	19	SEWORAGE & DRAINAGE				
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	10.00	375.75	3757.50
b)	19.1.2	150 mm diameter	Metre	30.00	591.40	17742.00
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	10.00	895.50	8955.00
b)	19.2.2	150 mm diameter S.W. pipe	Metre	30.00	1095.15	32854.50
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				
a)	19.4.3	180 x 150 mm size P type				
i)	19.4.3.1	With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	Each	13.00	2534.00	32942.00
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) :				

S. No.	Ref. No	Description	Unit	Qty	DSR 21 Rate	Amount (Rs.)
1	2	3	4	5	6.00	7
i)	19.7.1.1	With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	Each	4.00	11687.10	46748.40
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	2.00	8127.45	16254.90
5.06	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 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.	Each	10.00	487.10	4871.00
5.07	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	683.70	1367.40
5.08	19.6	Providing, laying and jointing non pressure NP2 class (light duty)RCC 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 :				
a)	19.6.2	150 mm dia RCC pipe	Metre	10.00	493.10	4931.00
b)	19.6.3	250 mm dia RCC pipe	Metre	80.00	811.15	64892.00
		Total of sub-head				235315.70
6.00		NON SHEDULE ITEMS				
6.01	NS	Providing and fixing concealed single lever bath & overhead shower mixer of hindware make and model No. (F360019CP) respectively or equivalent approved make as approved by Engineer in charge.	Each	2.000	5000.00	10000.00
6.02	NS	Supplying, fixing, testing and commissioning of storage type water heater (Geyser) etc. with Stainless steel body , copper container , automatic thermostatic control electric element, pressure release valve, M.S. nuts and bolts etc. conforming to IS: 2082				
a)		25 Litre Capacity	Each	2.000	13188.00	26376.00
6.03	NS	Providing & fixing Sink Mixer with Swinging Casted Spout (Wall Mounted Jaquar model CON-309 KN)/approved equal with 450mm long copper pipes & brass nuts.	Each	1.00	3522.00	3522.00
6.04	NS	Providing and fixing C.P. brass grab bar(600mm long) fixed with C.P. brass screws including all fittings complete.Jaquar model no. AHS-1507/approve equal.	Each	2.00	1783.00	3566.00
		Total of sub-head				43464.00

DETAIL ESTIMATE OF PHASE-A WORK AT JNV RAMBAN, JAMMU & KASHMIR

BOYS DORMITORY WITH 4 NO WARDEN RESIDENCE

SUMMARY OF COST (ELECTRICAL WORK)

SUB HEAD	PARTICULARS	AMOUNT AS PER	
		SR ITEMS	NS ITEMS
		I	WIRING
II	SUPPLY OF FITTINGS AND FANS	74,790.00	407,913.50
III	BOARDS & DISTRIBUTION BOARDS	106,041.00	-
IV	EARTHING	43,950.00	-
V	STREET LIGHTING ON BUILDING	29,464.00	15,837.90
VI	LIGHTNING CONDUCTOR	18,622.00	-
	TOTAL	937,954.00	432,840.95

DETAIL ESTIMATE OF PHASE-A WORK AT JNV RAMBAN, JAMMU & KASHMIR
BOYS DORMITORY WITH 4 NO WARDEN RESIDENCE
ABSTRACT OF COST (ELECTRICAL WORKS)

SI. No.	DSR-2022	DESCRIPTION	UNIT	QTY.	RATE (AS PER SR)	RATE (AS PER NS)	AMOUNT (SR ITEMS)	AMOUNT (NS ITEMS)
1.00		SUBHEAD - I - WIRING						
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	135.00	1467.00		198045.00	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	204.00	334.00		68136.00	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	177.50	662.00		117505.00	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	11.00	343.00		3773.00	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	11.00	156.00		1716.00	0.00
b)	1.24.4	3 pin 5/6 A socket outlet	Each	25.00	122.00		3050.00	0.00
c)	1.24.6	Telephone socket outlet	Each	2.00	148.00		296.00	0.00
d)	1.24.7	TV antenna socket outlet	Each	6.00	148.00		888.00	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	200.00	327.00		65400.00	0.00
b)	1.7.4	2 X 6 sq. mm + 1 X 6 sq. mm earth wire	Metre	60.00	589.00		35340.00	0.00
c)	1.7.5	2 X 10 sq. mm + 1 X 6 sq. mm earth wire	Metre	50.00	710.00		35500.00	0.00
d)	1.7.8	4 X 4 sq. mm + 2 X 4 sq. mm earth wire	Metre	125.00	677.00		84625.00	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	124.00	47.00		5828.00	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	50.00	256.00		12800.00	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	80.00	298.00		23840.00	0.00
1.10	1.18	Supplying and drawing following pair 0.5 mm dia FRLS PVC insulated annealed copper conductor, unarmored telephone cable in the existing surface/ recessed steel/ PVC conduit as required.						
a)	1.18.2	2 Pair	Metre	40.00	38.00		1520.00	0.00
1.11	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	25.00	128.00		3200.00	

Sl. No.	DSR-2022	DESCRIPTION	UNIT	QTY.	RATE (AS PER SR)	RATE (AS PER NS)	AMOUNT (SR ITEMS)	AMOUNT (NS ITEMS)
b)	1.21.2	25 mm	Metre	25.00	145.00		3625.00	
1.12	M . R	Providing and fixing in position 2mm thick M.S. Telephone junction box of size suitable for fixing of following Krone Tag Block with key lock arrangement. Also provide clamps for fixing tag blocks.						
a)	a)	10 pair Telephone Tag Block with box	Each	1.00		496.55	0.00	496.55
1.13	M . R	Supplying, laying of 10 pair unarmoured PVC insulated copper conductor (ATC) telephone cable in ground/existing pipes/on wall and making connection with telephone main junction box (MDF) including supports and all accessories as required						
a)	a)	10 Pair Cable unarmoured	Metre	50.00		171.86	0.00	8593.00
		TOTAL OF SUBHEAD - 1					665087.00	9089.55
2.00		SUBHEAD - II - SUPPLY & INSTALLATION OF FITTINGS						
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 read						
a)		Mounting rail for TLED lamps 1600 Lumens (TMC 501 P 1xT-LED with Essential LED 18W Tube)	Each	60.00		585.35	0.00	35121.00
b)		Sereno 42 watt 2950 lumens philips SP824 P LED 30S-5000 GR OA	Each	4.00		9366.25	0.00	37465.00
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	4.00		2458.65	0.00	9834.60
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	18.00		1170.80	0.00	21074.40
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	46.00		2868.45	0.00	131948.70
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	4.00		1697.60	0.00	6790.40
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	16.00		1639.10	0.00	26225.60
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	67.00		2081.40	0.00	139453.80
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	67.00	369.00		24723.00	0.00

SI. No.	DSR-2022	DESCRIPTION	UNIT	QTY.	RATE (AS PER SR)	RATE (AS PER NS)	AMOUNT (SR ITEMS)	AMOUNT (NS ITEMS)
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	67.00	339.00		22713.00	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	60.00	206.00		12360.00	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	16.00	450.00		7200.00	0.00
2.12	1.51	Extra for fixing the louvers/ shutters complete with frame for a exhaust fan of all sizes.	Each	16.00	207.00		3312.00	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	36.00	119.00		4284.00	0.00
2.14	1.38	Supplying and fixing call bell/ buzzer suitable for single phase, 230 V, complete as required.	Each	2.00	99.00		198.00	0.00
		TOTAL OF SUBHEAD - II.					74790.00	407913.50
3.00		SUBHEAD - III - DISTRIBUTION BOARD						
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	5.00	4974.00		24870.00	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	5.00	1227.00		6135.00	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	5.00	2872.00		14360.00	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	4.00	435.00		1740.00	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	4.00	2315.00		9260.00	0.00
b)	2.3.4	16 way , Double door	Each	4.00	3141.00		12564.00	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	4.00	2028.00		8112.00	0.00
(b)	2.14.2	40 A	Each	4.00	2642.00		10568.00	0.00

Sl. No.	DSR-2022	DESCRIPTION	UNIT	QTY.	RATE (AS PER SR)	RATE (AS PER NS)	AMOUNT (SR ITEMS)	AMOUNT (NS ITEMS)
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	72.00	256.00		18432.00	0.00
		TOTAL OF SUBHEAD - III.					106041.00	0.00
4.00		<u>SUBHEAD - IV - EARTHING</u>						
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	2.00	6855.00		13710.00	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	20.00	287.00		5740.00	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	350.00	70.00		24500.00	0.00
		TOTAL OF SUBHEAD - IV					43950.00	0.00
5.00		<u>SUBHEAD - V - STREET LIGHTING ON BUILDING</u>						
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. (Philips Cat No. TRC 33 / 236 HPF) (To be fixed directly on wall of building)	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	80.00		98.45	0.00	7876.00
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	30.00	387.00		11610.00	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	10.00	37.00		370.00	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	6.00	55.00		330.00	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	4.00	240.00		960.00	0.00

SI. No.	DSR-2022	DESCRIPTION	UNIT	QTY.	RATE (AS PER SR)	RATE (AS PER NS)	AMOUNT (SR ITEMS)	AMOUNT (NS ITEMS)
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 bakelie connector to terminate incoming & outgoing armoured cable & wiring the light fixture with 3x1.5 sq mm PVC insulated coppwer wire including interconnection ets 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 withcement 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	20.00	662.00		13240.00	0.00
		TOTAL OF SUBHEAD - V.					29464.00	15837.90
6.00	6.00	SUBHEAD - VI - LIGHTNING CONDUCTOR						
6.01	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	2.00	518.00		1036.00	0.00
6.02	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	4.00	113.00		452.00	0.00
6.03	6.9	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 horizontal run)	Rm	60.00	80.00		4800.00	0.00
6.04	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)	Rm	50.00	162.00		8100.00	0.00
6.05	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	4.00	121.00		484.00	0.00
6.06	6.15	Laying copper/ G.I. tape 32 mm X 6 mm from earth electrode directly in ground as required	Rm	50.00	75.00		3750.00	0.00
		TOTAL OF SUBHEAD - VI					18622.00	0.00
		TOTAL (I TO V)					937954.00	432840.95

DETAIL ESTIMATE OF PHASE-A WORK AT JNV RAMBAN, JAMMU & KASHMIR

GIRLS DORMITORY WITH 2 NO WARDEN RESIDENCE

SUMMARY OF COST (CIVIL WORK)

S. No.	Description	Amount (Rs.)	
1	EARTH WORK	179037.71	
2	CONCRETE WORK	121231.58	
3	REINFORCED CEMENT CONCRETE	10475990.72	
4	BRICK WORK	1580565.50	
5	MARBLE WORK	156238.54	
6	WOOD WORK & PVC WORK	2399247.14	
7	STEEL WORK	268540.71	
8	FLOORING	1759350.36	
9	FINISHING	989021.89	
10	WATER PROOFING	232238.46	
	Total for 1 Block	18161462.60	
	Total for 2 Block	36322925.19	
	Non DSR Amount	143618.06	
	Total for 2 Block	287236.11	
	Grand Total	287236.11	

DETAIL ESTIMATE OF PHASE-A WORK AT JNV RAMBAN, JAMMU & KASHMIR

GIRLS DORMITORY WITH 2 NO WARDEN RESIDENCE

ABSTRACT OF COST (CIVIL WORKS)

S. No.	Ref. No	Description	Unit	Quantity	DSR 21 Rate	Amount (Rs.)	Remark
1.0	2	EARTH WORK					
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	407.63	286.85	116927.66	
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	244.58	253.95	62,110.05	
		Total of sub-head				179037.71	
2.0	4	CONCRETE WORK					
2.01	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	17.57	6050.65	106321.87	
2.02	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	1.59	9375.20	14909.71	
		Total of sub-head				121231.58	

S. No.	Ref. No	Description	Unit	Quantity	DSR 21 Rate	Amount (Rs.)	Remark
3.0	5	REINFORCED CEMENT CONCRETE					
3.01	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	85.76	307.95	26409.64	
c)	5.9.6	Columns, Pillars, Piers, Abutments, Posts and Struts	Sqm	610.87	804.25	491293.81	
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	13.83	307.95	4258.64	
e)	5.9.16	Edges of slabs and breaks in floors and walls					
f)	5.9.16.1	Under 20 cms wide	metre	106.75	181.90	19417.83	
g)	5.9.3	Suspended floors, roofs, landings, balconies and access platform.	Sqm	1198.76	766.55	918908.65	
h)	5.9.5	Lintels, beams, plinth beams, girders, bressumers and cantilevers.	Sqm	899.33	608.35	547109.13	
3.02	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	52172.00	89.65	4677219.80	
3.03	5.30	Add for plaster drip course/ groove in plastered surface or moulding to R.C.C. projections.	metre	110.00	64.70	7117.00	
3.04	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	141.31	7997.30	1130132.40	
(ii)	5.33.2	All works above plinth level upto floor V level	Cum	232.65	10080.15	2345175.01	
3.05	5.35	Add for using extra cement in the items of design mix over and above the specified cement content therein.	Quintal	448.76	688.45	308948.82	
		Total of sub-head				10475990.72	

S. No.	Ref. No	Description	Unit	Quantity	DSR 21 Rate	Amount (Rs.)	Remark
4.0	6	BRICK WORK					
4.01	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	6.36	6658.25	42350.07	
4.02	6.47	Providing and laying autoclaved aerated cement blocks masonry with 150mm/230mm/300 mm thick AAC blocks in super structure above plinth level up to floor V level with RCC band at sill level and lintel level with approved block laying polymer modified adhesive mortar all complete as per direction of Engineer-in-Charge. (The payment of RCC band and reinforcement shall be made for seperately).					
a)			Cum	173.68	6994.15	1,214,730.86	
4.03	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	292.88	1018.05	298165.21	
4.04	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	292.88	86.45	25319.37	
		Total of sub-head				1580565.50	

S. No.	Ref. No	Description	Unit	Quantity	DSR 21 Rate	Amount (Rs.)	Remark
5.0	8	MARBLE WORK					
5.01	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	25.92	2639.45	68414.54	
b)	8.2.2	Granite of any colour and shade					
i)	8.2.2.2	Area of slab over 0.50 sqm	sqm	8.10	4425.35	35845.34	
5.02	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	57.60	244.90	14106.24	
b)	8.3.2	Granite work	Metre	13.50	418.85	5654.48	
5.03	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	64.35	475.55	30601.64	
5.04	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	2.00	808.15	1616.30	
		Total of sub-head				156238.54	

S. No.	Ref. No	Description	Unit	Quantity	DSR 21 Rate	Amount (Rs.)	Remark
6.0	9	WOOD WORK & PVC WORK					
6.01	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	96.81	2015.75	195144.76	
6.02	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	96.81	401.40	38859.53	
6.03	9.26	Extra for cutting rebate in flush door shutters (Total area of the shutter to be measured).	Sqm	96.81	93.65	9066.26	
6.04	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	24.36	3140.15	76494.05	
6.05	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	20.00	224.95	4499.00	
6.06	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)	9.96.2	250x16 mm	Each	104.00	234.90	24429.60	
6.07	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)	9.97.3	200x10 mm	Each	104.00	90.80	9443.20	
6.08	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 :					
	9.100.1	125 mm	Each	104.00	60.05	6245.20	
6.09	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	48.00	62.25	2988.00	
6.10	9.147	Providing and fixing factory made uPVC white colour sliding glazed window upto 1.50 m in height dimension comprising of uPVC multi-chambered frame with in-built roller track and sash extruded profiles duly reinforced with 1.60 ± 0.2 mm thick galvanized mild steel section made from roll forming process of required length (shape & size according to uPVC profile), appropriate dimension of uPVC extruded glazing beads and uPVC extruded interlocks, EPDM gasket, wool pile, zinc alloy (white powder coated) touch locks with hook, zinc alloy body with single nylon rollers (weight bearing capacity to be 40 kg), G.I fasteners 100 x 8 mm size for fixing frame to finished wall and necessary stainless steel screws etc. Profile of frame & sash shall be mitred cut and fusion welded at all corners, including drilling of holes for fixing hardware's and drainage of water etc. After fixing frame the gap between frame and adjacent finished wall shall be filled with weather proof silicon sealent over backer rod of required size and of approved quality, all complete as per approved drawing & direction of Engineer-in-Charge. (Single / double glass panes, wire mesh and silicon sealent shall be paid separately). Variation in profile dimension in higher side shall be accepted but no extra payment on this account shall be made.					

S. No.	Ref. No	Description	Unit	Quantity	DSR 21 Rate	Amount (Rs.)	Remark
a)	9.147D.4	Three track three panels sliding window with fly proof S.S wire mesh (Two nos. glazed & one no. wire mesh panels) made of (big series) frame 116 x 45 mm & sash 46 x 62 mm both having wall thickness of 2.3 ± 0.2 mm and single glazing bead / double glazing bead of appropriate dimension. (Area of window above 1.75 sqm).	Sqm	163.52	9642.60	1576709.74	
6.11	dsr-9.7.7.2	Float glass panes 5.0 mm thick glass panes (weight not less than 12.50 kg/sqm).	Sqm	163.52	2231.20	364834.67	
6.12	9.147	Providing and fixing factory made uPVC white colour fixed glazed windows/ ventilators comprising of uPVC multi-chambered frame and mullion (where ever required) extruded profiles duly reinforced with 1.60 ± 0.2 mm thick galvanized mild steel section made from roll forming process of required length (shape & size according to uPVC profile), , uPVC extruded glazing beads of appropriate dimension, EPDM gasket, G.I fasteners 100 x 8 mm size for fixing frame to finished wall, plastic packers, plastic caps and necessary stainless steel screws etc. Profile of frame shall be mitred cut and fusion welded at all corners, mullion (if required) shall be also fusion welded including drilling of holes for fixing hardware's and drainage of water etc. After fixing frame the gap between frame and adjacent finished wall shall be filled with weather proof silicon sealant over backer rod of required size and of approved quality, all complete as per approved drawing & direction of Engineer-in-Charge. (Single / double glass panes and silicon sealant shall be paid separately). Variation in profile dimension in higher side shall be accepted but no extra payment on this account shall be made.					
a)	9.147B.1	Fixed window / ventilator made of (small series) frame 47 x 50 mm & mullion 47 x 68 mm both having wall thickness of 1.9 ± 0.2 mm and single glazing bead of appropriate dimension.	Sqm	12.49	7249.90	90533.13	
		Total of sub-head				2399247.14	

S. No.	Ref. No	Description	Unit	Quantity	DSR 21 Rate	Amount (Rs.)	Remark
7.00	10	STEEL WORK					
7.01	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	1019.90	114.65	116931.54	
7.02	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	56.00	185.20	10371.20	
7.03	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	853.27	157.15	134091.69	
7.04	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	7.60	940.30	7146.28	
		Total of sub-head				268540.71	

S. No.	Ref. No	Description	Unit	Quantity	DSR 21 Rate	Amount (Rs.)	Remark
8.00	11	FLOORING					
8.01	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	524.15	1706.60	894511.66	
8.02	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	77.63	2038.55	158246.19	
8.03	11.31	Extra for pre finished nosing in treads of steps of Kota stone/sand stone slab.	Metre	153.68	157.35	24181.55	
8.04	11.32	Extra for Kota stone/ sand stone in treads of steps and risers using single length up to 1.05 metre.	Sqm	63.36	36.35	2303.14	
8.05	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	503.18	1063.45	535111.02	
8.06	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	92.00	1416.65	130331.80	
8.07	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	10.00	1466.50	14665.00	
		Total of sub-head				1759350.36	
9.00	13	FINISHING					
9.01	13.4	12 mm cement plaster of mix					
a)	13.4.2	1:6 (1 cement: 6 coarse sand)	Sqm	666.00	294.35	196037.10	
9.02	13.5	15 mm cement plaster on rough side of single or half brick wall of mix:					
a)	13.5.2	1:6 (1 cement: 6 coarse sand)	Sqm	1169.92	339.10	396719.62	
9.03	13.37	White washing with lime to give an even shade :					
a)	13.37.1	New work (three or more coats)	Sqm	927.93	32.45	30111.29	
9.04	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	665.84	162.55	108231.52	
9.05	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	1169.92	162.35	189936.39	
9.06	13.50	Applying priming coat:					
a)	13.50.1	With ready mixed pink or Grey primer of approved brand and manufacture on wood work (hard and soft wood)	Sqm	261.58	61.45	16073.85	

S. No.	Ref. No	Description	Unit	Quantity	DSR 21 Rate	Amount (Rs.)	Remark
b)	13.50.3	With ready mixed red oxide zinc chromate primer of approved brand and manufacture on steel galvanised iron/ steel works	Sqm	93.76	55.50	5203.54	
9.07	13.61	Painting with synthetic enamel paint of approved brand and manufacture to give an even shade :					
a)	13.61.1	Two or more coats on new work	Sqm	355.33	131.45	46708.58	
		Total of sub-head				989021.89	

S. No.	Ref. No	Description	Unit	Quantity	DSR 21 Rate	Amount (Rs.)	Remark
10.00	22	WATER PROOFING					
10.01	22.3	Providing and laying water proofing treatment to vertical and horizontal surfaces of depressed portions of W.C., kitchen and the like consisting of:					
	(a)	Ist course of applying cement slurry @ 4.4 kg/sqm mixed with water proofing compound conforming to IS 2645 in recommended proportions including rounding off junction of vertical and horizontal surface.					
	(b)	IIInd course of 20 mm cement plaster 1:3 (1 cement : 3 coarse sand) mixed with water proofing compound in recommended proportion including rounding off junction of vertical and horizontal surface.					
	(c)	IIIrd course of applying blown or residual bitumen applied hot at 1.7 kg. per sqm of area.					
	(d)	IVth course of 400 micron thick PVC sheet. (Overlaps at joints of PVC sheet should be 100 mm wide and pasted to each other with bitumen @ 1.7 kg/sqm).	Sqm	71.11	774.25	55056.14	
10.02	22.8	Providing and laying four courses water proofing treatment with bitumen felt over roofs consisting of first and third courses of blown bitumen 85/25 or 90/15 conforming to IS : 702 applied hot @ 1.45 Kg per square metre of area for each course, second course of roofing felt type 3 grade-I (hessian based self finished bitumen felt) and fourth and final course of stone grit 6 mm and down size or pea sized gravel spread at 6 cubic decimeter per square metre, including preparation of surface but excluding grading complete with :					
	22.8.1	Bitumen felt (hessian base) type 3 grade I conforming to IS : 1322	Sqm	178.00	432.10	76913.80	
10.03	22.14	Grading roof for water proofing treatment with					
	22.14.1	Cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20mm nominal size)	Cum	13.35	7510.75	100268.51	
		Total of sub-head				232238.46	

S. No.	Ref. No	Description	Unit	Quantity	DSR 21 Rate	Amount (Rs.)	Remark
11.00		NON SCHEDULE ITEMS					
11.01	MR	Providing and laying cinder filling in sunken floors and other locations with approved quality cinder including watering and light ramming etc. required for proper compaction/completion of the work complete in all respects as per drawings and as directed by the Engineer in Charge.	Cum	14.22	2000.00	28443.60	
11.02	MR	Providing and laying 1st quality ceramic glazed Anti skid floor tiles of size 300x300 mm (thickness to be specified by the manufacturer) conforming to IS:15622 in all colours, shades, sizes as approved over 20 mm thick bed of Cement Mortar 1: 4 (1 cement : 4 Coarse Sand) including pointing the joints with white cement and matching pigment etc complete in all respects as per specifications/drawings and to the entire satisfaction to the Architect.	Sqm	104.70	1100.00	115174.46	
		Total of sub-head				143618.06	

DETAIL ESTIMATE OF PHASE-A WORK AT JNV RAMBAN, JAMMU & KASHMIR

GIRLS DORMITORY WITH 2 NO WARDEN RESIDENCE

SUMMARY OF COST (SANITARY WORK)

S. No.	DESCRIPTION	AMOUNT (Rs.)	
1	EARTH WORK	32793.50	
2	ROOFING	43695.85	
3	SANITARY INSTALLATIONS	457215.25	
4	WATER SUPPLY	288773.50	
5	SEWERAGE & DRAINAGE	235315.70	
	Total for 1 Block	1,057,793.80	
	Total for 2 Block	2,115,587.60	
6	Total for 1 Block NDSR	43,464.00	
	Total for 2 Block NDSR	86,928.00	
	TOTAL NON DSR ITEMS (B)	86,928.00	

DETAIL ESTIMATE OF PHASE-A WORK AT JNV RAMBAN, JAMMU & KASHMIR

GIRLS DORMITORY WITH 2 NO WARDEN RESIDENCE

ABSTRACT OF COST (SANITARY WORKS)

S. No.	Ref. No	Description	Unit	Qty	DSR 21 Rate	Amount (Rs.)
1	2	3	4	5	6.00	7
1.00	2.00	EARTH WORK				
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				
a)	2.8.1	All kinds of soil.	Cum	25.00	286.85	7171.25
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				
	2.10.1	All kinds of soil				
a)	2.10.1.1	Pipes, cables etc, not exceeding 80 mm dia.	Metre	25.00	255.55	6388.75
b)	2.10.1.2	Pipes, cables etc. exceeding 80 mm dia. but not exceeding 300 mm dia	Metre	40.00	417.35	16694
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	10.00	253.95	2539.5
		Total of sub-head				32793.50
2.00	12.00	ROOFING				
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	125.00	319.75	39968.75
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	3.00	119.95	359.85
ii)	12.42.5	Bend 87.5°				
a)	12.42.5.2	110 mm bend	Each	3.00	132.00	396
iii)	12.42.6	Shoe (Plain)				
a)	12.42.6.2	110 mm Shoe	Each	3.00	115.95	347.85
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	309.50	1857
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	16.00	47.90	766.4
		Total of sub-head				43695.85
3.00	17.00	SANITARY INSTALLATIONS				

S. No.	Ref. No	Description	Unit	Qty	DSR 21 Rate	Amount (Rs.)
1	2	3	4	5	6.00	7
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 fixtures complete, including cutting and making good the walls and floors wherever required:				
a)	17.1.1	White Vitreous china Orissa pattern W.C. pan of size 580x440 mm with integral type foot rests	Each	12.00	5781.35	69376.200
3.02	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 :				
a)	17.3.2	W.C. pan with ISI marked black solid plastic seat and lid	Each	5.00	6827.55	34137.750
3.03	17.23	Providing and fixing white vitreous china flat back or wall corner type lipped front urinal basin of 430x260x350 mm and 340x410x265 mm sizes respectively.	Each	4.00	1382.30	5529.20
3.04	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	2.00	2731.45	5462.900
3.05	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 :				
a)	17.10.1	Kitchen sink with drain board				
	17.10.1.1	510x1040 mm bowl depth 250 mm	Each	2.00	6008.45	12016.900
3.06	17.16	Extra for using coloured pedestal type W.C pan (European type) with low level cistern of same colour instead of white vitreous china W.C pan and cistern.	Each	5.00	167.25	836.250
3.07	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.	Each	2.00	1411.15	2822.300
3.08	17. 34	Providing and fixing toilet paper holder :				
a)	17.34.2	Vitreous china	Each	5.00	463.00	2315.000
3.09	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	70.00	1077.40	75418.000
b)	17.35.2	75mm diameter				
i)	17.35.2.2	Centrifugally cast (spun) iron socketed pipe as per IS: 3989	Metre	65.00	1042.10	67736.500
3.10	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	35.00	308.45	10795.750
b)	17.37.2	For 75 mm dia. pipe	Each	2.00	304.45	608.900
3.11	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				

S. No.	Ref. No	Description	Unit	Qty	DSR 21 Rate	Amount (Rs.)
1	2	3	4	5	6.00	7
i)	17.38.1.2	Sand cast iron S&S as per IS - 3989	Each	18.00	597.60	10756.800
b)	17.38.2	75 mm				
i)	17.38.2.2	Sand cast iron S&S as per IS- 3989	Each	2.00	453.40	906.800
3.12	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	30.00	439.75	13192.500
b)	17.39.2	75 mm				
i)	17.39.2.2	Sand cast iron S&S as per IS - 3989	Each	2.00	298.20	596.40
3.13	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	4.00	439.75	1759.000
b)	17.40.2	75 mm dia				
i)	17.40.2.2	Sand cast iron S&S as per IS - 3989	Each	1.00	405.25	405.250
3.14	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	9.00	731.40	6582.600
b)	17.43.1	75x75x75mm				
i)	17.43.2.2	Sand cast iron S&S as per IS - 3989	Each	1.00	573.80	573.800
3.15	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	12.00	707.30	8487.600
b)	17.44.2	75x75x75mm				
i)	17.44.2.2	Sand cast iron S&S as per IS - 3989	Each	1.00	498.90	498.900
3.16	17. 55	Providing and fixing door piece, insertion rubber washer 3mm thick, bolts & nuts complete :				
a)	17.55.1	100 mm				
i)	17.55.1.2	Sand cast iron S&S as per IS - 3989	Each	10.00	611.00	6110.000
b)	17.55.2	75 mm				
i)	17.55.2.2	Sand cast iron S&S as per IS - 3989	Each	2.00	453.40	906.800
3.17	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	9.00	439.75	3957.750
b)	17.56.2	75 mm				
i)	17.56.2.2	Sand cast iron S&S as per IS - 3989	Each	1.00	311.55	311.550
3.18	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	20.00	439.75	8795.000
b)	17.57.2	75 mm				
i)	17.57.2.2	Sand cast iron S&S as per IS - 3989	Each	1.00	271.45	271.450
3.19	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	25.00	549.65	13741.250
b)	17.58.2	75 mm	Each	20.00	466.40	9328.000
3.20	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	9.00	128.65	1157.850
b)	17.59.2	75 mm	Each	1.00	80.10	80.100
3.21	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 :				
a)	17.60.1	100 mm inlet and 100 mm outlet				
i)	17.60.1.2	Sand Cast Iron S&S as per IS: 1729	Each	12.00	1403.45	16841.400

S. No.	Ref. No	Description	Unit	Qty	DSR 21 Rate	Amount (Rs.)
1	2	3	4	5	6.00	7
3.22	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 and pointing in cement mortar 1:4 (1 cement : 4 coarse sand) :				
a)	17.61.1	100 mm dia	Metre	30.00	615.70	18471.000
3.23	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 :				
b)	17.65.2	75 mm diameter pipe	Metre	10.00	52.90	529.000
3.24	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	6.00	109.70	658.200
3.25	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	2.00	325.10	650.200
3.26	17.71	Providing and fixing PTMT liquid soap container 109 mm wide, 125 mm high and 112 mm distance from wall of standard shape with bracket of the same materials with snap fittings of approved quality and colour, weighing not less than 105 gms.	Each	2.00	146.30	292.600
3.27	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.				
a)	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.	Each	2.00	600.35	1200.700
3.28	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 :				
a)	17.10.1	Kitchen sink with drain board				
	17.10.1.1	510x1040 mm bowl depth 250 mm	Each	2.00	6008.45	12016.900
3.29	17.16A	Providing and fixing 8mm dia C.P / S.S Jet with flexible tube upto 1 metre long with S.S triangular plate to European type W.C of quality and make as approved by engineer-in-charge.	Each	2.00	299.35	598.70
3.30	18.12	Providing and fixing G.I. pipes complete with G.I. fittings including trenching & refilling.				
		External work				
	18.12.4	32mm dia nominal bore	Metre	30.00	457.70	13731.00
	18.12.5	40mm dia nominal bore	Metre	30.00	558.35	16750.50
		Total of sub-head				457215.25
4.00	18.00	WATER SUPPLY				

S. No.	Ref. No	Description	Unit	Qty	DSR 21 Rate	Amount (Rs.)
1	2	3	4	5	6.00	7
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.				
		Internal work - Exposed on wall				
a)	18.7.2	20 mm nominal outer dia Pipes	Metre	25.00	325.10	8127.50
b)	18.7.3	25 mm nominal outer dia Pipes	Metre	30.00	408.55	12256.50
c)	18.7.4	32 mm nominal outer dia Pipes	Metre	20.00	500.95	10019.00
d)	18.7.5	40 mm nominal outer dia Pipes	Metre	40.00	674.35	26974.00
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	20.00	441.15	8823.00
b)	18.8.2	20 mm nominal outer dia Pipes	Metre	60.00	513.75	30825.00
c)	18.8.3	25 mm nominal outer dia Pipes	Metre	30.00	626.05	18781.50
d)	18.8.4	32 mm nominal outer dia Pipes	Metre	25.00	712.75	17818.75
4.03	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	2.00	757.10	1514.20
4.04	18.16	Providing and fixing brass stop cock of approved quality :				
a)	18.16.1	15 mm nominal bore	Each	2.00	303.85	607.70
b)	18.16.2	20 mm nominal bore	Each	16.00	327.95	5247.20
4.05	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	4.00	532.35	2129.40
b)	18.17.2	32mm nominal bore	Each	4.00	589.90	2359.60
c)	18.17.3	40mm nominal bore	Each	10.00	707.30	7073.00
4.06	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	399.15	798.30
4.07	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	2.00	447.00	894.00
4.08	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	8.00	85.20	681.60
4.09	18.22	Providing and fixing C.P. brass shower rose with 15 or 20 mm inlet :				
a)	18.22.1	100 mm diameter	Each	5.00	166.35	831.75
4.10	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.				
a)	18.48B	Rectangular tank	Per litre	10000.00	9.70	97000.00
4.11	18.49	Providing and fixing C.P. brass bib cock of approved quality conforming to IS:8931 :				

S. No.	Ref. No	Description	Unit	Qty	DSR 21 Rate	Amount (Rs.)
1	2	3	4	5	6.00	7
a)	18.49.1	15 mm nominal bore	Each	15.00	434.20	6513.00
4.12	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	15.00	708.40	10626.00
4.13	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	4.00	594.75	2379.00
4.14	18.53	Providing and fixing C.P. brass angle valve for basin mixer and geyser points of approved quality conforming to IS:8931				
a)	18.53.1	15 mm nominal bore	Each	20.00	500.35	10007.00
4.15	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	25.00	33.20	830.00
4.16	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	15.00	377.10	5656.50
		Total of sub-head				288773.500
5.00	19	SEWORAGE & DRAINAGE				
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	10.00	375.75	3757.50
b)	19.1.2	150 mm diameter	Metre	30.00	591.40	17742.00
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	10.00	895.50	8955.00
b)	19.2.2	150 mm diameter S.W. pipe	Metre	30.00	1095.15	32854.50
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				
a)	19.4.3	180 x 150 mm size P type				
i)	19.4.3.1	With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	Each	13.00	2534.00	32942.00
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) :				

S. No.	Ref. No	Description	Unit	Qty	DSR 21 Rate	Amount (Rs.)
1	2	3	4	5	6.00	7
i)	19.7.1.1	With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	Each	4.00	11687.10	46748.40
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	2.00	8127.45	16254.90
5.06	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 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.	Each	10.00	487.10	4871.00
5.07	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	683.70	1367.40
5.08	19.6	Providing, laying and jointing non pressure NP2 class (light duty)RCC 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 :				
a)	19.6.2	150 mm dia RCC pipe	Metre	10.00	493.10	4931.00
b)	19.6.3	250 mm dia RCC pipe	Metre	80.00	811.15	64892.00
		Total of sub-head				235315.70
6.00		NON SHEDULE ITEMS				
6.01	NS	Providing and fixing concealed single lever bath & overhead shower mixer of hindware make and model No. (F360019CP) respectively or equivalent approved make as approved by Engineer in charge.	Each	2.000	5000.00	10000.00
6.02	NS	Supplying, fixing, testing and commissioning of storage type water heater (Geyser) etc. with Stainless steel body , copper container , automatic thermostatic control electric element, pressure release valve, M.S. nuts and bolts etc. conforming to IS: 2082				
a)		25 Litre Capacity	Each	2.000	13188.00	26376.00
6.03	NS	Providing & fixing Sink Mixer with Swinging Casted Spout (Wall Mounted Jaquar model CON-309 KN)/approved equal with 450mm long copper pipes & brass nuts.	Each	1.00	3522.00	3522.00
6.04	NS	Providing and fixing C.P. brass grab bar(600mm long) fixed with C.P. brass screws including all fittings complete.Jaquar model no. AHS-1507/approve equal.	Each	2.00	1783.00	3566.00
		Total of sub-head				43464.00

DETAIL ESTIMATE OF PHASE-A WORK AT JNV RAMBAN, JAMMU & KASHMIR

GIRLS DORMITORY WITH 2 NO WARDEN RESIDENCE

SUMMARY OF COST (ELECTRICAL WORK)

SUB HEAD	PARTICULARS	AMOUNT AS PER	
		SR ITEMS	NS ITEMS
I	WIRING	626,932.00	9,089.55
II	SUPPLY OF FITTINGS AND FANS	68,418.00	389,180.90
III	BOARDS & DISTRIBUTION BOARDS	106,041.00	-
IV	EARTHING	43,950.00	-
V	STREET LIGHTING ON BUILDING	29,464.00	15,837.90
VI	LIGHTNING CONDUCTOR	18,622.00	-
	TOTAL FOR 1 BLOCK	893,427.00	414,108.35
	TOTAL FOR 2 BLOCK	1,786,854.00	828,216.70

DETAIL ESTIMATE OF PHASE-A WORK AT JNV RAMBAN, JAMMU & KASHMIR
GIRLS DORMITORY WITH 2 NO WARDEN RESIDENCE
ABSTRACT OF COST (ELECTRICAL WORKS)

SI. No.	DSR-2022	DESCRIPTION	UNIT	QTY.	RATE (AS PER SR)	RATE (AS PER NS)	AMOUNT (SR ITEMS)	AMOUNT (NS ITEMS)
1.00		SUBHEAD - I - WIRING						
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	114.00	1467.00		167238.00	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	182.00	334.00		60788.00	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	177.50	662.00		117505.00	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	11.00	343.00		3773.00	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	11.00	156.00		1716.00	0.00
b)	1.24.4	3 pin 5/6 A socket outlet	Each	25.00	122.00		3050.00	0.00
c)	1.24.6	Telephone socket outlet	Each	2.00	148.00		296.00	0.00
d)	1.24.7	TV antenna socket outlet	Each	6.00	148.00		888.00	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	200.00	327.00		65400.00	0.00
b)	1.7.4	2 X 6 sq. mm + 1 X 6 sq. mm earth wire	Metre	60.00	589.00		35340.00	0.00
c)	1.7.5	2 X 10 sq. mm + 1 X 6 sq. mm earth wire	Metre	50.00	710.00		35500.00	0.00
d)	1.7.8	4 X 4 sq. mm + 2 X 4 sq. mm earth wire	Metre	125.00	677.00		84625.00	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	124.00	47.00		5828.00	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	50.00	256.00		12800.00	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	80.00	298.00		23840.00	0.00
1.10	1.18	Supplying and drawing following pair 0.5 mm dia FRLS PVC insulated annealed copper conductor, unarmored telephone cable in the existing surface/ recessed steel/ PVC conduit as required.						
a)	1.18.2	2 Pair	Metre	40.00	38.00		1520.00	0.00
1.11	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	25.00	128.00		3200.00	

Sl. No.	DSR-2022	DESCRIPTION	UNIT	QTY.	RATE (AS PER SR)	RATE (AS PER NS)	AMOUNT (SR ITEMS)	AMOUNT (NS ITEMS)
b)	1.21.2	25 mm	Metre	25.00	145.00		3625.00	
1.12	M . R	Providing and fixing in position 2mm thick M.S. Telephone junction box of size suitable for fixing of following Krone Tag Block with key lock arrangement. Also provide clamps for fixing tag blocks.						
a)	a)	10 pair Telephone Tag Block with box	Each	1.00		496.55	0.00	496.55
1.13	M . R	Supplying, laying of 10 pair unarmoured PVC insulated copper conductor (ATC) telephone cable in ground/existing pipes/on wall and making connection with telephone main junction box (MDF) including supports and all accessories as required						
a)	a)	10 Pair Cable unarmoured	Metre	50.00		171.86	0.00	8593.00
		TOTAL OF SUBHEAD - 1					626932.00	9089.55
2.00		SUBHEAD - II - SUPPLY & INSTALLATION OF FITTINGS						
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 read						
a)		Mounting rail for TLED lamps 1600 Lumens (TMC 501 P 1xT-LED with Essential LED 18W Tube)	Each	60.00		585.35	0.00	35121.00
b)		Sereno 42 watt 2950 lumens philips SP824 P LED 30S-5000 GR OA	Each	4.00		9366.25	0.00	37465.00
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	4.00		2458.65	0.00	9834.60
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. (Deacon Cat. No.05AAM)	Each	18.00		1170.80	0.00	21074.40
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	46.00		2868.45	0.00	131948.70
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	4.00		1697.60	0.00	6790.40
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	16.00		1639.10	0.00	26225.60
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	58.00		2081.40	0.00	120721.20
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	58.00	369.00		21402.00	0.00

SI. No.	DSR-2022	DESCRIPTION	UNIT	QTY.	RATE (AS PER SR)	RATE (AS PER NS)	AMOUNT (SR ITEMS)	AMOUNT (NS ITEMS)
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	58.00	339.00		19662.00	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	60.00	206.00		12360.00	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	16.00	450.00		7200.00	0.00
2.12	1.51	Extra for fixing the louvers/ shutters complete with frame for a exhaust fan of all sizes.	Each	16.00	207.00		3312.00	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	36.00	119.00		4284.00	0.00
2.14	1.38	Supplying and fixing call bell/ buzzer suitable for single phase, 230 V, complete as required.	Each	2.00	99.00		198.00	0.00
		TOTAL OF SUBHEAD - II.					68418.00	389180.90
3.00		SUBHEAD - III - DISTRIBUTION BOARD						
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	5.00	4974.00		24870.00	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	5.00	1227.00		6135.00	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	5.00	2872.00		14360.00	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	4.00	435.00		1740.00	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	4.00	2315.00		9260.00	0.00
b)	2.3.4	16 way , Double door	Each	4.00	3141.00		12564.00	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	4.00	2028.00		8112.00	0.00
(b)	2.14.2	40 A	Each	4.00	2642.00		10568.00	0.00

Sl. No.	DSR-2022	DESCRIPTION	UNIT	QTY.	RATE (AS PER SR)	RATE (AS PER NS)	AMOUNT (SR ITEMS)	AMOUNT (NS ITEMS)
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	72.00	256.00		18432.00	0.00
		TOTAL OF SUBHEAD - III.					106041.00	0.00
4.00		SUBHEAD - IV - EARTHING						
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	2.00	6855.00		13710.00	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	20.00	287.00		5740.00	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	350.00	70.00		24500.00	0.00
		TOTAL OF SUBHEAD - IV					43950.00	0.00
5.00		SUBHEAD - V - STREET LIGHTING ON BUILDING						
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. (Philips Cat No. TRC 33 / 236 HPF) (To be fixed directly on wall of building)	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	80.00		98.45	0.00	7876.00
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	30.00	387.00		11610.00	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	10.00	37.00		370.00	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	6.00	55.00		330.00	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	4.00	240.00		960.00	0.00

Sl. No.	DSR-2022	DESCRIPTION	UNIT	QTY.	RATE (AS PER SR)	RATE (AS PER NS)	AMOUNT (SR ITEMS)	AMOUNT (NS ITEMS)
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 ets 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	20.00	662.00		13240.00	0.00
		TOTAL OF SUBHEAD - V.					29464.00	15837.90
6.00	6.00	SUBHEAD - VI - LIGHTNING CONDUCTOR						
6.01	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	2.00	518.00		1036.00	0.00
6.02	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	4.00	113.00		452.00	0.00
6.03	6.9	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 horizontal run)	Rm	60.00	80.00		4800.00	0.00
6.04	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)	Rm	50.00	162.00		8100.00	0.00
6.05	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	4.00	121.00		484.00	0.00
6.06	6.15	Laying copper/ G.I. tape 32 mm X 6 mm from earth electrode directly in ground as required	Rm	50.00	75.00		3750.00	0.00
		TOTAL OF SUBHEAD - VI					18622.00	0.00
		TOTAL (I TO V)					893427.00	414108.35

DETAIL ESTIMATE OF PHASE-A & B WORK AT JNV RAMBAN, JAMMU & KASHMIR								
ABSTRACT OF COST								
[PRINCIPAL RESIDENCE]								
S.N.	DESCRIPTION OF ITEM	DSR 2021	QUANTITY	UNIT	RATES	AMOUNT DSR ITEM	AMOUNT [M.R. ITEM]	Remark
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	86.00	CUM	286.85	24667.67		
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 up to 50 m and lift upto 1.5 m.	2.25	34.40	CUM	253.95	8735.37		
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	3.71	CUM	6050.65	22447.91		
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).							
(I)	Upto plinth level							
	(i) R.C.C. work in Footing	5.33.1	10.41	CUM	7997.30	83272.12		
	(ii) R.C.C. work in Beam	5.33.1	14.16	CUM	7997.30	113241.77		
	(iii) R.C.C. work in Columns	5.33.1	5.70	CUM	7997.30	45584.61		
	(iv) R.C.C. work in Grade Slab	5.33.1	11.76	CUM	7997.30	94048.25		
(II)	Above plinth to floor-V lvl							
	Same as above but R.C.C. work above plinth Lvl.							
	(i) R.C.C. work in Lintel	5.33.2	0.28	CUM	10080.15	2822.44		
	(ii) R.C.C. work in Beam	5.33.2	7.56	CUM	10080.15	76205.93		
	(iii) R.C.C. work in Columns	5.33.2	4.48	CUM	10080.15	45159.07		
	(iv) R.C.C. work in Slab	5.33.2	13.10	CUM	10080.15	132049.97		
5	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	5043.90	KG	89.65	452185.94		
6	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	3050.40	KG	89.65	273468.36		
7	Add for plaster drip course/ groove in plastered surface or moulding to R.C.C. projections.	5.30	12.75	meter	64.70	824.93		
8	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	26.33	SQM	307.95	8106.78		
(b)	Suspended floors, roofs, landings, balconies and access platform.	5.9.3	207.72	SQM	766.55	159227.77		

(c)	Lintels, beams, plinth beams, girders, bressumers and cantilevers.	5.9.5	204.05	SQM	608.35	124133.82		
(d)	Columns, Pillars, Piers, Abutments, Posts and Struts.	5.9.6	113.10	SQM	804.25	90960.68		
9	Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in foundation and plinth in:	6.1						
	Cement mortar 1:6 (1 cement : 6 coarse sand)	6.1.2	2.58	CUM	6658.25	17178.29		
10	Providing and laying autoclaved aerated cement blocks masonry with 150mm/230mm/300 mm thick AAC blocks in super structure above plinth level up to floor V level with RCC band at sill level and lintel level with approved block laying polymer modified adhesive mortar all complete as per direction of Engineer-in-Charge. (The payment of RCC band and reinforcement shall be made for seperately).	6.47						
			22.70	CUM	6994.15	158767.21		
11	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	55.10	Sqm	1018.05	56094.56		
12	Extra for providing and placing in position 2 Nos 6mm dia. M.S. bars at every third course of half brick masonry.	6.15	55.10	SQM	86.45	4763.40		
13	Providing and laying four courses water proofing treatment with bitumen felt over roofs consisting of first and third courses of blown bitumen 85/25 or 90/15 conforming to IS : 702 applied hot @ 1.45 Kg per square metre of area for each course, second course of roofing felt type 3 grade-I (hessian based self finished bitumen felt) and fourth and final course of stone grit 6 mm and down size or pea sized gravel spread at 6 cubic decimeter per square metre, including preparation of surface but excluding grading complete with :	22.8						
	Bitumen felt (hessian base) type 3 grade I conforming to IS : 1322	22.8.1	109.00	SQM	432.10	47098.90		
14	Grading roof for water proofing treatment with	22.14						
	Cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20mm nominal size)	22.14.1	8.18	CUM	7510.75	61437.94		
15	Providing and fixing 35 mm thick factory made laminated veneer lumber door shutter conforming to IS : 14616 and TADS 15:2001 (Part B), including ISI marked M.S. pressed butt hinges bright finished of required size with necessary screws, all complete as per directions of Engineerin- charge and panelling with panels of : 12 mm thick one side Pre-laminated particle board (decorative lamination on one side and other sides balancing lamination) grade -1, medium density flat pressed, three layer particle board FPT - I or graded wood particle board FPT-1 conforming to IS : 3087 bonded with BWP type synthetic resin adhesive as per IS : 848 and pre-laminated conforming to IS : 12823, Grade -1, Type II marked :	9.6.3	12.29	SQM	3070.05	37730.91		
16	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	12.29	SQM	401.40	4933.21		

17	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	123.75	KG	114.65	14187.94		
18	Providing and fixing factory made uPVC white colour fixed glazed windows/ ventilators comprising of uPVC multi-chambered frame and mullion (where ever required) extruded profiles duly reinforced with 1.60 ± 0.2 mm thick galvanized mild steel section made from roll forming process of required length (shape & size according to uPVC profile), uPVC extruded glazing beads of appropriate dimension, EPDM gasket, G.I fasteners 100 x 8 mm size for fixing frame to finished wall, plastic	9.147						
	Fixed window / ventilator made of (small series) frame 47 x 50 mm & mullion 47 x 68 mm both having wall thickness of 1.9 ± 0.2 mm and single glazing bead of appropriate dimension.	9.147B.1	2.09	SQM	7249.90	15170.42		
19	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	1.98	SQM	940.30	1857.09		
20	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 :							
	30 mm thick shutters with ISI marked M.S. pressed butt hinges bright finished of required size Second class teak wood	9.27.2.1.1	2.30	SQM	4489.45	10303.29		
21	Providing and fixing factory made uPVC white colour sliding glazed window upto 1.50 m in height dimension comprising of uPVC multi-chambered frame with in-built roller track and sash extruded profiles duly reinforced with 1.60 ± 0.2 mm thick	9.147						
	Three track three panels sliding window with fly proof S.S wire mesh (Two nos. glazed & one no. wire mesh panels) made of (big series) frame 116 x 45 mm & sash 46 x 62 mm both having wall thickness of 2.3 ± 0.2 mm and single glazing bead / double glazing bead of appropriate dimension. (Area of window above 1.75 sqm).	9.147D.4	14.99	SQM	9642.60	144542.57		
22	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	110.02	SQM	339.10	37307.78		
23	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	299.52	SQM	294.35	88163.42		
24	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	82.05	SQM	1416.65	116236.13		

25	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	8.12	SQM	1466.50	11903.58		
26	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. Area of slab upto 0.50 sqm	8.2.2.1	4.57	SQM	4679.35	21385.57		
27	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.	11.37	12.00	SQM	935.60	11227.20		
28	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	45.40	SQM	1063.45	48277.44		
29	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.							
	Granite work	8.3.2	4.99	RM	418.85	2087.97		
30	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	4.99	RM	475.55	2370.62		
31	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	808.15	808.15		
32	Steel Painting:							
	(a) With ready mixed red oxide zink chromate primer of approved brand and manufacture on steel galvanised iron/steel works.	13.50.3	20.59	SQM	55.50	1142.75		
	(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	20.59	SQM	131.45	2706.56		
33	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	299.52	SQM	162.55	48686.81		

34	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	110.02	SQM	162.35	17861.75		
35	Providing and fixing ISI marked oxidised M.S. single acting spring hinges	9.59						
	150 mm	9.59.1	14.00	NOS	251.70	3523.80		
36	Providing and fixing oxidised M.S. hasp and staple (safety type)	9.67						
	90 mm	9.67.3	14.00	NOS	22.10	309.40		
37	Providing and fixing special quality bright finished brass cupboard or ward robe locks with four levers of approved quality	9.79						
	75 mm	9.79.4	6.00	NOS	333.15	1998.90		
38	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.	9.111						
	50x50 mm (base and height)	9.111.1	20.24	meter	310.40	6282.50		
39	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 :	9.96						
	250x16 mm	9.96.2	16.00	NOS	234.90	3758.40		
40	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 :	9.97						
	200x10 mm	9.97.3	16.00	NOS	90.80	1452.80		
41	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 :	9.100						
	125 mm	9.100.1	16.00	NOS	60.05	960.80		
42	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	16.00	NOS	62.25	996.00		
43	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.	9.20						
	25 mm thick (for cupboard) including ISI marked nickel plated bright finished M.S. Piano hinges IS : 3818 marked with necessary screws	9.20.3	8.95	SQM	2512.35	22485.53		
44	Providing and fixing Pre-laminated flat pressed 3 layer (medium density) particle board or graded wood particle board IS : 3087 marked, with one side decorative and other side balancing lamination Grade I, Type II exterior grade IS : 12823 marked, in shelves with screws and fittings wherever required, edges to be painted with polyurethane primer (fittings to be paid separately).	9.18.1	5.51	SQM	1089.30	6006.35		
45	Float glass panes 5.0 mm thick glass panes (weight not less than 12.50 kg/sqm).	dsr-9.7.7.2	14.990	SQM	2231.20	33445.69		
					TOTAL	2822594.97		
				Say Rs. In Lacs		28.23		

DETAIL ESTIMATE OF PHASE-A WORK AT JNV RAMBAN , JAMMU AND KASHMIR

SUMMARY OF COST FOR INTERNAL PLUMBING & SANITATION WORK (PRINCIPAL RESIDENCE)

S.NO	NAME OF SUB-HEAD	AMOUNT	
		DSR-2021	NON-DSR
1	SANITARY FIXTURES	33587.55	31890.00
2	TOILET REQUISIES	5622.45	9120.00
3	SOIL , WASTE, VENT AND RAIN WATER PIPES AND FITTINGS	1066.40	44970.00
4	WATER SUPPLY PIPES AND FITTINGS	78772.70	5705.00
	Total C/F To Summary	119049.10	91685.00
	say in lacs	1.19	0.92

DETAIL ESTIMATE OF PHASE-A WORK AT JNV RAMBAN , JAMMU AND KASHMIR

BILL OF QUANTITIES FOR PLUMBING WORKS (PRINCIPAL RESIDENCE)

S. No	DSR-2021	DESCRIPTION	UNIT	TOTAL QTY	RATE (in Rs)	AMOUNT (in Rs)
I SUB HEAD (I) :- SANITARY FIXTURES (DSR ITEMS)						
1	17.2	Providing and fixing white vitreous china pedestal type water closet (European type W.C. pan) with seat and lid, 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.				
	17.2.1	W.C. pan with ISI marked white solid plastic seat and lid	each	3.00	5540.55	16621.65
2	17.28	Providing and fixing P.V.C. waste pipe for sink or wash basin including PVC waste fittings complete.				
	17.28.2	Flexible Pipe				
	17.28.2.2	40 mm dia (for sink and urinal)	each	1.00	104.35	104.35
3	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 250 mm	each	1.00	6008.45	6008.45
4	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 required				
	17.7.4	White Vitreous china wash basin size 550x400 mm with single 15 mm C.P. brass pillar tap	each	3.00	2731.45	8194.35
5	17.22A	Providing and fixing CP Brass 32mm size Bottle Trap of bapproved quality & make and as per the direction of Engineerin- charge.	each	3.00	886.25	2658.75
		TOTAL SUB HEAD (I) (DSR'18)				33587.55
SUB HEAD (I) :- SANITARY FIXTURES (NON DSR ITEMS)						
1	MR	Providing & fixing C.P. Brass health faucet for ablution with 1 meter long PVC tube, hand shower, couplings, wall hook and other accessories.	each	3.00	1680.00	5040.00
2	MR	Providing & fixing CP brass Overhead shower with shower arm, Hand Shower 95mm dia Single Lever Concealed Deusch Mixer with Provision for Connection to Overhead Shower and Easy flex Tube with accessories complete I all respect	each	3.00	8400.00	25200.00
3	MR	Providing & fixing C.P. Brass Waste Coupling for PVC waste Pipe.	each	3.00	550.00	1650.00
		TOTAL SUB HEAD (I) (NON-DSR)				31890.00
II SUB HEAD (II) :- TOILET REQUISIES (DSR'18)						
1	17.31	Providing & Fixing 600 X 450 mm bevelled edge mirror of superior glass (of approved quality) complete with 6mm thick hard board ground fixed to wooden cleats with C.P. brass screws and washers complete.	each	3.00	1411.15	4233.45
2	17.34	Providing & fixing toilet paper holder.				
	17.34.2	viterous china	each	3.00	463.00	1389.00
		TOTAL SUB HEAD (II) (DSR'18)				5622.45
SUB HEAD (II) :- TOILET REQUISIES (NON-DSR)						
1	MR	Providing and fixing of C. P. brass towel rail 600 x 20 mm size complete with C.P. brass brackets	each	3.00	1295.00	3885.00
2	MR	Providing and fixing of C. P. brass towel ring complete with C.P. brass brackets	each	3.00	1145.00	3435.00
3	MR	Providing and fixing CP Brass soap dish 109 mm wide, 125 mm high and 112 mm distance from wall of standard shape with bracket and all fittings of the same material of approved quality and colour.	each	3.00	600.00	1800.00
		TOTAL SUB HEAD (II) (NON-DSR)				9120.00
SUB HEAD (III) :- SOIL , WASTE, VENT AND RAIN WATER PIPES AND FITTINGS (NON DSR)						

S. No	DSR-2021	DESCRIPTION	UNIT	TOTAL QTY	RATE (in Rs)	AMOUNT (in Rs)
1		Providing, fixing, jointing and testing in position of ISI marked UV stabilized UPVC pipes for soil, waste, and vent, Type-B as per IS : 13592 suitable for rubber ring joints, including all necessary specials and fittings (confirming to IS:14735) i.e. bends, tees, junctions (with or without doors), reducers, WC connectors, couplers, expansion joints / bellows, cowels, clamps, rubber rings, clean outs etc. fixing at wall/ ceiling/ floor level supported by clamp & hangers etc. in concealed / inside duct / under floor & basement ceiling / external work etc. including chase cutting as required, excavation and back filling in all kind of soils, suspended from floor under false ceiling or embedding the pipes laid under floors / building in 75 mm. around 1:2:4 cement concrete (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) including cost of shuttering for proper completion of the work, breaking and making good the walls and floors etc. after pipes have been duly laid and tested. The rubber ring shall confirm to IS:5382.				
		The Pipes will be supported with threaded G I rods & U clamps with nuts, washers etc on 50x50x5 mm slotted angle. The cost will include all support arrangements. The work includes commissioning of all pipes lines as per drawings and specifications and as directed by engg-in-charge at site.				
	MR	110 mm dia (Wall Thickness - 3.2 to 3.8 mm)	metre	40.00	485.00	19400.00
	MR	75 mm dia (Wall Thickness - 3.2 to 3.8 mm)	metre	10.00	320.00	3200.00
2		Providing, fixing, jointing and testing in position ISI marked (IS:4985) UPVC pipes of min 6 Kg/ Sqcm rating with fitting for waste pipe from fixtures to floor trap including reduces, enlarger, socket, couplers, bends, tees etc including fixing at wall/ ceiling level supported by clamp & hangers etc. cutting holes in wall/ floors/ slabs and making good the same with cement concrete 1:2:4 complete as required.				
	MR	32 mm dia.	metre	10.00	95.00	950.00
3		Providing & fixing UPVC Floor trap of self cleansing design with stainless steel grating complete in all respects.				
	MR	Multi Floor Trap (5" Ht) with height raiser and branch saddle strip of 50/75 mm outlet	each	3.00	365.00	1095.00
	MR	P-Trap type Floor Trap 110 x 75 mm	each	5.00	345.00	1725.00
4	MR	Extra for providing & fixing 125 mm dia C.P. grating in place of C.I. grating over floor traps.	each	5.00	120.00	600.00
6		Providing, fixing, jointing and testing in position of ISI marked UV stabilized UPVC pipes for rain water disposal, Type-B as per IS : 13592 suitable for rubber ring joints, including all necessary specials and fittings (confirming to IS:14735) i.e. bends, tees, junctions (with or without doors), reducers, couplers, expansion joints / bellows, cowels, clamps, rubber rings, MS gratings over pipes of bell mouth construction with epoxy painting etc. fixing at wall/ ceiling/ floor level supported by clamp & hangers etc. in concealed / inside duct / under floor / external work etc. including chase cutting as required, excavation and back filling in all kind of soils, suspended from floor under false ceiling or embedding the pipes laid under floors / building in 75 mm. around 1:2:4 cement concrete (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) including cost of shuttering for proper completion of the work, breaking and making good the walls and floors etc. after pipes have been duly laid and tested. The rubber ring shall confirm to IS:5382.				
		The Pipes will be supported with threaded G I rods & clamps on 50x50x5 mm slotted angle. The cost will include all support arrangements. The work includes commissioning of all pipes lines as per drawings and specifications and as directed by engg-in-charge at site.				
	MR	110 mm dia	metre	40.00	450.00	18000.00
		TOTAL SUB HEAD (III) (NON-DSR)				44970.00
		SUB HEAD (III) :- SOIL , WASTE, VENT AND RAIN WATER PIPES AND FITTINGS (NON DSR)				
1	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	4.00	266.60	1066.40
		TOTAL SUB HEAD (III) (DSR-18)				1066.40

S. No	DSR-2021	DESCRIPTION	UNIT	TOTAL QTY	RATE (in Rs)	AMOUNT (in Rs)
IV	SUB HEAD (IV) :- WATER SUPPLY PIPES AND FITTINGS (DSR)					
1	18.21	Providing & fixing 15 mm nominal bore 45 cm long unplasticised PVC connection pipe with brass unions.				
	18.21.2	45 cm length				
	18.21.2.1	15 mm nominal bore	each	10.00	85.20	852.00
2	18.49	Providing and fixing C.P brass bib cock of approved quality conforming to IS standards IS: 8931.				
	18.49.1	15 mm nominal bore	each	3.00	434.20	1302.60
3	18.50	Providing and fixing C.P brass long nose bib cock of approved quality conforming to IS standards and weighing not less than 810 gms.				
	18.50.1	15 mm nominal bore	each	1.00	715.05	715.05
4	18.53	Providing & fixing 15 mm nominal bore C.P brass Angle valve for basin mixer and geyser points of approved quality conforming to IS 8931.				
	18.53.1	15 mm nominal bore	each	10.00	500.35	5003.50
5	18.32	Constructing brick masonry chamber 300 x 300 x 500 mm, inside with F.P.S. brick work in cement mortar 1: 4 (1 cement : 4 coarse sand) for Stop Cock , with C. I. surface box 100 x 100 x 75 mm (inside) with hinged cover fixed in cement concrete slab 1:2:4mix (1cement : 2 coarse sand:4 grade stone aggregate 20mm nominal size); necessary excavation, foundation concrete 1:5:10 (1 cement :5 fine sand: 10 graded stone aggregate 40mm nominal size) and inside plastering with cement mortar 1 : 3 (1 cement : 3 coarse sand) 12 mm thick finished with a floating coat of neat cement complete as per standard design				
	18.32.1	With common burnt clay F.P.S.(non modular) bricks of class designation 7.5	each	1.00	1712.15	1712.15
6	18.46	Providing & Fixing G.I. Unoun in G.I. pipe including cutting and threading the pipe & making long screws etc. complete.				
	18.46.1	15mm dia nominal bore	each	1.00	262.30	262.30
	18.46.2	20mm dia nominal bore	each	3.00	289.05	867.15
	18.46.3	25mm dia nominal bore	each	2.00	369.35	738.70
	18.46.4	32mm dia nominal bore	each	4.00	409.45	1637.80
	18.46.5	40mm dia nominal bore	each	3.00	706.70	2120.10
7	18.76	Cutting holes up to 30 X 30 cm in walls including making good the same:				
	18.76.1	With common burnt clay F.P.S. (non modular) bricks	each	8.00	362.40	2899.20
8	18.7	Providing, fixing chlorinated polyvinyl Chloride (CPVC) pipes CTS-SDR 11, class-1 CPVC Pipes (pressure rating 28 kg/cm ² at 23oC and 7 kg/cm ² at 82oC) confirming to IS : 15778-2007, ASTM D-2846, having thermal stability for hot and cold water supply including all CPVC plain and brass threaded fittings including fixing the pipes 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.				
	Internal work exposed on wall					
	18.7.2	20mm nominal outer dia pipes	metre	30.00	325.10	9753.00
	18.7.3	25mm nominal outer dia pipes	metre	30.00	408.55	12256.50
	18.7.4	32mm nominal outer dia pipes	metre	8.00	500.95	4007.60
	18.7.5	40mm nominal outer dia pipes	metre	8.00	674.35	5394.80
9	18.8	Providing, fixing chlorinated polyvinyl Chloride (CPVC) pipes CTS-SDR 11, class-1 CPVC Pipes (pressure rating 28 kg/cm ² at 23oC and 7 kg/cm ² at 82oC) confirming to IS : 15778-2007, ASTM D-2846, having thermal stability for hot and cold water supply including all CPVC plain and brass threaded fittings including fixing the pipes 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 chase and making good the wall etc.					
	18.8.1	15mm nominal outer dia pipes	metre	35.00	441.15	15440.25
	18.8.2	20mm nominal outer dia pipes	metre	8.00	513.75	4110.00
10	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.				
	18.48B	Circular tank	Per Ltr	1000.00	9.70	9700.00

S. No	DSR-2021	DESCRIPTION	UNIT	TOTAL QTY	RATE (in Rs)	AMOUNT (in Rs)
		TOTAL SUB HEAD (IV) (DSR'18)				78772.70
		SUB HEAD (IV) :- WATER SUPPLY PIPES AND FITTINGS (NON-DSR)				
1		Providing & fixing of hand lever operated forged brass body full way ball valve type isolating valve having forged brass hard chrome plated mirror finish ball, steel handle with PVC grip, teflon seat, screwed ends tested to a pressure of 15 kg/sqcm complete.				
	MR	15 mm nominal bore	each	1.00	470.00	470.00
	MR	20 mm nominal bore	each	1.00	600.00	600.00
	MR	25 mm nominal dia	each	1.00	825.00	825.00
	MR	40 mm nominal bore	each	1.00	1950.00	1950.00
2		Providing & fixing brass ball float valve with bronze floats of approved quality complete.				
	MR	20 mm nominal dia	each	1.00	1060.00	1060.00
3		Providing & fixing of medium class G.I.spout up to 300 mm. length including cutting and making good the walls and floors etc. as required.				
	MR	a) 25 mm dia	each	10.00	80.00	800.00
		TOTAL SUB HEAD (IV) (NON-DSR)				5705.00

DETAIL ESTIMATE OF PHASE-A WORK AT JNV RAMBAN , JAMMU AND KASHMIR

SUMMARY OF COST FOR ELECTRICAL WORKS (PRINCIPAL RESIDENCE)

S. No	DESCRIPTION	AMOUNT	
		DSR-2022	NON-DSR
I	INTERNAL WIRING	172011.00	
II	DISTRIBUTION BOARDS & MCB's	24464.00	3430.00
III	TELEPHONE, TELEVISION & DATA SYSTEM	24631.00	
IV	MISCELLANEOUS	1862.40	
V	INTERNAL LIGHTING FIXTURES & FANS	6512.00	49840.00
VI	LIGHTNING CONDUCTOR	10612.00	
	Total C/F To Summary	240092.40	53270.00
	SAY IN LACS	2.40	0.53

DETAIL ESTIMATE OF PHASE-A WORK AT JNV RAMBAN , JAMMU AND KASHMIR

BILL OF QUANTITIES FOR ELECTRICAL WORKS (PRINCIPAL RESIDENCE)						
S.No	DSR-2022	DESCRIPTION	UNIT	Quantity	RATE (in Rs)	AMOUNT (in Rs)
I		SUB HEAD (I) :- INTERNAL WIRING				
1		Point wiring in PVC conduit, with modular type switch :-				
	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.				
	1.10.2	Group B	Point	30.00	1182.00	35460.00
	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.				
	1.55.2	Group B	Point	4.00	753.00	3012.00
2		Twin Control Point wiring in PVC conduit, with modular type switch :-				
	1.11	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	1562.00	1562.00
3		Power plug wiring in PVC conduit (2 x 4 Sq.Mm.) :-				
	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	150.00	334.00	50100.00
4		Circuit / Sub main wiring in PVC conduit :-				
	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.				
	1.14.1	2 X 1.5 sq. mm + 1 X 1.5 sq. mm earth wire.	M	15.00	233.00	3495.00
	1.14.2	2 X 2.5 sq. mm + 1 X 2.5 sq. mm earth wire.	M	150.00	275.00	41250.00
	1.14.4	2 x 6 sq.mm. + 1 x 6 sq.mm. Earth wire	M	30.00	439.00	13170.00
	1.14.5	2 x 10 sq.mm. + 1 x 6 sq.mm. Earth wire	M	20.00	570.00	11400.00
	1.14.10	4 x 10 sq.mm. + 2 x 6 sq.mm. Earth wire	M	1.00	1005.00	1005.00
6		S/F light plug point Modular type accessories :-				
	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	5.00	477.00	2385.00
7		S/F power plug point modular type accessories :-				
	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	6.00	586.00	3516.00
8	2.18	Supplying and fixing 20 amps , 240 volts, SPN, industrial type socket outlet, with 2 poles and earth metal enclosed plug top along with 20 amps. "C" curve, SP MCB 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	3242
9		S/F modular type electronic fan regulator :-				

	1.25	Supply 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	6.00	369.00	2214
10		S/F modular type blanking plate :-				
	1.26	Supply and fixing modular blanking plate on the existing modular plate & switch box excluding modular plate as required.	Each	5.00	40.00	200.00
		TOTAL SUB HEAD (I)				172011.00
II		SUB HEAD (II) :- DISTRIBUTION BOARDS & MCB's				
1	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)				
	2.3.2	8 way , Double door	Each	1.00	2573.00	2573.00
2	2.4	Supplying and fixing following way, horizontal type TP&N, 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 / Isolators).				
	2.4.3	8 way (4 + 24), Double door	Each	1.00	5967.00	5967.00
4	2.14	Supplying and fixing following rating, double pole , (single phase and neutral), 240 volts, residual current circuit breaker (RCCB) , having a sensitivity current upto 30 mA in the existing MCB DB complete with connections, testing and commissioning etc. as required.				
	2.14.3	63 amps.	Each	3.00	2722.00	8166.00
5	2.10	Supplying and fixing 5 amps. to 32 amps. rating, 240 volts 'C' series, miniature circuit breaker (MCB) 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	30.00	256.00	7680.00
6	2.11	Supplying & fixing single pole, blanking plate in the existing MCB DB complete etc. as required.	Each	6.00	13.00	78.00
		TOTAL SUB HEAD (II)				24464.00
3		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	63 amps FP MCB	Each	1.00	1710.00	1710.00
	NDSR	40 amps DP MCB	Each	2.00	860.00	1720.00
		TOTAL SUB HEAD (II)				3430.00
III		SUB HEAD (III) :- TELEPHONE, TELEVISION & DATA SYSTEM				
1		S/F MODULAR BOXES, BASE & COVER PLATE :-				
	1.27	Supplying and fixing following size / modules, GI box along with modular base & cover plate for modular switches in recess etc as required				
	1.27.1	1 or 2 Module (75 mm x 75 mm)	Each	6.00	298.00	1788.00
2		S/F MODULAR TYPE SWITCH / SOCKET :-				
	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				
	1.24.6	Telephone Socket outlet	Each	3.00	148.00	444.00
	1.24.7	TV Antenna socket outlet	Each	3.00	148.00	444.00
3	1.21	Supply 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 :				

	1.21.1	20 mm.	M	110.00	128.00	14080.00
	1.21.2	25 mm.	M	25.00	145.00	3625.00
4	1.18	Supply and drawing following pair, 0.5 sq.mm. FRLS PVC insulated annealed copper conductor, unarmoured telephone cable in the existing surface / recessed steel/ PVC conduit as required.				
	1.18.2	2 Pair	M	50.00	38.00	1900.00
5	1.19	Supply 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.	M	50.00	47.00	2350.00
		TOTAL SUB HEAD (III)				24631.00
IV		SUB HEAD (IV) :- MISCELLANEOUS				
1	2.21	Providing and fixing M.V. danger notice plate 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 call bell/buzzer suitable for single phase, 230 volts, complete as required.	NOS	3.00	99.00	297.00
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	7.00	185.20	1296.40
		TOTAL SUB HEAD (IV)				1862.40
V		SUB HEAD(V):-INTERNAL LIGHTING FIXTURES & FANS				
		SUPPLY OF LIGHTING FIXTURES				
1	NDSR	Supply of 15W SURFACE MOUNTED LED with all accessories as per standard item..(Such as Panasonic ADL04R156 or Equivalent).	Each	2.00	1840.00	3680.00
2	NDSR	Supply of 15W WALL BRACKET LED BULB with all accessories as per standard item..(Such as Panasonic PBUM01157 or Equivalent).	Each	4.00	270.00	1080.00
3	NDSR	Supply of 20W SURFACE MOUNTED LED with all accessories as per standard item..(Such as Panasonic ADL04R206 or Equivalent).	Each	10.00	550.00	5500.00
4	NDSR	Supply of 20W SURFACE MOUNTED LED TUBE with all accessories as per standard item..(Such as Panasonic PBTM01207 or Equivalent).	Each	3.00	2300.00	6900.00
		SUPPLY OF CEILING & EXHAUST FANS				
5	NDSR	Supply of AC 230/250 volts, 50 HZ ceiling fan 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).	Nos	8.00	2470.00	19760.00
6	NDSR	Supply of AC 230/250 volts, 50 HZ exhaust fans including providing nuts, bolts, mounting FRLSame and other accessories etc. Complete as required (Such as Ventil Air - DX White or Equivalent).	Nos	4.00	3230.00	12920.00
		TOTAL SUB HEAD (V)				49840.00
		ERECTION OF LIGHTING FIXTURES AND FANS				
1	1.41	Installation, testing and commissioning of pre-wired, flourescent fitting / compact flourescent 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	13.00	206.00	2678.00

2	1.45	Installation, testing and commissioning of ceiling fan 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	6.00	339.00	2034.00
3	1.50	Installation of exhaust fan in the existing opening, including making good the damage, connection, testing, commissioning etc. as required				
	1.50.1	Upto 450 mm sweep	Each	4.00	450.00	1800.00
		TOTAL SUB HEAD (V)				6512.00
		SUB HEAD(VI):-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	2.00	518.00	1036.00
2	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	4.00	113.00	452.00
3	6.9	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 horizontal run)	Rm	30.00	80.00	2400.00
4	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)	Rm	20.00	162.00	3240.00
5	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	4.00	121.00	484.00
6	6.15	Laying copper/ G.I. tape 32 mm X 6 mm from earth electrode directly in ground as required	Rm	40.00	75.00	3000.00
		TOTAL SUB HEAD (VI)				10612.00

DETAIL ESTIMATE OF PHASE-A WORK AT JNV RAMBAN , JAMMU AND KASHMIR

(G+2)

SUMMARY OF CIVIL WORK STAFF QUARTERS TYPE II

S. No.	Description	Amount (Rs.)
1	EARTH WORK	85361.05
2	CONCRETE WORK	48981.24
3	REINFORCED CEMENT CONCRETE	4650125.29
4	BRICK WORK	840053.21
5	MARBLE WORK	77949.44
6	WOOD WORK & PVC WORK	1026108.30
7	STEEL WORK	151529.83
8	FLOORING	641167.55
9	ROOFING	1066.40
10	FINISHING	787931.06
11	WATER PROOFING	135910.97
	Total for (6 Nos quarters)	8446184.33
	Total for (13 Nos quarters)	18300066.06
	Non DSR Amount	48121.45
	Total (6 Nos)	48121.45
	Total (13 Nos)	104263.14

DETAIL ESTIMATE OF PHASE-A WORK AT JNV RAMBAN , JAMMU AND KASHMIR

COST ESTIMATE OF STAFF QUARTERS TYPE II

S. No.	Ref. No	Description	Unit	Quantity	DSR 21 Rate	Amount (Rs.)
1	2	3	4	5	6	7
1	2	EARTH WORK				
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	194.00	286.85	55648.90
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	117.00	253.95	29712.15
		Total of sub-head				85361.05
2	4	CONCRETE WORK				
2.01	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	7.23	6050.65	43737.12
2.02	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	0.56	9375.20	5244.11
		Total of sub-head				48981.24
3	5	REINFORCED CEMENT CONCRETE				
3.01	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	57.87	307.95	17821.07
c)	5.9.6	Columns, Pillars, Piers, Abutments, Posts and Struts	Sqm	376.20	804.25	302558.85
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	4.86	307.95	1497.87
e)	5.9.16	Edges of slabs and breaks in floors and walls				
f)	5.9.16.1	Under 20 cms wide	metre	134.20	181.90	24410.98
g)	5.9.3	Suspended floors, roofs, landings, balconies and access platform.	Sqm	415.33	766.55	318374.97
h)	5.9.5	Lintels, beams, plinth beams, girders, bressumers and cantilevers.	Sqm	433.41	608.35	263665.29
3.02	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	3.30	1580.90	5216.97
3.03	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	24539.00	89.65	2199921.35
3.04	5.3	Add for plaster drip course/ groove in plastered surface or moulding to R.C.C. projections.	metre	26.70	64.70	1727.49

S. No.	Ref. No	Description	Unit	Quantity	DSR 21 Rate	Amount (Rs.)
3.05	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	73.01	7997.30	583891.28
(ii)	5.33.2	All works above plinth level upto floor V level	Cum	92.36	10080.15	931039.17
		Total of sub-head				4650125.29
4	6	BRICK WORK				
4.01	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	0.59	6658.25	3943.35
4.02	6.47	Providing and laying autoclaved aerated cement blocks masonry with 150mm/230mm/300 mm thick AAC blocks in super structure above plinth level up to floor V level with RCC band at sill level and lintel level with approved block laying polymer modified adhesive mortar all complete as per direction of Engineer-in-Charge. (The payment of RCC band and reinforcement shall be made for separately).				
a)			Cum	83.30	6994.15	582628.50
4.03	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	229.50	1018.05	233641.19
4.04	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	229.50	86.45	19840.17
		Total of sub-head				840053.21
5	8	MARBLE WORK				
5.01	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)	8.2.2	Granite of any colour and shade				
(i)	8.2.2.2	Area of slab over 0.50 sqm	Sqm	13.18	4425.35	58308.41
5.02	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)	8.3.2	Granite work	Metre	21.96	418.85	9197.95
5.03	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	21.96	475.55	10443.08
		Total of sub-head				77949.44
6	9	WOOD WORK & PVC WORK				
6.01	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	0.15	131576.95	20083.91

S. No.	Ref. No	Description	Unit	Quantity	DSR 21 Rate	Amount (Rs.)
6.02	9.2	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	12.60	2512.35	31655.61
6.03	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	70.35	2015.75	141808.01
6.04	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	12.60	401.40	5057.64
6.05	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	28.77	3140.15	90342.12
6.06	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)	9.96.2	250x16 mm	Each	36.00	234.90	8456.40
6.07	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)	9.97.3	200x10 mm	Each	72.00	90.80	6537.60
6.08	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	24.00	62.25	1494.00
6.09	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 1st 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	18.36	1668.30	30629.99
6.10	9.147	Providing and fixing factory made uPVC white colour sliding glazed window upto 1.50 m in height dimension comprising of uPVC multi-chambered frame with in-built roller track and sash extruded profiles duly reinforced with 1.60 ± 0.2 mm thick galvanized mild steel section made from roll forming process of required length (shape & size according to uPVC profile), appropriate dimension of uPVC extruded glazing beads and uPVC extruded interlocks, EPDM gasket, wool pile, zinc alloy (white powder coated) touch locks with hook, zinc alloy body with single nylon rollers (weight bearing capacity to be 40 kg), G.I fasteners 100 x 8 mm size for fixing frame to finished wall and necessary stainless steel screws etc. Profile of frame & sash shall be mitred cut and fusion welded at all corners, including drilling of holes for fixing hardware's and drainage of water etc. After fixing frame the gap between frame and adjacent finished wall shall be filled with weather proof silicon sealent over backer rod of required size and of approved quality, all complete as per approved drawing & direction of Engineer-in-Charge. (Single / double glass panes, wire mesh and silicon sealent shall be paid separately). Variation in profile dimension in higher side shall be accepted but no extra payment on this account shall be made.				

S. No.	Ref. No	Description	Unit	Quantity	DSR 21 Rate	Amount (Rs.)
a)	9.147D.4	Three track three panels sliding window with fly proof S.S wire mesh (Two nos. glazed & one no. wire mesh panels) made of (big series) frame 116 x 45 mm & sash 46 x 62 mm both having wall thickness of 2.3 ± 0.2 mm and single glazing bead / double glazing bead of appropriate dimension. (Area of window above 1.75 sqm).	Sqm	51.52	9642.60	496791.57
6.11	dsr-9.7.7.2	Float glass panes 5.0 mm thick glass panes (weight not less than 12.50 kg/sqm).	Sqm	51.52	2231.20	114952.54
6.12	9.147	Providing and fixing factory made uPVC white colour fixed glazed windows/ ventilators comprising of uPVC multi-chambered frame and mullion (where ever required) extruded profiles duly reinforced with 1.60 ± 0.2 mm thick galvanized mild steel section made from roll forming process of required length (shape & size according to uPVC profile), , uPVC extruded glazing beads of appropriate dimension, EPDM gasket, G.I fasteners 100 x 8 mm size for fixing frame to finished wall, plastic packers, plastic caps and necessary stainless steel screws etc. Profile of frame shall be mitred cut and fusion welded at all corners, mullion (if required) shall be also fusion welded including drilling of holes for fixing hardware's and drainage of water etc. After fixing frame the gap between frame and adjacent finished wall shall be filled with weather proof silicon sealant over backer rod of required size and of approved quality, all complete as per approved drawing & direction of Engineer-in-Charge. (Single / double glass panes and silicon sealant shall be paid separately). Variation in profile dimension in higher side shall be accepted but no extra payment on this account shall be made.				
a)	9.147B.1	Fixed window / ventilator made of (small series) frame 47 x 50 mm & mullion 47 x 68 mm both having wall thickness of 1.9 ± 0.2 mm and single glazing bead of appropriate dimension.	Sqm	10.80	7249.90	78298.92
		Total of sub-head				1026108.30
7	10	STEEL WORK				
7.01	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	725.72	114.65	83203.43
7.02	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	10.00	185.20	1852.00
7.03	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	121.00	157.15	19015.15
7.04	10.3	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	50.47	940.30	47459.24
		Total of sub-head				151529.83
8	11	FLOORING				
8.01	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	11.00	1706.60	18772.60

S. No.	Ref. No	Description	Unit	Quantity	DSR 21 Rate	Amount (Rs.)
8.02	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	40.43	2038.55	82412.46
8.03	11.31	Extra for pre finished nosing in treads of steps of Kota stone/ sand stone slab.	Metre	70.13	157.35	11034.96
8.04	11.32	Extra for Kota stone/ sand stone in treads of steps and risers using single length up to 1.05 metre.	Sqm	40.43	36.35	1469.52
8.05	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	172.89	1063.45	183859.87
8.06	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.				
	11.41.2	Size of Tile 600x600 mm	Sqm	220.97	1416.65	313031.98
8.07	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.				
	11.46.1	Size of Tile 400x400 mm	Sqm	22.10	1384.20	30586.16
		Total of sub-head				641167.55
9	12	ROOFING				
9.01	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	4.00	266.60	1066.40
		Total of sub-head				1066.40
10	13	FINISHING				
10.01	13.4	12 mm cement plaster of mix				
a)	13.4.2	1:6 (1 cement: 6 coarse sand)	Sqm	540.98	294.35	159237.02
10.02	13.5	15 mm cement plaster on rough side of single or half brick wall of mix:				
a)	13.5.2	1:6 (1 cement: 6 coarse sand)	Sqm	894.58	339.10	303352.30
10.03	13.37	White washing with lime to give an even shade :				
a)	13.37.1	New work (three or more coats)	Sqm	466.56	32.45	15139.85
10.04	13.41	Distemping 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	901.63	162.55	146560.09
10.05	13.47	Finishing walls with Premium Acrylic Smooth exterior paint withSilicone 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	533.93	162.35	86683.26
10.06	13.5	Applying priming coat:				
a)	13.50.1	With ready mixed pink or Grey primer of approved brand and manufacture on wood work (hard and soft wood)	Sqm	289.57	61.45	17794.32
b)	13.50.3	With ready mixed red oxide zinc chromate primer of approved brand and manufacture on steel galvanised iron/ steel works	Sqm	112.86	55.50	6263.89

S. No.	Ref. No	Description	Unit	Quantity	DSR 21 Rate	Amount (Rs.)
10.07	13.61	Painting with synthetic enamel paint of approved brand and manufacture to give an even shade :				
a)	13.61.1	Two or more coats on new work	Sqm	402.44	131.45	52900.33
		Total of sub-head				787931.06
11	22	WATER PROOFING				
11.01	22.8	Providing and laying four courses water proofing treatment with bitumen felt over roofs consisting of first and third courses of blown bitumen 85/25 or 90/15 conforming to IS : 702 applied hot @ 1.45 Kg per square metre of area for each course, second course of roofing felt type 3 grade-I (hessian based self finished bitumen felt) and fourth and final course of stone grit 6 mm and down size or pea sized gravel spread at 6 cubic decimeter per square metre, including preparation of surface but excluding grading complete with :				
a)	22.8.1	Bitumen felt (hessian base) type 3 grade I conforming to IS : 1322	Sqm	110.53	432.10	47760.07
11.02	22.14	Grading roof for water proofing treatment with				
	22.14.1	Cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20mm nominal size)	Cum	8.29	7510.75	62262.31
11.03	22.3	Providing and laying water proofing treatment to vertical and horizontal surfaces of depressed portions of W.C., kitchen and the like consisting of:				
	(i)	Ist course of applying cement slurry @ 4.4 kg/sqm mixed with water proofing compound conforming to IS 2645 in recommended proportions including rounding off junction of vertical and horizontal surface.				
	(ii)	IIInd course of 20 mm cement plaster 1:3 (1 cement : 3 coarse sand) mixed with water proofing compound in recommended proportion including rounding off junction of vertical and horizontal surface.				
	(iii)	IIIrd course of applying blown or residual bitumen applied hot at 1.7 kg. per sqm of area.				
	(iv)	IVth course of 400 micron thick PVC sheet. (Overlaps at joints of PVC sheet should be 100 mm wide and pasted to each other with bitumen @ 1.7 kg/ sqm).	Sqm	33.44	774.25	25888.60
		Total of sub-head				135910.97
12		NON SCHEDULE ITEMS				
12.01	MR	Providing and laying cinder filling in sunken floors and other locations with approved quality cinder including watering and light ramming etc. required for proper compaction/completion of the work complete in all respects as per drawings and as directed by the Engineer in Charge.	Cum	4.68	2000.00	9356.50
12.02	MR	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)		150 mm	Each	72.00	75.00	5400.00
12.03	MR	Providing and fixing aluminium door buffer of approved make, design and colour with necessary screws etc all complete as directed and specified by the Engineer-in-Charge :	Each	30.00	45.00	1350.00
12.04	MR	Providing and laying 1st quality ceramic glazed Anti skid floor tiles of size 300x300 mm (thickness to be specified by the manufacturer) conforming to IS:15622 in all colours, shades, sizes as approved over 20 mm thick bed of Cement Mortar 1: 4 (1 cement : 4 Coarse Sand) including pointing the joints with white cement and matching pigment etc complete in all respects as per specifications/drawings and to the entire satisfaction to the Architect.	Sqm	29.10	1100.00	32014.95
		Total of sub-head				48121.45

DETAIL ESTIMATE OF PHASE-A WORK AT JNV RAMBAN , JAMMU AND KASHMIR

SUMMARY OF STAFF QUARTERS -II			
S. No.	DESCRIPTION	AMOUNT (Rs.)	
1	EARTH WORK	9165.60	
2	ROOFING	18126.20	
3	SANITARY INSTALLATIONS	329858.20	
4	WATER SUPPLY	144029.80	
5	SEWERAGE & DRAINAGE	64795.65	
	Total for (6 Nos quarters)	565975.45	
	Total for (13 Nos quarters)	1226280.14	
4	NON SCHEDULE ITEMS	37922.00	
	Total for (6 Nos quarters)	37922.00	
	Total for (13 Nos quarters)	82164.33	

DETAIL ESTIMATE OF PHASE-A WORK AT JNV RAMBAN , JAMMU AND KASHMIR

COST ESTIMATE OF STAFF QUARTER-II (G+2)

S. No.	Ref. No	Description	Unit	Qty	DSR 21 Rate	Amount (Rs.)
1	2	3	4	5	6.00	7
1.00	2.00	EARTH WORK				
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	5.00	286.85	1434.25
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	25.00	255.55	6388.75
b)	2.10.1.2	Pipes, cables etc. exceeding 80 mm dia. but not exceeding 300 mm dia	Metre	2.00	417.35	834.70
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	2.00	253.95	507.90
		Total of sub-head				9165.60
2.00	12.00	ROOFING				
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	36.00	319.75	11511.00
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	4.00	119.95	479.80
ii)	12.42.5	Bend 87.5°				
a)	12.42.5.2	110 mm bend	Each	4.00	132.00	528.00
iii)	12.42.6	Shoe (Plain)				
a)	12.42.6.2	110 mm Shoe	Each	4.00	115.95	463.80
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	16.00	309.50	4952.00

S. No.	Ref. No	Description	Unit	Qty	DSR 21 Rate	Amount (Rs.)
1	2	3	4	5	6.00	7
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	4.00	47.90	191.60
		Total of sub-head				18126.20
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				
a)	17.1.1	White Vitreous china Orissa pattern W.C. pan of size 580x440 mm with integral type foot rests	Each	6.00	5781.35	34688.10
3.02	17.2	Providing and fixing white vitreous china pedestal type water closet (European type W.C. pan) with seat and lid, 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.				
a)	17.2.1	W.C. pan with ISI marked white solid plastic seat and lid	Each	6.00	5540.55	33243.30
3.03	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	6.00	2731.45	16388.70
3.04	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 :				
a)	17.10.1	Kitchen sink with drain board				
	17.10.1.1	510x1040 mm bowl depth 250 mm	Each	6.00	6008.45	36050.70
3.05	17.16	Extra for using coloured pedestal type W.C pan (European type) with low level cistern of same colour instead of white vitreous china W.C pan and cistern.	Each	6.00	167.25	1003.50
3.06	17.31	Providing and fixing 600x450 mm beveled edge mirror of superior glass (of approved quality) complete with 6 mm thick hard board	Each	6.00	1411.15	8466.90
3.07	17.34	Providing and fixing toilet paper holder :				
a)	17.34.2	Vitreous china	Each	4.00	463.00	1852.00
3.08	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	60.00	1077.40	64644.00
b)	17.35.2	75mm diameter				
i)	17.35.2.2	Centrifugally cast (spun) iron socketed pipe as per IS: 3989	Metre	25.00	1042.10	26052.50
3.09	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	14.00	308.45	4318.30
b)	17.37.2	For 75 mm dia. pipe	Each	10.00	304.45	3044.50
3.10	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	10.00	597.60	5976.00

S. No.	Ref. No	Description	Unit	Qty	DSR 21 Rate	Amount (Rs.)
1	2	3	4	5	6.00	7
b)	17.38.2	75 mm				
i)	17.38.2.2	Sand cast iron S&S as per IS- 3989	Each	1.00	453.40	453.40
3.11	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	10.00	439.75	4397.50
b)	17.39.2	75 mm				
i)	17.39.2.2	Sand cast iron S&S as per IS - 3989	Each	1.00	298.20	298.20
3.12	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	1.00	513.30	513.30
b)	17.40.2	75 mm dia				
i)	17.40.2.2	Sand cast iron S&S as per IS - 3989	Each	1.00	405.25	405.25
3.13	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	10.00	731.40	7314.00
b)	17.43.1	75x75x75mm				
i)	17.43.2.2	Sand cast iron S&S as per IS - 3989	Each	1.00	573.80	573.80
3.14	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	3.00	707.30	2121.90
b)	17.44.2	75x75x75mm				
i)	17.44.2.2	Sand cast iron S&S as per IS - 3989	Each	1.00	498.90	498.90
3.15	17. 55	Providing and fixing door piece, insertion rubber washer 3mm thick, bolts & nuts complete :				
a)	17.55.1	100 mm				
i)	17.55.1.2	Sand cast iron S&S as per IS - 3989	Each	2.00	611.00	1222.00
b)	17.55.2	75 mm				
i)	17.55.2.2	Sand cast iron S&S as per IS - 3989	Each	1.00	453.40	453.40
3.16	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	10.00	439.75	4397.50
b)	17.56.2	75 mm				
i)	17.56.2.2	Sand cast iron S&S as per IS - 3989	Each	1.00	311.55	311.55
3.17	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	10.00	439.75	4397.50
b)	17.57.2	75 mm				
i)	17.57.2.2	Sand cast iron S&S as per IS - 3989	Each	1.00	271.45	271.45
3.18	17. 58	Providing lead caulked joints to sand cast iron/centrifugally cast				
a)	17.58.1	100 mm	Each	10.00	549.65	5496.50
b)	17.58.2	75 mm	Each	10.00	466.40	4664.00
3.19	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	10.00	128.65	1286.50
b)	17.59.2	75 mm	Each	1.00	80.10	80.10
3.20	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 :				
a)	17.60.1	100 mm inlet and 100 mm outlet				
i)	17.60.1.2	Sand Cast Iron S&S as per IS: 1729	Each	16.00	1403.45	22455.20

S. No.	Ref. No	Description	Unit	Qty	DSR 21 Rate	Amount (Rs.)
1	2	3	4	5	6.00	7
3.21	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 and pointing in cement mortar 1:4 (1 cement : 4 coarse sand) :				
a)	17.61.1	100 mm dia	Metre	5.00	615.70	3078.50
3.22	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	60.00	69.55	4173.00
b)	17.65.2	75 mm diameter pipe	Metre	25.00	52.90	1322.50
3.23	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	12.00	109.70	1316.40
3.24	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	6.00	325.10	1950.60
3.25	17.71	Providing and fixing PTMT liquid soap container 109 mm wide, 125 mm high and 112 mm distance from wall of standard shape with bracket of the same materials with snap fittings of approved quality and colour, weighing not less than 105 gms.	Each	6.00	146.30	877.80
3.26	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.				
a)	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.	Each	6.00	600.35	3602.10
3.27	18.12	Providing and fixing G.I. pipes complete with G.I. fittings including trenching & refilling.				
		External work				
	18.12.4	32mm dia nominal bore	Metre	25.00	457.70	11442.50
	18.12.5	40mm dia nominal bore	Metre	5.00	558.35	2791.75
	18.12.6	50mm dia nominal bore	Metre	3.00	654.20	1962.60
		Total of sub-head				329858.20
4.00	18.00	WATER SUPPLY				
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.				
		Internal work - Exposed on wall				
a)	18.7.3	25 mm nominal outer dia Pipes metre	Metre	25.00	408.55	10213.75
b)	18.7.4	32 mm nominal outer dia Pipes metre	Metre	25.00	500.95	12523.75

S. No.	Ref. No	Description	Unit	Qty	DSR 21 Rate	Amount (Rs.)
1	2	3	4	5	6.00	7
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	40.00	441.15	17646.00
b)	18.8.2	20 mm nominal outer dia Pipes	Metre	80.00	513.75	41100.00
4.03	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	2.00	757.10	1514.20
4.04	18.16	Providing and fixing brass stop cock of approved quality :				
a)	18.16.1	15 mm nominal bore	Each	2.00	303.85	607.70
b)	18.16.2	20 mm nominal bore	Each	14.00	327.95	4591.30
4.05	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	10.00	532.35	5323.50
b)	18.17.2	32mm nominal bore	Each	1.00	589.90	589.90
c)	18.17.3	40mm nominal bore	Each	1.00	707.30	707.30
4.06	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	4.00	399.15	1596.60
4.07	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	2.00	447.00	894.00
4.08	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	8.00	85.20	681.60
4.09	18.22	Providing and fixing C.P. brass shower rose with 15 or 20 mm inlet :				
a)	18.22.1	100 mm diameter	Each	4.00	166.35	665.40
4.10	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.				
a)	18.48B	Rectangular tank	per Lite	2000.00	9.70	19400.00
4.11	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	8.00	434.20	3473.60
4.12	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	8.00	708.40	5667.20
4.13	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	8.00	594.75	4758.00

S. No.	Ref. No	Description	Unit	Qty	DSR 21 Rate	Amount (Rs.)
1	2	3	4	5	6.00	7
4.14	18.53	Providing and fixing C.P. brass angle valve for basin mixer and geyser points of approved quality conforming to IS:8931				
a)	18.53.1	15 mm nominal bore	Each	8.00	500.35	4002.80
4.15	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	16.00	33.20	531.20
4.16	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	20.00	377.10	7542.00
		Total of sub-head				144029.80
5.00	19	SEWARAGE & DRAINAGE				
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	5.00	375.75	1878.75
b)	19.1.2	150 mm diameter	Metre	20.00	591.40	11828.00
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	5.00	895.50	4477.50
b)	19.2.2	150 mm diameter S.W. pipe	Metre	20.00	1095.15	21903.00
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				
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	6.00	2474.40	14846.40
5.08	19.6	Providing, laying and jointing non pressure NP2 class (light duty)RCC 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 :				
a)	19.6.2	150 mm dia RCC pipe	Metre	20.00	493.10	9862.00
		Total of sub-head				64795.65
6.00		NON SHEDULE ITEMS				
6.01	NS	Providing and fixing floor drain points of 75 x 50mm reducer bend with 100 mm dia CP grating with frame, embedded in floor including making joints with waste pipe etc. complete in all respects as per drawing and as directed by the Engineer in Charge.	Each	12.00	1200.00	14400.00
6.02	NS	Providing & fixing Sink Mixer with Swinging Casted Spout (Wall Mounted Jaquar model CON-309 KN)/approved equal with 450mm long copper pipes & brass nuts.	Each	1.00	3522.00	3522.00
6.03	NS	Providing and fixing concealed single lever bath & overhead shower mixer of hindware make and model No. (F360019CP) respectively or equivalent approved make as approved by Engineer in charge.	Each	4.00	5000.00	20000.00

S. No.	Ref. No	Description	Unit	Qty	DSR 21 Rate	Amount (Rs.)
1	2	3	4	5	6.00	7
		Total of sub-head				37922.00

DETAIL ESTIMATE OF PHASE-A WORK AT JNV RAMBAN , JAMMU AND KASHMIR

ABSTRACT OF TYPE II			
SUB HEAD	PARTICULARS	AMOUNT AS PER	
		DSR ITEMS	NS ITEMS
I	WIRING	246,927.00	3,933.75
II	SUPPLY OF FITTINGS AND FANS	39,746.00	212,849.00
III	BOARDS & DISTRIBUTION BOARDS	29,316.00	39,674.39
IV	EARTHING	20,080.00	-
V	LIGHTNING CONDUCTOR	10,214.00	-
	Total for (6 Nos quarters)	346,283.00	256,457.14
	Total for (13 Nos quarters)	750,279.83	555,657.14

DETAIL ESTIMATE OF PHASE-A WORK AT JNV RAMBAN , JAMMU AND KASHMIR

Cost Estimate of SQ TYPE II (G+2)

(All Amount in Rs.)

SI. No.	DSR-2022	DESCRIPTION	UNIT	QTY.	RATE (AS PER SR)	RATE (AS PER NS)	AMOUNT (SR ITEMS)	AMOUNT (NS ITEMS)
1.00		SUBHEAD - I - WIRING						
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	68.00	1467.00		99756.00	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	93.00	334.00		31062.00	0.00
1.03	1.27	Supplying and fixing following size/ modules, GI box alongwith modular base & cover plate for modular switches in recess etc. as required.						
a)	1.27.3	4 Module (125 mmX75 mm)	Each	12.00	343.00		4116.00	0.00
1.04	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	12.00	156.00		1872.00	0.00
b)	1.24.4	3 pin 5/6 A socket outlet	Each	20.00	122.00		2440.00	0.00
c)	1.24.6	Telephone socket outlet	Each	6.00	148.00		888.00	0.00
d)	1.24.7	TV antenna socket outlet	Each	18.00	148.00		2664.00	0.00
1.05	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)	1.7.2	2 x 2.5 sq.mm + 1 x 2.5 sq.mm earth wire	Metre	100.00	369.00		36900.00	0.00
(b)	1.7.5	2 X 10 sq. mm + 1 X 6 sq. mm earth wire	Metre	28.00	710.00		19880.00	0.00
1.06	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	280.00	47.00		13160.00	0.00
1.07	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	80.00	256.00		20480.00	0.00
1.08	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	18.00	298.00		5364.00	0.00
1.09	1.18	Supplying and drawing following pair 0.5 mm dia FRLS PVC insulated annealed copper conductor, unarmored telephone cable in the existing surface/ recessed steel/ PVC conduit as required.						
a)	1.18.2	2 Pair	Metre	40.00	38.00		1520.00	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	25.00	128.00		3200.00	0.00
b)	1.21.2	25 mm	Metre	25.00	145.00		3625.00	0.00
1.11	M. R	Providing and fixing in position 2mm thick M.S. Telephone junction box of size suitable for fixing of following Krone Tag Block with key lock arrangement. Also provide clamps for fixing tag blocks.						

SI. No.	DSR-2022	DESCRIPTION	UNIT	QTY.	RATE (AS PER SR)	RATE (AS PER NS)	AMOUNT (SR ITEMS)	AMOUNT (NS ITEMS)
a)	a)	10 pair Telephone Tag Block with box	Each	1.00		496.55	0.00	496.55
1.12	M. R	Supplying, laying of 10 pair unarmoured PVC insulated copper conductor (ATC) telephone cable in ground/existing pipes/on wall and making connection with telephone main junction box (MDF) including supports and all accessories as required						
a)	a)	10 Pair Cable unarmoured	Metre	20.00		171.86	0.00	3437.20
		TOTAL OF SUBHEAD - 1					246927.00	3933.75
2.00		SUBHEAD - II - SUPPLY & INSTALLATION OF FITTINGS						
2.01	M.R.	Supplying of following box type FI. fitting made out of CRCA sheet finished in antitrust 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	24.00		585.35	0.00	14048.40
2.02	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	48.00		1170.80	0.00	56198.40
2.03	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.						
a)		Cirrus Mini Pro 15 / 20 watt & 1100 /1600 Lumens (Philips SM200C LED11S 6500 PSU OD WH)	Each	24.00		2868.45	0.00	68842.80
2.04	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.						
a)		Endural LED-Bulkhead, 10 W, 600 lumen Such as (Philips WT202W LED6S CW PSU S2 PC)	Each	4.00		1697.60	0.00	6790.40
2.05	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)		300 mm 4 Pole	Each	18.00		1639.10	0.00	29503.80
2.06	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	18.00		2081.40	0.00	37465.20
2.07	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	18.00	369.00		6642.00	0.00
2.08	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	18.00	339.00		6102.00	0.00
2.09	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	24.00	206.00		4944.00	0.00
2.10	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	18.00	450.00		8100.00	0.00
2.11	1.51	Extra for fixing the louvers/ shutters complete with frame for a exhaust fan of all sizes.	Each	18.00	207.00		3726.00	0.00

SI. No.	DSR-2022	DESCRIPTION	UNIT	QTY.	RATE (AS PER SR)	RATE (AS PER NS)	AMOUNT (SR ITEMS)	AMOUNT (NS ITEMS)
2.12	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	76.00	119.00		9044.00	0.00
2.13	1.38	Supplying and fixing call bell/ buzzer suitable for single phase, 230 V, complete as required.	Each	12.00	99.00		1188.00	0.00
		TOTAL OF SUBHEAD - II.					39746.00	212849.00
3.00		SUBHEAD - III - DISTRIBUTION BOARD						
3.01	M.R.	Supplying, installing, testing and commissioning of compartmentalised cubical type meter board for installation of single phase meter. The cubical board shall be made of 2mm thick C.R.C.A sheet, duly phosphatised powder coated complete with connection bus bar and following accessories mounted in it. METER BOARD INCOMING : 40A TP MCCB having breaking capacity - 25 KA - 1 No. OUTGOING : Space for Single phase energy meter - 4 Nos. 25 Amp DP MCB - 4 Nos.	Set	1.00		27474.35	0.00	27474.35
3.02	M.R.	Supplying, installing, testing & commissioning of Single Phase Electronic Energy Meter, tested as per Electricity Boards requirement.	Set	4.00		2369.51	0.00	9478.04
3.03	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)						
a)	2.3.3	12 way, SPN	Each	4.00	2315.00		9260.00	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	4.00	435.00		1740.00	0.00
3.05	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.						
(b)	2.14	25 amps	Each	4.00	2028.00		8112.00	0.00
3.06	M.R.	Supplying of XLPE insulated, PVC sheathed 1.1 KV grade Aluminium conductor heavy duty armoured cable as per IS : 7098 of size :						
a)	a)	4 x 16 sq.mm.	Metre	25.00		108.88	0.00	2722.00
3.07	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 for crossing road/walls						
a)	14.14.1	100 mm dia	Metre	10.00	662.00		6620.00	0.00
3.08	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	14.00	256.00		3584.00	0.00
		TOTAL OF SUBHEAD - III.					29316.00	39674.39
4.00		SUBHEAD - IV - EARTHING						
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	2.00	6855.00		13710.00	0.00

SI. No.	DSR-2022	DESCRIPTION	UNIT	QTY.	RATE (AS PER SR)	RATE (AS PER NS)	AMOUNT (SR ITEMS)	AMOUNT (NS ITEMS)
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	50.00	70.00		3500.00	0.00
		TOTAL OF SUBHEAD - IV					20080.00	0.00
5.00	6.00	SUBHEAD - V- LIGHTNING CONDUCTOR						
5.01	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	2.00	518.00		1036.00	0.00
5.02	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	4.00	113.00		452.00	0.00
5.03	6.9	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 horizontal run)	Rm	26.00	80.00		2080.00	0.00
5.04	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)	Rm	26.00	162.00		4212.00	0.00
5.05	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	4.00	121.00		484.00	0.00
5.06	6.15	Laying copper/ G.I. tape 32 mm X 6 mm from earth electrode directly in ground as required	Rm	26.00	75.00		1950.00	0.00
		TOTAL OF SUBHEAD - V					10214.00	0.00
		TOTAL (I TO IV)					346283.00	256457.14
		G. TOTAL (I TO IV)						602740.14

DETAIL ESTIMATE OF PHASE-A WORK AT JNV RAMBAN , JAMMU AND KASHMIR

(G+2)

SUMMARY OF CIVIL WORK STAFF QUARTERS TYPE III

S. No.	Description	Amount (Rs.)
1	EARTH WORK	93317.80
2	CONCRETE WORK	52419.90
3	REINFORCED CEMENT CONCRETE	5089772.81
4	BRICK WORK	1065355.09
5	MARBLE WORK	77949.44
6	WOOD WORK & PVC WORK	1026108.30
7	STEEL WORK	145611.96
8	FLOORING	720152.84
9	ROOFING	1066.40
10	FINISHING	835101.68
11	WATER PROOFING	152323.40
	Total for (6 Nos quarters)	9259179.62
	Total for (18 Nos quarters)	27777538.87
	Non DSR Amount	53980.20
	Total (6 Nos)	53980.20
	Total (18 Nos)	161940.60

DETAIL ESTIMATE OF PHASE-A WORK AT JNV RAMBAN , JAMMU AND KASHMIR

COST ESTIMATE OF STAFF QUARTERS TYPE III

S. No.	Ref. No	Description	Unit	Quantity	DSR 21 Rate	Amount (Rs.)
1	2	3	4	5	6	7
1	2	EARTH WORK				
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	212.00	286.85	60812.20
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	128.00	253.95	32505.60
		Total of sub-head				93317.80
2	4	CONCRETE WORK				
2.01	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	7.80	6050.65	47175.78
2.02	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	0.56	9375.20	5244.11
		Total of sub-head				52419.90
3	5	REINFORCED CEMENT CONCRETE				
3.01	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	51.03	307.95	15715.46
c)	5.9.6	Columns, Pillars, Piers, Abutments, Posts and Struts	Sqm	377.85	804.25	303885.86
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	4.86	307.95	1497.87
e)	5.9.16	Edges of slabs and breaks in floors and walls				
f)	5.9.16.1	Under 20 cms wide	metre	134.20	181.90	24410.98
g)	5.9.3	Suspended floors, roofs, landings, balconies and access platform.	Sqm	461.73	766.55	353939.92
h)	5.9.5	Lintels, beams, plinth beams, girders, bressumers and cantilevers.	Sqm	508.16	608.35	309141.45
3.02	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	3.30	1580.90	5216.97
3.03	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	27372.00	89.65	2453899.80
3.04	5.3	Add for plaster drip course/ groove in plastered surface or moulding to R.C.C. projections.	metre	26.70	64.70	1727.49

S. No.	Ref. No	Description	Unit	Quantity	DSR 21 Rate	Amount (Rs.)
3.05	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	71.64	7997.30	572894.95
(ii)	5.33.2	All works above plinth level upto floor V level	Cum	103.91	10080.15	1047442.07

S. No.	Ref. No	Description	Unit	Quantity	DSR 21 Rate	Amount (Rs.)
		Total of sub-head				5089772.81
4	6	BRICK WORK				
4.01	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	0.89	6658.25	5915.02
4.02	6.47	Providing and laying autoclaved aerated cement blocks masonry with 150mm/230mm/300 mm thick AAC blocks in super structure above plinth level up to floor V level with RCC band at sill level and lintel level with approved block laying polymer modified adhesive mortar all complete as per direction of Engineer-in-Charge. (The payment of RCC band and reinforcement shall be made for seperately).				
a)			Cum	109.14	6994.15	763312.58
4.03	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	268.11	1018.05	272949.39
4.04	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	268.11	86.45	23178.11
		Total of sub-head				1065355.09
5	8	MARBLE WORK				
5.01	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)	8.2.2	Granite of any colour and shade				
(i)	8.2.2.2	Area of slab over 0.50 sqm	Sqm	13.18	4425.35	58308.41
5.02	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)	8.3.2	Granite work	Metre	21.96	418.85	9197.95
5.03	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	21.96	475.55	10443.08
		Total of sub-head				77949.44
6	9	WOOD WORK & PVC WORK				
6.01	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	0.15	131576.95	20083.91
6.02	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	12.60	2512.35	31655.61
6.03	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	70.35	2015.75	141808.01

S. No.	Ref. No	Description	Unit	Quantity	DSR 21 Rate	Amount (Rs.)
6.04	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	12.60	401.40	5057.64
6.05	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	28.77	3140.15	90342.12
6.06	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)	9.96.2	250x16 mm	Each	36.00	234.90	8456.40
6.07	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)	9.97.3	200x10 mm	Each	72.00	90.80	6537.60
6.08	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	24.00	62.25	1494.00
6.09	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 11nd 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	18.36	1668.30	30629.99
6.10	9.147	Providing and fixing factory made uPVC white colour sliding glazed window upto 1.50 m in height dimension comprising of uPVC multi-chambered frame with in-built roller track and sash extruded profiles duly reinforced with 1.60 ± 0.2 mm thick galvanized mild steel section made from roll forming process of required length (shape & size according to uPVC profile), appropriate dimension of uPVC extruded glazing beads and uPVC extruded interlocks, EPDM gasket, wool pile, zinc alloy (white powder coated) touch locks with hook, zinc alloy body with single nylon rollers (weight bearing capacity to be 40 kg), G.I fasteners 100 x 8 mm size for fixing frame to finished wall and necessary stainless steel screws etc. Profile of frame & sash shall be mitred cut and fusion welded at all corners, including drilling of holes for fixing hardware's and drainage of water etc. After fixing frame the gap between frame and adjacent finished wall shall be filled with weather proof silicon sealant over backer rod of required size and of approved quality, all complete as per approved drawing & direction of Engineer-in-Charge. (Single / double glass panes, wire mesh and silicon sealant shall be paid separately). Variation in profile dimension in higher side shall be accepted but no extra payment on this account shall be made.				
a)	9.147D.4	Three track three panels sliding window with fly proof S.S wire mesh (Two nos. glazed & one no. wire mesh panels) made of (big series) frame 116 x 45 mm & sash 46 x 62 mm both having wall thickness of 2.3 ± 0.2 mm and single glazing bead / double glazing bead of appropriate dimension. (Area of window above 1.75 sqm).	Sqm	51.52	9642.60	496791.57
6.11	dsr-9.7.7.2	Float glass panes 5.0 mm thick glass panes (weight not less than 12.50 kg/sqm).	Sqm	51.52	2231.20	114952.54

S. No.	Ref. No	Description	Unit	Quantity	DSR 21 Rate	Amount (Rs.)
6.12	9.147	Providing and fixing factory made uPVC white colour fixed glazed windows/ ventilators comprising of uPVC multi-chambered frame and mullion (where ever required) extruded profiles duly reinforced with 1.60 ± 0.2 mm thick galvanized mild steel section made from roll forming process of required length (shape & size according to uPVC profile), , uPVC extruded glazing beads of appropriate dimension, EPDM gasket, G.I fasteners 100 x 8 mm size for fixing frame to finished wall, plastic packers, plastic caps and necessary stainless steel screws etc. Profile of frame shall be mitred cut and fusion welded at all corners, mullion (if required) shall be also fusion welded including drilling of holes for fixing hardware's and drainage of water etc. After fixing frame the gap between frame and adjacent finished wall shall be filled with weather proof silicon sealant over backer rod of required size and of approved quality, all complete as per approved drawing & direction of Engineer-in-Charge. (Single / double glass panes and silicon sealant shall be paid separately). Variation in profile dimension in higher side shall be accepted but no extra payment on this account shall be made.				
a)	9.147B.1	Fixed window / ventilator made of (small series) frame 47 x 50 mm & mullion 47 x 68 mm both having wall thickness of 1.9 ± 0.2 mm and single glazing bead of appropriate dimension.	Sqm	10.80	7249.90	78298.92
		Total of sub-head				1026108.30
7	10	STEEL WORK				
7.01	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	674.10	114.65	77285.57
7.02	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	10.00	185.20	1852.00
7.03	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	121.00	157.15	19015.15
7.04	10.3	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	50.47	940.30	47459.24
		Total of sub-head				145611.96
8	11	FLOORING				
8.01	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	11.00	1706.60	18772.60
8.02	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	40.43	2038.55	82412.46
8.03	11.31	Extra for pre finished nosing in treads of steps of Kota stone/ sand stone slab.	Metre	70.13	157.35	11034.96
8.04	11.32	Extra for Kota stone/ sand stone in treads of steps and risers using single length up to 1.05 metre.	Sqm	40.43	36.35	1469.52

S. No.	Ref. No	Description	Unit	Quantity	DSR 21 Rate	Amount (Rs.)
8.05	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	196.56	1063.45	209031.73
8.06	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.				
	11.41.2	Size of Tile 600x600 mm	Sqm	255.57	1416.65	362055.37
8.07	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.				
	11.46.1	Size of Tile 400x400 mm	Sqm	25.56	1384.20	35376.21
		Total of sub-head				720152.84
9	12	ROOFING				
9.01	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	4.00	266.60	1066.40
		Total of sub-head				1066.40
10	13	FINISHING				
10.01	13.4	12 mm cement plaster of mix				
a)	13.4.2	1:6 (1 cement: 6 coarse sand)	Sqm	579.28	294.35	170512.50
10.02	13.5	15 mm cement plaster on rough side of single or half brick wall of mix:				
a)	13.5.2	1:6 (1 cement: 6 coarse sand)	Sqm	920.12	339.10	312012.08
10.03	13.37	White washing with lime to give an even shade :				
a)	13.37.1	New work (three or more coats)	Sqm	512.96	32.45	16645.41
10.04	13.41	Distemping 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	965.47	162.55	156937.92
10.05	13.47	Finishing walls with Premium Acrylic Smooth exterior paint withSilicone 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	533.93	162.35	86683.26
10.06	13.5	Applying priming coat:				
a)	13.50.1	With ready mixed pink or Grey primer of approved brand and manufacture on wood work (hard and soft wood)	Sqm	369.16	61.45	22684.83
b)	13.50.3	With ready mixed red oxide zinc chromate primer of approved brand and manufacture on steel galvanised iron/ steel works	Sqm	112.86	55.50	6263.89
10.07	13.61	Painting with synthetic enamel paint of approved brand and manufacture to give an even shade :				
a)	13.61.1	Two or more coats on new work	Sqm	482.02	131.45	63361.80
		Total of sub-head				835101.68
11	22	WATER PROOFING				

S. No.	Ref. No	Description	Unit	Quantity	DSR 21 Rate	Amount (Rs.)
11.01	22.8	Providing and laying four courses water proofing treatment with bitumen felt over roofs consisting of first and third courses of blown bitumen 85/25 or 90/15 conforming to IS : 702 applied hot @ 1.45 Kg per square metre of area for each course, second course of roofing felt type 3 grade-I (hessian based self finished bitumen felt) and fourth and final course of stone grit 6 mm and down size or pea sized gravel spread at 6 cubic decimeter per square metre, including preparation of surface but excluding grading complete with :				
a)	22.8.1	Bitumen felt (hessian base) type 3 grade I conforming to IS : 1322	Sqm	123.90	432.10	53537.19
11.02	22.14	Grading roof for water proofing treatment with				
	22.14.1	Cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20mm nominal size)	Cum	9.29	7510.75	69793.64
11.03	22.3	Providing and laying water proofing treatment to vertical and horizontal surfaces of depressed portions of W.C., kitchen and the like consisting of:				
	(i)	Ist course of applying cement slurry @ 4.4 kg/sqm mixed with water proofing compound conforming to IS 2645 in recommended proportions including rounding off junction of vertical and horizontal surface.				
	(ii)	IIInd course of 20 mm cement plaster 1:3 (1 cement : 3 coarse sand) mixed with water proofing compound in recommended proportion including rounding off junction of vertical and horizontal surface.				
	(iii)	IIIrd course of applying blown or residual bitumen applied hot at 1.7 kg. per sqm of area.				
	(iv)	IVth course of 400 micron thick PVC sheet. (Overlaps at joints of PVC sheet should be 100 mm wide and pasted to each other with bitumen @ 1.7 kg/ sqm).	Sqm	37.45	774.25	28992.57
		Total of sub-head				152323.40
12		NON SCHEDULE ITEMS				
12.01	MR	Providing and laying cinder filling in sunken floors and other locations with approved quality cinder including watering and light ramming etc. required for proper compaction/completion of the work complete in all respects as per drawings and as directed by the Engineer in Charge.	Cum	5.36	2000.00	10719.00
12.02	MR	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)		150 mm	Each	72.00	75.00	5400.00
12.03	MR	Providing and fixing aluminium door buffer of approved make, design and colour with necessary screws etc all complete as directed and specified by the Engineer-in-Charge :	Each	30.00	45.00	1350.00
12.04	MR	Providing and laying 1st quality ceramic glazed Anti skid floor tiles of size 300x300 mm (thickness to be specified by the manufacturer) conforming to IS:15622 in all colours, shades, sizes as approved over 20 mm thick bed of Cement Mortar 1: 4 (1 cement : 4 Coarse Sand) including pointing the joints with white cement and matching pigment etc complete in all respects as per specifications/drawings and to the entire satisfaction to the Architect.	Sqm	33.19	1100.00	36511.20
		Total of sub-head				53980.20

DETAIL ESTIMATE OF PHASE-A WORK AT JNV RAMBAN , JAMMU AND KASHMIR

SUMMARY OF STAFF QUARTERS -III			
S. No.	DESCRIPTION	AMOUNT (Rs.)	
1	EARTH WORK	9165.60	
2	ROOFING	18126.20	
3	SANITARY INSTALLATIONS	329858.20	
4	WATER SUPPLY	144029.80	
5	SEWERAGE & DRAINAGE	64795.65	
	Total for (6 Nos quarters)	565975.45	
	Total for (18 Nos quarters)	1697926.35	
4	NON SCHEDULE ITEMS	37922.00	
	Total for (6 Nos quarters)	37922.00	
	Total for (18 Nos quarters)	113766.00	

DETAIL ESTIMATE OF PHASE-A WORK AT JNV RAMBAN , JAMMU AND KASHMIR

COST ESTIMATE OF STAFF QUARTER-III (G+2)

S. No.	Ref. No	Description	Unit	Qty	DSR 21 Rate	Amount (Rs.)
1	2	3	4	5	6.00	7
1.00	2.00	EARTH WORK				
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	5.00	286.85	1434.25
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	25.00	255.55	6388.75
b)	2.10.1.2	Pipes, cables etc. exceeding 80 mm dia. but not exceeding 300 mm dia	Metre	2.00	417.35	834.70
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	2.00	253.95	507.90
		Total of sub-head				9165.60
2.00	12.00	ROOFING				
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	36.00	319.75	11511.00
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	4.00	119.95	479.80
ii)	12.42.5	Bend 87.5°				
a)	12.42.5.2	110 mm bend	Each	4.00	132.00	528.00
iii)	12.42.6	Shoe (Plain)				
a)	12.42.6.2	110 mm Shoe	Each	4.00	115.95	463.80
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	16.00	309.50	4952.00

S. No.	Ref. No	Description	Unit	Qty	DSR 21 Rate	Amount (Rs.)
1	2	3	4	5	6.00	7
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	4.00	47.90	191.60
		Total of sub-head				18126.20
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				
a)	17.1.1	White Vitreous china Orissa pattern W.C. pan of size 580x440 mm with integral type foot rests	Each	6.00	5781.35	34688.10
3.02	17.2	Providing and fixing white vitreous china pedestal type water closet (European type W.C. pan) with seat and lid, 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.				
a)	17.2.1	W.C. pan with ISI marked white solid plastic seat and lid	Each	6.00	5540.55	33243.30
3.03	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	6.00	2731.45	16388.70
3.04	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 :				
a)	17.10.1	Kitchen sink with drain board				
	17.10.1.1	510x1040 mm bowl depth 250 mm	Each	6.00	6008.45	36050.70
3.05	17.16	Extra for using coloured pedestal type W.C pan (European type) with low level cistern of same colour instead of white vitreous china W.C pan and cistern.	Each	6.00	167.25	1003.50
3.06	17.31	Providing and fixing 600x450 mm beveled edge mirror of superior glass (of approved quality) complete with 6 mm thick hard board	Each	6.00	1411.15	8466.90
3.07	17.34	Providing and fixing toilet paper holder :				
a)	17.34.2	Vitreous china	Each	4.00	463.00	1852.00
3.08	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	60.00	1077.40	64644.00
b)	17.35.2	75mm diameter				
i)	17.35.2.2	Centrifugally cast (spun) iron socketed pipe as per IS: 3989	Metre	25.00	1042.10	26052.50
3.09	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	14.00	308.45	4318.30
b)	17.37.2	For 75 mm dia. pipe	Each	10.00	304.45	3044.50
3.10	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	10.00	597.60	5976.00

S. No.	Ref. No	Description	Unit	Qty	DSR 21 Rate	Amount (Rs.)
1	2	3	4	5	6.00	7
b)	17.38.2	75 mm				
i)	17.38.2.2	Sand cast iron S&S as per IS- 3989	Each	1.00	453.40	453.40
3.11	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	10.00	439.75	4397.50
b)	17.39.2	75 mm				
i)	17.39.2.2	Sand cast iron S&S as per IS - 3989	Each	1.00	298.20	298.20
3.12	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	1.00	513.30	513.30
b)	17.40.2	75 mm dia				
i)	17.40.2.2	Sand cast iron S&S as per IS - 3989	Each	1.00	405.25	405.25
3.13	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	10.00	731.40	7314.00
b)	17.43.1	75x75x75mm				
i)	17.43.2.2	Sand cast iron S&S as per IS - 3989	Each	1.00	573.80	573.80
3.14	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	3.00	707.30	2121.90
b)	17.44.2	75x75x75mm				
i)	17.44.2.2	Sand cast iron S&S as per IS - 3989	Each	1.00	498.90	498.90
3.15	17. 55	Providing and fixing door piece, insertion rubber washer 3mm thick, bolts & nuts complete :				
a)	17.55.1	100 mm				
i)	17.55.1.2	Sand cast iron S&S as per IS - 3989	Each	2.00	611.00	1222.00
b)	17.55.2	75 mm				
i)	17.55.2.2	Sand cast iron S&S as per IS - 3989	Each	1.00	453.40	453.40
3.16	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	10.00	439.75	4397.50
b)	17.56.2	75 mm				
i)	17.56.2.2	Sand cast iron S&S as per IS - 3989	Each	1.00	311.55	311.55
3.17	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	10.00	439.75	4397.50
b)	17.57.2	75 mm				
i)	17.57.2.2	Sand cast iron S&S as per IS - 3989	Each	1.00	271.45	271.45
3.18	17. 58	Providing lead caulked joints to sand cast iron/centrifugally cast				
a)	17.58.1	100 mm	Each	10.00	549.65	5496.50
b)	17.58.2	75 mm	Each	10.00	466.40	4664.00
3.19	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	10.00	128.65	1286.50
b)	17.59.2	75 mm	Each	1.00	80.10	80.10
3.20	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 :				
a)	17.60.1	100 mm inlet and 100 mm outlet				
i)	17.60.1.2	Sand Cast Iron S&S as per IS: 1729	Each	16.00	1403.45	22455.20

S. No.	Ref. No	Description	Unit	Qty	DSR 21 Rate	Amount (Rs.)
1	2	3	4	5	6.00	7
3.21	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 and pointing in cement mortar 1:4 (1 cement : 4 coarse sand) :				
a)	17.61.1	100 mm dia	Metre	5.00	615.70	3078.50
3.22	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	60.00	69.55	4173.00
b)	17.65.2	75 mm diameter pipe	Metre	25.00	52.90	1322.50
3.23	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	12.00	109.70	1316.40
3.24	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	6.00	325.10	1950.60
3.25	17.71	Providing and fixing PTMT liquid soap container 109 mm wide, 125 mm high and 112 mm distance from wall of standard shape with bracket of the same materials with snap fittings of approved quality and colour, weighing not less than 105 gms.	Each	6.00	146.30	877.80
3.26	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.				
a)	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.	Each	6.00	600.35	3602.10
3.27	18.12	Providing and fixing G.I. pipes complete with G.I. fittings including trenching & refilling.				
		External work				
	18.12.4	32mm dia nominal bore	Metre	25.00	457.70	11442.50
	18.12.5	40mm dia nominal bore	Metre	5.00	558.35	2791.75
	18.12.6	50mm dia nominal bore	Metre	3.00	654.20	1962.60
		Total of sub-head				329858.20
4.00	18.00	WATER SUPPLY				
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.				
		Internal work - Exposed on wall				
a)	18.7.3	25 mm nominal outer dia Pipes metre	Metre	25.00	408.55	10213.75
b)	18.7.4	32 mm nominal outer dia Pipes metre	Metre	25.00	500.95	12523.75

S. No.	Ref. No	Description	Unit	Qty	DSR 21 Rate	Amount (Rs.)
1	2	3	4	5	6.00	7
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	40.00	441.15	17646.00
b)	18.8.2	20 mm nominal outer dia Pipes	Metre	80.00	513.75	41100.00
4.03	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	2.00	757.10	1514.20
4.04	18.16	Providing and fixing brass stop cock of approved quality :				
a)	18.16.1	15 mm nominal bore	Each	2.00	303.85	607.70
b)	18.16.2	20 mm nominal bore	Each	14.00	327.95	4591.30
4.05	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	10.00	532.35	5323.50
b)	18.17.2	32mm nominal bore	Each	1.00	589.90	589.90
c)	18.17.3	40mm nominal bore	Each	1.00	707.30	707.30
4.06	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	4.00	399.15	1596.60
4.07	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	2.00	447.00	894.00
4.08	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	8.00	85.20	681.60
4.09	18.22	Providing and fixing C.P. brass shower rose with 15 or 20 mm inlet :				
a)	18.22.1	100 mm diameter	Each	4.00	166.35	665.40
4.10	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.				
a)	18.48B	Rectangular tank	per Lite	2000.00	9.70	19400.00
4.11	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	8.00	434.20	3473.60
4.12	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	8.00	708.40	5667.20
4.13	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	8.00	594.75	4758.00

S. No.	Ref. No	Description	Unit	Qty	DSR 21 Rate	Amount (Rs.)
1	2	3	4	5	6.00	7
4.14	18.53	Providing and fixing C.P. brass angle valve for basin mixer and geyser points of approved quality conforming to IS:8931				
a)	18.53.1	15 mm nominal bore	Each	8.00	500.35	4002.80
4.15	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	16.00	33.20	531.20
4.16	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	20.00	377.10	7542.00
Total of sub-head						144029.80
5.00	19	SEWARAGE & DRAINAGE				
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	5.00	375.75	1878.75
b)	19.1.2	150 mm diameter	Metre	20.00	591.40	11828.00
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	5.00	895.50	4477.50
b)	19.2.2	150 mm diameter S.W. pipe	Metre	20.00	1095.15	21903.00
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				
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	6.00	2474.40	14846.40
5.08	19.6	Providing, laying and jointing non pressure NP2 class (light duty)RCC 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 :				
a)	19.6.2	150 mm dia RCC pipe	Metre	20.00	493.10	9862.00
Total of sub-head						64795.65
6.00		NON SHEDULE ITEMS				
6.01	NS	Providing and fixing floor drain points of 75 x 50mm reducer bend with 100 mm dia CP grating with frame, embedded in floor including making joints with waste pipe etc. complete in all respects as per drawing and as directed by the Engineer in Charge.	Each	12.00	1200.00	14400.00
6.02	NS	Providing & fixing Sink Mixer with Swinging Casted Spout (Wall Mounted Jaquar model CON-309 KN)/approved equal with 450mm long copper pipes & brass nuts.	Each	1.00	3522.00	3522.00
6.03	NS	Providing and fixing concealed single lever bath & overhead shower mixer of hindware make and model No. (F360019CP) respectively or equivalent approved make as approved by Engineer in charge.	Each	4.00	5000.00	20000.00

S. No.	Ref. No	Description	Unit	Qty	DSR 21 Rate	Amount (Rs.)
1	2	3	4	5	6.00	7
		Total of sub-head				37922.00

DETAIL ESTIMATE OF PHASE-A WORK AT JNV RAMBAN , JAMMU AND KASHMIR

ABSTRACT OF TYPE III			
SUB HEAD	PARTICULARS	AMOUNT AS PER	
		DSR ITEMS	NS ITEMS
I	WIRING	246,927.00	3,933.75
II	SUPPLY OF FITTINGS AND FANS	39,746.00	212,849.00
III	BOARDS & DISTRIBUTION BOARDS	29,316.00	39,674.39
IV	EARTHING	20,080.00	-
V	LIGHTNING CONDUCTOR	10,214.00	-
	Total for (6 Nos quarters)	346,283.00	256,457.14
	Total for (18 Nos quarters)	1,038,849.00	769,371.42

DETAIL ESTIMATE OF PHASE-A WORK AT JNV RAMBAN , JAMMU AND KASHMIR

Cost Estimate of SQ TYPE III (G+2)

(All Amount in Rs.)

SI. No.	DSR-2022	DESCRIPTION	UNIT	QTY.	RATE (AS PER SR)	RATE (AS PER NS)	AMOUNT (SR ITEMS)	AMOUNT (NS ITEMS)
1.00		SUBHEAD - I - WIRING						
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	68.00	1467.00		99756.00	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	93.00	334.00		31062.00	0.00
1.03	1.27	Supplying and fixing following size/ modules, GI box alongwith modular base & cover plate for modular switches in recess etc. as required.						
a)	1.27.3	4 Module (125 mmX75 mm)	Each	12.00	343.00		4116.00	0.00
1.04	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	12.00	156.00		1872.00	0.00
b)	1.24.4	3 pin 5/6 A socket outlet	Each	20.00	122.00		2440.00	0.00
c)	1.24.6	Telephone socket outlet	Each	6.00	148.00		888.00	0.00
d)	1.24.7	TV antenna socket outlet	Each	18.00	148.00		2664.00	0.00
1.05	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)	1.7.2	2 x 2.5 sq.mm + 1 x 2.5 sq.mm earth wire	Metre	100.00	369.00		36900.00	0.00
(b)	1.7.5	2 X 10 sq. mm + 1 X 6 sq. mm earth wire	Metre	28.00	710.00		19880.00	0.00
1.06	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	280.00	47.00		13160.00	0.00
1.07	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	80.00	256.00		20480.00	0.00
1.08	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	18.00	298.00		5364.00	0.00
1.09	1.18	Supplying and drawing following pair 0.5 mm dia FRLS PVC insulated annealed copper conductor, unarmored telephone cable in the existing surface/ recessed steel/ PVC conduit as required.						
a)	1.18.2	2 Pair	Metre	40.00	38.00		1520.00	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	25.00	128.00		3200.00	0.00
b)	1.21.2	25 mm	Metre	25.00	145.00		3625.00	0.00
1.11	M. R	Providing and fixing in position 2mm thick M.S. Telephone junction box of size suitable for fixing of following Krone Tag Block with key lock arrangement. Also provide clamps for fixing tag blocks.						

SI. No.	DSR-2022	DESCRIPTION	UNIT	QTY.	RATE (AS PER SR)	RATE (AS PER NS)	AMOUNT (SR ITEMS)	AMOUNT (NS ITEMS)
a)	a)	10 pair Telephone Tag Block with box	Each	1.00		496.55	0.00	496.55
1.12	M. R	Supplying, laying of 10 pair unarmoured PVC insulated copper conductor (ATC) telephone cable in ground/existing pipes/on wall and making connection with telephone main junction box (MDF) including supports and all accessories as required						
a)	a)	10 Pair Cable unarmoured	Metre	20.00		171.86	0.00	3437.20
		TOTAL OF SUBHEAD - 1					246927.00	3933.75
2.00		SUBHEAD - II - SUPPLY & INSTALLATION OF FITTINGS						
2.01	M.R.	Supplying of following box type FI. 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	24.00		585.35	0.00	14048.40
2.02	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	48.00		1170.80	0.00	56198.40
2.03	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.						
a)		Cirrus Mini Pro 15 / 20 watt & 1100 /1600 Lumens (Philips SM200C LED11S 6500 PSU OD WH)	Each	24.00		2868.45	0.00	68842.80
2.04	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.						
a)		Endural LED-Bulkhead, 10 W, 600 lumen Such as (Philips WT202W LED6S CW PSU S2 PC)	Each	4.00		1697.60	0.00	6790.40
2.05	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)		300 mm 4 Pole	Each	18.00		1639.10	0.00	29503.80
2.06	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	18.00		2081.40	0.00	37465.20
2.07	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	18.00	369.00		6642.00	0.00
2.08	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	18.00	339.00		6102.00	0.00
2.09	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	24.00	206.00		4944.00	0.00
2.10	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	18.00	450.00		8100.00	0.00
2.11	1.51	Extra for fixing the louvers/ shutters complete with frame for a exhaust fan of all sizes.	Each	18.00	207.00		3726.00	0.00

SI. No.	DSR-2022	DESCRIPTION	UNIT	QTY.	RATE (AS PER SR)	RATE (AS PER NS)	AMOUNT (SR ITEMS)	AMOUNT (NS ITEMS)
2.12	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	76.00	119.00		9044.00	0.00
2.13	1.38	Supplying and fixing call bell/ buzzer suitable for single phase, 230 V, complete as required.	Each	12.00	99.00		1188.00	0.00
		TOTAL OF SUBHEAD - II.					39746.00	212849.00
3.00		<u>SUBHEAD - III - DISTRIBUTION BOARD</u>						
3.01	M.R.	Supplying, installing, testing and commissioning of compartmentalised cubical type meter board for installation of single phase meter. The cubical board shall be made of 2mm thick C.R.C.A sheet, duly phosphatised powder coated complete with connection bus bar and following accessories mounted in it. METER BOARD INCOMING : 40A TP MCCB having breaking capacity - 25 KA - 1 No. OUTGOING : Space for Single phase energy meter - 4 Nos. 25 Amp DP MCB - 4 Nos.	Set	1.00		27474.35	0.00	27474.35
3.02	M.R.	Supplying, installing, testing & commissioning of Single Phase Electronic Energy Meter, tested as per Electricity Boards requirement.	Set	4.00		2369.51	0.00	9478.04
3.03	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)						
a)	2.3.3	12 way, SPN	Each	4.00	2315.00		9260.00	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	4.00	435.00		1740.00	0.00
3.05	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.						
(b)	2.14	25 amps	Each	4.00	2028.00		8112.00	0.00
3.06	M.R.	Supplying of XLPE insulated, PVC sheathed 1.1 KV grade Aluminium conductor heavy duty armoured cable as per IS : 7098 of size :						
a)	a)	4 x 16 sq.mm.	Metre	25.00		108.88	0.00	2722.00
3.07	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 for crossing road/walls						
a)	14.14.1	100 mm dia	Metre	10.00	662.00		6620.00	0.00
3.08	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	14.00	256.00		3584.00	0.00
		TOTAL OF SUBHEAD - III.					29316.00	39674.39
4.00		<u>SUBHEAD - IV - EARTHING</u>						
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	2.00	6855.00		13710.00	0.00

SI. No.	DSR-2022	DESCRIPTION	UNIT	QTY.	RATE (AS PER SR)	RATE (AS PER NS)	AMOUNT (SR ITEMS)	AMOUNT (NS ITEMS)
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	50.00	70.00		3500.00	0.00
		TOTAL OF SUBHEAD - IV					20080.00	0.00
5.00	6.00	SUBHEAD - V- LIGHTNING CONDUCTOR						
5.01	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	2.00	518.00		1036.00	0.00
5.02	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	4.00	113.00		452.00	0.00
5.03	6.9	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 horizontal run)	Rm	26.00	80.00		2080.00	0.00
5.04	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)	Rm	26.00	162.00		4212.00	0.00
5.05	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	4.00	121.00		484.00	0.00
5.06	6.15	Laying copper/ G.I. tape 32 mm X 6 mm from earth electrode directly in ground as required	Rm	26.00	75.00		1950.00	0.00
		TOTAL OF SUBHEAD - V					10214.00	0.00
		TOTAL (I TO IV)					346283.00	256457.14
		G. TOTAL (I TO IV)						602740.14

DETAIL ESTIMATE OF PHASE-A & B WORK AT JNV RAMBAN , JAMMU AND KASHMIR

ABSTRACT OF COST								
[VICE PRINCIPAL RESIDENCE]								
S.N.	DESCRIPTION OF ITEM	DSR 2021	QUANTITY	UNIT	RATES	AMOUNT DSR ITEM	AMOUNT [M.R. ITEM]	Remark
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	99.23	CUM	286.85	28462.69		
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 up to 50 m and lift upto 1.5 m.	2.25	39.69	CUM	253.95	10079.28		
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	4.28	CUM	6050.65	25896.78		
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).							
(I)	Upto plinth level							
	(i) R.C.C. work in Footing	5.33.1	11.61	CUM	7997.30	92847.84		
	(ii) R.C.C. work in Beam	5.33.1	11.26	CUM	7997.30	90049.60		
	(iii) R.C.C. work in Columns	5.33.1	5.57	CUM	7997.30	44544.96		
	(iii) R.C.C. work in Grade Slab	5.33.1	10.03	CUM	7997.30	80212.92		
(II)	Above plinth to floor-V lvl							
	Same as above but R.C.C. work above plinth Lvl.							
	(i) R.C.C. work in Lintel	5.33.2	0.06	CUM	10080.15	604.81		
	(ii) R.C.C. work in Beam	5.33.2	6.28	CUM	10080.15	63293.26		
	(iii) R.C.C. work in Columns	5.33.2	5.16	CUM	10080.15	52013.57		
	(iv) R.C.C. work in Slab	5.33.2	11.22	CUM	10080.15	113099.28		
5	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	3056.23	kg	89.65	273991.39		
6	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	1985.97	kg	89.65	178042.34		
7	Add for plaster drip course/ groove in plastered surface or moulding to R.C.C. projections.	5.30	10.46	meter	64.70	676.76		
8	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	30.38	SQM	307.95	9353.98		
(b)	Suspended floors, roofs, landings, balconies and access platform.	5.9.3	172.30	SQM	766.55	132076.57		
(c)	Lintels, beams, plinth beams, girders, bressumers and cantilevers.	5.9.5	199.80	SQM	608.35	121548.33		

(d)	Columns,Pillars, Piers, Abutments, Posts and Struts.	5.9.6	119.25	SQM	804.25	95906.81		
9	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 6.1.2	3.18	CUM	6658.25	21173.24		
10	Providing and laying autoclaved aerated cement blocks masonry with 150mm/230mm/300 mm thick AAC blocks in super structure above plinth level up to floor V level with RCC band at sill level and lintel level with approved block laying polymer modified adhesive mortar all complete as per direction of Engineer-in-Charge. (The payment of RCC band and reinforcement shall be made for seperately).	6.47	15.27	CUM	6994.15	106789.50		
11	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	51.09	Sqm	1018.05	52012.17		
12	Extra for providing and placing in position 2 Nos 6mm dia. M.S. bars at every third course of half brick masonry.	6.15	51.09	SQM	86.45	4416.73		
13	Providing and laying four courses water proofing treatment with bitumen felt over roofs consisting of first and third courses of blown bitumen 85/25 or 90/15 conforming to IS : 702 applied hot @ 1.45 Kg per square metre of area for each course, second course of roofing felt type 3 grade-I (hessian based self finished bitumen felt) and fourth and final course of stone grit 6 mm and down size or pea sized gravel spread at 6 cubic decimeter per square metre, including preparation of surface but excluding grading complete with :	22.8						
	Bitumen felt (hessian base) type 3 grade I conforming to IS : 1322	22.8.1	79.98	SQM	432.10	34559.36		
14	Grading roof for water proofing treatment with Cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20mm nominal size)	22.14 22.14.1	4.01	CUM	7510.75	30118.11		
15	Providing and fixing 35 mm thick factory made laminated veneer lumber door shutter conforming to IS : 14616 and TADS 15:2001 (Part B), including ISI marked M.S. pressed butt hinges bright finished of required size with necessary screws, all complete as per directions of Engineerin- charge and panelling with panels of : 12 mm thick one side Pre-laminated particle board (decorative lamination on one side and other sides balancing lamination) grade -1, medium density flat pressed, three layer particle board FPT - I or graded wood particle board FPT-1 conforming to IS : 3087 bonded with BWP type synthetic resin adhesive as per IS : 848 and pre-laminated conforming to IS : 12823, Grade -1, Type II marked :	9.6.3	15.33	SQM	3070.05	47063.87		
16	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	15.33	SQM	401.40	6153.46		
17	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	154.77	KG	114.65	17744.38		
18	Providing and fixing factory made uPVC white colour fixed glazed windows/ ventilators comprising of uPVC multi-chambered frame and mullion (where ever required) extruded profiles duly reinforced with 1.60 ± 0.2 mm thick galvanized mild steel section made from roll forming process of required length (shape & size according to uPVC profile), , uPVC extruded glazing beads of appropriate dimension. FRM socket Glazing	9.147						
	Fixed window / ventilator made of (small series) frame 47 x 50 mm & mullion 47 x 68 mm both having wall thickness of 1.9 ± 0.2 mm and single glazing bead of appropriate dimension.	9.147B.1	1.77	SQM	7249.90	12837.76		
19	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	1.31	SQM	940.30	1227.09		
20	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 :							
	30 mm thick shutters with ISI marked M.S. pressed butt hinges bright finished of required size Second class teak wood	9.27.2.1.1	1.89	SQM	4489.45	8485.06		
21	Providing and fixing factory made uPVC white colour sliding glazed window upto 1.50 m in height dimension comprising of uPVC multi-chambered frame with in-built roller track and sash extruded profiles duly reinforced with 1.60 ± 0.2 mm thick	9.147						
	Three track three panels sliding window with fly proof S.S wire mesh (Two nos. glazed & one no. wire mesh panels) made of (big series) frame 116 x 45 mm & sash 46 x 62 mm both having wall thickness of 2.3 ± 0.2 mm and single glazing bead / double glazing bead of appropriate dimension. (Area of window above 1.75 sqm).	9.147D.4	14.28	SQM	9642.60	137732.49		
22	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	84.43	SQM	339.10	28629.62		
23	12 mm cement plaster of mix :1:6 (1 cement: 6 coarse sand)	13.4.2	220.03	SQM	294.35	64766.20		
24	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	69.40	SQM	1416.65	98315.51		
25	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	10.03	SQM	1466.50	14714.86		

26	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. Area of slab upto 0.50 sqm	8.2.2.1	3.94	SQM	4679.35	18437.57		
27	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.	11.37	10.77	SQM	935.60	10076.41		
28	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	51.02	SQM	1063.45	54259.35		
29	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.	8.3.2	5.37	RM	418.85	2247.97		
	Granite work							
30	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	5.37	RM	475.55	2552.28		
31	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	808.15	808.15		
32	Steel Painting:							
	(a) With ready mixed red oxide zink chromate primer of approved brand and manufacture on steel galvanised iron/steel works.	13.50.3	10.77	SQM	55.50	597.74		
	(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	10.77	SQM	131.45	1415.72		
33	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	220.03	SQM	162.55	35766.08		
34	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	84.43	SQM	162.35	13706.93		
35	Providing and fixing ISI marked oxidised M.S. single acting spring hinges	9.59						
	150 mm	9.59.1	14.00	NOS	251.70	3523.80		
36	Providing and fixing oxidised M.S. hasp and staple (safety type)	9.67						
	90 mm	9.67.3	14.00	NOS	22.10	309.40		

37	Providing and fixing special quality bright finished brass cupboard or ward robe locks with four levers of approved quality	9.79						
	75 mm	9.79.4	6.00	NOS	333.15	1998.90		
38	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.	9.111						
	50x50 mm (base and height)	9.111.1	19.96	meter	310.40	6195.58		
39	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 :	9.96						
	250x16 mm	9.96.2	24.00	NOS	234.90	5637.60		
40	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 :	9.97						
	200x10 mm	9.97.3	24.00	NOS	90.80	2179.20		
41	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 :	9.100						
	125 mm	9.100.1	24.00	NOS	60.05	1441.20		
42	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	24.00	NOS	62.25	1494.00		
43	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.	9.20						
	25 mm thick (for cupboard) including ISI marked nickel plated bright finished M.S. Piano hinges IS : 3818 marked with necessary screws	9.20.3	8.15	SQM	2512.35	20475.65		
44	Providing and fixing Pre-laminated flat pressed 3 layer (medium density) particle board or graded wood particle board IS : 3087 marked, with one side decorative and other side balancing lamination Grade I, Type II exterior grade IS : 12823 marked, in shelves with screws and fittings wherever required, edges to be painted with polyurethane primer (fittings to be paid separately).	9.18.1	4.56	SQM	1089.30	4969.33		
45	Float glass panes 5.0 mm thick glass panes (weight not less than 12.50 kg/sqm).		14.284	SQM	2231.20	31869.90		
					TOTAL	2319403.35		
					Say Rs. In Lacs	23.19		

DETAIL ESTIMATE OF PHASE-A WORK AT JNV RAMBAN , JAMMU AND KASHMIR			
SUMMARY OF COST FOR INTERNAL PLUMBING & SANITATION WORK (VICE PRINCIPAL RESIDENCE)			
S.NO	NAME OF SUB-HEAD	AMOUNT	
		DSR-2021	NON-DSR
1	SANITARY FIXTURES	33900.60	32440.00
2	TOILET REQUISIES	5622.45	9120.00
3	SOIL , WASTE, VENT AND RAIN WATER PIPES AND FITTINGS	1066.40	44970.00
4	WATER SUPPLY PIPES AND FITTINGS	78772.70	5705.00
	Total C/F To Summary	119362.15	92235.00
	say in lacs	1.19	0.92

DETAIL ESTIMATE OF PHASE-A WORK AT JNV RAMBAN , JAMMU AND KASHMIR						
BILL OF QUANTITIES FOR PLUMBING WORKS (VICE PRINCIPAL RESIDENCE)						
S. No	DSR-2021	DESCRIPTION	UNIT	TOTAL QTY	RATE (in Rs)	AMOUNT (in Rs)
I SUB HEAD (I) :- SANITARY FIXTURES (DSR ITEMS)						
1	17.2	Providing and fixing white vitreous china pedestal type water closet (European type W.C. pan) with seat and lid, 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.				
	17.2.1	W.C. pan with ISI marked white solid plastic seat and lid	each	3.00	5540.55	16621.65
2	17.28	Providing and fixing P.V.C. waste pipe for sink or wash basin including PVC waste fittings complete.				
	17.28.2	Flexible Pipe				
	17.28.2.2	40 mm dia (for sink and urinal)	each	4.00	104.35	417.40
3	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 250 mm	each	1.00	6008.45	6008.45
4	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 required				
	17.7.4	White Vitreous china wash basin size 550x400 mm with single 15 mm C.P. brass pillar tap	each	3.00	2731.45	8194.35
5	17.22A	Providing and fixing CP Brass 32mm size Bottle Trap of bapproved quality & make and as per the direction of Engineerin- charge.	each	3.00	886.25	2658.75
TOTAL SUB HEAD (I) (DSR'18)						33900.60
SUB HEAD (I) :- SANITARY FIXTURES (NON DSR ITEMS)						
1	MR	Providing & fixing C.P. Brass health faucet for ablution with 1 meter long PVC tube, hand shower, couplings, wall hook and other accessories.	each	3.00	1680.00	5040.00
2	MR	Providing & fixing CP brass Overhead shower with shower arm, Hand Shower 95mm dia Single Lever Concealed Deusch Mixer with Provision for Connection to Overhead Shower and Easy flex Tube with accessories complete I all respect	each	3.00	8400.00	25200.00
3	MR	Providing & fixing C.P. Brass Waste Coupling for PVC waste Pipe.	each	4.00	550.00	2200.00
TOTAL SUB HEAD (I) (NON-DSR)						32440.00
II SUB HEAD (II) :- TOILET REQUISIES (DSR'18)						
1	17.31	Providing & Fixing 600 X 450 mm bevelled edge mirror of superior glass (of approved quality) complete with 6mm thick hard board ground fixed to wooden cleats with C.P. brass screws and washers complete.	each	3.00	1411.15	4233.45
2	17.34	Providing & fixing toilet paper holder .				
	17.34.2	viterous china	each	3.00	463.00	1389.00
TOTAL SUB HEAD (II) (DSR'18)						5622.45
SUB HEAD (II) :- TOILET REQUISIES (NON-DSR)						
1	MR	Providing and fixing of C. P. brass towel rail 600 x 20 mm size complete with C.P. brass brackets	each	3.00	1295.00	3885.00
2	MR	Providing and fixing of C. P. brass towel ring complete with C.P. brass brackets	each	3.00	1145.00	3435.00
3	MR	Providing and fixing CP Brass soap dish 109 mm wide, 125 mm high and 112 mm distance from wall of standard shape with bracket and all fittings of the same material of approved quality and colour.	each	3.00	600.00	1800.00
TOTAL SUB HEAD (II) (NON-DSR)						9120.00
SUB HEAD (III) :- SOIL , WASTE, VENT AND RAIN WATER PIPES AND FITTINGS (NON DSR)						

S. No	DSR-2021	DESCRIPTION	UNIT	TOTAL QTY	RATE (in Rs)	AMOUNT (in Rs)
1		Providing, fixing, jointing and testing in position of ISI marked UV stabilized UPVC pipes for soil, waste, and vent, Type-B as per IS : 13592 suitable for rubber ring joints, including all necessary specials and fittings (confirming to IS:14735) i.e. bends, tees, junctions (with or without doors), reducers, WC connectors, couplers, expansion joints / bellows, cowels, clamps, rubber rings, clean outs etc. fixing at wall/ ceiling/ floor level supported by clamp & hangers etc. in concealed / inside duct / under floor & basement ceiling / external work etc. including chase cutting as required, excavation and back filling in all kind of soils, suspended from floor under false ceiling or embedding the pipes laid under floors / building in 75 mm. around 1:2:4 cement concrete (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) including cost of shuttering for proper completion of the work, breaking and making good the walls and floors etc. after pipes have been duly laid and tested. The rubber ring shall confirm to IS:5382.				
		The Pipes will be supported with threaded G I rods & U clamps with nuts, washers etc on 50x50x5 mm slotted angle. The cost will include all support arrangements. The work includes commissioning of all pipes lines as per drawings and specifications and as directed by engg-in-charge at site.				
	MR	110 mm dia (Wall Thickness - 3.2 to 3.8 mm)	metre	40.00	485.00	19400.00
	MR	75 mm dia (Wall Thickness - 3.2 to 3.8 mm)	metre	10.00	320.00	3200.00
2		Providing, fixing, jointing and testing in position ISI marked (IS:4985) UPVC pipes of min 6 Kg/ Sqcm rating with fitting for waste pipe from fixtures to floor trap including reduces, enlarger, socket, couplers, bends, tees etc including fixing at wall/ ceiling level supported by clamp & hangers etc. cutting holes in wall/ floors/ slabs and making good the same with cement concrete 1:2:4 complete as required.				
	MR	32 mm dia.	metre	10.00	95.00	950.00
3		Providing & fixing UPVC Floor trap of self cleansing design with stainless steel grating complete in all respects.				
	MR	Multi Floor Trap (5" Ht) with height raiser and branch saddle strip of 50/75 mm outlet	each	3.00	365.00	1095.00
	MR	P-Trap type Floor Trap 110 x 75 mm	each	5.00	345.00	1725.00
4	MR	Extra for providing & fixing 125 mm dia C.P. grating in place of C.I. grating over floor traps.	each	5.00	120.00	600.00
6		Providing, fixing, jointing and testing in position of ISI marked UV stabilized UPVC pipes for rain water disposal, Type-B as per IS : 13592 suitable for rubber ring joints, including all necessary specials and fittings (confirming to IS:14735) i.e. bends, tees, junctions (with or without doors), reducers, couplers, expansion joints / bellows, cowels, clamps, rubber rings, MS gratings over pipes of bell mouth construction with epoxy painting etc. fixing at wall/ ceiling/ floor level supported by clamp & hangers etc. in concealed / inside duct / under floor / external work etc. including chase cutting as required, excavation and back filling in all kind of soils, suspended from floor under false ceiling or embedding the pipes laid under floors / building in 75 mm. around 1:2:4 cement concrete (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) including cost of shuttering for proper completion of the work, breaking and making good the walls and floors etc. after pipes have been duly laid and tested. The rubber ring shall confirm to IS:5382.				
		The Pipes will be supported with threaded G I rods & clamps on 50x50x5 mm slotted angle. The cost will include all support arrangements. The work includes commissioning of all pipes lines as per drawings and specifications and as directed by engg-in-charge at site.				
	MR	110 mm dia	metre	40.00	450.00	18000.00
		TOTAL SUB HEAD (III) (NON-DSR)				44970.00
		SUB HEAD (III) :- SOIL , WASTE, VENT AND RAIN WATER PIPES AND FITTINGS (NON DSR)				
1	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	4.00	266.60	1066.40
		TOTAL SUB HEAD (III) (DSR-18)				1066.40

S. No	DSR-2021	DESCRIPTION	UNIT	TOTAL QTY	RATE (in Rs)	AMOUNT (in Rs)
IV	SUB HEAD (IV) :- WATER SUPPLY PIPES AND FITTINGS (DSR)					
1	18.21	Providing & fixing 15 mm nominal bore 45 cm long unplasticised PVC connection pipe with brass unions.				
	18.21.2	45 cm length				
	18.21.2.1	15 mm nominal bore	each	10.00	85.20	852.00
2	18.49	Providing and fixing C.P brass bib cock of approved quality conforming to IS standards IS: 8931.				
	18.49.1	15 mm nominal bore	each	3.00	434.20	1302.60
3	18.50	Providing and fixing C.P brass long nose bib cock of approved quality conforming to IS standards and weighing not less than 810 gms.				
	18.50.1	15 mm nominal bore	each	1.00	715.05	715.05
4	18.53	Providing & fixing 15 mm nominal bore C.P brass Angle valve for basin mixer and geyser points of approved quality conforming to IS 8931.				
	18.53.1	15 mm nominal bore	each	10.00	500.35	5003.50
5	18.32	Constructing brick masonry chamber 300 x 300 x 500 mm, inside with F.P.S. brick work in cement mortar 1: 4 (1 cement : 4 coarse sand) for Stop Cock , with C. I. surface box 100 x 100 x 75 mm (inside) with hinged cover fixed in cement concrete slab 1:2:4mix (1cement : 2 coarse sand:4 grade stone aggregate 20mm nominal size); necessary excavation, foundation concrete 1:5:10 (1 cement :5 fine sand: 10 graded stone aggregate 40mm nominal size) and inside plastering with cement mortar 1 : 3 (1 cement : 3 coarse sand) 12 mm thick finished with a floating coat of neat cement complete as per standard design				
	18.32.1	With common burnt clay F.P.S.(non modular) bricks of class designation 7.5	each	1.00	1712.15	1712.15
6	18.46	Providing & Fixing G.I. Unoun in G.I. pipe including cutting and threading the pipe & making long screws etc. complete.				
	18.46.1	15mm dia nominal bore	each	1.00	262.30	262.30
	18.46.2	20mm dia nominal bore	each	3.00	289.05	867.15
	18.46.3	25mm dia nominal bore	each	2.00	369.35	738.70
	18.46.4	32mm dia nominal bore	each	4.00	409.45	1637.80
	18.46.5	40mm dia nominal bore	each	3.00	706.70	2120.10
7	18.76	Cutting holes up to 30 X 30 cm in walls including making good the same:				
	18.76.1	With common burnt clay F.P.S. (non modular) bricks	each	8.00	362.40	2899.20
8	18.7	Providing, fixing chlorinated polyvinyl Chloride (CPVC) pipes CTS-SDR 11, class-1 CPVC Pipes (pressure rating 28 kg/cm ² at 23oC and 7 kg/cm ² at 82oC) confirming to IS : 15778-2007, ASTM D-2846, having thermal stability for hot and cold water supply including all CPVC plain and brass threaded fittings including fixing the pipes 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.				
	Internal work exposed on wall					
	18.7.2	20mm nominal outer dia pipes	metre	30.00	325.10	9753.00
	18.7.3	25mm nominal outer dia pipes	metre	30.00	408.55	12256.50
	18.7.4	32mm nominal outer dia pipes	metre	8.00	500.95	4007.60
	18.7.5	40mm nominal outer dia pipes	metre	8.00	674.35	5394.80
9	18.8	Providing, fixing chlorinated polyvinyl Chloride (CPVC) pipes CTS-SDR 11, class-1 CPVC Pipes (pressure rating 28 kg/cm ² at 23oC and 7 kg/cm ² at 82oC) confirming to IS : 15778-2007, ASTM D-2846, having thermal stability for hot and cold water supply including all CPVC plain and brass threaded fittings including fixing the pipes 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 chase and making good the wall etc.					
	18.8.1	15mm nominal outer dia pipes	metre	35.00	441.15	15440.25
	18.8.2	20mm nominal outer dia pipes	metre	8.00	513.75	4110.00
10	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.				
	18.48B	Circular tank	Per Ltr	1000.00	9.70	9700.00

S. No	DSR-2021	DESCRIPTION	UNIT	TOTAL QTY	RATE (in Rs)	AMOUNT (in Rs)
		TOTAL SUB HEAD (IV) (DSR'18)				78772.70
		SUB HEAD (IV) :- WATER SUPPLY PIPES AND FITTINGS (NON-DSR)				
1		Providing & fixing of hand lever operated forged brass body full way ball valve type isolating valve having forged brass hard chrome plated mirror finish ball, steel handle with PVC grip, teflon seat, screwed ends tested to a pressure of 15 kg/sqcm complete.				
	MR	15 mm nominal bore	each	1.00	470.00	470.00
	MR	20 mm nominal bore	each	1.00	600.00	600.00
	MR	25 mm nominal dia	each	1.00	825.00	825.00
	MR	40 mm nominal bore	each	1.00	1950.00	1950.00
2		Providing & fixing brass ball float valve with bronze floats of approved quality complete.				
	MR	20 mm nominal dia	each	1.00	1060.00	1060.00
3		Providing & fixing of medium class G.I.spout up to 300 mm. length including cutting and making good the walls and floors etc. as required.				
	MR	a) 25 mm dia	each	10.00	80.00	800.00
		TOTAL SUB HEAD (IV) (NON-DSR)				5705.00

DETAIL ESTIMATE OF PHASE-A WORK AT JNV RAMBAN , JAMMU AND KASHMIR

SUMMARY OF COST FOR ELECTRICAL WORKS (VICE PRINCIPAL RESIDENCE)

S. No	DESCRIPTION	AMOUNT	
		DSR-2022	NON-DSR
I	INTERNAL WIRING	172011.00	
II	DISTRIBUTION BOARDS & MCB's	24464.00	3430.00
III	TELEPHONE, TELEVISION & DATA SYSTEM	24631.00	
IV	MISCELLANEOUS	1673.40	
V	INTERNAL LIGHTING FIXTURES & FANS	6512.00	44900.00
VI	LIGHTNING CONDUCTOR	10612.00	
	Total C/F To Summary	239903.40	48330.00
	SAY IN LACS	2.40	0.48

DETAIL ESTIMATE OF PHASE-A WORK AT JNV RAMBAN , JAMMU AND KASHMIR

BILL OF QUANTITIES FOR ELECTRICAL WORKS (VICE PRINCIPAL RESIDENCE)						
S.No	DSR-2022	DESCRIPTION	UNIT	Quantity	RATE (in Rs)	AMOUNT (in Rs)
I		SUB HEAD (I) :- INTERNAL WIRING				
1		Point wiring in PVC conduit, with modular type switch :-				
	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.				
	1.10.2	Group B	Point	30.00	1182.00	35460.00
	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.				
	1.55.2	Group B	Point	4.00	753.00	3012.00
2		Twin Control Point wiring in PVC conduit, with modular type switch :-				
	1.11	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	1562.00	1562.00
3		Power plug wiring in PVC conduit (2 x 4 Sq.Mm.) :-				
	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	150.00	334.00	50100.00
4		Circuit / Sub main wiring in PVC conduit :-				
	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.				
	1.14.1	2 X 1.5 sq. mm + 1 X 1.5 sq. mm earth wire.	M	15.00	233.00	3495.00
	1.14.2	2 X 2.5 sq. mm + 1 X 2.5 sq. mm earth wire.	M	150.00	275.00	41250.00
	1.14.4	2 x 6 sq.mm. + 1 x 6 sq.mm. Earth wire	M	30.00	439.00	13170.00
	1.14.5	2 x 10 sq.mm. + 1 x 6 sq.mm. Earth wire	M	20.00	570.00	11400.00
	1.14.10	4 x 10 sq.mm. + 2 x 6 sq.mm. Earth wire	M	1.00	1005.00	1005.00
6		S/F light plug point Modular type accessories :-				
	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	5.00	477.00	2385.00
7		S/F power plug point modular type accessories :-				
	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	6.00	586.00	3516.00
8	2.18	Supplying and fixing 20 amps , 240 volts, SPN, industrial type socket outlet, with 2 poles and earth metal enclosed plug top along with 20 amps. "C" curve, SP MCB 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	3242
9		S/F modular type electronic fan regulator :-				

	1.25	Supply 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	6.00	369.00	2214
10		S/F modular type blanking plate :-				
	1.26	Supply and fixing modular blanking plate on the existing modular plate & switch box excluding modular plate as required.	Each	5.00	40.00	200.00
		TOTAL SUB HEAD (I)				172011.00
II		SUB HEAD (II) :- DISTRIBUTION BOARDS & MCB's				
1	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)				
	2.3.2	8 way , Double door	Each	1.00	2573.00	2573.00
2	2.4	Supplying and fixing following way, horizontal type TP&N, 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 / Isolators).				
	2.4.3	8 way (4 + 24), Double door	Each	1.00	5967.00	5967.00
4	2.14	Supplying and fixing following rating, double pole , (single phase and neutral), 240 volts, residual current circuit breaker (RCCB) , having a sensitivity current upto 30 mA in the existing MCB DB complete with connections, testing and commissioning etc. as required.				
	2.14.3	63 amps.	Each	3.00	2722.00	8166.00
5	2.10	Supplying and fixing 5 amps. to 32 amps. rating, 240 volts 'C' series, miniature circuit breaker (MCB) 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	30.00	256.00	7680.00
6	2.11	Supplying & fixing single pole, blanking plate in the existing MCB DB complete etc. as required.	Each	6.00	13.00	78.00
		TOTAL SUB HEAD (II)				24464.00
3		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	63 amps FP MCB	Each	1.00	1710.00	1710.00
	NDSR	40 amps DP MCB	Each	2.00	860.00	1720.00
		TOTAL SUB HEAD (II)				3430.00
III		SUB HEAD (III) :- TELEPHONE, TELEVISION & DATA SYSTEM				
1		S/F MODULAR BOXES, BASE & COVER PLATE :-				
	1.27	Supplying and fixing following size / modules, GI box along with modular base & cover plate for modular switches in recess etc as required				
	1.27.1	1 or 2 Module (75 mm x 75 mm)	Each	6.00	298.00	1788.00
2		S/F MODULAR TYPE SWITCH / SOCKET :-				
	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				
	1.24.6	Telephone Socket outlet	Each	3.00	148.00	444.00
	1.24.7	TV Antenna socket outlet	Each	3.00	148.00	444.00
3	1.21	Supply 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 :				

	1.21.1	20 mm.	M	110.00	128.00	14080.00
	1.21.2	25 mm.	M	25.00	145.00	3625.00
4	1.18	Supply and drawing following pair, 0.5 sq.mm. FRLS PVC insulated annealed copper conductor, unarmoured telephone cable in the existing surface / recessed steel/ PVC conduit as required.				
	1.18.2	2 Pair	M	50.00	38.00	1900.00
5	1.19	Supply 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.	M	50.00	47.00	2350.00
		TOTAL SUB HEAD (III)				24631.00
IV		SUB HEAD (IV) :- MISCELLANEOUS				
1	2.21	Providing and fixing M.V. danger notice plate 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 call bell/buzzer suitable for single phase, 230 volts, complete as required.	NOS	3.00	99.00	297.00
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	7.00	158.20	1107.40
		TOTAL SUB HEAD (IV)				1673.40
V		SUB HEAD(V):-INTERNAL LIGHTING FIXTURES & FANS SUPPLY OF LIGHTING FIXTURES				
1	NDSR	Supply of 15W SURFACE MOUNTED LED with all accessories as per standard item..(Such as Panasonic ADL04R156 or Equivalent).	Each	2.00	1840.00	3680.00
2	NDSR	Supply of 15W WALL BRACKET LED BULB with all accessories as per standard item..(Such as Panasonic PBUM01157 or Equivalent).	Each	4.00	270.00	1080.00
3	NDSR	Supply of 20W SURFACE MOUNTED LED with all accessories as per standard item..(Such as Panasonic ADL04R206 or Equivalent).	Each	10.00	550.00	5500.00
4	NDSR	Supply of 20W SURFACE MOUNTED LED TUBE with all accessories as per standard item..(Such as Panasonic PBTM01207 or Equivalent).	Each	3.00	2300.00	6900.00
		SUPPLY OF CEILING & EXHAUST FANS				
5	NDSR	Supply of AC 230/250 volts, 50 HZ ceiling fan 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). 1200 mm sweep	Nos	6.00	2470.00	14820.00
6	NDSR	Supply of AC 230/250 volts, 50 HZ exhaust fans including providing nuts, bolts, mounting FRLSame and other accessories etc. Complete as required (Such as Ventil Air - DX White or Equivalent). 300 mm sweep 900 rpm	Nos	4.00	3230.00	12920.00
		TOTAL SUB HEAD (V)				44900.00
		ERECTION OF LIGHTING FIXTURES AND FANS				
1	1.41	Installation, testing and commissioning of pre-wired, flourescent fitting / compact flourescent 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	13.00	206.00	2678.00

2	1.45	Installation, testing and commissioning of ceiling fan 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	6.00	339.00	2034.00
3	1.50	Installation of exhaust fan in the existing opening, including making good the damage, connection, testing, commissioning etc. as required				
	1.50.1	Upto 450 mm sweep	Each	4.00	450.00	1800.00
		TOTAL SUB HEAD (V)				6512.00
		SUB HEAD(VI):-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	2.00	518.00	1036.00
2	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	4.00	113.00	452.00
3	6.9	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 horizontal run)	Rm	30.00	80.00	2400.00
4	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)	Rm	20.00	162.00	3240.00
5	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	4.00	121.00	484.00
6	6.15	Laying copper/ G.I. tape 32 mm X 6 mm from earth electrode directly in ground as required	Rm	40.00	75.00	3000.00
		TOTAL SUB HEAD (VI)				10612.00

**DETAIL ESTIMATE OF PHASE-A & B WORK AT JNV RAMBAN , JAMMU AND
KASHMIR**

GUEST HOUSE

SUMMARY OF COST (CIVIL WORK)

S. No.	Description	Amount (Rs.)
1	EARTH WORK	19,939.57
2	CONCRETE WORK	11,697.58
3	REINFORCED CEMENT CONCRETE	954,625.36
4	BRICK WORK	147,562.07
5	MARBLE WORK	10,569.58
6	WOOD WORK & PVC WORK	209,420.25
7	STEEL WORK	235,060.43
8	FLOORING	111,109.67
9	ROOFING	1,066.40
10	FINISHING	134,317.44
11	WATER PROOFING	59,724.38
	Sub Total	1,895,092.71

DETAIL ESTIMATE OF PHASE-A & B WORK AT JNV RAMBAN , JAMMU AND KASHMIR

GUEST HOUSE

ABSTRACT OF COST (CIVIL WORKS)

S. No.	Ref. No	Description	Unit	Quantity	DSR 21 Rate	Amount (Rs.)
1	2	3	4	8	9	10
1.0	2	EARTH WORK				
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	51.33	286.85	14,725.09
						-
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	20.53	253.95	5,214.48
		Total of sub-head				19,939.57
2.0	4	CONCRETE WORK				
2.01	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	1.84	6,050.65	11,119.20
						-
2.02	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	0.06	9565.10	578.37
		Total of sub-head				11,697.58
3.0	5	REINFORCED CEMENT CONCRETE				
3.01	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	15.26	307.95	4,697.78
b)	5.9.6	Columns, Pillars, Piers, Abutments, Posts and Struts	Sqm	66.83	804.25	53,744.01
c)	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	0.53	307.95	161.92
d)	5.9.16	Edges of slabs and breaks in floors and walls				
e)	5.9.16.1	Under 20 cms wide	Metre	32.00	181.90	5,820.80
f)	5.9.3	Suspended floors, roofs, landings, balconies and access platform.	Sqm	110.00	766.55	84,317.49
g)	5.9.5	Lintels, beams, plinth beams, girders, bressumers and cantilevers.	Sqm	137.00	608.35	83,343.95
						-
3.02	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	4,135.00	89.65	370,702.75
						-
3.03	5.30	Add for plaster drip course/ groove in plastered surface or moulding to R.C.C. projections.	Metre	7.45	64.70	482.02

S. No.	Ref. No	Description	Unit	Quantity	DSR 21 Rate	Amount (Rs.)
3.04	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	22.84	7,997.30	182,656.18
(ii)	5.33.2	All works above plinth level upto floor V level	Cum	16.74	10,080.15	168,698.47
		Total of sub-head				954,625.36
4.0	6	BRICK WORK				
4.01	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	0.95	6,658.25	6,350.47
4.02	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	13.80	6,994.15	96,491.28
						-
4.03	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	40.49	1,018.05	41,220.03
4.04	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	40.49	86.45	3,500.29
		Total of sub-head				147,562.07
5.0	8	MARBLE WORK				
5.01	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)	8.2.2	Granite of any colour and shade				
(i)	8.2.2.2	Area of slab over 0.50 sqm	Sqm	1.65	4,425.35	7,301.83
						-
5.02	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)	8.3.2	Granite work	Metre	2.75	418.85	1,151.84
						-
5.03	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	2.75	475.55	1,307.76
5.04	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	808.15	808.15
		Total of sub-head				10,569.58
6.0	9	WOOD WORK & PVC WORK				
6.01	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	0.10	131,576.95	13,026.12

S. No.	Ref. No	Description	Unit	Quantity	DSR 21 Rate	Amount (Rs.)
6.02	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	3.00	148.50	445.50
6.03	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	5.04	2,512.35	12,662.24
6.04	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	13.26	2,015.75	26,728.85
6.05	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	18.30	401.40	7,345.62
6.06	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	5.88	3,140.15	18,464.08
6.07	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)	9.96.2	250x16 mm	Each	7.00	234.90	1,644.30
6.08	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)	9.97.4	200x10 mm	Each	7.00	75.55	528.85
6.09	9.1	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	7.00	60.05	420.35
6.10	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	7.00	62.25	435.75
6.11	9.127	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.				
	9.127.1	1.5 mm thick	sqm	3.15	890.55	2,805.23
6.12	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 IInd 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	5.04	1,668.30	8,408.23

S. No.	Ref. No	Description	Unit	Quantity	DSR 21 Rate	Amount (Rs.)
6.13	9.147	Providing and fixing factory made uPVC white colour sliding glazed window upto 1.50 m in height dimension comprising of uPVC multi-chambered frame with in-built roller track and sash extruded profiles duly reinforced with 1.60 ± 0.2 mm thick galvanized mild steel section made from roll forming process of required length (shape & size according to uPVC profile), appropriate dimension of uPVC extruded glazing beads and uPVC extruded interlocks, EPDM gasket, wool pile, zinc alloy (white powder coated) touch locks with hook, zinc alloy body with single nylon rollers (weight bearing capacity to be 40 kg), G.I fasteners 100 x 8 mm size for fixing frame to finished wall and necessary stainless steel screws etc. Profile of frame & sash shall be mitred cut				
a)	9.147D.4	Three track three panels sliding window with fly proof S.S wire mesh (Two nos. glazed & one no. wire mesh panels) made of (big series) frame 116 x 45 mm & sash 46 x 62 mm both having wall thickness of 2.3 ± 0.2 mm and single glazing bead / double glazing bead of appropriate dimension. (Area of window above 1.75 sqm).	Sqm	8.13	9,642.60	78,358.18
6.14	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	10.00	251.70	2,517.00
6.15	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	10.00	22.10	221.00
6.16	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	8.00	333.15	2,665.20
6.17	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)	meter	20.80	310.40	6,456.32
6.18	9.7.7.2	Float glass panes 5.0 mm thick glass panes (weight not less than 12.50 kg/sqm).	Sqm	8.13	2231.20	18131.29
6.19	9.147	Providing and fixing factory made uPVC white colour fixed glazed windows/ ventilators comprising of uPVC multi-chambered frame and mullion (where ever required) extruded profiles duly reinforced with 1.60 ± 0.2 mm thick galvanized mild steel section made from roll forming process of required length (shape & size according to uPVC profile), uPVC extruded glazing beads of appropriate dimension, EPDM gasket, G.I fasteners 100 x 8 mm size for fixing frame to finished wall, plastic packers, plastic caps and necessary stainless steel screws etc. Profile of frame shall be mitred cut and fusion welded at all corners, mullion (if required) shall be also fusion welded including drilling of holes for fixing hardware's and drainage of water etc. After fixing frame the gap between frame and adjacent finished wall shall be filled with weather proof silicon sealant over backer rod of required size and of approved quality, all complete as per				
a)	9.147B.1	Fixed window / ventilator made of (small series) frame 47 x 50 mm & mullion 47 x 68 mm both having wall thickness of 1.9 ± 0.2 mm and single glazing bead of appropriate dimension.	Sqm	1.13	7,249.90	8,156.14
		Total of sub-head				209,420.25
7.00	10	STEEL WORK				
7.01	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	127.40	114.65	14,606.41
7.02	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	4.00	185.20	740.80
7.03	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	2.27	940.30	2,136.83
		Total of sub-head				235,060.43

S. No.	Ref. No	Description	Unit	Quantity	DSR 21 Rate	Amount (Rs.)
8.00	11	FLOORING				
8.01	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	meter	20.00	79.50	1,590.00
8.02	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	2.33	2,038.55	4,754.92
8.03	11.31	Extra for pre finished nosing in treads of steps of Kota stone/ sand stone slab.	Metre	1.87	157.35	294.56
8.04	11.32	Extra for Kota stone/ sand stone in treads of steps and risers using single length up to 1.05 metre.	Sqm	1.87	36.35	68.05
8.05	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	27.83	1,063.45	29,590.50
8.06	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	6.60	935.60	6,174.96
8.07	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	43.91	1,416.65	62,198.02
8.08	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	4.39	1,466.50	6,438.67
		Total of sub-head				111,109.67
9.00	12	ROOFING				
9.01	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	4.00	266.60	1,066.40
		Total of sub-head				1,066.40
10.00	13	FINISHING				
10.01	13.4	12 mm cement plaster of mix				-
a)	13.4.2	1:6 (1 cement: 6 coarse sand)	Sqm	112.22	294.35	33,031.66
10.02	13.5	15 mm cement plaster on rough side of single or half brick wall of mix:				-
a)	13.5.2	1:6 (1 cement: 6 coarse sand)	Sqm	129.03	339.10	43,754.89
10.03	13.37	White washing with lime to give an even shade :				
a)	13.37.1	New work (three or more coats)	Sqm	105.88	32.45	3,435.83
10.04	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	Sqm	187.03	162.55	30,401.99

S. No.	Ref. No	Description	Unit	Quantity	DSR 21 Rate	Amount (Rs.)
						-
10.05	13.47	Finishing walls with Premium Acrylic Smooth exterior paint withSilicone 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	55.00	162.35	8,929.25
10.06	13.50	Applying priming coat:				-
a)	13.50.1	With ready mixed pink or Grey primer of approved brand and manufacture on wood work (hard and soft wood)	Sqm	66.00	61.45	4,055.70
b)	13.50.3	With ready mixed red oxide zinc chromate primer of approved brand and manufacture on steel galvanised iron/ steel works	Sqm	12.00	55.50	666.00
						-
10.07	13.61	Painting with synthetic enamel paint of approved brand and manufacture to give an even shade :				-
a)	13.61.1	Two or more coats on new work	Sqm	76.40	131.45	10,042.12
		Total of sub-head				134,317.44
11.00	22	WATER PROOFING				
11.01	22.8	Providing and laying four courses water proofing treatment with bitumen felt over roofs consisting of first and third courses of blown bitumen 85/25 or 90/15 conforming to IS : 702 applied hot @ 1.45 Kg per square metre of area for each course, second course of roofing felt type 3 grade-I (hessian based self finished bitumen felt) and fourth and final course of stone grit 6 mm and down size or pea sized gravel spread at 6 cubic decimeter per square metre, including preparation of surface but excluding grading complete with :				-
	22.8.1	Bitumen felt (hessian base) type 3 grade I conforming to IS : 1322	Sqm	60.00	432.10	25,926.00
11.02	22.14	Grading roof for water proofing treatment with				
	22.14.1	Cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20mm nominal size)	Cum	4.50	7510.75	33,798.38
		Total of sub-head				59,724.38

DETAIL ESTIMATE OF PHASE-A & B WORK AT JNV RAMBAN , JAMMU AND KASHMIR		
GUEST HOUSE		
SUMMARY OF COST (SANITARY WORK)		
S. No.	DESCRIPTION	Amount
1	EARTH WORK	1,005.57
2	ROOFING	3,283.30
3	SANITARY INSTALLATIONS	125,434.30
4	WATER SUPPLY	43,239.30
5	SEWERAGE & DRAINAGE	11,247.20
	TOTAL	184,209.67

DETAIL ESTIMATE OF PHASE-A & B WORK AT JNV RAMBAN , JAMMU AND KASHMIR

GUEST HOUSE

ABSTRACT OF COST (SANITARY WORKS)

S. No.	Ref. No	Description	Unit	Qty	DSR 21 Rate	Amount (Rs.)
1	2	3	4	8	9	10
1.00	2.00	EARTH WORK				
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	1.17	286.85	334.27
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				
b)	2.10.1.2	Pipes, cables etc. exceeding 80 mm dia. but not exceeding 300 mm dia	Metre	1.00	417.35	417.35
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	1.00	253.95	253.95
		Total of sub-head				1005.57
2.00	12.00	ROOFING				
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	8.00	319.75	2558.00
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	1.00	119.95	119.95
ii)	12.42.5	Bend 87.5°				
a)	12.42.5.2	110 mm bend	Each	1.00	132.00	132.00
iii)	12.42.6	Shoe (Plain)				
a)	12.42.6.2	110 mm Shoe	Each	1.00	115.95	115.95
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	1.00	309.50	309.50

S. No.	Ref. No	Description	Unit	Qty	DSR 21 Rate	Amount (Rs.)
1	2	3	4	8	9	10
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	1.00	47.90	47.90
		Total of sub-head				3283.30
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 fixtures complete, including cutting and making good the walls and floors wherever required:				
a)	17.1.1	White Vitreous china Orissa pattern W.C. pan of size 580x440 mm with integral type foot rests	Each	2.00	5781.35	11562.70
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	2.00	2731.45	5462.90
3.03	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 :				
a)	17.10.1	Kitchen sink with drain board				
	17.10.1.1	510x1040 mm bowl depth 250 mm	Each	1.00	6008.45	6008.45
3.04	17.16	Extra for using coloured pedestal type W.C pan (European type) with low level cistern of same colour instead of white vitreous china W.C pan and cistern.	Each	1.00	167.25	167.25
3.05	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.	Each	2.00	1411.15	2822.30
3.06	17.34	Providing and fixing toilet paper holder :				
a)	17.34.2	Vitreous china	Each	4.00	463.00	1852.00
3.07	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	18.00	1077.40	19393.20
b)	17.35.2	75mm diameter				
i)	17.35.2.2	Centrifugally cast (spun) iron socketed pipe as per IS: 3989	Metre	7.00	1042.10	7294.70
3.08	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	2.00	308.45	616.90
b)	17.37.2	For 75 mm dia. pipe	Each	2.00	304.45	608.90
3.09	17.38	Providing and fixing bend of required degree with access door, insertion rubber washer 3 mm thick, bolts and nuts complete.				

S. No.	Ref. No	Description	Unit	Qty	DSR 21 Rate	Amount (Rs.)
1	2	3	4	8	9	10
a)	17.38.1	100 mm				
i)	17.38.1.2	Sand cast iron S&S as per IS - 3989	Each	4.00	597.60	2390.40
b)	17.38.2	75 mm				
i)	17.38.2.2	Sand cast iron S&S as per IS- 3989	Each	4.00	453.40	1813.60
3.10	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	4.00	439.75	1759.00
b)	17.39.2	75 mm				
i)	17.39.2.2	Sand cast iron S&S as per IS - 3989	Each	4.00	298.20	1192.80
3.11	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	1.00	439.75	439.75
b)	17.40.2	75 mm dia				
i)	17.40.2.2	Sand cast iron S&S as per IS - 3989	Each	1.00	405.25	405.25
3.12	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	2.00	731.40	1462.80
b)	17.43.1	75x75x75mm				
i)	17.43.1.2	Sand cast iron S&S as per IS - 3989	Each	2.00	573.80	1147.60
3.13	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	707.30	1414.60
b)	17.44.2	75x75x75mm				
i)	17.44.2.2	Sand cast iron S&S as per IS - 3989	Each	1.00	498.90	498.90
3.14	17. 55	Providing and fixing door piece, insertion rubber washer 3mm thick, bolts & nuts complete :				
a)	17.55.1	100 mm				
i)	17.55.1.2	Sand cast iron S&S as per IS - 3989	Each	2.00	611.00	1222.00
b)	17.55.2	75 mm				
i)	17.55.2.2	Sand cast iron S&S as per IS - 3989	Each	2.00	453.40	906.80
3.15	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	2.00	439.75	879.50
b)	17.56.2	75 mm				
i)	17.56.2.2	Sand cast iron S&S as per IS - 3989	Each	2.00	311.55	623.10
3.16	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	2.00	439.75	879.50
b)	17.57.2	75 mm				
i)	17.57.2.2	Sand cast iron S&S as per IS - 3989	Each	2.00	271.45	542.90
3.17	17. 58	Providing lead caulked joints to sand cast iron/centrifugally cast				
a)	17.58.1	100 mm	Each	10.00	549.65	5496.50
b)	17.58.2	75 mm	Each	10.00	466.40	4664.00
3.18	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	4.00	128.65	514.60
b)	17.59.2	75 mm	Each	4.00	80.10	320.40

S. No.	Ref. No	Description	Unit	Qty	DSR 21 Rate	Amount (Rs.)
1	2	3	4	8	9	10
3.19	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 :				
a)	17.60.1	100 mm inlet and 100 mm outlet				
i)	17.60.1.2	Sand Cast Iron S&S as per IS: 1729	Each	16.00	1403.45	22455.20
3.20	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 and pointing in cement mortar 1:4 (1 cement : 4 coarse sand) :				
a)	17.61.1	100 mm dia	Metre	5.00	615.70	3078.50
3.21	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	18.00	69.55	1251.90
b)	17.65.2	75 mm diameter pipe	Metre	7.00	52.90	370.30
3.22	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	3.00	109.70	329.10
3.23	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	2.00	325.10	650.20
3.24	17.71	Providing and fixing PTMT liquid soap container 109 mm wide, 125 mm high and 112 mm distance from wall of standard shape with bracket of the same materials with snap fittings of approved quality and colour, weighing not less than 105 gms.	Each	2.00	146.30	292.60
3.25	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.				
a)	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.	Each	2.00	600.35	1200.70
3.26	18.12	Providing and fixing G.I. pipes complete with G.I. fittings including trenching & refilling.				
		External work				
	18.12.4	32mm dia nominal bore	Metre	25.00	457.70	11442.50
		Total of sub-head				125434.30
4.00	18.00	WATER SUPPLY				

S. No.	Ref. No	Description	Unit	Qty	DSR 21 Rate	Amount (Rs.)
1	2	3	4	8	9	10
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.				
		Internal work - Exposed on wall				
a)	18.7.3	25 mm nominal outer dia Pipes metre	Metre	10.00	408.55	4085.50
b)	18.7.4	32 mm nominal outer dia Pipes metre	Metre	5.00	500.95	2504.75
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	10.00	441.15	4411.50
b)	18.8.2	20 mm nominal outer dia Pipes	Metre	20.00	513.75	10275.00
4.03	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	2.00	757.10	1514.20
4.04	18.16	Providing and fixing brass stop cock of approved quality :				
a)	18.16.1	15 mm nominal bore	Each	2.00	303.85	607.70
b)	18.16.2	20 mm nominal bore	Each	2.00	327.95	655.90
4.05	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	2.00	532.35	1064.70
b)	18.17.2	32mm nominal bore	Each	1.00	589.9	589.90
c)	18.17.3	40mm nominal bore	Each	1.00	707.30	707.30
4.06	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	1.00	399.15	399.15
4.07	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	2.00	447.00	894.00
4.08	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	85.20	340.80
4.09	18.22	Providing and fixing C.P. brass shower rose with 15 or 20 mm inlet :				
a)	18.22.1	100 mm diameter	Each	2.00	166.35	332.70

S. No.	Ref. No	Description	Unit	Qty	DSR 21 Rate	Amount (Rs.)
1	2	3	4	8	9	10
4.10	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.				
a)	18.48B	Rectangular tank	per Lite	750.00	9.70	7275.00
4.11	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	4.00	434.20	1736.80
4.12	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	4.00	708.40	2833.60
4.13	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	2.00	594.75	1189.50
4.14	18.53	Providing and fixing C.P. brass angle valve for basin mixer and geyser points of approved quality conforming to IS:8931				
a)	18.53.1	15 mm nominal bore	Each	2.00	500.35	1000.70
4.15	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	2.00	33.20	66.40
4.16	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	2.00	377.10	754.20
		Total of sub-head				43239.30
5.00	19	SEWARAGE & DRAINAGE				
5.01	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	2474.40	4948.80
5.02	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	683.70	1367.40
5.03	19.6	Providing, laying and jointing non pressure NP2 class (light duty)RCC 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 :				
a)	19.6.2	150 mm dia RCC pipe	Metre	10.00	493.10	4931.00

S. No.	Ref. No	Description	Unit	Qty	DSR 21 Rate	Amount (Rs.)
1	2	3	4	8	9	10
		Total of sub-head				11247.20

DETAIL ESTIMATE OF PHASE-A & B WORK AT JNV RAMBAN , JAMMU AND KASHMIR**GUEST HOUSE****SUMMARY OF COST (ELECTRICAL WORK)**

SUB HEAD No.	PARTICULARS	Amount	
		DSR ITEMS	NS ITEMS
I	WIRING	76,490.76	840.27
II	SUPPLY OF FITTINGS AND FANS	6,379.00	37,152.80
III	BOARDS & DISTRIBUTION BOARDS	17,412.00	33,084.41
IV	EARTHING	10,775.00	-
	TOTAL	111,056.76	71,077.48

DETAIL ESTIMATE OF PHASE-A & B WORK AT JNV RAMBAN , JAMMU AND KASHMIR

GUEST HOUSE

ABSTRACT OF COST (ELECTRICAL WORKS)

SI. No.	DSR-2022	DESCRIPTION	UNIT	QTY.	RATE (AS PER SR)	RATE (AS PER NS)	AMOUNT (SR ITEMS)	AMOUNT (NS ITEMS)
1.00		SUBHEAD - I - WIRING						
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	12.00	1467.00		17604.00	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	71.06	334.00		23735.38	0.00
1.03	1.27	Supplying and fixing following size/ modules, GI box alongwith modular base & cover plate for modular switches in recess etc. as required.						
a)	1.27.3	4 Module (125 mmX75 mm)	Each	4.00	343.00		1372.00	0.00
1.04	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	4.00	156.00		624.00	0.00
b)	1.24.4	3 pin 5/6 A socket outlet	Each	4.00	112.00		448.00	0.00
c)	1.24.6	Telephone socket outlet	Each	1.00	148.00		148.00	0.00
d)	1.24.7	TV antenna socket outlet	Each	1.00	148.00		148.00	0.00
1.05	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)	1.7.2	2 x 2.5 sq.mm + 1 x 2.5 sq.mm earth wire	Metre	16.00	369.00		5904.00	0.00
(b)	1.7.5	2 X 10 sq. mm + 1 X 6 sq. mm earth wire	Metre	24.00	710.00		17040.00	0.00
1.06	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	17.54	47.00		824.38	0.00
1.08	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	1.00	298.00		298.00	0.00
1.09	1.18	Supplying and drawing following pair 0.5 mm dia FRLS PVC insulated annealed copper conductor, unarmoured telephone cable in the existing surface/ recessed steel/ PVC conduit as required.						
a)	1.18.2	2 Pair	Metre	40.00	38.00		1520.00	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	25.00	128.00		3200.00	0.00
b)	1.21.2	25 mm	Metre	25.00	145.00		3625.00	0.00
1.11	M . R	Providing and fixing in position 2mm thick M.S. Telephone junction box of size suitable for fixing of following Krone Tag Block with key lock arrangement. Also provide clamps for fixing tag blocks.						
a)	a)	10 pair Telephone Tag Block with box	Each	1.00		496.55	0.00	496.55
1.12	M . R	Supplying, laying of 10 pair unarmoured PVC insulated copper conductor (ATC) telephone cable in ground/existing pipes/on wall and making connection with telephone main junction box (MDF) including supports and all accessories as required						
a)	a)	10 Pair Cable unarmoured	Metre	2.00		171.86	0.00	343.72
		TOTAL OF SUBHEAD - I					76490.76	840.27
2.00		SUBHEAD - II - SUPPLY & INSTALLATION OF FITTINGS						

SI. No.	DSR-2022	DESCRIPTION	UNIT	QTY.	RATE (AS PER SR)	RATE (AS PER NS)	AMOUNT (SR ITEMS)	AMOUNT (NS ITEMS)
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	6.00		585.35	0.00	3512.10
2.02	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	3.00		1170.80	0.00	3512.40
2.03	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.						
	a)	Cirrus Mini Pro 15 / 20 watt & 1100 /1600 Lumens (Philips SM200C LED11S 6500 PSU OD WH)	Each	6.00		2868.45	0.00	17210.70
2.04	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.						
	a)	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
2.05	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)	300 mm 4 Pole	Each	2.00		1639.10	0.00	3278.20
2.06	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
2.07	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
2.08	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
2.09	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	6.00	206.00		1236.00	0.00
2.10	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
2.11	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
2.12	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	11.00	119.00		1309.00	0.00
2.13	1.38	Supplying and fixing call bell/ buzzer suitable for single phase, 230 V, complete as required.	Each	4.00	99.00		396.00	0.00
		TOTAL OF SUBHEAD - II.					6379.00	37152.80
3.00		SUBHEAD - III - DISTRIBUTION BOARD						

SI. No.	DSR-2022	DESCRIPTION	UNIT	QTY.	RATE (AS PER SR)	RATE (AS PER NS)	AMOUNT (SR ITEMS)	AMOUNT (NS ITEMS)
3.01	M.R.	Supplying, installing, testing and commissioning of compartmentalised cubical type meter board for installation of single phase meter. The cubical board shall be made of 2mm thick C.R.C.A sheet, duly phosphatised powder coated complete with connection bus bar and following accessories mounted in it.						
		METER BOARD						
		INCOMING :						
		40A TP MCCB having breaking capacity - 25 KA - 1 No.						
		OUTGOING :						
		Space for Single phase energy meter - 4 Nos.						
		25 Amp DP MCB - 4 Nos.	Set	1.00		27474.35	0.00	27474.35
3.02	M.R.	Supplying, installing, testing & commissioning of Single Phase Electronic Energy Meter, tested as per Electricity Boards requirement.	Set	2.00		2369.51	0.00	4739.02
3.03	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)						
a)	2.3.3	12 way, SPN	Each	2.00	2315.00		4630.00	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	2.14	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.						
(b)	2.14	25 amps	Each	2.00	2028.00		4056.00	0.00
3.06	M.R.	Supplying of XLPE insulated, PVC sheathed 1.1 KV grade Aluminium conductor heavy duty armoured cable as per IS : 7098 of size :						
a)	a)	4 x 16 sq.mm.	Metre	8.00		108.88	0.00	871.04
3.07	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 for crossing road/walls						
a)	14.14.1	100 mm dia	Metre	8.00	662.00		5296.00	0.00
3.08	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	10.00	256.00		2560.00	0.00
		TOTAL OF SUBHEAD - III.					17412.00	33084.41
4.00		SUBHEAD - IV - EARTHING						
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	15.00	70.00		1050.00	0.00
		TOTAL OF SUBHEAD - IV					10775.00	0.00
		TOTAL (I TO IV)					111056.76	71077.48
		G. TOTAL (I TO IV)						182134.24

DETAIL ESTIMATE OF PHASE-A WORK AT JNV RAMBAN , JAMMU AND KASHMIR							
ABSTRACT OF COST							
[ELECTRIC SUB STATION]							
S.N.	DESCRIPTION OF ITEM	DSR-2021	QTY	UNIT	RATES	AMOUNT (In RS.) ON DSR	AMOUNT (In RS.)
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	13.48	CUM	286.85	3866.74	
2	Supplying and stacking of good earth at site.	16.3.9	4.630	CUM	624.55	2891.67	
3	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.	2.25	18.110	CUM	253.95	4599.03	
4	Supplying and filling in plinth with sand under floors, including watering, ramming, consolidating and dressing complete.	2.27	4.63	CUM	2161.2	10006.36	
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) : 10 graded stone aggregate 40 mm nominal size)	4.1.10	6.22	CUM	6050.65	37635.04	
6	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)	Upto plinth level						
	(i) R.C.C. work in Footing	5.33.1	1.470	CUM	7997.3	11756.03	
	(ii) R.C.C. work in Beam	5.33.1	1.420	CUM	7997.3	11356.17	
	(iii) R.C.C. work in Columns	5.33.1	0.540	CUM	7997.3	4318.54	
(II)	Above plinth to floor-V lvl						
	Same as above but R.C.C. work above plinth Lvl.						
	(i) R.C.C. work in Lintel	5.33.2	0.440	CUM	10080.15	4435.27	
	(ii) R.C.C. work in Beam	5.33.2	1.440	CUM	10080.15	14515.42	
	(iii) R.C.C. work in Columns	5.33.2	1.770	CUM	10080.15	17841.87	
	(iv) R.C.C. work in Slab	5.33.2	7.520	CUM	10080.15	75802.73	
7	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	2.680	QTL.	8965	24026.20	
8	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	7.300	QTL.	8965	65444.50	
9	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	7.200	SQM	307.95	2217.24	
(b)	Suspended floors, roofs, landings, balconies and access platform.	5.9.3	59.591	SQM	766.55	45679.79	
(c)	Lintels, beams, plinth beams, girders, bressumers and cantilevers.	5.9.5	75.150	SQM	608.35	45717.50	
(d)	Columns,Pillars, Piers, Abutments, Posts and Struts.	5.9.6	36.120	SQM	804.25	29049.51	
10	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	2.310	CUM	6658.25	15380.56	
11	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 :	6.4					
	Cement mortar 1:6 (1 cement : 6 coarse sand)	6.4.2	9.680	CUM	8288.35	80231.23	

12	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	13.200	Sqm	1018.05	13438.26	
13	Extra for providing and placing in position 2 Nos 6mm dia. M.S. bars at every third course of half brick masonry.	6.15	13.20	SQM	86.45	1141.14	
14	Providing and laying four courses water proofing treatment with bitumen felt over roofs consisting of first and third courses of blown bitumen 85/25 or 90/15 conforming to IS : 702 applied hot @ 1.45 Kg per square metre of area for each course, second course of roofing felt type 3 grade-I (hessian based self finished bitumen felt) and fourth and final course of stone grit 6 mm and down size or pea sized gravel spread at 6 cubic decimeter per square metre, including preparation of surface but excluding grading complete with :	22.8					
	Bitumen felt (hessian base) type 3 grade I conforming to IS : 1322	22.8.1	48.150	SQM	432.10	20805.62	
15	Grading roof for water proofing treatment with Cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20mm nominal size)	22.14					
		22.14.1	3.61	Cum	7510.75	27113.81	
16	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. 35 mm thick including ISI marked Stainless Steel butt hinges with necessary screws.	9.20.1	6.960	SQM	3086.1	21479.26	
17	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	6.96	SQM	401.4	2793.74	
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	65.790	KG	114.65	7542.82	
19	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	83.550	KG	181	15122.55	
20	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	102.120	KG	175.65	17937.38	
21	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	102.49	Kg	146.55	15019.91	
22	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	2.750	SQM	940.3	2585.83	
23	Providing & fixing fly proof wire gauze to windows, clerestory windows & doors with M.S. Flat 15x3 mm and nuts & bolts complete. Stainless steel (grade 304) wire gauze of 0.5 mm dia wire and 1.4 mm aperture on both sides	(DSR-10.29.2)	4.57	SQM	971.55	4439.98	
24	Add for plaster drip course/ groove in plastered surface or moulding to R.C.C. projections.	5.30	30.77	RM	64.7	1990.82	

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	86.455	SQM	339.1	29316.89	
26	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	110.70	SQM	294.35	32584.55	
27	6 mm cement plaster on ceiling (a) 1:3(1 cement:3 fine sand)	13.16.1	48.01	SQM	253.05	12148.93	
28	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	11.670	SQM	354.5	4137.02	
29	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.	4.17	24.750	SQM	681.65	16870.84	
30	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	28.00	RM	179.5	5026.00	
31	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	27.480	SQM	1706.6	46897.37	
32	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	4.730	SQM	2038.55	9642.34	
33	P/F curtain rods of 1.25mm 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) 25 mm dia.	(DSR-9.46.3)	4.22	RM	482.3	2035.31	
34	Steel Painting: (a) With ready mixed red oxide zink chromate primer of approved brand and manufacture on steel galvanised iron/steel works.	13.50.3	12.00	SQM	55.5	666.00	
	(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	12.00	SQM	131.45	1577.40	
35	Distemping 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	134.465	SQM	162.55	21857.29	
36	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	4.50	SQM	162.35	730.58	
37	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.	3.00	NOS	500.00		1500.00
38	Providing and fixing stainless steel towerbolts (barrel type) with necessary screws etc. complete.						
	300 x 10mm	M.R.	3.00	NOS	400.00		1200.00
	200 x 10mm	M.R.	3.00	NOS	350.00		1050.00
39	Providing and fixing stainless steel handles with screws etc. complete (a) 125 mm.	M.R.	6.00	NOS	300.00		1800.00
40	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	3.00	NOS	62.25	186.75	
					TOTAL	841859.78	5550.00
					SAY IN LACS	8.42	0.06

DETAIL ESTIMATE OF PHASE-A WORK AT JNV RAMBAN , JAMMU AND KASHMIR			
SUMMARY OF COST FOR ELECTRICAL WORKS (ELECTRIC SUB STATION)			
S. No	DESCRIPTION	AMOUNT	
		DSR-2022	NON-DSR
I	INTERNAL WIRING	81741.00	
II	DISTRIBUTION BOARDS & MCB's	6845.00	
III	MISCELLANEOUS	1076.00	690.00
IV	INTERNAL LIGHTING FIXTURES & FANS	3470.00	24920.00
V	CABLE & ACCESSORIES		160.00
	Total C/F To Summary	93132.00	25770.00
	SAY IN LACS	0.93	0.26

DETAIL ESTIMATE OF PHASE-A WORK AT JNV RAMBAN , JAMMU AND KASHMIR

BILL OF QUANTITIES FOR ELECTRICAL WORKS (ELECTRIC SUB STATION)						
S.No	DSR-2022	DESCRIPTION	UNIT	Quantity	RATE (in Rs)	AMOUNT (in Rs)
I SUB HEAD (I) :- INTERNAL WIRING (DSR'2018)						
1		Point wiring in PVC conduit, with modular type switch :-				
	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.				
	1.10.2	Group B	Point	13.00	1182.00	15366.00
2		Twin Control Point wiring in PVC conduit, with modular type switch :-				
	1.11	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	1562.00	1562.00
3		Power plug wiring in PVC conduit (2 x 4 Sq.Mm.) :-				
	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	60.00	334.00	20040.00
4		Circuit / Sub main wiring in PVC conduit :-				
	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.				
	1.14.1	2 X 1.5 sq. mm + 1 X 1.5 sq. mm earth wire.	M	10.00	233.00	2330.00
	1.14.2	2 X 2.5 sq. mm + 1 X 2.5 sq. mm earth wire.	M	70.00	275.00	19250.00
	1.14.5	2 x 10 sq.mm. + 1 x 6 sq.mm. Earth wire	M	30.00	570.00	17100.00
6		S/F light plug point Modular type accessories :-				
	1.31	Supply and fixing of suitable size GI box with modular plate and cover in FRLS 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. (For light plugs to be used in non residential buildings).	Each	5.00	477.00	2385.00
7		S/F power plug point modular type accessories :-				
	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	5.00	586.00	2930.00
9		S/F modular type electronic fan regulator :-				
	1.25	Supply 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	2.00	369.00	738.00
10		S/F modular type blanking plate :-				
	1.26	Supply and fixing modular blanking plate on the existing modular plate & switch box excluding modular plate as required.	Each	1.00	40.00	40.00
		TOTAL SUB HEAD (I) (DSR'2018)				81741.00
II SUB HEAD (II) :- DISTRIBUTION BOARDS & MCB's (DSR'2018)						
1	2.10	Supplying and fixing 5 amps. to 32 amps. rating, 240 volts 'C' series, miniature circuit breaker (MCB) 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	6.00	256.00	1536.00
2	2.11	Supplying & fixing single pole, blanking plate in the existing MCB DB complete etc. as required.	Each	2.00	13.00	26.00
3		S/F DP MCB Isolator				
	2.12	Supplying and fixing following rating, double pole, 240 V, isolator in the existing MCB DB complete with connections, testing and commissioning etc.				
	2.12.1	40 Amps	Each	1.00	435.00	435.00

4	2.14	Supplying and fixing following rating, double pole , (single phase and neutral), 240 volts, residual current circuit breaker (RCCB) , having a sensitivity current upto 300 milliamperes in the existing MCB DB complete with connections, testing and commissioning etc. as required.				
	2.14.2	40 amps.	Each	1.00	2642.00	2642.00
5	2.3	Supplying and fixing following way, SP&N, 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)				
	2.3.1	6 way, Double door	Each	1.00	2206.00	2206.00
		TOTAL SUB HEAD (II) (DSR'2018)				6845.00
III		SUB HEAD (III) :- MISCELLANEOUS (DSR'2018)				
1	2.21	Providing and fixing M.V. danger notice plate 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	4.00	269.00	1076.00
		TOTAL SUB HEAD (IV) (DSR'2018)				1076.00
		(NON-DSR'2018)				
2	MR	S/F of hexagonal fan box with hexagonal side of approx. 80 mm.in length fabricated from 14 SWG M.S. sheet incorporating with 10 mm. dia. M.S. round bar duly bent for supporting fan hanger painted with red oxide and screwing arrangement with wiring conduit laid in the R.C.C. roof before concreting along with supply of all materials, labour, T&P etc. for proper completion of work.	Each	2.00	345.00	690.00
		TOTAL SUB HEAD (IV) (NON DSR)				690.00
IV		SUB HEAD(IV):-INTERNAL LIGHTING FIXTURES & FANS				
		SUPPLY OF LIGHTING FIXTURES (NON-DSR'2018)				
1		Supply of Mounting rail with Master LED tube with all accessories as per standard item:				
	MR	TMC 501 P 1xT-LED 22W P3241 with Master LED Tube 18 W, 1600 lumen	Each	5.00	1550.00	7750.00
2	MR	1 x 15 watt surface mounting type LED light fixture complete with all accessories as required. (Eq. to Bajaj cat. no. BGSLO SLEEK SURFACE 15W WH RD)	Each	2.00	1270.00	2540.00
		SUPPLY OF CEILING & EXHAUST FANS				
3		Supply of AC 230/250 volts, 50 HZ ceiling fan with standard down rod, blades, 2 nos. caps & regulator etc. ISI with 5 star marked & energy efficient complete as required.				
	MR	1200 mm sweep	Nos	2.00	2470.00	4940.00
4		Supply of AC 230/250 volts, 50 HZ exhaust fans including providing nuts, bolts, mounting FRLSame and other accessories etc. complete				
	MR	300 mm sweep 900 rpm	Nos	3.00	3230.00	9690.00
		TOTAL SUB HEAD (IV) (NON-DSR)				24920.00
		ERECTION OF LIGHTING FIXTURES AND FANS DSR 2016				
1	1.41	Installation, testing and commissioning of pre-wired, flourescent fitting / compact flourescent 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	7.00	206.00	1442.00
2	1.45	Installation, testing and commissioning of ceiling fan 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	2.00	339.00	678.00
3	1.50	Installation of exhaust fan in the existing opening, including making good the damage, connection, testing, commissioning etc. as required				
	1.50.1	Upto 450 mm sweep	Each	3.00	450.00	1350.00

		TOTAL SUB HEAD (IV) (DSR'2018)				3470.00
V		SUB HEAD (V) :- CABLE AND ACCESSORIES				
		CABLES SUPPLY				
		(NON-DSR'2018)				
1		Supply and making end termination with brass double compression gland including providing and crimping of aluminium/copper solderless lugs/ferrules for XLPE/ PVC armoured/ Unarmoured aluminium/copper conductor cable 1.1 KV grade of following sizes:				
i)		End Termination for Copper Conductor Armoured Cable				
	MR	2 x 10 sq.mm	Set	2.00	80.00	160.00
		TOTAL SUB HEAD (V) NON D.S.R. ITEMS				160.00

DETAIL ESTIMATE OF PHASE-A WORK AT JNV RAMBAN , JAMMU AND KASHMIR							
ABSTRACT OF COST							
[PUMP ROOM]							
S.N.	DESCRIPTION OF ITEM	DSR-2021	QTY	UNIT	RATES	AMOUNT (In RS.) ON DSR	AMOUNT (In RS.) ON NON DSR
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	6.91	CUM	286.85	1982.13	
2	Supplying and stacking of good earth at site.	16.3.9	0.900	CUM	624.55	562.10	
3	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.	2.25	7.810	CUM	253.95	1983.35	
4	Supplying and filling in plinth with sand under floors, including watering, ramming, consolidating and dressing complete.	2.27	0.90	CUM	2161.2	1945.08	
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) : 10 graded stone aggregate 40 mm nominal size)	4.1.10	1.60	CUM	6050.65	9681.04	
6	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)	Upto plinth level						
	(i) R.C.C. work in Footing	5.33.1	0.800	CUM	7997.3	6397.84	
	(ii) R.C.C. work in Beam	5.33.1	0.510	CUM	7997.3	4078.62	
	(iii) R.C.C. work in Columns	5.33.1	0.320	CUM	7997.3	2559.14	
(II)	Above plinth to floor-V lvl						
	Same as above but R.C.C. work above plinth Lvl.						
	(i) R.C.C. work in Lintel	5.33.2	0.090	CUM	10080.15	907.21	
	(ii) R.C.C. work in Beam	5.33.2	0.510	CUM	10080.15	5140.88	
	(iii) R.C.C. work in Columns	5.33.2	0.910	CUM	10080.15	9172.94	
	(iv) R.C.C. work in Slab	5.33.2	1.240	CUM	10080.15	12499.39	
7	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	1.280	QTL.	8965	11475.20	
8	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	1.910	QTL.	8965	17123.15	
9	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	3.200	SQM	307.95	985.44	
(b)	Suspended floors, roofs, landings, balconies and access platform.	5.9.3	12.512	SQM	766.55	9590.77	

(c)	Lintels, beams, plinth beams, girders, bressumers and cantilevers.	5.9.5	13.800	SQM	608.35	8395.23	
(d)	Columns, Pillars, Piers, Abutments, Posts and Struts.	5.9.6	19.200	SQM	804.25	15441.60	
10	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	0.650	CUM	6658.25	4327.86	
11	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 6.4.2	3.030	CUM	8288.35	25113.70	
12	Providing and laying four courses water proofing treatment with bitumen felt over roofs consisting of first and third courses of blown bitumen 85/25 or 90/15 conforming to IS : 702 applied hot @ 1.45 Kg per square metre of area for each course, second course of roofing felt type 3 grade-I (hessian based self finished bitumen felt) and fourth and final course of stone grit 6 mm and down size or pea sized gravel spread at 6 cubic decimeter per square metre, including preparation of surface but excluding grading complete with : Bitumen felt (hessian base) type 3 grade I conforming to IS : 1322	22.8 22.8.1	11.970	SQM	432.10	5172.24	
13	Grading roof for water proofing treatment with Cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20mm nominal size)	22.14 22.14.1	0.90	Cum	7510.75	6759.68	
14	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. 35 mm thick including ISI marked Stainless Steel butt hinges with necessary screws.	9.20.1	1.890	SQM	3086.1	5832.73	
15	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	1.89	SQM	401.4	758.65	
16	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	15.600	KG	114.65	1788.54	
17	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	6.480	KG	181	1172.88	
18	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	7.920	KG	175.65	1391.15	
19	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	14.61	Kg	146.55	2141.10	
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	0.360	SQM	900.55	940.3	
21	Add for plaster drip course/ groove in plastered surface or moulding to R.C.C. projections.	5.30	12.00	RM	64.7	776.40	
22	15 mm cement plaster on the rough side of single or half brick wall of mix : 1:6 (1 cement: 6 fine sand)	13.2.2	41.140	SQM	324.3	13341.70	
23	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)1 cement : 6 fine sand.	13.1.2	35.29	SQM	282	9951.78	
24	6 mm cement plaster on ceiling (a) 1:3(1 cement:3 fine sand)	13.16.1	12.38	SQM	253.05	3132.76	
25	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	3.876	SQM	354.5	1374.04	
26	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.	4.17	8.300	SQM	681.65	5657.70	
27	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	13.84	RM	179.5	2484.28	
28	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. (40 mm thick with 20 mm nominal size stone aggregate)	11.3.1	13.000	SQM	545	7085.00	
29	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. (18 mm thick)	11.27	2.985	SQM	2038.55	6085.07	
30	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). Ordinary cement without any pigment.	(DSR-11.20.4)	2.280	SQM	928.5	2116.98	
31	Steel Painting:						
	(a) With ready mixed red oxide zink chromate primer of approved brand and manufacture on steel galvanised iron/steel works.	13.50.3	1.49	SQM	55.5	82.92	
	(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	1.49	SQM	131.45	196.39	
32	Distemping 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	53.520	SQM	162.55	8699.68	
33	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	1.20	SQM	162.35	194.82	

34	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	500.00		500.00
35	Providing and fixing stainless steel towerbolts (barrel type) with necessary screws etc. complete.						
	300 x 10mm	M.R.	1.00	NOS	400.00		400.00
	200 x 10mm	M.R.	1.00	NOS	350.00		350.00
36	Providing and fixing stainless steel handles with screws etc. complete (a) 125 mm.	M.R.	2.00	NOS	300.00		600.00
37	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	62.25	62.25	
					TOTAL	236561.70	1850.00
38	Cost of internal water supply & Sanitation work.						
					Say Rs. In Lacs	2.37	0.02

**DETAIL ESTIMATE OF PHASE-A WORK AT JNV RAMBAN , JAMMU AND
KASHMIR**

SUMMARY OF COST FOR ELECTRICAL WORKS (PUMP ROOM)

S. No	DESCRIPTION	AMOUNT	
		DSR-2022	NON-DSR
I	INTERNAL WIRING	17908.00	
II	DISTRIBUTION BOARDS & MCB's	6064.00	
III	INTERNAL LIGHTING FIXTURES & FANS	656.00	8200.00
	Total C/F To Summary	24628.00	8200.00
	SAY IN LACS	0.25	0.08

DETAIL ESTIMATE OF PHASE-A WORK AT JNV RAMBAN , JAMMU AND KASHMIR

BILL OF QUANTITIES ELECTRICAL WORKS (PUMP ROOM)

S.No	DSR-2022	DESCRIPTION	UNIT	Quantity	RATE (in Rs)	AMOUNT (in Rs)
I		SUB HEAD (I) :- INTERNAL WIRING (DSR'2018)				
1		Point wiring in PVC conduit, with piano type switch :-				
	1.8	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 piano type switch, phenolic laminated sheet, suitable GI box and earthing the point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable etc. as required.				
	1.8.3	Group C	Point	3.00	1445.00	4335.00
2		Twin Control Point wiring in PVC conduit, with piano type switch :-				
	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 piano type switch, phenolic laminated sheet, suitable GI 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	1457.00
3		Power plug wiring in PVC conduit (2 x 4 Sq.Mm.) :-				
	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	10.00	334.00	3340.00
4		Circuit / Sub main wiring in PVC conduit :-				
	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.				
	1.14.1	2 X 1.5 sq. mm + 1 X 1.5 sq. mm earth wire.	M	10.00	233.00	2330.00
	1.14.2	2 X 2.5 sq. mm + 1 X 2.5 sq. mm earth wire.	M	10.00	275.00	2750.00
	1.14.5	2 X 10 sq. mm + 1 X 6 sq. mm earth wire	M	5.00	570.00	2850.00
5		S/F light plug point piano type accessories :-				
	1.29	Supplying and fixing metal box of 150 mm X 75 mm X 60 mm deep (nominal size) on surface or in recess with suitable size of phenolic laminated sheet cover in front including providing and fixing 3 pin 5/6 A socket outlet and 5/6 A piano type switch, connections, painting etc. as required.	Each	1.00	358.00	358.00
6		S/F power plug point piano type accessories :-				
	1.30	Supplying and fixing metal box of 180 mm X 100 mm X 60 mm deep (nominal size) on surface or in recess with suitable size of phenolic laminated sheet cover in front including providing and fixing 6 pin 5/6 A & 15/16 A socket outlet and 15/16 A piano type switch, connections, painting etc. as required.	Each	1.00	488.00	488.00
		TOTAL SUB HEAD (I) (DSR'2018)				17908.00
II		SUB HEAD (II) :- DISTRIBUTION BOARDS & MCB's (DSR'2018)				
1	2.10	Supplying and fixing 5 amps. to 32 amps. rating, 240 volts 'C' series, miniature circuit breaker (MCB)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	3.00	256.00	768.00
2	2.11	Supplying & fixing single pole, blanking plate in the existing MCB DB complete etc. as required.	Each	1.00	13.00	13.00
3		S/F DP MCB Isolator				
	2.12	Supplying and fixing following rating, double pole, 240 V, isolator in the existing MCB DB complete with connections, testing and				
	2.12.1	40 amps.	Each	1.00	435.00	435.00
4	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.				
	2.14.2	40 amps.	Each	1.00	2642.00	2642.00
5	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)				
	2.3.1	6 way, Double door	Each	1.00	2206.00	2206.00

		TOTAL SUB HEAD (II) (DSR'2018)				6064.00
III		SUB HEAD(III):-INTERNAL LIGHTING FIXTURES & FANS				
		SUPPLY OF LIGHTING FIXTURES				
		(NON-DSR)				
1		Supply of Mounting rail with Master LED tube with all accessories as per standard item:				
	MR	TMC 501 P 1xT-LED 22W P3241 with Essential LED Tube 18 W, 1600 lumen	Each	1.00	1550.00	1550.00
2	MR	Supply of Green Line Smart of 10 watt and 1000 lumen, luminaire is perfect for secondary roads and pathways. It sports a compact body, which offers a highly efficient lighting solution as compared to fluorescent and CFL street lights. (such as Philips -BRP022 LED 10 CW MR S1 PSU GR or Equivalent).	Each	1.00	3420.00	3420.00
		SUPPLY OF EXHAUST FANS				
3		Supply of AC 230/250 volts, 50 HZ exhaust fans including providing nuts, bolts, mounting FRLSame and other accessories etc. complete				
	MR	300 mm sweep 900 rpm	Nos	1.00	3230.00	3230.00
		TOTAL SUB HEAD (III) (NON-DSR)				8200.00
		ERECTION OF LIGHTING FIXTURES AND FANS				
		(DSR'2018)				
1	1.41	Installation, testing and commissioning of pre-wired, fluorescent fitting / compact fluorescent 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	1.00	206.00	206.00
3	1.50	Installation of exhaust fan 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
		TOTAL SUB HEAD (III) (DSR'2018)				656.00

DETAIL ESTIMATE OF PHASE-A WORK AT JNV RAMBAN, JAMMU & KASHMIR.

SUMMARY OF DEVELOPMENT WORKS

S.N.	PARTICULARS OF ITEMS			
		DSR-2021	DSR-2022	Non-DSR
1	APPROACH PROVISION WITHIN CAMPUS			
1.1	BITUMIN ROAD	6,696,478.31		
1.2	TOE WALL ALONG ROAD	1,472,954.97		
1.3	TOE WALL ALONG BUILDING	3,411,362.40		
2	EXTERNAL WATER SUPPLY			
2.1	WATER SUPPLY DISTRIBUTION LINE	1,293,475.91		78,705.00
2.2	TUBE/ OPEN WELL I/ C , SUBMERSIBLE PUMP 7.5 HP. AND CABLING ETC COMPLETE.	492,796.58		225,760.40
2.3	UNDER GROUND SUMP (100 KL)	1,960,518.92		
2.4	PROVIDING & FIXING MONO BLOCK PUMPS WITH (7.5 HP) OF APPROVED BRAND I.E. KIRLOSKAR CROMTON, JYOTI, MATHER & PLATE OF SLIDING PLATE, STARTER. PUMPS 2NOS OF 7.5 HP (2x95000=1,90,000)			190,000.00
3	EXTERNAL SEWERAGE			
3.1	R.C.C SEPTIC TANK (2 Nos 250 Users)	1,691,685.48		
3.2	R.C.C SEPTIC TANK (1 Nos 300 Users)	1,146,270.39		
3.3	R.C.C SEPTIC TANK (1 Nos 100 Users)	445,898.33		
3.4	WASTE FOOD TANK (1 No) 4500 litre	131,316.64		
3.5	EXT. SEWERAGE LINE	2,553,712.63		
3.6	5.0 H.P. KIRLOSKER SEWERAGE PUMP (AIR COOL) MOUNTED ON TROLLY WITH 10 M.SUCTION & 10 M. DEL FLEXIBLE PIPE (1x75000=75,000)			75,000.00
4	EXTERNAL ELECTRIFICATION			
4.1	HT/ LT PANEL			1,808,500.00
4.2	STREET LIGHTING USING UNDER GROUND CABLES			3,677,091.92
4.3	EXTERNAL CABLE LAYING / CABLE CONNECTION USING U.G. CABLES FROM SUB STATION TO FEEDER PILLER / BUILDING AND PUMP HOUSE AND EARTHING		2,087,957.11	
4.4	25 KVA RATING DG Set AND DG SET FOUNDATION.	144,611.14		625,000.00
5	Stone Pitching Under the building	6,966,880.92		
6	RCC Connecting Path	2,621,202.46		
7	Parapet Wall	486,200.88		
		31,515,365.98	2,087,957.11	6,680,057.32
	TOTAL (A)	315.15	20.88	66.80
	Add additional GST @5.36% as per CPWD circular order dated 30.09.2022	16.89	1.12	
	TOTAL (B)	332.04	22.00	66.80
	Add for Cost Index Based on PAR-19 as on 04/2019 of Awantipura (i.e 136.50/1.01/1.05 = 128.71 i.e 28.71% on PAR-21, DSR-21 & DSR-22)	95.33	6.32	
	TOTAL (B)	427.37	28.32	66.80
	GRAND TOTAL		522.49	
	External Boundary Wall			
	C/o Boundry Wall (1.80 mtr Height compound wall+ Concertina Coil fencing over compound wall with RCC Column 0.30x0.30). Boundary Wall Length = 1573.99 Meter.	31,474,390.42		
	C/o Main Gate (RCC Frame Structure)	2,236,915.01		35,380.00
		33,711,305.43	-	35,380.00

S.N.	PARTICULARS OF ITEMS			
		DSR-2021	DSR-2022	Non-DSR
	TOTAL (A)	337.11	-	0.35
	Add additional GST @5.36% as per CPWD circular order dated 30.09.2022	18.07	-	
	TOTAL (B)	355.18	-	0.35
	Add for Cost Index Based on PAR-19 as on 04/2019 of Awantipura (i.e 136.50/1.01/1.05 = 128.71 i.e 28.71% on PAR-21, DSR-21 & DSR-22)	101.97	-	
	TOTAL (B)	457.15	-	0.35
	GRAND TOTAL	457.50		

DETAIL ESTIMATE OF PHASE-A WORK AT JNV RAMBAN, JAMMU & KASHMIR.

S.N.	DESCRIPTION OF ITEM	DSR-2021	NOS	L	B	H	QTY	UNIT	RATE (In Rs.)	AMOUNT (In Rs.)
Analysis of Bitumin Road 10.00 mtr Length 3.50 mtr wide										
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	1	10.00	5.50		55.00			
						Total	55.00	Sqm	180.50	9,927.50
2	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	10.00	3.50	0.525	18.38			
	For Road portion Average Heigth $1050/2 = 525$					Total	18.38	Cum	368.65	6,773.94
3	Supplying and stacking at site.	16.3								
	90 mm to 45 mm size stone aggregate	16.3.1	1	10.00	3.50	0.128	4.48			
						Total	4.48	Cum	1,937.60	8,680.45
4	63 mm to 45 mm size stone aggregate	16.3.2	1	10.00	3.50	0.096	3.36			
						Total	3.36	Cum	1,624.50	5,458.32
5	stone screening 13.2 mm nominal size	16.3.6	1	10.00	3.50	0.03	1.05			
							1.05	Cum	1,865.00	1,958.25
6	Stone screening 11.2 mm nominal size (Type B)	16.3.7	1	10.00	3.50	0.015	0.525			
							0.525	Cum	2,065.70	1,084.49
7	Red bajri	16.3.8	1	10.00	3.50	0.01	0.35			
						Total	0.35	Cum	1,557.25	545.04

S.N.	DESCRIPTION OF ITEM	DSR-2021	NOS		L	B	H	QTY	UNIT	RATE (In Rs.)	AMOUNT (In Rs.)
8	Moorum	16.3.10		1	10.00	3.50	0.009	0.315			
							Total	0.315	Cum	888.30	279.81
9	2.5 cm premix carpet surfacing with 2.25 cum and 1.12 cum of stone chippings of 13.2 mm and 11.2 mm size respectively per 100 sqm and 52 kg and 56 kg of hot bitumen per cum of stone chippings of 13.2 mm and 11.2 mm size respectively, including a tack coat with hot straight run bitumen, including consolidation with road roller of 6 to 9 tonne capacity etc. complete (tack coat to be paid for separately).	16.33									
	With paving Asphalt grade VG - 10 heated and then mixed with solvent at the rate of 70 grams per kg of asphalt	16.33.1	1	1	10.00	3.50		35.00			
							Total	35.00	sqm	227.00	7,945.00
10	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									
a	Subbase with stone aggregate 90mm to 45m including stone screening 13.2mm size.			1	10.00	3.50	0.100	3.50			
b	Base course with 63mm to 45mm size including stone screening 13.2mm size.			1	10.00	3.50	0.075	2.63			
							Total	6.13	Cum	865.80	5,303.03

S.N.	DESCRIPTION OF ITEM	DSR-2021	NOS		L	B	H	QTY	UNIT	RATE (In Rs.)	AMOUNT (In Rs.)
11	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	1	10.00	0.15	0.45	0.68			
	kerb stone in place of toe wall where toe wall not provided @ 75% of length	16.69	1	1	7.50	0.15	0.45	0.51			
							Total	1.19	Cum	8,613.55	10,250.12
12	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) derived from natural sources : 10 graded stone aggregate 40 mm nominal size derived from natural sources)	4.1.10									
	PCC Below Kerb Stone		1	1	10.00	0.35	0.10	0.35			
	PCC in place of toe wall PCC where toe wall not provided @ 75% of length		1	1	7.50	0.35	0.10	0.26			
							Total	0.61	Cum	6,050.65	3,690.90

S.N.	DESCRIPTION OF ITEM	DSR-2021	NOS	L	B	H	QTY	UNIT	RATE (In Rs.)	AMOUNT (In Rs.)
13	Providing and applying tack coat using hot straight run bitumen of grade VG - 10, including heating the bitumen, spraying the bitumen with mechanically operated spray unit fitted on bitumen boiler, cleaning and preparing the existing road surface as per specifications :	16.30								
	On W.B.M. @ 0.75 Kg / sqm	16.30.1	1	10.00	3.50		35.00			
						Total	35.00	sqm	45.20	1,582.00
14	Providing and laying seal coat of premixed fine aggregate (passing 2.36 mm and retained on 180 micron sieve) with bitumen using 128 kg of bitumen of grade VG - 10 bitumen per cum of fine aggregate and 0.60 cum of fine aggregate per 100 sqm of road surface, including rolling and finishing with road roller all complete.	16.40	1	10.00	3.50		35.00			
						Total	35.00	sqm	79.85	2,794.75
	Total Cost for 35.00 Sqm									66,273.60
	Cost For Per Sqm Area									1,893.53

DETAILED ESTIMATE FOR PROPOSED CONSTRUCTION OF JNV PHASE-A AT JNV RAMBAN, JAMMU & KASHMIR.

Toe Wall of Road

[BILL OF QUANTITY]

S.N.	DSR.NO.	DESCRIPTION OF ITEM	QUANTITY	UNIT	RATES	DSR-21-AMOUNT	MR-AMOUNT
1	2.8.1	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.	219.98	cum	286.85	63,101.98	
2	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)	17.05	cum	6050.65	103,155.38	
3	6.1.1	Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in foundation and plinth in: Cement mortar 1:4 (1 cement : 4 coarse sand)	132.82	cum	6882.00	914,067.24	
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 :					
	4.1.2	1:1½:3 (1 Cement: 1½ coarse sand (zone-III) derived from natural sources : 3 graded stone aggregate 20 mm nominal size derived from natural sources)	2.53	cum	7783.65	19,692.63	
5	5.9.16	Edges of slabs and breaks in floors and walls					
	5.9.16.1	Under 20 cm wide	219.98	cum	181.90	40,014.36	
6	12.41	Providing and fixing un plasticised Rigid PVC rain water pipe conforming to IS: 13592 type A, including jointing with seal ring conforming to IS: 5382, leaving 10mm gap for thermal expansion,					
	(i)	Single socketed pipes.					
	12.41.1	75mm diameter	27.60	meter	213.00	5,878.80	
7	13.5	15 mm cement plaster on rough side of single or half brick wall of mix:					
	13.5.1	1:6 (1 cement: 6 coarse sand)	461.96	Sqm	339.10	156,650.64	
8	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.	461.96	Sqm	123.85	57,213.75	
9	13.45	Finishing walls with textured exterior paint of required shade :					
	13.45.1	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	461.96	sqm	245.00	113,180.20	
Total cost of Toe Wall						1,472,954.97	

DETAIL ESTIMATE OF PHASE-A WORK AT JNV RAMBAN, JAMMU & KASHMIR.

SUMMARY OF COST

S.NO	NAME OF SUB-HEAD		
		DSR-2021	NON-DSR
1	EXTERNAL WATER SUPPLY		
a	EXTERNAL RISING MAIN SUPPLY	61,017.55	78,705.00
b	EXTERNAL FRESH WATER SUPPLY	1,232,458.36	-
	Total C/F To Summary	1,293,475.91	78,705.00

DETAIL ESTIMATE OF PHASE-A WORK AT JNV RAMBAN, JAMMU & KASHMIR.

ABSTRACT OF EXTERNAL SEWER LINE

S.N.	DSR-2021	DESCRIPTION	UNIT	QTY	RATE 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, depth upto 1.50m 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	967.64	417.35	403,844.55
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	740.68	493.10	365,229.55
3	19.6.3	250 mm dia. R.C.C. pipe	Mtr	226.96	811.15	184,096.58
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	36.13	6,050.65	218,609.98
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	193.53	307.95	59,597.56
6	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 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 90 x 80 cm & 45 cm 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	48.00	11,687.10	560,980.80
7	19.7.3	Inside size 120 x 90 cm & 90 cm 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	16.00	30,197.95	483,167.20
8	19.8	Extra for depth 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	12.00	8,127.45	97,529.40

S.N.	DSR-2021	DESCRIPTION	UNIT	QTY	RATE DSR	AMOUNT
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	4.00	9,744.25	38,977.00
10	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 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	40.00	2,534.00	101,360.00
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 20x20 mm square bar	each	96.00	420.00	40,320.00
		TOTAL OF SUB HEAD				2,553,712.63

DETAIL ESTIMATE OF PHASE-A WORK AT JNV RAMBAN, JAMMU & KASHMIR.

ESTIMATE FOR H.T./L.T. PANEL & FEEDER PILLARS

S.No.	Name of Item	Qty	Unit	Rate	Amount
1	MAIN LT PANEL				
	Incoming				
	MCCB 630A 50KA TPN	1	Nos		
	630AMP SPREADER TERMINAL	1	SETS		
	Metering				
	6Amp MCB SP	3	Nos		
	VAF METER	1	Nos		
	INDICATION LIGHT	3	Nos		
	400/5A CT's	3	Nos		
	Out going				
	Sub Panel MCCB 200A 25KA TPN	1	Nos		
	School Building MCCB 160A 25KA TPN	1	Nos		
	Boys Dormitory MCCB 160A 25KA TPN	4	Nos		
	Emergency Panel MCCB 160A 25KA TPN	1	Nos		
	Kitchen MCCB 100A 35KA TPN	1	Nos		
	Principal Residence MCCB 63A 10KA TPN	1	Nos		
	Guest House MCCB 63A 10KA TPN	1	Nos		
	Spare MCCB 160A 25KA TPN	1	Nos		
	BUS-BAR FEEDERS				
	400AMP ALU.BUS-BAR TPN	1	SETS		
	ENCLOSURE				
	2175*1100*300 (27SFT)				
	PANEL BODY FABRICATED IN 14/16 SWG CRCA SHEET , POWDER COA- TED IN SIEMENCE GREY COLOUR COMPLETE IN ALL RESPECTS UNIVERSAL GLAND PLATES.	1	Set	360,000.00	360,000.00
2	EMERGENCY SUPPLY PANEL				
	Incoming				
	63A MCCB 35 KA TPN	1	Nos		
	INDICATION LIGHT	3	Nos		
	Out going				
	School Building 63A DP	1	Nos		
	Boys Dormitory 63A DP	4	Nos		
	Pump House 63A MCCB 35KA TPN	1	Nos		
	Road Light 100A MCCB 35KA TPN	3	Nos		
	Kitchen 32A DP	1	Nos		
	Principal Residence 32A DP	1	Nos		
	Guest House 32A DP	1	Nos		
	SPARE MCCB 100A	1	Nos		
	BUS-BAR FEEDERS				
	63AMP ALU.BUS-BAR TPN	1	SETS		
	ENCLOSURE	1	SETS		
	1050*1725*300 (20.12SFT)				
	PANEL BODY FABRICATED IN 14/16 SWG CRCA SHEET , POWDER COA- TED IN SIEMENCE GREY COLOUR COMPLETE IN ALL RESPECTS UNIVERSAL GLAND PLATES.	1	Set	75,000.00	75,000.00
3	APFC PANEL 100 KVAR	1	Set	115,000.00	115,000.00

S.No.	Name of Item	Qty	Unit	Rate	Amount
4	SUB PANEL - 1				
	<u>Incoming</u>				
	MCCB 200A 35KA TPN	1	Nos		
	INDICATION LIGHT	3	Nos		
	BUS-BAR FEEDERS				
	200AMP ALU.BUS-BAR TPN	1	SETS		
	<u>Out going</u>				
	Type 3E MCCB 40A 10KA TPN	1	Nos		
	Type 2D MCCB 32A 10KA TPN	1	Nos		
	Guest House MCCB 32A 10KA TPN	1	Nos		
	Boys Dormitory-1 MCCB 160A 35KA TPN	1	Nos		
	Boys Dormitory-2 MCCB 160A 35KA TPN	1	Nos		
	Type 3C MCCB 63A 10KA TPN	1	Nos		
	Type 3D MCCB 63A 10KA TPN	1	Nos		
	SPARE MCCB 160A 35KA TPN	1	Nos		
	SPARE MCCB 63A 10KA TPN	1	Nos		
	<u>Emergency Section</u>				
	<u>Incoming</u>				
	MCCB 100A 35KA TPN	1	Nos		
	<u>Out going</u>				
	Type 3E MCB 32A DP 10KA	1	Nos		
	Type 2D MCB 32A DP 10KA	1	Nos		
	Guest House MCB 32A DP 10KA	1	Nos		
	Boys Dormitory-1 MCB 63A DP 10KA	1	Nos		
	Boys Dormitory-2 MCB 63A DP 10KA	1	Nos		
	Type 3C MCB 32A DP 10KA	1	Nos		
	Type 3D MCB 32A DP 10KA	1	Nos		
	Street Light MCB 32A DP 10KA	3	Nos		
	SPARE MCB 32A DP 10KA	1	Nos		
	SPARE MCB 32A DP 10KA	1	Nos		
	ENCLOSURE				
	2175*1200*300 (28SFT)	1	SETS		
	PANEL BODY FABRICATED IN 14/16 SWG CRCA SHEET , POWDER COA- TED IN SIEMENCE GREY COLOUR COMPLETE IN ALL RESPECTS UNIVERSAL GLAND PLATES.	1	Set	122,500.00	122,500.00
5	SUB PANEL - 2				
	<u>Incoming</u>				
	MCCB 320A 35KA TPN	1	Nos		
	INDICATION LIGHT	3	Nos		
	BUS-BAR FEEDERS				
	320AMP ALU.BUS-BAR TPN	1	SETS		
	<u>Out going</u>				
	Girls Dormitory-1 MCCB 160A 35KA TPN	1	Nos		
	Girls Dormitory-2 MCCB 160A 35KA TPN	1	Nos		
	Kitchen Dinning MCCB 160A 35KA TPN	1	Nos		
	Type 3A MCCB 63A 10KA TPN	1	Nos		
	Type 3B MCCB 63A 10KA TPN	1	Nos		
	Type 2A MCCB 63A 10KA TPN	1	Nos		
	Type 2B MCCB 63A 10KA TPN	1	Nos		
	Type 2C MCCB 63A 10KA TPN	1	Nos		
	Type 4 MCCB 32A 10KA TPN	1	Nos		

S.No.	Name of Item	Qty	Unit	Rate	Amount
	SPARE MCCB 160A 35KA TPN	1	Nos		
	SPARE MCCB 63A 10KA TPN	1	Nos		
	Emergency Section				
	Incoming				
	MCCB 100A 35KA TPN	1	Nos		
	Out going				
	Girls Dormitory-1 MCB 63A DP 10KA	1	Nos		
	Girls Dormitory-2 MCB 63A DP 10KA	1	Nos		
	Kitchen Dinning MCB 32A DP 10KA	1	Nos		
	Type 3A MCB 32A DP 10KA	1	Nos		
	Type 3B MCB 32A DP 10KA	1	Nos		
	Type 2A MCB 32A DP 10KA	1	Nos		
	Type 2B MCB 32A DP 10KA	1	Nos		
	Type 2C MCB 32A DP 10KA	1	Nos		
	Type 4 MCB 32A DP 10KA	1	Nos		
	Street Light MCB 32A DP 10KA	1	Nos		
	SPARE MCB 63A DP 10KA	1	Nos		
	SPARE MCB 32A DP 10KA	1	Nos		
	ENCLOSURE				
	2175*1200*300 (28SFT)	1	SETS		
	PANEL BODY FABRICATED IN 14/16 SWG CRCA SHEET , POWDER COA- TED IN SIEMENCE GREY COLOUR COMPLETE IN ALL RESPECTS UNIVERSAL GLAND PLATES.	1	Set	122,500.00	122,500.00
6	SCHOOL BUILDING PANEL				
	Incoming				
	125A MCCB TP 35 KA	1	Nos		
	Indication light R,Y,B	3	Nos		
	BUS-BAR FEEDERS				
	150A Aluminum bus-bar TPN	1	Set		
	Out going				
	32A MCB TPN 10KA	5	Nos		
	Emergency Section				
	Incoming				
	63Amp MCB dp 10KA	1	Nos		
	Out going				
	25Amp MCB DP 10KA	5	Nos		
	ENCLOSURE				
	950*800*150 (8.5 SFT)				
	PANEL BODY FABRICATED IN 14/16 SWG CRCA SHEET , POWDER COA- TED IN SIEMENCE GREY COLOUR COMPLETE IN ALL RESPECTS UNIVERSAL GLAND PLATES.	1	Set	90,000.00	90,000.00
7	BOYS / GIRLS DORMITORY PANEL				
	Incoming				
	125Amp MCCB TP 35 KA	1	Nos		
	Indication light R,Y,B	3	Nos		
	BUS-BAR FEEDERS				
	150Amp Aluminum bus-bar TPN	1	Set		
	Out going				
	63Amp MCB TPN 10KA	5	Nos		

S.No.	Name of Item	Qty	Unit	Rate	Amount
	63Amp MCB TPN 10KA (SPARE)	1	Nos		
	<u>Emergency Section</u>				
	<u>Incoming</u>				
	63Amp MCB DP 10KA	1	Nos		
	<u>Out going</u>				
	25Amp MCB DP 10KA	5	Nos		
	32Amp MCB DP 10KA	1	Nos		
	ENCLOSURE	1	SETS		
	1050*1450*150 (17 SFT)				
	PANEL BODY FABRICATED IN 14/16 SWG CRCA SHEET , POWDER COA- TED IN SIEMENCE GREY COLOUR COMPLETE IN ALL RESPECTS UNIVERSAL GLAND PLATES.	5	Set	85,000.00	425,000.00
8	KITCHEN & DINNING PANEL				
	<u>Incoming</u>				
	100Amp MCCB TP 25KA	1	Nos		
	Indication light R,Y,B	3	Nos		
	BUS-BAR FEEDERS				
	150Amp Aluminum bus-bar TPN	1	Set		
	<u>Out going</u>				
	63Amp MCB TPN 10KA	2	Nos		
	25-32Amp MCB SP 10KA	12	Nos		
	<u>Emergency Section</u>				
	<u>Incoming</u>				
	32Amp MCB DP 10KA	1	Nos		
	<u>Out going</u>				
	25Amp MCB DP 10KA	2	Nos		
	16AMP MCB SP	6	Nos		
	ENCLOSURE				
	850*950*150 (9SFT)				
	PANEL BODY FABRICATED IN 14/16 SWG CRCA SHEET , POWDER COA- TED IN SIEMENCE GREY COLOUR COMPLETE IN ALL RESPECTS UNIVERSAL GLAND PLATES.	1	Set	70,000.00	70,000.00
9	PRINCIPAL HOUSE & VC PR PANEL & GUEST HOUSE				
	<u>Incoming</u>				
	63Amp MCB TPN 10KA	1	Nos		
	Indication light R,Y,B	3	Nos		
	BUS-BAR FEEDERS				
	100Amp Aluminum bus-bar TPN	1	Set		
	<u>Out going</u>				
	16-32Amp MCB 12 SP 10KA	12	Nos		
	32Amp MCB DP 10KA	1	Nos		
	space for 3 PHASE METER				
	<u>Emergency Section</u>				
	<u>Incoming</u>				
	32Amp MCB DP 10KA	1	Nos		
	16Amp MCB DP 10KA	1	Nos		
	16AMP MCB SP	2			
	ENCLOSURE	1	Set		
	650*500*150 (4SFT)				

S.No.	Name of Item	Qty	Unit	Rate	Amount
	PANEL BODY FABRICATED IN 14/16 SWG CRCA SHEET , POWDER COA- TED IN SIEMENCE GREY COLOUR COMPLETE IN ALL RESPECTS UNIVERSAL GLAND PLATES.	3	Set	33,500.00	100,500.00
10	STREET LIGHT FEEDER PILLER				
	Incoming				
	100Amp MCCB TPN 25KA	1	Nos		
	Indication light R,Y,B	3	Nos		
	BUS-BAR FEEDERS				
	150Amp Aluminum bus-bar TPN	1	Set		
	Out going				
	32Amp MCB DP10KA	6	Nos		
	AC TIMER FOR STREET LINGT	1	Nos		
	ENCLOSURE	1	Set		
	700*700*150 (6SFT)				
	PANEL BODY FABRICATED IN 14/16 SWG CRCA SHEET , POWDER COA- TED IN SIEMENCE GREY COLOUR COMPLETE IN ALL RESPECTS UNIVERSAL GLAND PLATES.	3	Set	38,500.00	115,500.00
11	METER PANEL (TYPE 2/Type3)				
	Incoming				
	MCB 63A 10 KA TPN	1	Nos		
	Indication light R,Y,B	3	Nos		
	BUS-BAR FEEDERS				
	100AMP ALU.BUS-BAR TPN	1	SETS		
	Out going				
	Single Phase Energy Meter	4	Nos		
	MCB 25A DP	4	Nos		
	Emergency Section				
	Incoming				
	MCCB 32A DP	1	Nos		
	Out going				
	16A DP	4	Nos		
	ENCLOSURE	1	Set		
	900*1150*200 (9SFT)				
	PANEL BODY FABRICATED IN 14/16 SWG CRCA SHEET , POWDER COA- TED IN SIEMENCE GREY COLOUR COMPLETE IN ALL RESPECTS UNIVERSAL GLAND PLATES.	5	Set	42,500.00	212,500.00
	TOTAL				1,808,500.00
	MAIN LT PANEL	1	Set	360,000.00	360,000.00
	EMERGENCY SUPPLY PANEL	1	Set	75,000.00	75,000.00
	APFC PANEL 100 KVAR	1	Set	115,000.00	115,000.00
	SUB FEEDER PANEL 01	1	Set	122,500.00	122,500.00
	SUB FEEDER PANEL 02	1	Set	122,500.00	122,500.00
	SCHOOL BUILDING PANEL	1	Set	90,000.00	90,000.00
	BOYS / GIRLS DORMITORY PANEL	5	Set	85,000.00	425,000.00
	KITCHEN & DINNING PANEL	1	Set	70,000.00	70,000.00
	PRINCIPAL & VICE PR & GUEST HOUSE PANEL	3	Set	33,500.00	100,500.00
	STREET LIGHT FEEDER PILLER	3	Set	38,500.00	115,500.00
	METER PANEL	5	Set	42,500.00	212,500.00

S.No.	Name of Item	Qty	Unit	Rate	Amount
					1,808,500.00

DETAIL ESTIMATE OF PHASE-A WORK AT JNV RAMBAN, JAMMU & KASHMIR.

ESTIMATE FOR EXTERNAL ELECTRIFICATION

S.No.	DSR-22	Name of Item	Qty	Unit	Rate	Amount
		<u>G.I. Earth pipe electrode with salt/charcoal:</u>				
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.	4	Set	13,838.00	55,352.00
						-
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.	10	Set	6,855.00	68,550.00
						-
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.ith watering pipe of 2.7 meter long etc. with charcoal or coke and salt complete as required. (for MLTP & DG body)	10	Set	7,472.00	74,720.00
						-
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)	20	Mtr	1,551.00	31,020.00
						-
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)	50	Mtr	706.00	35,300.00
						-
6	5.7	Providing & laying earth connection from earth electrode with 6 SWG dia GI WIRE from earth electrode including connection with GI thimble excavation and refilling etc as required. (for GI pipe earthing of poles)	50.00	Mtr	51.00	2,550.00
						-
7	5.14	Supply & Laying of 25 x 5 mm copper earth strip in surface /recess	20	Mtr	1,162.00	23,240.00
						-
8	5.15	Providing and fixing 25mm x 5 mm G.I. strips on surface or in recess for connections etc. as required	50	Mtr	244.00	12,200.00
						-
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
		<u>LT CABLES LAYING</u>				

S.No.	DSR-22	Name of Item	Qty	Unit	Rate	Amount
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	3,214.47	Rmt	37.00	118,935.39
	7.5.2	Above 35 sq. mm and upto 95 sq. mm	974.12	Rmt	57.00	55,524.84
	7.5.3	Above 95 sq. mm and upto 185 sq. mm	252.54	Rmt	77.00	19,445.58
	7.5.4	Above 185 sq. mm and upto 400 sq. mm	252.54	Rmt	134.00	33,840.36
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)	3,214.47	Rmt	247.00	793,974.09
	14.16.3	120 mm dia (OD-120 mm & ID-103 mm nominal)	974.12	Rmt	368.00	358,476.16
	14.16.4	160 mm dia (OD-160 mm & ID-135 mm nominal)Sqmm	252.54	Rmt	481.00	121,471.74
	14.16.5	200 mm dia (OD-200 mm & ID-175 mm nominal)	252.54	Rmt	668.00	168,696.72
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	6	Nos	315.00	1,890.00
	9.1.33	4 Core 16 Sqmm	8	Nos	309.00	2,472.00
	9.1.29	3.5 Core 240 Sqmm	2	Nos	1,027.00	2,054.00
	9.1.13	3 Core 95 Sqmm	4	Nos	542.00	2,168.00
	9.1.6	2 Core 50 Sqmm	4	Nos	351.00	1,404.00
	9.1.3	2 Core 16 Sqmm	6	Nos	256.00	1,536.00
	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 load of 50 m.				
	2.13.1	All kinds of soil				
	2.13.1.2	Pipes, cables etc. exceeding 80 mm dia. but not exceeding 300 mm dia.	60.5	Meter	933.35	56,467.68
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	60.5	Meter	493.10	29,832.55

DETAIL ESTIMATE OF PHASE-A WORK AT JNV RAMBAN, JAMMU & KASHMIR.

ESTIMATE FOR EXTERNAL ELECTRIFICATION

S.No.	DSR-21	Name of Item	Qty	Unit	Rate	DSR-Amount	MR Amount
1	M.R.	Supply of Diesel Generating Set, Prime Power Rating of KVA as given below, 415 volts at 1500 RPM, 0.8 lagging power factor at 415 V suitable for 50 Hz, 3 Phase system & consisting of the following:-	1	No	625,000.00		625,000.00
a)		Diesel Engine :					
		Diesel engine 4 stroke water cooled, electric start, of suitable BHP at 1500 RPM suitable for output of alternator at 40 Degree C & at 1000 metre MSL and conforming to BS 5514, BS 649, IS 10000, capable of taking 10% over loading for one hour after 12 hours of contineous operation. The engine will be fitted complete with all the required accessories.					
b)		Engine mounted instrument Panel fitted with and having display of following :-					
		i) Start-stop switch with key/push button.					
		ii) Water temperature indication.					
		iii) Lubrication oil pressure indication.					
		iv) Lubrication oil temperature indication.					
		v) Battery charging indication					
		vi) RPM indication					
		vii) Over speed indication					
		viii) Low lub Oil trip indication					
		ix) Engine hours indication					
c)		Alternator					
		Synchronous alternator rated at given KVA, 415 volts at 1500 RPM, 3 phase 50 Hz, AC supply with 0.8 lagging power factor at 40 Degree C, MSL. The alternator shall have SPDP enclosure, brushless, continuous duty, self-excited and self-regulated through AVR conforming to IS 4722/BS 2613 suitable for tropical conditions and with class - F/H insulation.					
d)		Base Frame Foundation					
		Both the engine and alternator shall be mounted on suitable base frame made of MS channel with necessary reinforcement.					
e)		Exhaust System:					
		Dry exhaust manifold with hospital exhaust silencer.					
f)		Starting System :					
		12 V DC starting system comprising of starter motors voltage regulator and arrangement for initial excitation complete with suitable number of batteries.					
g)		Accoustic and weather proof enclosure with arrangement for fresh air intake for cooling of the engine & alternator, extraction and discharging hot air in to the atmosphere as per CPCB requirements.					
		25 KVA rating DG Set					
2		RCC Plateform :- (for D.G. Set)					

S.No.	DSR-21	Name of Item	Qty	Unit	Rate	DSR-Amount	MR Amount
a)	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.	3.72	Cum	286.85	1,067.08	
3	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 .	6.47	SQM	307.95	1,992.44	
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).	1.28	Cum	6,050.65	7,744.83	
5	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.	2.23	Cum	253.95	566.31	
6	5.22	Steel reinforcement for R.C.C. work including straightening, cutting,bending, placing in position and binding all complete upto plinth level					
	5.22.6	Thermo-Mechanically Treated bars	994.77	KG.	89.65	89,181.13	
7	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 (zone-III): 3 graded stone aggregate 20 mm nominal size)	4.42	Cum.	8,364.20	36,969.76	
8	13.9	Cement plaster 1:3 (1 cement: 3 coarse sand) finished with a floating coat of neat cement.					
	13.9.2	20 mm cement plaster	13.96	Sqm	507.85	7,089.59	
		Total				144,611.14	625,000.00

DETAIL ESTIMATE OF PHASE-A WORK AT JNV RAMBAN, JAMMU & 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	592.05	53,284.50	
	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	690.70	6,907.00	
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	971.30	67,991.00	
	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	2,194.85	65,845.50	
	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	308.55	617.10	
	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.	23.14.3	3	Nos	1,827.00	5,481.00	
D	200 mm clamp						
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	1,479.25	23,224.23	
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	916.80	91,680.00	
9	Supply & installation of submersible pump of make KSB 7.5 HP with control panel, support wire etc. complete.	NDSR	1	Set	59,400.00		59,400.00
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

S.N.	DESCRIPTION OF ITEM	DSR-21	QTY	UNIT	RATE	AMOUNT DSR	AMOUNT NON-DSR
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	1,061.25	100,818.75	
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						
	200 mm nominal size dia	23.4.3	70	M	1,099.25	76,947.50	
	TOTAL					492,796.58	225,760.40

DETAIL ESTIMATE OF PHASE-A WORK AT JNV RAMBAN,JAMMU & KASHMIR**SUMMARY OF CIVIL WORKS**

S. No.	Description	UGWT Amount (Rs)	
	DSR 2021		
1	EARTH WORK	510951.10	
2	CONCRETE WORK	17058.30	
3	REINFORCED CEMENT CONCRETE	1025057.80	
4	BRICK WORK	79430.66	
5	FLOORING	149706.73	
6	FINISHING	95139.13	
7	WATER PROOFING	83175.20	
	Total (A)	1960518.92	

DETAIL ESTIMATE OF PHASE-A WORK AT JNV RAMBAN,JAMMU & KASHMIR						
COST ESTIMATE (UGWT)						
S. No.	DSR.Rf. 2021	Description	Unit	Quantity of UGWT	Rate	Amount (Rs.)
		SCHEDULE A:- DSR ITEMS				
1.00	2.00	EARTH WORK				
1.01	2.6	Earth work in excavation by mechanical means (Hydraulic excavator)/manual means over areas (exceeding 30 cm in depth, 1.5 m in width as well as 10 sqm on plan) including getting out and disposal of excavated earth lead upto 50 m and lift upto 1.5 m, as directed by Engineer-in-charge.				
a)	2.6.1	All kinds of soil	Cum	314.00	505.45	158711.30
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	188.00	253.95	47742.60
1.03	2.26	Extra for every additional lift of 1.5 m or part thereof in excavation / banking excavated or stacked materials.				
a)	2.26.1	All kinds of soil.				
b)		1.5 m to 3.0 m	Cum	108.00	104.50	11286.00
c)		3.0 m to 4.5 m	Cum	100.00	209.00	20900.00
1.04	2.27	Supplying and filling in plinth with sand under floors, including watering, ramming, consolidating and dressing complete.	Cum	126.00	2161.20	272311.20
		Total of sub-head				510951.10
2.00	4.00	CONCRETE WORK				
2.01	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	2.82	6050.65	17058.30
		Total of sub-head				17058.30
3.00	5.00	REINFORCED CEMENT CONCRETE				
3.01	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	12.49	307.95	3847.07
b)	5.9.2	Walls (any thickness) including attached pilasters, buttersesses, plinth and string courses etc.	Sqm	189.00	669.55	126544.95
c)	5.9.3	Suspended floors, roofs, landings, balconies and access platform	Sqm	35.00	766.55	26829.25
3.02	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	5140.00	89.65	460801.00

S. No.	DSR.Rf. 2021	Description	Unit	Quantity of UGWT	Rate	Amount (Rs.)
3.03	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).				
		(Note :- Cement content considered in this item is @ 330 kg/cum. Excess/less cement used as per design mix is payable/recoverable separately).				
a)	5.33.1	All works upto plinth level	Cum	50.90	7997.30	407035.54
		Total of sub-head				1025057.80
4.00	6.00	BRICK WORK				
4.01	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 :				
	6.4.2	Cement mortar 1:6 (1 cement : 6 coarse sand)	Cum	9.58	8288.35	79430.66
		Total of sub-head				79430.66
5.00	11.00	FLOORING				
5.01	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	99.45	1063.45	105760.10
5.02	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	46.97	935.60	43946.63
		Total of sub-head				149706.73
6.00	13.00	FINISHING				
6.01	13.4	12 mm cement plaster of mix				
	13.4.2	1:6 (1 cement: 6 coarse sand)	Sqm	129.00	294.35	37971.15
6.02	13.5	15 mm cement plaster on rough side of single or half brick wall of mix:				
	13.5.2	1:6 (1 cement: 6 coarse sand)	Sqm	57.96	339.10	19652.54
6.03	13.16	6mm cement plaster of mix				
	13.16.1	1:3 (1 cement : 3 fine sand)	Sqm	25.00	253.05	6326.25
6.04	13.37	White washing with lime to give an even shade :				
	13.37.1	New work (three or more coats)	Sqm	25.00	32.45	811.25
6.05	13.41	Distemping with oil bound washable distemper of approved brand and manufacture to give an even shade :				
	13.41.1	New work (two or more coats) over and including water thinnable priming coat with cement primer	Sqm	129.00	162.55	20968.95
6.06	13.47	Finishing walls with Premium Acrylic Smooth exterior paint with Silicone additives of required shade:				

S. No.	DSR.Rf. 2021	Description	Unit	Quantity of UGWT	Rate	Amount (Rs.)
	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	57.96	162.35	9408.99
		Total of sub-head				95139.13
7.00	22.00	WATER PROOFING				
7.01	22.4	Providing and Placing in position suitable PVC water stops conforming to IS:12200 for construction/ expansion joints between two RCC members and fixed to the reinforcement with binding wire before pouring concrete etc. complete :				
	22.4.1	Serrated with central bulb (225 mm wide, 8-11 mm thick)	Metre	77.00	285.60	21991.20
7.02	22.23	Providing and applying integral crystalline slurry of hydrophilic in nature for waterproofing treatment to the RCC structures like retaining walls of the basement, water tanks, roof slabs, podiums, reservoir, sewage & water treatment plant, tunnels/ subway and bridge deck etc., prepared by mixing in the ratio of 5 : 2 (5 parts integral crystalline slurry : 2 parts water) for vertical surfaces and 3 : 1 (3 parts integral crystalline slurry : 1 part water) for horizontal surfaces and applying the same from negative (internal) side with the help of synthetic fiber brush. The material shall meet the requirements as specified in ACI- 212-3R-2010 i.e by reducing permeability of concrete by more than 90% compared with control concrete as per DIN 1048 and resistant to 16 bar hydrostatic pressure on negative side. The crystalline slurry shall be capable of self-healing of cracks up to a width of 0.50mm. The work shall be carried out all complete as per specification and the direction of the engineer-in-charge. The product performance shall carry guaranteed for 10 years against any leakage.				
a)	22.23.1	For vertical surface two coats @0.70 kg per sqm per coat	Sqm	100.00	406.25	40625.00
b)	22.23.2	For horizontal surface one coat @1.10 kg per sqm.	Sqm	66.00	311.50	20559.00
		Total of sub-head				83175.20

DETAIL ESTIMATE OF PHASE-A WORK AT JNV RAMBAN, JAMMU & KASHMIR.

Cost of Septic Tank

S.N.	DESCRIPTION OF WORK	
1	Septic Tank 250 User (2 no)	1,691,685.48
	Total	1,691,685.48

DETAIL ESTIMATE OF PHASE-A WORK AT JNV RAMBAN, JAMMU & KASHMIR.

ABSTRACT FOR RCC SEPTIC TANK 250 USERS

S.N.	DSR-21	Description	Qty	Unit	Rate	Amount
1	2.9	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.				
	2.9.1	All kinds of soil. 0.00-1.50m	154.930	Cum	523.50	81,105.86
2	2.26.2	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 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	73.390	Cum	187.40	13,753.29
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.	38.730	Cum	253.95	9,835.48
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).	3.540	Cum	6,050.65	21,419.30
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)	29.870	Cum	8,364.20	249,838.65
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.	10.420	Sqm	307.95	3,208.84
7	5.9.3	Suspended floors, roofs, landings, balconies and access platform. with water proof ply 12mm thick.	149.100	Sqm	766.55	114,292.61
8	5.9.5	Lintels, beams, plinth beams, girders, bressumers and cantilevers. with water proof ply 12 mm thick	6.780	Sqm	608.35	4,124.61
9	5.9.16	Edges of slabs and breaks in floors and walls.				
	5.9.16.1	Under 20 cm wide	25.840	Meter	181.90	4,700.30
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.	2,987.000	Kg	89.65	267,784.55
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.				
	11.3.1	40 mm thick with 20 mm nominal size stone aggregate	27.000	Sqm	545.00	14,715.00
12	13.16	6 mm cement plaster of mix :				
	13.16.1	1:3 (1 cement : 3 fine sand)	74.300	Sqm	253.05	18,801.62

S.N.	DSR-21	Description	Qty	Unit	Rate	Amount
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	1,494.20	2,988.40
14	19.5.2	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 :With 20 mm diameter round bar	16.000	Nos	420.00	6,720.00
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.	4.200	Meter	1,077.40	4,525.08
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	28,029.15	28,029.15
		Cost for 1 Nos Septic Tank				845,842.74
		Cost for 2 Nos Septic Tank				1,691,685.48

DETAIL ESTIMATE OF PHASE-A WORK AT JNV RAMBAN, JAMMU & KASHMIR.

Cost of Septic Tank

S.N.	DESCRIPTION OF WORK	
1	Septic Tank 300 User (1 no)	1,146,270.39
	Total	1,146,270.39

DETAIL ESTIMATE OF PHASE-A WORK AT JNV RAMBAN, JAMMU & KASHMIR.

ABSTRACT FOR RCC SEPTIC TANK 300 USERS

S.N.	DSR-21	Description	Qty	Unit	Rate	Amount
1	2.9	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.				
	2.9.1	All kinds of soil. 0.00-1.50m	217.400	Cum	523.50	113,808.90
2	2.26.2	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 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	102.980	Cum	187.40	19,298.45
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.	54.350	Cum	253.95	13,802.18
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).	5.470	Cum	6,050.65	33,097.06
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)	41.460	Cum	8,364.20	346,779.73
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.	12.020	Sqm	307.95	3,701.56
7	5.9.3	Suspended floors, roofs, landings, balconies and access platform. with water proof ply 12mm thick.	186.700	Sqm	766.55	143,114.89
8	5.9.5	Lintels, beams, plinth beams, girders, bressumers and cantilevers. with water proof ply 12 mm thick	11.300	Sqm	608.35	6,874.36
9	5.9.16	Edges of slabs and breaks in floors and walls.				
	5.9.16.1	Under 20 cm wide	29.840	Meter	181.90	5,427.90
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.	4,146.000	Kg	89.65	371,688.90
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.				
	11.3.1	40 mm thick with 20 mm nominal size stone aggregate	45.000	Sqm	545.00	24,525.00
12	13.16	6 mm cement plaster of mix :				
	13.16.1	1:3 (1 cement : 3 fine sand)	86.500	Sqm	253.05	21,888.83

S.N.	DSR-21	Description	Qty	Unit	Rate	Amount
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	1,494.20	2,988.40
14	19.15.2	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 :With 20 mm diameter round bar	16.000	Nos	420.00	6,720.00
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.	4.200	Meter	1,077.40	4,525.08
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	28,029.15	28,029.15
		Cost for 1 Nos Septic Tank				1,146,270.39

**DETAIL ESTIMATE OF PHASE-A WORK AT JNV RAMBAN, JAMMU &
KASHMIR.**

Cost of Septic Tank

S.N.	DESCRIPTION OF WORK	
1	Septic Tank 100 User (1 nos)	445,898.33
	Total	445,898.33

DETAIL ESTIMATE OF PHASE-A WORK AT JNV RAMBAN, JAMMU & KASHMIR.

ABSTRACT FOR SEPTIC TANK 100 USERS

S.No.	DSR-21	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	90.410	Cum	286.85	25,934.11
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	40.180	Cum	104.50	4,198.81
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.	22.600	Cum	253.95	5,739.27
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	6,050.65	10,649.14
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)	15.840	Cum	8,364.20	132,488.93
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	307.95	2,174.13
b)	5.9.2	Walls (any thickness) including attached pilasters, butteresses, plinth and string courses etc.	75.450	Sqm	669.55	50,517.55
7	5.9.3	Suspended floors, roofs, landings, balconies and access platform.	11.970	Sqm	766.55	9,175.60
8	5.9.5	Lintels, beams, plinth beams, girders, bressumers and cantilevers.	2.373	Sqm	608.35	1,443.61
9	5.9.16	Edges of slabs and breaks in floors and walls.				
	5.9.16.1	Under 20 cm wide	17.440	Meter	181.90	3,172.34
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.	1,584.000	Kg	89.65	142,005.60

S.No.	DSR-21	Description	Qty	Unit	Rate	Amount
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.				
	11.3.1	40 mm thick with 20 mm nominal size stone aggregate	11.970	Sqm	545.00	6,523.65
12	13.16	6 mm cement plaster of mix :				
	13.16.1	1:3 (1 cement : 3 fine sand)	44.000	Sqm	253.05	11,134.20
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	1,494.20	2,988.40
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	487.10	5,845.20
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	1,077.40	3,878.64
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	28,029.15	28,029.15
		Cost for 1 Nos Septic Tank				445,898.33

DETAIL ESTIMATE OF PROPOSED JNV PH-A, JNV RAMBAN, JAMMU & KASHMIR.

Abstract Cost of RR Stone Masonary Toe Wall (Based on DSR-2021)

S.No.	Details	Nos.	Rate	Length	Amount
1	Cost estimation of Retaining Wall				
1	Construction of RR Stone Masonary Toe Wall 1.565 mtrs height	1.00	6,782.98	502.93	3,411,362.40
	Total				3,411,362.40

DETAIL ESTIMATE OF PROPOSED JNV PH-A, JNV RAMBAN, JAMMU & KASHMIR.**Abstract for Toe Wall Height 1.565 Meter****COST ESTIMATE**

S. No.	DSR-21	DESCRIPTION	Quantity	UNIT	Rate	Total Amount (Rs.)
1.00	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	1.51	Cum	286.85	433.72
2.00	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	0.94	Cum	253.95	238.71
3.00	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)	0.07	Cum	6050.65	399.34
4.00	4.1	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				
	4.1.3	1:2:4 (1 Cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size)	0.02	Cum	7365.15	125.21
5.00	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.	1.70	KG	89.65	152.41
6.00	7.1	Random rubble masonry with hard stone in foundation and plinth including levelling up with cement concrete 1:6:12 (1 cement : 6 coarse sand : 12 graded stone aggregate 20mm nominal size) at plinth level with :				
	7.1.1	Cement mortar 1:6 (1 cement : 6 coarse sand)	0.67	Cum	6653.45	4434.03

7.00	13.33	Pointing on stone work with cement mortar 1:3 (1 cement : 3 fine sand)				
	13.33.1	Flush/ Ruled pointing	3.13	Sqm	319.35	999.57
					Total	6,782.98

DETAILED ESTIMATE FOR PROPOSED CONSTRUCTION OF BOUNDARY WALL & MAIN ENTRANCE GATE JNV PHASE-A & B WORK AT JNV RAMBAN, JAMMU & KASHMIR

SUMMARY OF COST

S.N.	Description	DSR-21 Amount	MR Amount
1	C/o Boundry Wall (1.80 mtr Height compound wall+ Concertina Coil fencing over compound wall with RCC Column 0.30x0.30). Boundary Wall Length = 1573.99 Meter.	31,474,390.42	
2	C/o Main Gate (RCC Frame Structure)	2,236,915.01	35,380.00
	SUB - TOTAL(A)	33,711,305.43	35,380.00

DETAILED ESTIMATE FOR PROPOSED CONSTRUCTION OF BOUNDARY WALL & MAIN ENTRANCE GATE JNV PHASE-A & B WORK AT JNV RAMBAN, JAMMU & KASHMIR

ABSTRACT OF COST

(RCC Frame Structure Boundary Wall)

S.N.	DSR-21	Description	Quantity	Unit	Rate	DSR 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.	3,506.51	Cum	286.85	1,005,842.00
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 up to 1.5 m.	2,103.91	Cum	253.95	534,287.94
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:				
	4.1.10	1:5:10 (1 Cement : 5 coarse sand : 10 graded stone aggregate 40 mm nominal size).	173.91	Cum	6,050.65	1,052,269.00
4	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.	1,082.76	Sqm	307.95	333,436.00
5	5.9.6	Columns, Pillars, Piers, Abutments, Posts and Struts.	2,592.96	Sqm	804.25	2,085,388.00
6	5.9.5	Lintels, beams, plinth beams, girders, bressumers and cantilevers.	1,213.51	Sqm	608.35	738,239.00
7	5.9.16	Edges of slabs and breaks in floors and walls.				
	5.9.16.1	Under 20 cm wide	3,147.98	Rmt	181.90	572,618.00
8	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).				
	5.33.1	All works up to plinth level.	492.30	Cum	7,997.30	3,937,071.00
9	5.33.2	All works above plinth level up to floor V level.	180.80	Cum	10,080.15	1,822,491.00

S.N.	DSR-21	Description	Quantity	Unit	Rate	DSR Amount
10	5.22	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete up to plinth level.				
	5.22.6	Thermo-Mechanically Treated bars.	67,310.00	Kg	89.65	6,034,342.00
11	7.1	Random rubble masonry with hard stone in foundation and plinth including levelling up with cement concrete 1:6:12 (1 cement : 6 coarse sand : 12 graded stone aggregate 20 mm nominal size) upto plinth level with :				
	7.1.1	Cement mortar 1:6 (1 cement : 6 coarse sand)	537.44	Cum	6,653.45	3,575,857.48
12	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 :				
	6.4.2	Cement mortar 1:6 (1 cement : 6 coarse sand)	480.44	Cum	8,288.35	3,982,055.00
13	13.4	12 mm cement plaster of mix :				
	13.4.2	1:6 (1 cement: 6 coarse sand)	3,690.36	Sqm	294.35	1,086,257.00
14	13.5	15 mm cement plaster on the rough side of single or half brick wall of mix :				
	13.5.2	1:6 (1 cement: 6 coarse sand)	3,690.36	Sqm	339.10	1,251,401.00
15	13.50	Applying priming coat :				
	13.50.3	With ready mixed red oxide zinc chromate primer of approved brand and manufacture on steel galvanised iron/ steel works	450.67	Sqm	55.50	25,012.00
16	13.61	Painting with synthetic enamel paint of approved brand and manufacture to give an even shade :				
	13.61.1	Two or more coats on new work.	450.67	Sqm	131.45	59,241.00
17	13.47	Finishing walls with Premium Acrylic Smooth exterior paint with Silicone additives of required shade				
	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).	7,380.72	Sqm	162.35	1,198,260.00
18	13.8	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.				
			7,380.72	Sqm	123.85	914,102.00

S.N.	DSR-21	Description	Quantity	Unit	Rate	DSR Amount
19	16.53	Providing and fixing concertina coil fencing with punched tape concertina coil 600 mm dia 10 metre openable length (total length 90 m) having 50 no rounds per 6 metre length, upto 3m height of wall with existing angle iron 'Y' shaped placed 2.4m or 3.00m apart and with 9 horizontal R.B.T. reinforced barbed wire, studied with 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 43.478gm/ metre (cost of M.S. angle, C.C. blocks shall be paid separately)	1,573.99	Rmt	303.65	477,942.00
20	16.19	Supplying at site Angle iron post & strut of required size including bottom to be split and bent at right angle in opposite direction for 10 cm length and drilling holes upto 10 mm dia. etc. complete.	7,886.73	Kg	99.95	788,279.00
		SUB TOTAL CARRIED OVER TO SUMMARY				31,474,390.42
		SAY			Lacs	314.74

DETAILED ESTIMATE FOR PROPOSED CONSTRUCTION OF BOUNDARY WALL & MAIN ENTRANCE GATE JNV PHASE-A & B WORK AT JNV RAMBAN, JAMMU & KASHMIR

Abstract							
S.No.	DSR-21	Description	Quantity	Unit	Rate	DSR-21 Amount	MR-Amount
1	2.8.1	Earth work in excavation by mechanical means (Hydraulic excavator) /	89.46	Cum	286.85	25,661.60	
2	2.25	Backfilling of Excavated Earth	35.78	Cum	253.95	9,086.33	
3	4.1.10	PCC 1:5:10 below Footings	15.09	Cum	6,050.65	91,304.31	
4	4.2.3	Coping 1:1.5:3	0.41	Cum	9,793.75	4,015.44	
5	5.33.1	Providing and laying design mix M-25 upto PL	20.04	Cum	7,997.30	160,265.89	
6	5.33.2	Providing and laying design mix M-25 above PL	23.73	Cum	10,080.15	239,201.96	
7	5.9.1	C/S for Mass concrete	29.24	Sqm	307.95	9,004.46	
8	5.9.6	C/S for Column	134.72	Sqm	804.25	108,348.56	
9	5.11.1	C&S of Extra for additional height over 3.5m	203.69	Sqm	319.25	65,028.03	
10	5.9.16.1	C/S for Edges	43.22	Sqm	181.90	7,861.72	
11	5.9.20	C/s for Slab	39.19	Sqm	853.75	33,458.46	
12	5.9.21	C/S for Beam	114.41	Sqm	699.45	80,024.07	
13	5.22.6	Reinforcement for RCC work	6,565.50	Kg	89.65	588,597.08	
14	6.4.2	Cement mortar 1:6 (1 cement : 6 coarse sand)	22.43	Cum	8,288.35	185,907.69	
15	6.13.2	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)	10.73	Sqm	1,018.05	10,923.68	
16	6.15	Extra for providing and placing in position 2 Nos 6mm dia. M.S. bars at every third course of half brick masonry.	10.73	Sqm	86.45	927.61	
17	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.					
	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)	38.68	Kg	114.65	4,434.09	
18	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).					
	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)	160.38	Kg	175.65	28,170.75	

S.No.	DSR-21	Description	Quantity	Unit	Rate	DSR-21 Amount	MR-Amount
19	10.30	Providing & fixing glass panes with putty and glazing clips in steel doors, windows, clerestory windows, all complete with :					
	10.30.1	4.0 mm thick glass panes	4.19	Sqm	940.30	3,935.16	
20	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:					
	9.21.1	35 mm thick including ISI marked Stainless Steel butt hinges with necessary screws	7.18	Sqm	2,015.75	14,463.01	
21	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.					
	9.48.1	Fixed to steel windows by welding	83.25	Kg	181.00	15,068.25	
22	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 :					
	9.96.2	200x10 mm	2.00	Each	234.90	469.80	
23	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 :					
	9.97.3	200x10 mm	2.00	Each	90.80	181.60	
24	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.					
	9.101.2	Twin rubber stopper	2.00	Each	62.25	124.50	
25	10.15.1	Fixing with 15x3 mm lugs 10 cm. long.	917.09	Kg	146.55	134,399.54	
26	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.).	33.00	Kg	612.25	20,204.25	
27	12.41.2	PVC Rain Water Pipe	10.00	Rmt	319.75	3,197.50	
28	13.4	12 mm cement plaster of mix					
	13.4.2	1:6 (1 cement: 6 coarse sand)	26.91	Sqm	294.35	7,920.96	
29	13.5	15 mm cement plaster on rough side of single or half brick wall of mix:					
	13.5.2	1:6 (1 cement: 6 coarse sand)	177.44	Sqm	339.10	60,169.90	

S.No.	DSR-21	Description	Quantity	Unit	Rate	DSR-21 Amount	MR-Amount
30	13.8	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.	123.85	Sqm	214.30	26,541.06	
31	13.16.1	6mm Ceiling Plaster 1:3	43.24	Sqm	253.05	10,941.88	
32	13.41.1	Oil Bound Distemper	70.15	Sqm	162.55	11,402.88	
33	13.47.1	Preimun Acrylic Smooth Exterior Paint	177.44	Sqm	162.35	28,807.38	
34	13.50.1	With ready mixed pink or Grey primer of approved brand and manufacture on wood work (hard and soft wood)	14.35	Sqm	61.45	881.81	
35	13.50.3	With ready mixed red oxide zinc chromate primer of approved brand and manufacture on steel galvanised iron/steel works	61.87	Sqm	55.50	3,433.79	
36	13.62.1	Synthetic Enamel Paint	76.22	Sqm	191.40	14,588.51	
37	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) :					
	11.26.1	25 mm thick.	3.24	Sqm	1,706.60	5,529.38	
38	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 @ 3.3 kg/sqm including pointing the joints with white cement and matching pigment etc., complete.	1.80	Sqm	935.60	1,684.08	
39	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.	9.77	Sqm	1,063.45	10,384.59	
40	2.27	Supplying and filling in plinth with sand under floors, including watering, ramming, consolidating and dressing complete.	14.21	Cum	2,161.20	30,710.65	
41	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.	137.05	Sqm	951.00	130,334.55	
42	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:					

S.No.	DSR-21	Description	Quantity	Unit	Rate	DSR-21 Amount	MR-Amount
	17.1.1	White Vitreous china Orissa pattern W.C. pan of size 580x440 mm with integral type foot rests	1.00	Each	5,781.35	5,781.35	
43	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:					
	17.7.4	White Vitreous China Flat back wash basin size 550x 400 mm with single 15 mm C.P. brass pillar tap	1.00	Each	2,731.45	2,731.45	
44	17.35	Providing and fixing soil, waste and vent pipes :					
	17.35.1	100 mm dia.					
	17.35.1.2	Centrifugally cast (spun) iron socket & spigot (S&S) pipe as per IS: 3989	2.00	meter	1,077.40	2,154.80	
45	17.35.2	75mm diameter					
	17.35.2.2	Centrifugally cast (spun) iron socketed pipe as per IS: 3989	2.00	meter	1,042.10	2,084.20	
46	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. :					
	17.37.1	For 100 mm dia. pipe	1.00	Each	308.45	308.45	
	17.37.2	For 75 mm dia. pipe	1.00	Each	304.45	304.45	
47	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					
	17.38.1.2	Sand cast iron S&S as per IS - 3989	1.00	Each	597.60	597.60	
	17.38.2	75 mm					
	17.38.2.2	Sand cast iron S&S as per IS- 3989	1.00	Each	453.40	453.40	
48	17.39	Providing and fixing plain bend of required degree.					
	17.39.1	100 mm					
	17.39.1.2	Sand cast iron S&S as per IS : 3989	1.00	Each	439.75	439.75	
	17.39.2	75 mm					
	17.39.2.2	Sand cast iron S&S as per IS - 3989	1.00	Each	298.20	298.20	
49	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	1.00	Each	439.75	439.75	
	17.40.2	75 mm dia					
	17.40.2.2	Sand cast iron S&S as per IS - 3989	1.00	Each	405.25	405.25	
50	17.43	Providing and fixing single equal plain junction of required degree with access door, insertion rubber washer 3mm thick, bolts and nuts complete.					
	17.43.1	100x100x100mm					
	17.43.1.2	Sand cast iron S&S as per IS - 3989	1.00	Each	731.40	731.40	
	17.43.2	75x75x75mm					
	17.43.2.2	Sand cast iron S&S as per IS - 3989	1.00	Each	573.80	573.80	
51	17.44	Providing and fixing single equal plain junction of required degree					
	17.44.1	100x100x100mm					
	17.44.1.2	Sand cast iron S&S as per IS - 3989	1.00	Each	707.30	707.30	
	17.44.2	75x75x75mm					
	17.44.2.2	Sand cast iron S&S as per IS - 3989	1.00	Each	498.90	498.90	
52	17.55	Providing and fixing door piece, insertion rubber washer 3mm thick, bolts & nuts complete :					
	17.55.1	100 mm					
	17.55.1.2	Sand cast iron S&S as per IS - 3989	1.00	Each	611.00	611.00	
	17.55.2	75 mm					
	17.55.2.2	Sand cast iron S&S as per IS - 3989	1.00	Each	453.40	453.40	

S.No.	DSR-21	Description	Quantity	Unit	Rate	DSR-21 Amount	MR-Amount
53	17.56	Providing and fixing terminal guard :					
	17.56.1	100 mm					
	17.56.1.2	Sand cast iron S&S as per IS - 3989	1.00	Each	439.75	439.75	
	17.56.2	75 mm					
	17.56.2.2	Sand cast iron S&S as per IS - 3989	1.00	Each	311.55	311.55	
54	17.57	Providing and fixing collar :					
	17.57.1	100 mm					
	17.57.1.2	Sand cast iron S&S as per IS - 3989	1.00	Each	439.75	439.75	
	17.57.2	75 mm					
	17.57.2.2	Sand cast iron S&S as per IS - 3989	1.00	Each	271.45	271.45	
55	17.58	Providing lead caulked joints to sand cast iron/centrifugally cast (spun) iron pipes and fittings of diameter :					
	17.58.1	100 mm	1.00	Each	549.65	549.65	
	17.58.2	75 mm	1.00	Each	466.40	466.40	
56	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	1.00	Each	128.65	128.65	
	17.59.2	75 mm	1.00	Each	80.10	80.10	
57	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					
	17.60.1.2	Sand Cast Iron S&S as per IS: 1729	1.00	Each	1,403.45	1,403.45	
58	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 and pointing in cement mortar 1:4 (1 cement : 4 coarse sand) :					
	17.61.1	100 mm dia	1.00	Metre	615.70	615.70	
59	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	2.00	Metre	69.55	139.10	
	17.65.2	75 mm diameter pipe	2.00	Metre	52.90	105.80	
60	17.69	Providing and fixing PTMT Waste Coupling for wash basin and sink, of approved quality and colour.					
	17.69.2	Waste coupling 38 mm dia of 83 mm length and 77mm breadth, weighing not less than 60 gms	1.00	Each	109.70	109.70	
61	17.70	Providing and fixing PTMT Bottle Trap for Wash basin and sink.					
	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	1.00	Each	325.10	325.10	
62	18.12	Providing and fixing G.I. pipes complete with G.I. fittings including trenching & refilling.					
		External work					
	18.12.4	32mm dia nominal bore	1.00	Metre	457.70	457.70	

S.No.	DSR-21	Description	Quantity	Unit	Rate	DSR-21 Amount	MR-Amount
63	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.					
	18.8.1	15 mm nominal outer dia Pipes	2.00	Metre	441.15	882.30	
64	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 :					
	18.13.1	25 to 40 mm nominal bore	1.00	Each	757.10	757.10	
65	18.16	Providing and fixing brass stop cock of approved quality :					
	18.16.1	15 mm nominal bore	1.00	Each	303.85	303.85	
66	18.17	Providing and fixing gun metal gate valve with C.I. wheel of approved quality (screwed end) :					
	18.17.1	25mm nominal bore	1.00	Each	532.35	532.35	
67	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	1.00	Each	399.15	399.15	
68	18.20	Providing and fixing brass ferrule with C.I. mouth cover including boring and tapping the main :					
	18.20.3	25 mm nominal bore	1.00	Each	447.00	447.00	
69	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	1.00	Each	85.20	85.20	
70	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.					
	18.48B	Rectangular tank	250.00	Lite	9.70	2,425.00	
71	18.49	Providing and fixing C.P. brass bib cock of approved quality conforming to IS:8931 :					
	18.49.1	15 mm nominal bore	1.00	Each	434.20	434.20	
72	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.					
	18.51.1	15 mm nominal bore	1.00	Each	708.40	708.40	
73	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.	1.00	Each	594.75	594.75	
74	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	15 mm nominal bore	1.00	Each	500.35	500.35	
75	18.58	Providing and fixing PTMT grating of approved quality and colour.					
	18.58.1	Circular type.					

S.No.	DSR-21	Description	Quantity	Unit	Rate	DSR-21 Amount	MR-Amount
	18.58.1.1	100 mm nominal dia.	1.00	Each	33.20	33.20	
76	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.	1.00	Each	377.10	377.10	
77	1.8.3	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 medium class pvc conduit, with piano type switch, phenolic laminated sheet, suitable GI box and earthing the point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable etc. as required.	12.00	Sqm	966.00	11,592.00	
78	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.					
	1.14.1	2 X 1.5 sq. mm + 1 X 1.5 sq. mm earth wire.	20.00	Rm	146.00	2,920.00	
79	MR	Supply of 15W SURFACE MOUNTED LED with all accessories as per standard item..(Such as Panasonic ADL04R156 or Equivalent).	12.00	Rm	1,840.00		22,080.00
80	1.25	Supply 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.	1.00	each	342.00	342.00	
81	MR	Supply of AC 230/250 volts, 50 HZ ceiling fan 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).					
		1200 mm sweep	1.00	each	2,470.00		2,470.00
82	MR	Supply of AC 230/250 volts, 50 HZ exhaust fans including providing nuts, bolts, mounting FRLSame and other accessories etc. Complete as required (Such as Ventil Air - DX White or Equivalent).					
		300 mm sweep	1.00	each	3,230.00		3,230.00
83	1.45	Installation, testing and commissioning of ceiling fan 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.					
			1.00	each	203.00	203.00	
84	1.50	Installation of exhaust fan in the existing opening, including making good the damage, connection, testing, commissioning etc. as required					
	1.50.1	Upto 450 mm sweep	1.00	each	363.00	363.00	
85	MR	Supply, Installation, testing and commissioning Wipro Garnet 100W Cool Day White Square LED Flood Light, D910065 (Focus Light)	2.00	each	3,800.00		7,600.00
		Total				2,236,915.01	35,380.00
		SAY			Lacs	22.37	0.35

**STONE PITCHING UNDER THE BUILDING
ANALYSIS OF RATE FOR STONE PITCHING**

S.N.	DSR-21	Description of Item	Unit	Nos	Length	Width	Height	Quantity	Rate	Amount
1	16.11	Dry stone pitching 22.5 cm thick including supply of stones and preparing surface complete.								
		School Building								
		on Ground floor area 736.66 and add 6% extra for slopy land 736.66x6% =780.86	Sqm	1	1	1.00	780.86	780.86		
		Porch area on Ground floor area 51.22 and add 6% extra for slopy land 51.22x6% =54.29	Sqm	1	1	1.00	54.29	54.29		
		Extra for building to Toe wall as per Lop	Sqm	1	1	84.91	3.03	257.28		
		Kitchen & Dinning								
		on Ground floor area 757 and add 6% extra for slopy land 757x6% =802.42	Sqm	1	1	1.00	802.42	802.42		
		Extra for building to Toe wall as per Lop	Sqm	1	1	66.66	3.59	239.31		
		Boys Dormitory								
		on Ground floor area 345.75 and add 6% extra for slopy land 345.75x6% = 366.50	Sqm	1	1	1.00	366.50	366.50		
		Extra for building to Toe wall as per Lop	Sqm	1	1	39.85	2.43	96.84		
			Sqm	1	1	44.71	1.93	86.29		
		Warden Residence of Boys Dormitory								
		on Ground floor area 110 and add 6% extra for slopy land 110x6% = 116.60	Sqm	1	1	1.00	116.60	116.60		
		0.50 Unit Boys Dormitory								
		on Ground floor area 345.75 and add 6% extra for slopy land 345.75x6% = 366.50	Sqm	1	1	1.00	183.25	183.25		
		Extra for building to Toe wall as per Lop	Sqm	1	1	44.71	2.43	108.65		
		Warden Residence of Boys Dormitory								
		on Ground floor area 110 and add 6% extra for slopy land 110x6% = 116.60	Sqm	1	1	1.00	116.60	116.60		
		Girls Dormitory								
		on Ground floor area 345.75 and add 6% extra for slopy land 345.75x6% = 366.50	Sqm	1	1	1.00	366.50	366.50		
		Extra for building to Toe wall as per Lop	Sqm	1	1	44.71	2.43	108.65		
			Sqm	1	1	44.71	2.17	97.02		
		Warden Residence of Girls Dormitory								
		on Ground floor area 110 and add 6% extra for slopy land 110x6% = 116.60	Sqm	1	1	1.00	116.60	116.60		
		Type-III								
		on Ground floor area 360 and add 6% extra for slopy land 360x6% = 381.60	Sqm	1	1	1.00	381.60	381.60		
		Extra for building to Toe wall as per Lop	Sqm	1	1	17.38	2.40	41.71		
			Sqm	1	1	18.38	2.40	44.11		
			Sqm	1	1	15.38	3.53	54.29		
		Type-II								
		on Ground floor area 200 and add 6% extra for slopy land 200x6% = 212	Sqm	1	1	1.00	212.00	212.00		
		Extra for building to Toe wall as per Lop	Sqm	1	1	15.15	4.31	65.30		
			Sqm	1	1	15.15	2.62	39.69		
		Principal Residence								
		on Ground floor area 106 and add 6% extra for slopy land 106x6% = 112.36	Sqm	1	1	1.00	112.36	112.36		
		Extra for building to Toe wall as per Lop	Sqm	1	1	12.15	1.60	19.44		
		Vice Principal Residence								
		on Ground floor area 90 and add 6% extra for slopy land 90x6% = 95.40	Sqm	1	1	1.00	95.40	95.40		
		Extra for building to Toe wall as per Lop	Sqm	1	1	3.83	2.31	8.85		
		Guest House								
		on Ground floor area 60 and add 6% extra for slopy land 60x6% = 63.60	Sqm	1	1	1.00	63.60	63.60		
		Extra for building to Toe wall as per Lop	Sqm	1	1	11.28	1.00	11.28		
		ESS								
		on Ground floor area 40 and add 6% extra for slopy land 40x6% = 42.40	Sqm	1	1	1.00	42.40	42.40		
		Extra for building to Toe wall as per Lop	Sqm	1	1	15.00	1.00	15.00		
		Total						5,104.69	821.95	4,195,799.95

2	16.73	Dry stone pitching 22.5 cm thick laid in courses and required profile with hammer dressed stones having no side less than 15 cm, with minimum depth of 20 cm including preparing the bedding surface etc. all complete. (Payment for Stone to be made separately).											
		School Building											
		on Ground floor area 736.66 and add 6% extra for slopy land 736.66x6% =780.86	Sqm	1	1	1.00	780.86			780.86			
		Porch area on Ground floor area 51.22 and add 6% extra for slopy land 51.22x6% =54.29	Sqm	1	1	1.00	54.29			54.29			
		Extra for building to Toe wall as per Lop	Sqm	1	1	84.91	3.03			257.28			
		Kitchen & Dinning											
		on Ground floor area 757 and add 6% extra for slopy land 757x6% =802.42	Sqm	1	1	1.00	802.42			802.42			
		Extra for building to Toe wall as per Lop	Sqm	1	1	66.66	3.59			239.31			
		Boys Dormitory											
		on Ground floor area 345.75 and add 6% extra for slopy land 345.75x6% = 366.50	Sqm	1	1	1.00	366.50			366.50			
		Extra for building to Toe wall as per Lop	Sqm	1	1	39.85	2.43			96.84			
			Sqm	1	1	44.71	1.93			86.29			
		Warden Residence of Boys Dormitory											
		on Ground floor area 110 and add 6% extra for slopy land 110x6% = 116.60	Sqm	1	1	1.00	116.60			116.60			
		0.50 Unit Boys Dormitory											
		on Ground floor area 345.75 and add 6% extra for slopy land 345.75x6% = 366.50	Sqm	1	1	1.00	183.25			183.25			
		Extra for building to Toe wall as per Lop	Sqm	1	1	44.71	2.43			108.65			
		Warden Residence of Boys Dormitory											
		on Ground floor area 110 and add 6% extra for slopy land 110x6% = 116.60	Sqm	1	1	1.00	116.60			116.60			
		Girls Dormitory											
		on Ground floor area 345.75 and add 6% extra for slopy land 345.75x6% = 366.50	Sqm	1	1	1.00	366.50			366.50			
		Extra for building to Toe wall as per Lop	Sqm	1	1	44.71	2.43			108.65			
			Sqm	1	1	44.71	2.17			97.02			
		Warden Residence of Girls Dormitory											
		on Ground floor area 110 and add 6% extra for slopy land 110x6% = 116.60	Sqm	1	1	1.00	116.60			116.60			
		Type-III											
		on Ground floor area 360 and add 6% extra for slopy land 360x6% = 381.60	Sqm	1	1	1.00	381.60			381.60			
		Extra for building to Toe wall as per Lop	Sqm	1	1	17.38	2.40			41.71			
			Sqm	1	1	18.38	2.40			44.11			
			Sqm	1	1	15.38	3.53			54.29			
		Type-II											
		on Ground floor area 200 and add 6% extra for slopy land 200x6% = 212	Sqm	1	1	1.00	212.00			212.00			
		Extra for building to Toe wall as per Lop	Sqm	1	1	15.15	4.31			65.30			
			Sqm	1	1	15.15	2.62			39.69			
		Principal Residence											
		on Ground floor area 106 and add 6% extra for slopy land 106x6% = 112.36	Sqm	1	1	1.00	112.36			112.36			
		Extra for building to Toe wall as per Lop	Sqm	1	1	12.15	1.60			19.44			
		Vice Principal Residence											
		on Ground floor area 90 and add 6% extra for slopy land 90x6% = 95.40	Sqm	1	1	1.00	95.40			95.40			
		Extra for building to Toe wall as per Lop	Sqm	1	1	3.83	2.31			8.85			
		Guest House											
		on Ground floor area 60 and add 6% extra for slopy land 60x6% = 63.60	Sqm	1	1	1.00	63.60			63.60			
		Extra for building to Toe wall as per Lop	Sqm	1	1	11.28	1.00			11.28			
		ESS											
		on Ground floor area 40 and add 6% extra for slopy land 40x6% = 42.40	Sqm	1	1	1.00	42.40			42.40			
		Extra for building to Toe wall as per Lop	Sqm	1	1	15.00	1.00			15.00			
		Total								5,104.69	542.85	2,771,080.97	
		Total										6,966,880.92	

RCC CONNECTING PATH										
ANALYSIS OF RATE FOR RCC CONNECTING PATH										
S.N.	DSR-21	Description of Item	Unit	Nos	Length	Width	Height	Quantity	Rate	Amount
		School Building								
			Sqm	1	2	7.50	2.46		36.90	
			Sqm	1	1	7.50	25.69		192.68	
		Kitchen & Dinning								
			Sqm	1	1	5.55	11.10		61.61	
			Sqm	1	1	5.26	11.10		58.39	
		Boys Dormitory								
			Sqm	1	1	2.70	3.00		8.10	
			Sqm	1	1	12.44	3.83		47.65	
			Sqm	1	1	3.93	12.21		47.99	
			Sqm	1	1	2.80	3.00		8.40	
		0.50 Unit Boys Dormitory								
			Sqm	1	1	2.70	3.00		8.10	
			Sqm	1	1	12.44	3.83		47.65	
			Sqm	1	1	3.93	12.21		47.99	
			Sqm	1	1	2.80	3.00		8.40	
		Girls Dormitory								
			Sqm	1	1	3.10	2.46		7.63	
			Sqm	1	1	4.23	12.44		52.62	
			Sqm	1	1	3.00	2.46		7.38	
			Sqm	1	1	12.44	4.13		51.38	
		Type-III								
			Sqm	1	1	4.98	2.46		12.25	
			Sqm	1	2	6.31	2.46		31.05	
		Type-II								
			Sqm	1	1	2.61	2.46		6.42	
			Sqm	1	1	2.71	2.46		6.67	
		Principal Residence								
			Sqm	1	1	5.55	2.46		13.65	
		Vice Principal Residence								
			Sqm	1	1	4.93	2.46		12.13	
		Guest House								
			Sqm	1	1	4.27	2.46		10.50	
		UGWT Pump House								
			Sqm	1	1	2.50	2.46		6.15	
		Total	Sqm						791.69	
RATE ANALYSIS OF 10 SQM AREA OF RCC CONNECTING PATH										
1	5.33	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.								
	5.33.1	All works upto plinth level								
	5.33.1.1	Concrete of M25 grade with minimum cement content of 330 kg / cum								
		SLAB	Cum	1	1	1.00	10.00	0.15	1.50	
									1.50	7,997.30
2	2.25	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.	Cum	1	1	1.50	150.00		150.00	
									150.00	89.65
										13,447.50

3	5.9	Centering and shuttering including strutting, propping etc. and removal of form for								
	5.9.3	Suspended floors, roofs, landings, balconies and access platform								
		slab	Sqm	1	1	1.00	10.00		10.00	
									10.00	766.55
										7,665.50
		Total for 10sqm area								33,108.95
		Total for 1 sqm area								3,310.90
		Total Area	AOR	1	1	791.69	3,310.90			2,621,202.46
									Total	2,621,202.46

ANALYSIS OF RATE FOR PARAPET WALL FOR CONNECTING PATH										
Sl. No.	DSR-2021	Description of Item	No	L	B	H	Qty.	Unit	Rate (In Rs.)	Amount (In Rs.)
		Take Length = 1.00 Mtr								
1	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 :								
	6.4.2	Cement mortar 1:6 (1 cement : 6 coarse sand)								
			1	1.00	0.23	0.90	0.21			
							Total	0.21	Cum	6658.25
										1398.23
2	13.4	12 mm cement plaster of mix :								
	13.4.2	1:6 (1 cement: 6 coarse sand)								
			1	1.00		0.90	0.90			
							Total	0.90	Sqm	294.35
										264.92
3	13.5.2	15 mm cement plaster on rough side of single or half brick wall of mix:								
			1	1.00		0.90	0.90			
		Top face of wall	1	1.00	0.23		0.23			
							Total	1.13	Sqm	339.10
										383.18
4	13.47	Finishing walls with Premium Acrylic Smooth exterior paint with Silicone additives of required shade								
	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).								
		same as 12 mm plaster	1	0.90			0.90			
		same as 15 mm plaster	1	1.13			1.13			
							Total	2.03	Sqm	162.35
										329.57
									Cost for 1.00 Mtr Long	2,375.90
									Cost for Per Mtr Long	2,375.90
									Say Rs.	2,376.00
									Total Length Of Wall	204.63
									Total Cost Of Wall	486,200.88

**DETAIL ESTIMATE OF PHASE-A WORK AT JNV RAMBAN, JAMMU &
KASHMIR.**

Cost of Waste Food Tank

S.N.	DESCRIPTION OF WORK	
1	Waste Food Tank (1 no)	131,316.64
	Total	131,316.64

DETAIL ESTIMATE OF PHASE-A WORK AT JNV RAMBAN, JAMMU & KASHMIR.

ABSTRACT FOR WASTE FOOD TANK

S.No.	DSR-21	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	29.350	Cum	286.85	8,419.05
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	4.890	Cum	104.50	511.01
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.	11.740	Cum	253.95	2,981.37
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).	0.610	Cum	6,050.65	3,690.90
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)	4.550	Cum	8,364.20	38,057.11
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.	2.540	Sqm	307.95	782.19
b)	5.9.2	Walls (any thickness) including attached pilasters, butteresses, plinth and string courses etc.	26.760	Sqm	669.55	17,917.16
7	5.9.3	Suspended floors, roofs, landings, balconies and access platform.	5.050	Sqm	766.55	3,871.08
8	5.9.16	Edges of slabs and breaks in floors and walls.				
	5.9.16.1	Under 20 cm wide	9.840	Meter	181.90	1,789.90

S.No.	DSR-21	Description	Qty	Unit	Rate	Amount
9	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.	409.500	Kg	89.65	36,711.68
10	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.	3.000	Sqm	928.65	2,785.95
11	13.16	6 mm cement plaster of mix :				
	13.16.1	1:3 (1 cement : 3 fine sand)	17.900	Sqm	253.05	4,529.60
12	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	1.00	Nos	1,494.20	1,494.20
13	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	8.000	Nos	487.10	3,896.80
14	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	1,077.40	3,878.64
		Cost for 1 Nos Waste Food Tank				131,316.64