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

	SUMMARY OF COST			
	D	Amoun	t as per Detaile	ed Estimate
S.N.	Description	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

		Amount as per Detailed Estimate				
S.N.	Description	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.	DADTICHI ADC OF ITEMC		Amount As per I	Detailed BOQ
5.NO.	PARTICULARS OF ITEMS	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 I	Detailed BOQ
5.INO.	PARTICULARS OF ITEMS	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

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	Electrical Work	2,615,254.40		1,107,350.00
	Total	2,615,254.40	47,448,770.95	1,544,535.00
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	Civil Work		22,299,222.87	-
	Plumbing Work		436,845.85	146,855.00
	Electrical Work	791,881.00		424,361.00
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		1,786,854.00	38,812,984.33	1,202,380.81
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	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
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	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
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	Civil Work		27,777,538.87	161,940.60

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	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
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	Electrical Work	24,628.00		8,200.00
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	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
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	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]								
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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 up	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 (iv) R.C.C. work in Grade Slab	5.33.1 5.33.1	52.57 89.50	CUM	7997.30 7997.30	420418.06 715758.35		1
(II)	Above plinth to floor-V IvI	2.30.1	22.00					
	Same as above but R.C.C. work abive 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 Linter	5.33.2	211.96	CUM	10080.15	2136588.59		1
	(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 (a)	Centering and shuttering including strutting, propping etc. and removal of form for all heights: 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		1
(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		
	band and reminicement shall be made for seperately).	0.47	400.75	CUM	0994.15	3204519.51		
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)	Ind 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)	Illrd course of applying blown or residual bitumen applied hot at 1.7 kg. per sqm of area.							
(d)	Nth 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 15: 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	<u> </u>	$\vdash \vdash \vdash$		<u> </u>		
10	ordang roor for water proofing a cauncil with	44.14	1	1 1		1	L	

S.N.	DESCRIPTION OF ITEM	DSR- 2021	QUANTITY	UNIT	RATES	AMOUNT DSR	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.							
	Single Leaf Double Leaf	9.20.1 9.20.1+9.26	173.63 5.40	SQM SQM	3086.10 3179.75	535839.54 17170.65		
	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							
18	measured). 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	9.23	179.03	SQM	401.40	71862.64		
	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 interlocks, EPDM gasket, wool pile, zinc alloy (white powder coated) touch locks with hook, zinc alloy body with single rylon 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 slicon 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.	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 \pm 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/ wentilators comprising of uPVC multi-chambered frame and multion (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 comers, multion (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 1.5. 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	2021				II CIVI	[m.R. HEW]	
	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		
	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, kory, Grey, Fume Rab Brown, Iaid 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 lst 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 tt/ 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:	9.67						
39	90 mm Providing and fixing special quality bright finished brass cupboard or ward robe locks with four levers of approved quality including necessary screws etc. complete.	9.67.3	128.00	NOS	22.10	2828.80		
40	75 mm Providing and fixing wooden moulded corner beading of triangular shape to the junction of panelling etc. with iron screws, plugs and priming coat on	9.79 9.79.4	20.00	NOS	333.15	6663.00		
	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	9.97 9.97.1	128.00	NOS	117.65	15059.20		
40	200 x 10mm	9.97.3	128.00	NOS	90.80	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		
	Expansion Joint Treatment 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 arragement support lates as per ASTM B221-02. The system shall be such that it provides water light 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 saisfy movement and loading requirements and secured to base members by utilizing manufacturer's pre-engineered self-centering arrangement that freely rotates /moves in all directions. The Self centering arrangement shall exhibit circular sphere ends that lock and slide inside the corresponding aluminum extrusion cavity to allow freedom of movement and flexure in all directions including vertical displacement. The Joint System shall resists damage or deterioration from the impact of falling ice, exposure to UV, airborne contaminants and occasional foot traffic from maintenance personnel. Provision of Moisture Barrier Membrane in the Joint System to have water tight joint is mandatory requirement. (Material shall confirm to ASTM 6063.)							
	Roof Joint of 100 mm gap	5.46.1	90.00	RM	5424.20	488178.00		
	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		
	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		
	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		
				L	TOTAL	46,647,478.30	-	
L			S	ay Rs. Ir	1 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	AMO	UNT
0	NAME OF OUR PLAN	211114.00 12779.05 3416.70 573982.90 801292.65	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 , JAMMI BILL OF QUANTITIES FOR PLUMBING WORKS (SCHOOL BU				
S.No	DSR-2021	DESCRIPTION DESCRIPTION	UNIT	QTY	RATE (in Rs)	AMOUNT (in Rs)
ı	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. Flexible Pipe				
		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:	Jaon	17.00	104.00	1, 70.90
	17.10.1	Kitchen sink with drain board		4.00	2222 45	2222 15
5	17.10.1.1 17.11	510x1040 mm bowl depth 250 mm 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	each	1.00	6008.45	6008.45
		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 CURLIFAR (I) (DCRI40)				244444 00
		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 ablution 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.		4.00	3200.00	12800.00
		TOTAL SUB HEAD (I) (NON-DSR)				30320.00
II	SUB HEAD	I) (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.	GGOIT			
	17.34.2	viterous 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.		0.00	00.75	070.75
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 each	9.00	96.75 92.75	870.75 1298.50
		TOTAL SUB HEAD (II) (DSR)				12779.05
	OUD UEAR					12110.00
	SUB HEAD	O (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 neccessary 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. alround 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 80.00	585.00 445.00	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 MR	Plain Floor Trap (4" Ht) with 50 / 75 outlet and with height raiser P-Trap type Floor Trap 110 x 75 mm	each each	20.00 30.00	410.00 445.00	8200.00 13350.00
	IVIIX	1 - 11ap type 1100 11ap 110 x 70 11iiii	Cacii	30.00	445.00	13330.00
4	MR	Extra for providing & fixing 125 mm dia C.P. grating in place of C.I. grating over floor	aaah	40.00	145.00	E900 00
5	MR	traps. 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	5800.00 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 neccessary 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. alround 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				
	1	site.				
	MR	110 mm dia	metre	150.00	505.00	75750.00

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 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	14.00	244.05	3416.70
		TOTAL SUB HEAD (III) (DSR)				3416.70
IV	SUB HEAD	(IV) :- WATER SUPPLY PIPES AND FITTINGS (DSR)				
	18.21	Providing & fixing 15 mm nominal bore 45 cm long unplasticised PVC connection pipe with brass unions.				
1	18.21.2	45 cm length				
		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.			100.05	225122
3	18.54.1 18.50	15mm nominal bore, 86 mm long, weighing not less than 88 gms Providing and fixing C.P brass long nose bib cock of approved quality conforming to IS	each	36.00	109.85	3954.60
-		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				
	18.32.1	complete as per standard design		0.00	4740.45	0404.00
6	18.46	With common burnt clay F.P.S.(non modular) bricks of class designation 7.5 Providing & Fixing G.I. Unoun in G.I. pipe including cutting and threading the	each	2.00	1712.15	3424.30
Ü	10.40	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
7	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				
Ū	10	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.				
	18.7.2	Internal work exposed on wall 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/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.				

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):				
	_	20 mm nominal bore	each	12.00	461.75	5541.00
		25 mm nominal dia	each	7.00	532.35	3726.45
		32 mm nominal bore	each	3.00	589.9	
		40 mm nominal bore	each	3.00	707.3	2121.90
		50 mm nominal dia	each	5.00	878.25	4391.25
12		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	l) (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 fitings 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.l.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

DESCRIPTION NG BOARDS & MCB's LEVISION & DATA SYSTEM	AMO DSR-2022 2044256.00 81554.00 142845.00	NON-DSR 8560.00 22650.00
NG BOARDS & MCB's	2044256.00	8560.00
SOARDS & MCB's	81554.00	
LEVISION & DATA SYSTEM	142845.00	22650.00
EM	58744.00	
DUCTOR	137852.00	
S	43198.40	
TING FIXTURES & FANS	106805.00	1076140.00
Total C/F To Summa	ary 2615254.40	1107350.00
	ING FIXTURES & FANS Total C/F To Summa	TING FIXTURES & FANS 106805.00

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

		BILL OF QUANTITIES ELECTRICAL WORKS OF SCHOOL					
S.No	DSR-2022	DESCRIPTION	UNIT	Quantity	RATE (in Rs)	AMOUNT (in Rs)	
I		SUB HEAD-I , INTERNAL WIRING					
1							
,	1.8	Point wiring in PVC conduit, with piano type switch: 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	1.12	Power plug wiring in PVC conduit (2 x 4 Sq.Mm.):- 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.	М	460.00	233.00	107180.00	
	1.14.2	2 X 2.5 sq. mm + 1 X 2.5 sq. mm earth wire.	М	1500.00	275.00	412500.00	
	1.14.4	2 x 6 sq.mm. + 1 x 6 sq.mm. Earth wire	M M	222.00 225.00	439.00 570.00	97458.00 128250.00	
	1.14.5 1.14.10	2 x 10 sq.mm. + 1 x 6 sq.mm. Earth wire 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	
		O/F light along sint given to a second since					
5	1.29	S/F light plug point piano type accessories:- 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 :-					

ĺ	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
6		(NON-DSR) 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	1.27	S/F MODULAR BOXES, BASE & COVER PLATE :- Supplying and fixing following size / modules, Gl 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	1.23	S/F PIANO TYPE SWITCH / SOCKET:- Supplying and fixing following piano type switch / socket on the existing switch box including connections etc as required		41.75	100	4405
	1.23.6 1.23.7	Telephone Socket outlet TV Antenna socket outlet	Each Each	11.00 2.00	109.00 95.00	1199.00 190.00
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 1.21.2	20 mm. 25 mm.	M M	500.00 120.00	128.00 145.00	64000.00 17400.00
	1.21.3	32 mm.	M	120.00	184.00	22080.00

1.18	Supply and drawing following pair, 0.5 sq.mm. FRLS PVC insulated annealed copper conductor, unarmoured telephone cable in the existing surface / special steel/ RVC conduit or required.				
1.18.2	surface / recessed steel/ PVC conduit as required.			 -	
	2 Pair	М	600.00	38.00	22800.00
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 DEB)				
NDSR	Providing, laying, connecting, testing & commissioning of multi-core telephone armoured cables of conductor size 0.5 sq.mm. annealed tinned electrolitic 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	М	90.00	240.00	21600.00
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 SUR HEAD.III (NON DSR ITEMS)				22650.00
	TOTAL OF OUR HEAD-III , (NON BONTIEIIIO)				22650.00
	SUB HEAD-IV , EARTHING SYSTEM			<u> </u>	
5.4	Earthing with GI earth plate 600mm x 600 mm x 6mm thick including accessories and providing masonary 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
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
		IVI	40.00	144.00	3700.00
5.11	Providing and fixing 25 mm x 5 mm G.l. strip in 40 mm dia G.l. pipe from earth electrode including connection with G.l. nut, bolt, spring, washer excavation and re-filling etc. as required.	М	20.00	706.00	14120.00
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
5.16	Providing and fixing 6 SWG dia G.I. wire on surface or in recess for loop earthing as required.	М	150.00	70.00	10500.00
	TOTAL OF SUB HEAD-IV , EARTHING SYSTEM				58744.00
	SUB HEAD-V , LIGHTNING CONDUCTOR				
5.4	Earthing with GI earth plate 600mm x 600 mm x 6mm thick including accessories and providing masonary enclosure with cover plate having locking arrangement and watering pipe of 2.7 metre long etc, with charcoal/				00000
	coke and salt as required.	Set	4.00	7472.00	29888.00
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
6.7	Providing and fixing G.l.tape 20 mm x 3 mm thick on parapet or surface of wall for lighting conductor complete as required (For horizontal run)			<u></u>	
	5.4 5.9 5.11 5.15 5.16	NDSR Providing, laying, connecting, testing & commissioning of multi-core telephone armoured cables of conductor size 0.5 sq.mm. annealed tinned electrolitic 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 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 TOTAL OF SUB HEAD-III, (NON DSR ITEMS) SUB HEAD-IV, EARTHING SYSTEM 5.4 Earthing with GI earth plate 600mm x 600 mm x 6mm thick including accessories and providing masonary enclosure with cover plate having locking arrangement and watering pipe of 2.7 metre long etc, with charcoal/coke and salt as required. 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) 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. 5.15 Providing and fixing 25mm x 5 mm G.I strip on surface or in recess for connections etc. as required. 5.16 Providing and fixing 25mm x 5 mm G.I strip on surface or in recess for loop earthing as required. 5.17 Providing and fixing 6 SWG dia G.I. wire on surface or in recess for loop earthing as required. 5.18 Providing and fixing 6 swG dia G.I. wire on surface or in recess for loop earthing as required. 5.19 Providing and fixin	NON-DSR	NON-DSR	INON-DSR Providing, laying, connecting, testing & commissioning of multi-core telephone armoured cables of conductor size 0.5 sq.mm. annealed tinned letephone armoured cables of conductor size 0.5 sq.mm. annealed tinned letephone armoured cables of conductor size 0.5 sq.mm. annealed tinned letephone armoured cables of conductor size 0.5 sq.mm. annealed tinned letephone armoured paid on existing cable tray or along the wall or laid in pipes or in trenches including exeavation of cable trench, sand filling covering with bricks and back filling complete as 20 pair

4	6.8	Providing and fixing G.l.tape 20 mm x 3 mm thick on parapet or surface of wall for lighting conductor complete as required (For vertical run)	М	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.	М	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
5		SUPPLY OF CEILING & EXHAUST FANS 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		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

ERECTION OF LIGHTING FIXTURES AND FANS				
DSR 2018				
1.41 Installation, testing and commissioning of pre-wired, flourescent 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	292.00	206.00	60152.00
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
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
то	TAL SUB HEAD - VII (DSR ITEMS)			

	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 SHEDULE	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 (ii) R.C.C. work in Beam	5.33.1 5.33.1	85.433 114.380	CUM	7997.30 7997.30	683233.36 914731.17						
	(iii) R.C.C. work in Beam (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 IvI											
	Same as above but R.C.C. work abive 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 (iv) R.C.C. work in Slab	5.33.2 5.33.2	31.860 122.650	CUM	10080.15 10080.15	321153.58 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											
(d)	cantilevers. Columns,Pillars, Piers, Abutments, Posts and Struts.	5.9.5 5.9.6	1494.580 681.600	SQM SQM	608.35 804.25	909227.74 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 seperately).	6.47	130.500	CUM	6994.15	912736.58						
10	Half brick maconny with common burnt aloy E.D.S. (non-modular)							·				
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.				45							
	Cement mortar 1:4 (1 cement :4 coarse sand)	6.13.2	8.21	Sqm	1018.05	8358.19	i l					

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:						
	grading complete with .	22.8					
	Bitumen felt (hessian base) type 3 grade I conforming to IS: 1322	22.0					
		22.8.1	712.700	SQM	432.10	307957.67	
12	Grading roof for water proofing treatment with Cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded	22.14					
	stone aggregate 20mm nominal size)	22.14.1	53.45	Cum	7510.75	401449.59	
	33 3 7						
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						
14	mm minimum depth on all edges of flush door shutters (over all						
L	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						
l	ventilators of mild steel Tee-sections, joints mitred and welded, including fixing of necessary butt hinges and screws and						
l	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						
	Sana : 0 graded sterio aggregate 20 mm normal 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 sealent over backer	9.147					
	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						
l	works, including applying priming coat of approved steel primer.						
<u></u>	M.S. tube	10.26.1	259.20	KG	157.15	40733.28	
L							
18	Providing and fixing factory made uPVC white colour fixed glazed windows/ ventilators comprising of uPVC multi-chambered frame						
l	and mullion (where ever required) extruded profiles duly						
	reinforced with 1.60 ± 0.2 mm thick galvanized mild steel section						
l	made from roll forming process of required length (shape & size						
	according to uPVC profile), , uPVC extruded glazing beads of						
l	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						
l	required) shall be also fusion welded including drilling of holes for						
	fixing hardware's and drainage of water etc. After fixing frame the						
l	gap between frame and adjacent finished wall shall be filled with weather proof silicon sealant over backer rod of required size						
l	and of approved quality, all complete as per approved drawing &						
	direction of Engineer-in-Charge. (Single / double glass panes						
l	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.						
l	on and account origin be made.						
		9.147B					

	Final mindred 1 5 / P 1 2 5 1						T	
	Fixed window / ventilator made of (small series) frame 47 x 50 mm & mullion 47 x 68 mm both having wall thickness of 1.9 \pm 0.2 mm and single glazing bead of appropriate dimension.	0.4470.4	02.500	2011	7040.00	070040.05		
		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		
		0.27.2.1.1)	24.70	OQIVI	3003.03	33741.23		
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							
22	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							
24	ns min cement plaster on rough side of single or nall 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		
	·	11.20.1	001.040	OQIVI	1700.00	1041304.40		
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		
	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.							
	write certain and matering pigment etc., complete.	11.37	6.710	SQM	935.60	6277.88		
28	Providing and fixing lst 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.	0.04	170 000	2014	1020.20	105240.07		
		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		1
	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		
			1		<u> </u>		1	1

	Dir				ı		1	I
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 ttr/ 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		
		3.30.2	10.00	1100	204.30	3730.40		
36	Providing and fixing stainless steel towerbolts (barrel type) with necessary screws etc. complete.	9.97	10.00	NOO	447.05	1000.10		
	300 x 10mm 200 x 10mm	9.97.1 9.97.3	16.00 16.00	NOS NOS	117.65 90.80	1882.40 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							
30	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-incharge) 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/m²	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/m²	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		
	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		
				9	AY IN LACS	222.99		
				3/	T. IN LACS	£££.33	1	1

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	UNT
3.110	NAME OF SUB-READ	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
	,	430043.03	140033.00
	SAY IN LACS	4.37	1.47

		BILL OF QUANTITIES FOR PLUMBING WORKS (DINING HALL &		EN)	RATE	AM
S.No	DSR-2021	DESCRIPTION	UNIT	QTY	(in Rs)	(ir
ı	SUB HEAD	O (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	173
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	(
3	17.28	Providing and fixing P.V.C. waste pipe for sink or wash basin including PVC waste				
	47.00.0	fittings complete.			1	
	17.28.2	Flexible Pipe 32 mm dia (for wash basin)	oosh	20.00	104.25	20
		40 mm dia (for sink and urinal)	each each	20.00 0.00	104.35 104.35	20
4		Providing and fixing Stainless Steel A ISi 304 (18/8) kitchen sink as per IS: 13983	eatii	0.00	104.33	
4	17.10	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				
		510x1040 mm bowl depth 250 mm	each	0.00	6008.45	(
		Kitchen sink without drain board				
	17.10.2.1	610x510 mm bowl depth 200 mm	each	0.00	4274.40	(
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	81
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	26
		TOTAL SUB HEAD (I) (DSR'18)			1	302
		TOTAL SUB READ (I) (DSK 10)				302
	SUB HEAD	D (I) :- SANITARY FIXTURES (NON DSR ITEMS)				
1	MR	Providing & fixing C.P. Brass Waste Coupling for PVC waste Pipe.		00.00	252.00	400
-		Transming a management of the state of the s	each	20.00	650.00	130
		TOTAL OUR LIEAR (I) (NON POR)				400
		TOTAL SUB HEAD (I) (NON-DSR)			ļ	130
- II	SUB HEAT	L D (II) :- TOILET REQUISIES (DSR'18)			1	
1		Providing and fixing 600x450 mm beveled edge mirror of superior glass (of approved			<u> </u>	
'	17.51	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	42
2	17.34	Providing & fixing toilet paper holder.			1	
		viterous china	each	0.00	463.00	(
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	20
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				
	47.70.4	colour.			 	
	17.73.1	450 mm long towel rail with total length of 495 mm, 78 mm wide and effective height of		1.00	572.60	E-
-	10 65	88 mm, weighing not less than 170 gms	each	1.00	573.60	57
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	29
		TOTAL CURLIFAR (II) (DORIGO)				=-
	1	TOTAL SUB HEAD (II) (DSR'18)			 	53
	 	 			ļ	

18.21 18.21.2	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. TOTAL SUB HEAD (III) (DSR) (IV) :- WATER SUPPLY PIPES AND FITTINGS (DSR) Providing & fixing 15 mm nominal bore 45 cm long unplasticised PVC connection pipe with brass unions. 45 cm length 15 mm nominal bore Providing and fixing PTMT bib cock of approved quality and colour. 15mm nominal bore, 86 mm long, weighing not less than 88 gms	Each each	9.00	266.60 85.20	2666.00 2666.00 766.80
18.21 18.21.2 18.21.2.1	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. TOTAL SUB HEAD (III) (DSR) Providing & fixing 15 mm nominal bore 45 cm long unplasticised PVC connection pipe with brass unions. 45 cm length 15 mm nominal bore	Each			2666.00 2666.00
SUB HEAD 18.21 18.21.2	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 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. TOTAL SUB HEAD (III) (DSR) Providing & fixing 15 mm nominal bore 45 cm long unplasticised PVC connection pipe with brass unions.	Each			2666.00 2666.00
SUB HEAD 18.21	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. TOTAL SUB HEAD (III) (DSR) (IV) :- WATER SUPPLY PIPES AND FITTINGS (DSR) Providing & fixing 15 mm nominal bore 45 cm long unplasticised PVC connection pipe with brass unions.		10.00	266.60	2666.00
	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. TOTAL SUB HEAD (III) (DSR)		10.00	266.60	2666.00
	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. TOTAL SUB HEAD (III) (DSR)		10.00	266.60	2666.00
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 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.		10.00	266.60	2666.00
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		10.00	266.60	
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				109735.00
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)				109733.00
10.00					109755.00
	TOTAL SUB READ (III) (NON DSK)	l			103/33.00
MR	110 mm dia	metre	60.00	505.00	30300.00 109755.00
	at site.				
	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				
	The Pipes will be supported with threaded G I rods & clamps on 50x50x5 mm slotted				
	size) including cost of shuttering for proper completion of the work, breaking and making				
	ceiling or embedding the pipes laid under floors / building in 75 mm. alround 1:2:4				
	required, excavation and back filling in all kind of soils, suspended from floor under false				
	painting etc. fixing at wall/ ceiling/ floor level supported by clamp & hangers etc. in				
	clamps, rubber rings, MS gratings over pipes of bell mouth construction with epoxy				
	including all neccessary specials and fittings (confirming to IS:14735) i.e. bends, tees, junctions (with or without doors), reducers, couplers, expansion joints / bellows, cowels.				
	for rain water disposal, Type-B as per IS: 13592 suitable for rubber ring joints,				
	Providing, fixing, jointing and testing in position of ISI marked UV stabilized UPVC nines				
\	cover with screws and other required fitting complete as required.	each	1.00	710.00	710.00
MR	traps. Providing & fixing of SS Floor Cleanout , round or square with rubber seal and flat round.	each	23.00	145.00	3335.00
MR	Extra for providing & fixing 125 mm dia C.P. grating in place of C.I. grating over floor				
MR	P-Trap type Floor Trap 110 x 75 mm	each	15.00	445.00	6675.00
MR	Plain Floor Trap (4" Ht) with 50 / 75 outlet and with height raiser	each	7.00	410.00	2870.00
MR	in all respects. Multi Floor Trap (5" Ht) with height raiser and branch saddle strip of 50/75 mm outlet	each	1.00	365.00	365.00
	Providing & fixing UPVC Floor trap of self cleansing design with stainless steel grating complete				
MR	40 mm dia.	metre	0.00	95.00	0.00
MR	32 mm dia.	metre	20.00	95.00	1900.00
	the same with cement concrete 1:2:4 complete as required.				
	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				
	min 6 Kg/ Sqcm rating with fitting for waste pipe from fixtures to floor trap including				
	Providing, fixing, jointing and testing in position ISI marked (IS:4985) UPVC pipes of				
MR	75 mm dia (Wall Thickness - 3.2 to 3.8 mm)	metre	40.00	420.00	16800.00
MR	, 60	metre	80,00	585.00	46800.00
	includes commissioning of all pipes lines as per drawings and specifications and as directed by engg-in-charge at site.				
	on 50x50x5 mm slotted angle. The cost will include all support arrangements. The work				
	floors etc. after pipes have been duly laid and tested. The rubber ring shall confirm to				
	laid under floors / building in 75 mm. alround 1:2:4 cement concrete (1 cement : 2				
	supported by clamp & hangers etc. in concealed / inside duct / under floor & basement				
	punctions (with or without doors), reducers, we connectors, coupiers, expansion joints / bellows, cowels, clamps, rubber rings, clean outs etc. fixing at wall/ ceiling/ floor level				
	including all neccessary specials and fittings (confirming to IS:14735) i.e. bends, tees, imposing (with or without doors), reducers, WC connectors, couplers, expension leight.				
	for soil, waste, and vent, Type-B as per IS: 13592 suitable for rubber ring joints,				
	MR MR MR MR MR MR	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/ celling/ 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. alround 1:24 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) 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 23 mm dia. Providing & fixing UPVC Floor trap of self cleansing design with stainless steel grating complete in all respects. MR Multi Floor Trap (3" Ht) with 50 / 75 outlet and with height raiser 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. Providing & fixing of SS Floor Cleanout, round or square	for soil, waste, and vent, Type-B as per IS : 13592 suitable for rubber ring joints, including all neccessary specials and fittings (confirming to IS1-1475) 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. alround 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 enggi-in-charge at site. MR 110 mm dia (Wall Thickness - 3.2 to 3.8 mm) metre metre with the manual material of the site of the control o	for soil, waste, and vent, Type-B as per IS : 13592 suitable for rubber ring joints, including all necessary specials and fittings (confirming to ISI-1475) i.e. bends, tees, junctions (with or without doors), reducers, WC connectors, couplers, expansion joints / bellows, cowels, clamps, rubber rings, clean outs etc. histing 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. aircound 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:5332. 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 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 clamps & 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 MR 7 and mia. metre 20.00 MR Pine Floor Trap (4" Ht) with height raiser and branch saddle strip of 50/75 mm outlet each 1.00 MR Pine Floor Trap (4" Ht) with 50 / 75 outlet and with height raiser each 1.00 Providing & fixing UPVC Floor trap of self cleansing design with stainless sat	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). be bends, tees junctions (with or without doors), reducers, WC connectors, couplers, expansion joints / belows, cowels, clamps, rubber rings, clean outs etc. King at wall/ celling/ 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. alround 1:2-d 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 liad and tested. The rubber ring shall confirm to IS:5932. 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 150 mm dis (Wall Thiotiness - 3.2 to 3.8 mm) metre 80.00 \$65.00 \$65.00 metre 80.00 \$65.00 \$65.00 metre 80.00 \$65.00

		T		2.22	715.05	2.22
4	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	eacii	11.00	300.33	3303.63
0	10.52	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:				
	40.70.4					
	18.76.1	With common burnt clay F.P.S. (non modular) bricks	each	10.00	362.40	3624.00
	40.7	D : :: (CD)(C) : (CD)(C) : (CD)(C)				
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				
	L	end):			164 ==	0==
	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
10	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				
	10 10 0	plastic floats complete : 20 mm nominal dia	each	1.00	397.45	397.45
	18.18.2	20 Hill Hohimai Ula	each	1.00	J77.43	387.43
		TOTAL SUB HEAD (IV) (DSR'18)				398593.70
		TOTAL GOD TILAD (14) (DOIN 10)				J90093.70
		L D (IV) :- WATER SUPPLY PIPES AND FITTINGS (NON-DSR)				
	I SUB HEAD					

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

DET	DETAIL ESTIMATE OF PHASE-A WORK AT JNV RAMBAN, JAMMU & KASHMIR					
	SUMMARY OF COST FOR ELECTRICAL WORKS					
			JNT			
S. No	DESCRIPTION	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 &d	ining Ha	1)		
S.No	DSR-2022	DESCRIPTION	UNIT	Quantity	RATE (in Rs)	AMOUNT (in Rs)
I		OUR HEAR (I) - INTERNAL MIRING				
		SUB HEAD (I) :- INTERNAL WIRING				
1		(DSR'2018) Point wiring in PVC conduit, with piano type switch :-				
'		7 7 7				
	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.	М	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.	М	25.00	537.00	13425.00
5		Circuit / Sub main wiring in PVC conduit :-	IVI	20.00	007.00	10420.00
		Wiring for circuit/ submain wiring alongwith earth wire with the following sizes				
	1.14	of FRLS PVC insulated copper conductor, single core cable in surface/ recessed				
	1 1 1 1	medium class pvc conduit as required.	N 4	60.00	222.00	12000 00
	1.14.1 1.14.2	2 X 1.5 sq. mm + 1 X 1.5 sq. mm earth wire. 2 X 2.5 sq. mm + 1 X 2.5 sq. mm earth wire.	M M	60.00 350.00	233.00 275.00	13980.00 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	М	60.00	570.00	34200.00
	1.14.10	4 x 10 sq.mm. + 2 x 6 sq.mm. Earth wire	М	95.00	1005.00	95475.00
6	1.14.11	4 x 16 sq.mm. + 2 x 6 sq.mm. Earth wire	М	15.00	1365.00	20475.00
O	1.29	S/F light plug point piano type accessories :- Supplying and fixing metal box of 150 mm X 75 mm X 60 mm deep (nominal				
	0	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	4.00	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	4.05	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 CURLIFAR (I) (DCR)2040)				E00649 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				
2		etc. as required.	Each	13.00	13.00	169.00
3	2.12	S/F DP MCB Isolator 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				
4	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 milliamperes in the existing MCB DB complete with connections, testing and commissioning etc. as required.		3.00	070.00	2010.00
	2.14.2	40 amps.	Each	1.00	2642.00	2642.00
9	2.15	Supplying and fixing following rating, four pole , (three phase & neutral) 415 volts, residual current circuit breaker (RCCB) , having a sensivity current upto 300 miliamperes 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
œ	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
Ш		SUB HEAD (III) :- TELEPHONE, TELEVISION & DATA SYSTEM				
		(DSR'2018)				
1	1.27	S/F MODULAR BOXES, BASE & COVER PLATE:- Supplying and fixing following size / modules, GI box along with modular base & cover plate for modular switches in recess etc as required				
2	1.27.1	1 or 2 Module (75 mm x 75 mm) S/F PIANO TYPE SWITCH / SOCKET:-	Each	2.00	298.00	596.00
	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.	М	25.00	128.00	3200.00
	1.21.2	25 mm.	М	10.00	145.00	1450.00
	1.21.3	32 mm.	М	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. 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.				
		TOTAL SUB HEAD (III) (DSR'2018)	M	20.00	47.00	940.00 8990.00
		10 IAE OOD HEAD (III) (DON 2010)				5550.00
V		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 masonary 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)				
			М	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.	М	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.	М	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.	М	100.00	70.00	7000.00
		TOTAL SUB HEAD (IV) (DSR'2018)				51864.00
		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 masonary enclosure with cover plate having locking				
		arrangement and watering pipe of 2.7 metre long etc, with charcoal/ coke and				
2	6.2	salt as required.	Set	2.00	7472.00	14944.0
2	0.2	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				
_	0.7	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)	М	100.00	126.00	12600.0
4	6.8	Providing and fixing G.I.tape 20 mm x 3 mm thick on parapet or surface of wall		05.00	407.00	4005.0
5	6.12	for lighting conductor complete as required (For vertical run) Providing and fixing testing joint, made of 20mm. x 3mm. thick G.I. strip,	М	25.00	197.00	4925.0
		125mm. long, with 4 nos of G.I. bolts, nuts, check nuts and spring washers			404.00	0.40.00
6	6.14	etc. complete as required. Providing & laying G.I. tape, 32mm x 6mm thick, from earth electrode directly in	Each	2.00	121.00	242.00
	0.11	ground as required.	М	25.00	195.00	4875.0
		TOTAL SUB HEAD (V) (DSR'2018)				38104.0
		TOTAL SUB HEAD (V) (DSIX 2010)				00104.0
		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		4.00		
2	14.14	inscription single red colour on FRLSont side as required. Providing, laying and fixing following dia RCC pipe NP 2 class (light duty) in	Each	1.00	269.00	269.00
_	14.14	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.		00.00	======	11100
	14.14.2	150 mm. dia.	MTRS	20.00	724.00	14480.0
		TOTAL SUB HEAD (VI)(DSR'2018)				14749.0
		(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	16905.0
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	1020.0
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	3170.0
4		AC Three Phase Dual Source CT operated, AC sensing ,Multifunction Energy	Luon	1.00	0110.00	0170.0
		meter of Accuracy Class 1.0, 3 X 240V, 50Hz, with Optical + Modbus RS485				
	MR	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	8000.0
		TOTAL SUB HEAD (VI) (NON DSR)				29095.0
/II		SUB HEAD(VII):-INTERNAL LIGHTING FIXTURES & FANS				
41		SUPPLY OF LIGHTING FIXTURES				
1		(NON-DSR')				
1		Supply of Astra Surface & wall mounted LED batten with extruded aluminum housing and robust construction of 15 watt & 1300 Lumens with all accessories				
	MR	as per standard item(Such as Philips BN150W LED13S-6500 PSE OD GR or				
		Equivalent).	Each	2.00	2170.00	4340.0
2		4 v 45 wett euroee mounting time LED light 5-time country in a				
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				
	IVIF	WH RD)	Fach	3.00	1270.00	3810 0
			Each	3.00	1270.00	3810.0
3		1 x 18 watt surface mounting type LED light fixture complete with all				
	MR	accessories as required. (Eq. to Bajaj cat. no. BGSLO SLEEK SURFACE 18W WH RD)				
			Each	10.00	1270.00	12700.0

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, flourescent 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.				
		inductor, copper conductor, single core capic and cartining cite. 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		40.00		
3	1.50	laminated sheet cover on the fan box etc. as required. Installation of exhaust fan in the existing opening, including making good the	Each	49.00	339.00	16611.00
0	1.00	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
X		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				1
٠,	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
						10, 0.00

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

BOYS DORMITORY WITH 2 NO WARDEN RESIDENCE SUMMARY OF COST (CIVIL WORK)

. 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

		BOYS DORMITORY WITH 2 NO W	ARDEN RE	SIDENCE		BOYS DORMITORY WITH 2 NO WARDEN RESIDENCE									
		ABSTRACT OF COST (CI	VIL WORK	S)											
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	Sgm	85.76	307.95	26409.64	
c)	5.9.6	Columns, Pillars, Piers, Abutments, Posts and Struts	Sqm	610.87	804.25		
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	- 4				
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		
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	
(i) (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.			21122	44400.04	
a)	8.3.1	Marble work	Metre	57.60		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					
5.05	0.4	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	
		complete.	Mene	04.55	473.33	30001.04	
5.04	8.5	Extra for providing opening of required size & shape for wash					
0.0.	0.0	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.					
		F 3 21 aut augus aus. aannenata	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) a)	9.27.1 9.27.1.1.2	35 mm thick shutters 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					
a)	9.59.1	spring hinges with necessary screws etc. complete : 150 mm	Each	20.00	224.95	4499.00	
6.06	9.96	Providing and fixing aluminium sliding door bolts, ISI marked	24011	20.00	22 1100	1100.00	
0.00	9.90	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 multichambered 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 \pm 0.2 mm and single glazing bead of appropriate dimension.	Sqm	12.49	7249.90	90533.13	
		Total of sub-head			2100	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.	Eacil	30.00	163.20	103/1.20	
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. 8.00	Ref. No	Description FLOORING	Unit	Quantity	DSR 21 Rate	Amount (Rs.)	Remark
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 lst 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 a)	13.4 13.4.2	12 mm cement plaster of mix 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 a)	13.37 13.37.1	White washing with lime to give an even shade : 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)	list 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)	lind 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)	Illrd 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	

Ref. No	Description	Unit	Quantity	DSR 21 Rate	Amount (Rs.)	Remark
	NON SHEDULE ITEMS					
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	
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	
	MR	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. 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.	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. 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.	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. 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	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 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	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 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

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

BOYS DORMITORY WITH 2 NO WARDEN RESIDENCE

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				
1.00	2.00					
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 All kinds of soil				
a)		Pipes, cables etc, not exceeding 80 mm dia.	Metre	25.00	255.55	6388.75
b)		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-board				22702.50
		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	F	2.00	110.05	252.05
a)	12.42.1.2		Each	3.00	119.95	359.85
ii) a)		Bend 87.5° 110 mm bend	Each	3.00	132.00	396
u,	12.72.0.2	Tro min bond	Luon	0.00	102.00	000
iii) a)		Shoe (Plain) 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
				. 3.03		
		Total of sub-head				43695.85
3.00	17.00	SANITARY INSTALLATIONS				

Page No.1

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 a)	17. 34 17.34.2	Providing and fixing toilet paper holder : Vitreous china	Each	5.00	463.00	2315.000
<u> </u>			_4011	3.00	100.00	2010.000
3.09	17. 35	Providing and fixing soil, waste and vent pipes : 100 mm dia.				
a) i)	17.35.1 17.35.1.2	7.00				
.,	17.00.1.2	IS: 3989	Metre	70.00	1077.40	75418.000
p)	17.35.2	75mm diameter		05.00	1010 10	07700 500
i) 3.10	17.35.2.2 17.37	Centrifugally cast (spun) iron socketed pipe as per IS: 3989 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. :	Metre	65.00	1042.10	67736.500
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.				
		insertion rubber washer 5 min trick, boits and huts complete.				

S. No.	Ref. No	·	Unit	Qty	DSR 21 Rate	Amount (Rs.)
1	2	3	4	5	6.00	7
i)		Sand cast iron S&S as per IS - 3989	Each	18.00	597.60	10756.800
p)	17.38.2	75 mm	E	0.00	450.40	000 000
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	100 mm				
i)		Sand cast iron S&S as per IS : 3989	Each	30.00	439.75	13192.500
b)	17.39.2	75 mm	Lucii	00.00	400.70	10102.000
i)		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)		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)		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)		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		10.00	C11 00	C440 000
i)	17.55.1.2	Sand cast iron S&S as per IS - 3989 75 mm	Each	10.00	611.00	6110.000
b) i)		Sand cast iron S&S as per IS - 3989	Each	2.00	453.40	906.800
- '/	17.00.2.2	Cand cast non odo as per 10 - 3909	Lacii	2.00	433.40	300.000
3.17	17. 56	Providing and fixing terminal guard :				
a)	17.56.1	100 mm				
i)		Sand cast iron S&S as per IS - 3989	Each	9.00	439.75	3957.750
b)	17.56.2	75 mm		0.00		33311133
i)		Sand cast iron S&S as per IS - 3989	Each	1.00	311.55	311.550
ĺ		·				
3.18	17. 57	Providing and fixing collar :				
a)	17.57.1	100 mm				
i)		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
			Luon	20.00	+50.∓0	3320.000
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				
		Sand Cast Iron S&S as per IS: 1729	Each	12.00	1403.45	16841.400
i)	1/,001/					

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.	Fach	2.00	225 40	650 200
		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				
a)	17.73.2	arrangement of approved quality and colour. 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 17.10.1.1	Kitchen sink with drain board 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 Eureopean 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	
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	
b)	18.8.2	20 mm nominal outer dia Pipes	Metre	60.00	513.75	
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	
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)		25mm nominal bore	Each	4.00	532.35	2129.40
b)		32mm nominal bore	Each	4.00	589.90	
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				200772 500
		Total of Sub-flead				288773.500
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	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 a)	19.8 19.8.1	Extra for depth for manholes : 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	Molling appropriate of during a governing with existing month of				
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 W	ARDEN RESIDENCE								
	SUMMARY OF COST (ELECT	RICAL WORK)								
SUB	PARTICULARS	AMOUNT	AS PER							
HEAD		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	-							
٧	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)

		ABSTRACT OF COST (EL						
SI.	DSR-	DESCRIPTION	UNIT	QTY.	RATE	RATE	AMOUNT	AMOUNT
No.	2022	SUBHEAD - I - WIRING			(AS PER SR)	(AS PER NS)	(SR ITEMS)	(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						
a)		alongwith modular base & cover plate for modular switches in recess etc. as required. 4 Module (125 mmX75 mm)	Each	11.00	343.00		3773.00	0.00
u,	1.27.0							
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)		15/16 A switch	Each	11.00			1716.00	0.00
b)		3 pin 5/6 A socket outlet	Each	25.00			3050.00	0.00
c)		Telephone socket outlet	Each	2.00			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)		2 X 6 sq. mm + 1 X 6 sq. mm earth wire	Metre	60.00			35340.00	0.00
c) d)		2 X 10 sq. mm + 1 X 6 sq. mm earth wire 4 X 4 sq. mm + 2 X 4 sq. mm earth wire	Metre Metre	50.00 125.00			35500.00 84625.00	0.00
u)	1.7.0	4 \ \ 4 \ \ \ 9 \ .	weire	123.00	677.00		64025.00	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		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						
2)	1.21.1	recessed conduit as required.	Motro	25.00	120 00		3300.00	
a)	1.21.1	20 mm	Metre	25.00	128.00		3200.00	

BOQ-E-Boys

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SI. No.	DSR- 2022	DESCRIPTION	UNIT	QTY.	RATE (AS PER SR)	RATE (AS PER NS)	AMOUNT (SR ITEMS)	AMOUNT (NS ITEMS)
b)		25 mm	Metre	25.00	145.00	(1.0.1 = 1.1.1.0)	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 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 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 quard, 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

BOQ-E-Boys 2

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	Each	58.00	339.00	<u> </u>	19662.00	0.00
2.10	1 11	Installation testing and commissioning of pro-wired Light						
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						
2.14	1.30	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						
a)	2.13.3	commissioning etc. as required. 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,						
a)	2.12.1	testing and commissioning etc. as required. 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			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)		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

SI. 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.					<u> </u>	
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 flourescent 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.l. 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, AI round wire armoured & overall PVC sheathed cableconforming 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. 2 X 6 sq. mm (19mm)						

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SI.	DSR-	DESCRIPTION	UNIT	QTY.	RATE	RATE	AMOUNT	AMOUNT
No.	2022				(AS PER SR)	(AS PER NS)	(SR ITEMS)	(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 reqired .(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)	-	0.00		740.40	0.00	4 400 00
			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 CURUEAR V					20.464.00	45027.00
		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	D	00.00	00.00		4000.00	0.00
		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
0.05	0.46	Providence of Grant Artificial and A						
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
							330-127.00	414100.00
		1	1	1	1			I

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

BOYS DORMITORY WITH 4 NO WARDEN RESIDENCE SUMMARY OF COST (CIVIL WORK)

5. 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

		BOYS DORMITORY WITH 4 NO W ABSTRACT OF COST (CI					
		ADSTRACT OF COST (CI	VIL VVORR	3)			
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 out board				123642.32	
		Total of sub-head				123042.32	

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.			21122	44400.04	
a)	8.3.1	Marble work	Metre	57.60		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					
5.05	0.4	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	
		complete.	Mene	04.55	473.33	30001.04	
5.04	8.5	Extra for providing opening of required size & shape for wash					
0.0.	0.0	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.					
		F 3 21 aut augus aus. aannenata	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) a)	9.27.1 9.27.1.1.2	35 mm thick shutters 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	1				
		spring hinges with necessary screws etc. complete :	Each	24.00	224.05	E200 00	
a)	9.59.1	150 mm	Eacii	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 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	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 multichambered 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 \pm 0.2 mm and single glazing bead of appropriate dimension.	Sqm	14.29	7249.90	103582.95	
		Total of sub-head			2199	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.			405.00	40074.00	
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.	Each	56.00	185.20	10371.20	
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. 8.00	Ref. No	Description FLOORING	Unit	Quantity	DSR 21 Rate	Amount (Rs.)	Remark
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 lst 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 a)	13.4 13.4.2	12 mm cement plaster of mix 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 a)	13.37 13.37.1	White washing with lime to give an even shade : 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)	list 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)	lind 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)	Illrd 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 SHEDULE 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	

BOQ-C-Boys Page No.11

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.) EARTH WORK 32793.50 2 ROOFING 43695.85 3 SANITARY INSTALLATIONS 569145.95 4 WATER SUPPLY 288773.50 5 SEWERAGE & DRAINAGE 235315.70 1,169,724.50 Total **Total NDSR** 43,464.00 6

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				
1.00	2.00					
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 All kinds of soil				
a)		Pipes, cables etc, not exceeding 80 mm dia.	Metre	25.00	255.55	6388.75
b)		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-board				22702.50
		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	F	2.00	110.05	252.05
a)	12.42.1.2		Each	3.00	119.95	359.85
ii) a)		Bend 87.5° 110 mm bend	Each	3.00	132.00	396
u,	12.72.0.2	Tro min bond	Luon	0.00	102.00	000
iii) a)		Shoe (Plain) 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
				. 3.03		
		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	type lipped front urinal basin of 430x260x350 mm and 340x410x265 mm sizes respectively. 17.7 Providing and fixing wash basin with C.I. brackets, 15 mm C.P.		Each	4.00	1382.30	5529.20
3.04	17.7					
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
	4= 04					
3.08 a)	17. 34 17.34.2	Providing and fixing toilet paper holder : Vitreous china	Each	8.00	463.00	3704.000
/				0.00		0.0000
3.09	17. 35	Providing and fixing soil, waste and vent pipes :				
a) i)	17.35.1 17.35.1.2	100 mm dia. Centrifugally cast (spun) iron socket & spigot (S&S) pipe as per				
•,	17.00.1.2	IS: 3989	Metre	90.00	1077.40	96966.000
b)	17.35.2	75mm diameter				
i) 3.10	17.35.2.2 17. 37	Centrifugally cast (spun) iron socketed pipe as per IS: 3989 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. :	Metre	65.00	1042.10	67736.500
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.				
		intertable waster of third allow, botte and hate complete.				

S. No.	Ref. No	Description	Unit	Qty	DSR 21 Rate	Amount (Rs.)
1	2	3	4	5	6.00	7
i)		Sand cast iron S&S as per IS - 3989	Each	18.00	597.60	10756.800
p)	17.38.2	75 mm	E	0.00	450.40	000 000
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	100 mm				
i)		Sand cast iron S&S as per IS : 3989	Each	34.00	439.75	14951.500
b)	17.39.2	75 mm	Luon	04.00	400.70	14001.000
i)		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)		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)		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)		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) i)		100 mm 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
0.47	47 50	Duantidia a and fixing terminal arrand.				
3.17	17. 56 17.56.1	Providing and fixing terminal guard :				
a) i)		100 mm Sand cast iron S&S as per IS - 3989	Foob	9.00	439.75	3957.750
b)	17.56.1.2	75 mm	Each	9.00	439.75	3937.730
i)		Sand cast iron S&S as per IS - 3989	Each	1.00	311.55	311.550
'/	17.00.2.2	Cana cast non ode as per 10 - 5505	Lacii	1.00	011.00	311.000
3.18	17. 57	Providing and fixing collar :				
a)	17.57.1	100 mm				
i)		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				
3.18	17.30	(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
	11.00.2		Luon	20.00	+50.∓0	3320.000
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				
		Sand Cast Iron S&S as per IS: 1729	Each	16.00	1403.45	22455.200
i)						

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,	Foot	4.00	205.40	4000 400
		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				
a)	17.73.2	arrangement of approved quality and colour. 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 17.10.1.1	Kitchen sink with drain board 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 Eureopean 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				

BOQ-S-Boys Page No.4

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	
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	
b)	18.8.2	20 mm nominal outer dia Pipes	Metre	60.00	513.75	
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	
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)		25mm nominal bore	Each	4.00	532.35	2129.40
b)		32mm nominal bore	Each	4.00	589.90	
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				200772 500
		Total of Sub-flead				288773.500
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	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 a)	19.8 19.8.1	Extra for depth for manholes : 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	Molling appropriate of during a governing with existing month of				
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	PARTICULARS	AMOUNT A	AMOUNT AS PER								
HEAD		SR ITEMS	NS ITEMS								
I	WIRING	665,087.00	9,089.55								
II	SUPPLY OF FITTINGS AND FANS	74,790.00	407,913.50								
III	BOARDS & DISTRIBUTION BOARDS	106,041.00	-								
IV	EARTHING	43,950.00	-								
٧	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)

	ABSTRACT OF COST (ELECTRICAL WORKS)									
SI.	DSR-	DESCRIPTION	UNIT	QTY.	RATE	RATE	AMOUNT	AMOUNT		
No. 1.00	2022	SUBHEAD - I - WIRING			(AS PER SR)	(AS PER NS)	(SR ITEMS)	(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								
a)		alongwith modular base & cover plate for modular switches in recess etc. as required. 4 Module (125 mmX75 mm)	Each	11.00	343.00		3773.00	0.00		
,										
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)		15/16 A switch	Each	11.00			1716.00	0.00		
p)		3 pin 5/6 A socket outlet	Each	25.00			3050.00	0.00		
c) d)	1.24.6	Telephone socket outlet	Each	2.00			296.00	0.00		
u)	1.24.7	TV antenna socket outlet	Each	6.00	146.00		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			35340.00	0.00		
c)		2 X 10 sq. mm + 1 X 6 sq. mm earth wire	Metre	50.00			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		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								
2)	1.21.1	recessed conduit as required.	Motro	25.00	120 00		3300.00			
a)	1.21.1	20 mm	Metre	25.00	128.00]	3200.00			

BOQ-E-Boys

1

SI.	DSR-	DESCRIPTION	UNIT	QTY.	RATE	RATE	AMOUNT	AMOUNT
No.	2022 1.21.2	25 mm	Metre	25.00	(AS PER SR) 145.00	(AS PER NS)	(SR ITEMS) 3625.00	(NS ITEMS)
			Would	20.00	110.00		0020.00	
1.12		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						
a)	a)	tag blocks. 10 pair Telephone Tag Block with box	Each	1.00		496.55	0.00	496.55
1.13		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 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 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 frequired.						
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		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 quard, 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		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		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		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.						
		The state of the s	Each	67.00	369.00		24723.00	0.00

BOQ-E-Boys 2

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	Each	67.00		<u>vici zivilej</u>	22713.00	0.00
0.40								
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						
2.17	1.00	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						
a)	2.13.3	commissioning etc. as required. 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,						
a)	2.12.1	testing and commissioning etc. as required. 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			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)		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

SI. 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.					<u> </u>	
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 flourescent 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.l. 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, AI round wire armoured & overall PVC sheathed cableconforming 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. 2 X 6 sq. mm (19mm)						

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SI.	DSR-	DESCRIPTION	UNIT	QTY.	RATE	RATE	AMOUNT	AMOUNT
No.	2022				(AS PER SR)	(AS PER NS)	(SR ITEMS)	(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 reqired .(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)		2.00		740.40	0.00	4400.00
			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
		TOTAL OF SUBILAD - V.					29404.00	13037.90
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.		0.00	540.00		4000.00	0.00
		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
0.00	0.0	5:: (/ 2) / 2						
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	Rm	60.00	80.00		4800.00	0.00
		horizontal run)	KIII	00.00	80.00		4600.00	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
0.05	0.40	Describing and fair at a firm in the start was done from the start.	-					
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.						
		Indis 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
							307304.00	702070.00
	1	I .	1					

BOQ-E-Boys 5

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

GIRLS DORMITORY WITH 2 NO WARDEN RESIDENCE SUMMARY OF COST (CIVIL WORK)

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

	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						
4.00	0.05											
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-bood				121221 50						
		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			
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	•	40.00		10=0.01	
		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		100 75	101.00	40447.00	
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	0	4400 70	700 55	040000 05	
		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	
0.00	5.00						
3.02	5.22	Steel reinforcement for R.C.C. work including straightening,					
		cutting, bending, placing in position and binding all complete					
- \	F 00 0	upto plinth level.					
a)	5.22.6	Thermo-Mechanically Treated bars of grade Fe-500D or more.	leila ava na	52172.00	89.65	4677040.00	
			kilogram	52172.00	69.00	4677219.80	
3.03	5.30	Add for plaster drip course/ groove in plastered surface or					
3.03	3.30	moulding to R.C.C. projections.					
		moduling to N.O.O. 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).					
(1)			_			440010015	
(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					
2.00	0.00	above the specified cement content therein.	Quintal	448.76	688.45	308948.82	
		assis the spesified definite definite the following	Qtui		223.10	0000.0.02	
		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				0.504.5.04	
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,					
5.02	0.3	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		5654.48	
5)	0.0.2	Ordinice Work		10.00		0001110	
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-band				456220 54	
		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) a)	9.27.1 9.27.1.1.2	35 mm thick shutters 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	•				
a)	9.59.1	spring hinges with necessary screws etc. complete : 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	Laui	20.00	224.50	4499.00	
a)	9.96.2	nuts and screws etc. complete : 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.					

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 of double glazing bead of appropriate dimension. (Area of window above 1.75 sgm). 6.11 dsr-9.7.7.2 Float glass panes 5.0 mm thick glass panes (weight not less than 12.50 kg/sqm). 6.12 9.147 Providing and fixing factory made uPVC white colour fixed glazed windows/ ventilators comprising of uPVC multi-chambered frame and multion (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 mitted cut and fusion welded at all corners, multion (if required) shall be also fusion welded including drilling of holes for fixing frame the gap between frame and adjacent finished wall shall be filled with weather proof silicon sealant over backer rol 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. Total of sub-head	S. No.	Ref. No	Description	Unit	Quantity	DSR 21 Rate	Amount (Rs.)	Remark
than 12.50 kg/sqm). 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	a)	9.147D.4	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	Sqm	163.52	9642.60	1576709.74	
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	6.11	dsr-9.7.7.2		Sqm	163.52	2231.20	364834.67	
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	6.12	9.147	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	·				
Total of sub-head 2399247.14	a)	9.147B.1	mm & mullion 47 x 68 mm both having wall thickness of 1.9 ±	Sqm	12.49	7249.90	90533.13	
			Total of sub-head					

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)		4040.00			
			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	
						000=10=1	
		Total of sub-head				268540.71	

S. No. 8.00	Ref. No	Description FLOORING	Unit	Quantity	DSR 21 Rate	Amount (Rs.)	Remark
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 Ist quality ceramic glazed wall tiles conforming to IS: 15622 (thickness to be specified by the manufacturer), of approved make, in all colours, shades except burgundy, bottle green, black of any size as approved by Engineer-in-Charge, in skirting, risers of steps and dados, over 12 mm thick bed of cement mortar 1:3 (1 cement : 3 coarse sand) and jointing with grey cement slurry @ 3.3kg per sqm, including pointing in white cement mixed with pigment of matching shade complete.	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 a)	13.4 13.4.2	12 mm cement plaster of mix 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 a)	13.37 13.37.1	White washing with lime to give an even shade : 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)	Illnd 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)	Illrd 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 SHEDULE 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 All kinds of soil				
a)		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
		J' 1	-			
		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	E	2.00	110.05	250.05
a) 	12.42.1.2		Each	3.00	119.95	359.85
ii) a)		Bend 87.5° 110 mm bend	Each	3.00	132.00	396
<u>u,</u>			Edon	0.00	102.00	333
iii) a)		Shoe (Plain) 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
2.00	47.04	Dura siding a good fixing the last many on helden .				
3.08 a)	17. 34 17.34.2	Providing and fixing toilet paper holder : Vitreous china	Each	5.00	463.00	2315.000
	47.05					
3.09	17. 35 17.35.1	Providing and fixing soil, waste and vent pipes : 100 mm dia.				
a) i)	17.35.1					
		3989	Metre	70.00	1077.40	75418.000
p)	17.35.2	75mm diameter	Mata	05.00	4040.40	07700 500
i) 3.10	17.35.2.2	Centrifugally cast (spun) iron socketed pipe as per IS: 3989 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. :	Metre	65.00	1042.10	67736.500
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.				

S. No.	Ref. No	Description	Unit	Qty	DSR 21 Rate	Amount (Rs.)
1	2	3	4	5	6.00	7
i)		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)		Sand cast iron S&S as per IS : 3989	Each	30.00	439.75	13192.500
p)	17.39.2	75 mm		0.00	200 00	500.40
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)		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 Sand cast iron S&S as per IS - 3989	Each	0.00	721 40	6592 600
i) b)	17.43.1.2	75x75x75mm	Each	9.00	731.40	6582.600
i)		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		1100		
a)	17.44.1	100x100x100mm				
i)		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		10.00	0.1.1.00	2442.222
i)		Sand cast iron S&S as per IS - 3989	Each	10.00	611.00	6110.000
b) i)	17.55.2 17.55.2.2	75 mm 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				
		Sand cast iron S&S as per IS - 3989	Each	9.00	439.75	3957.750
b) i)	17.56.2	75 mm Sand cast iron S&S as per IS - 3989	Each	1.00	311.55	311.550
	11.00.2.2	Carra dast iron das de por lo dodo	Lacii	1.00	011.00	011.000
3.18	17. 57	Providing and fixing collar :				
a)	17.57.1	100 mm				
i)		Sand cast iron S&S as per IS - 3989	Each	20.00	439.75	8795.000
p)	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)		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 Eureopean 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 18.12.5	32mm dia nominal bore 40mm dia nominal bore	Metre	30.00	457.70	13731.00
	10.12.5	40ffiffi dia nominal pore	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	
b)	18.7.3	25 mm nominal outer dia Pipes	Metre	30.00	408.55	
c)	18.7.4	32 mm nominal outer dia Pipes	Metre	20.00	500.95	
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	
b)	18.8.2	20 mm nominal outer dia Pipes	Metre	60.00	513.75	
c)	18.8.3	25 mm nominal outer dia Pipes	Metre	30.00	626.05	
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	
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)		25mm nominal bore	Each	4.00	532.35	2129.40
b)		32mm nominal bore	Each	4.00	589.90	
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
		Total of Sub-flead				200773.300
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	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 a)	19.8 19.8.1	Extra for depth for manholes : 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
- 0-	10.01					
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 J	JNV RAMBAN, JAMMU & KASHI	MIR
	GIRLS DORMITORY WITH 2 NO	WARDEN RESIDENCE	
	SUMMARY OF COST (ELEC	CTRICAL WORK)	
SUB	PARTICULARS	AMOUNT	AS PER
HEAD	PARTICULARS	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	-
٧	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)

		ABSTRACT OF COST (EL						
SI.	DSR- 2022	DESCRIPTION	UNIT	QTY.	RATE	RATE	AMOUNT	AMOUNT
No. 1.00	2022	SUBHEAD - I - WIRING			(AS PER SR)	(AS PER NS)	(SR ITEMS)	(NS ITEMS)
1.00		SOBILEAD -1 - WIKING						
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		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.		177.50	662.00		117505.00	0.00
1.04	1 27	Supplying and fixing following size/ modules CL box						
a)		Supplying and fixing following size/ modules, GI box alongwith modular base & cover plate for modular switches in recess etc. as required. 4 Module (125 mmX75 mm)		11.00	343.00		3773.00	0.00
uj	1.27.0	+ Module (120 Minor o Min)						
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)		15/16 A switch	Each	11.00			1716.00	0.00
p)		3 pin 5/6 A socket outlet	Each	25.00			3050.00	0.00
c) d)	1.24.6	Telephone socket outlet	Each	2.00			296.00	0.00
u)	1.24.7	TV antenna socket outlet	Each	6.00	146.00		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)		2 X 6 sq. mm + 1 X 6 sq. mm earth wire	Metre	60.00			35340.00	0.00
c) d)		2 X 10 sq. mm + 1 X 6 sq. mm earth wire 4 X 4 sq. mm + 2 X 4 sq. mm earth wire	Metre	50.00 125.00			35500.00	0.00
u)	1.7.8	4 \(\lambda\) 4 \(\sqrt{4}\) \(\lambda\) 1 \(\sqrt{4}\)	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.		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		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						
c)	1 01 4	recessed conduit as required.	Mat	25.00	400.00		2200.00	
a)	1.21.1	20 mm	Metre	25.00	128.00		3200.00	

SI. 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		(AOT ER NO)	3625.00	(NOTI EMO)
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 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 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)		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 quard. 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)		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.		-	000.0-		0.15	
			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.		58.00	339.00	(NO. 2.0.10)	19662.00	0.00
0.40	4 44							
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.		36.00	119.00		4284.00	0.00
2.14	1.38	Supplying and fixing call bell/ buzzer suitable for single						
2.14	1.30	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						
a)	2.13.3	commissioning etc. as required. 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,						
a)	2.12.1	testing and commissioning etc. as required. 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			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)		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

SI. 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.		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.		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 flourescent 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)		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.		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 cableconforming 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. 2 X 6 sq. mm (19mm)						

SI.	DSR-	DESCRIPTION	UNIT	QTY.	RATE	RATE	AMOUNT	AMOUNT
No.	2022				(AS PER SR)	(AS PER NS)	(SR ITEMS)	(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 reqired .(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)	l					
			Each	2.00		746.40	0.00	1492.80
5.09	14.14	Providing, laying and fixing following dia RCC pipe NP2 class						
0.00		(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 GURLEAR M						4=00=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.l. 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	D	00.00	00.00		4000.00	0.00
		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
0.05	0.46	Provide and find the first and						
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.l. 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
-		10.7.2 (10.1)					555427.00	717100.33
	1	1	1	Ī	1	ı	1	i

	DETAIL ESTIMATE OF PHASE	A & B WURK A	T JNV RAMBAN	, JAMMI	J & KASHIVIII	(
		ABSTRACT OF						
	DESCRIPTION OF ITEM	DSR				AMOUNT	AMOUNT	
S.N.	DESCRIPTION OF ITEM	2021	QUANTITY	UNIT	RATES	DSR ITEM	[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	СПМ	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 (iii) R.C.C. work in Columns	5.33.1 5.33.1	14.16 5.70	CUM	7997.30 7997.30	113241.77 45584.61		
	(ii) R.C.C. work in Columns (iv) R.C.C. work in Grade Slab	5.33.1	11.76	CUM	7997.30	94048.25		
(II)	Above plinth to floor-V IvI Same as above but R.C.C. work abive plinth LvI.							
	(i) R.C.C. work in Lintel	5.33.2	0.28	CUM	10080.15	2822.44		
	(ii) R.C.C. work in Beam (iii) R.C.C. work in Columns	5.33.2 5.33.2	7.56 4.48	CUM	10080.15 10080.15	76205.93 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. Suspended floors, roofs, landings, balconies and	5.9.1	26.33	SQM	307.95	8106.78		
(b)	access platform.	5.9.3	207.72	SQM	766.55	159227.77		

(c)	Lintels, beams, plinth beams, girders, bressumers						
(0)	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						
9	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						
10	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	00.70	01111	0004.45	150707.01	
			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	0.40.0	55.40		1010.05	50004.50	
-	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	*					
1	dia. M.S. bars at every third course of half brick						
-	masonry.	6.15	55.10	SQM	86.45	4763.40	
13	Providing and loving four courses water						
13	Providing and laying four courses water proofing treatment with bitumen felt over						
	roofs consisting of first and third courses of						
1	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	
1.1	Crading roof for water was first track						
14	Grading roof for water proofing treatment						
<u> </u>	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	
L							
15	Providing and fixing 35 mm thick factory made laminated veneer lumber door shutter conforming to						
1	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						
1	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:						
	Something to 10 . 12020, Grade -1, Type II marked .						
				1			
		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	
1			1	1			

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						
	mitted and wolded including fixing of necessary but						
	hinges and screws and applying a priming coat of approved steel primer						
	αρριονού οισοι μπποι						
	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	10.40.4	400.75	140	444.05	44407.04	
	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	
					2.3.00		
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					-	
۱ ۲	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)	12 F 2	110.00	6014	220.40	27207.70	
		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	
			_00.02	JOIN	251.50	33100.42	
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.				44	446555 :-	
		11.41.2	82.05	SQM	1416.65	116236.13	
	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	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						
	pignionia dia. sampiata. di20 di Tilo doskodo mini						
		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	-			-		
۷1	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.	44.07	40.00	00.4	005.00	44007.00	
		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.						
	with pigment of matching shade complete.	8.31	45.40	SQM	1063.45	48277.44	
29	Providing edge moulding to 18mm thick marble stone	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	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	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						
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	8.3.2	45.40	SQM	1063.45	2087.97	
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 Extra for fixing marble /granite stone over and above						
	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 Extra for fixing marble /granite stone over and above corresponding basic item, in facia and drops of width						
	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 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	8.3.2	4.99	RM	418.85	2087.97	
	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 Extra for fixing marble /granite stone over and above corresponding basic item, in facia and drops of width						
	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 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	8.3.2	4.99	RM	418.85	2087.97	
30	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 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. Extra for providing opening of required size & shape for wash basins/ kitchen sink in kitchen platform,	8.3.2	4.99	RM	418.85	2087.97	
30	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 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. Extra for providing opening of required size & shape for wash basins/ kitchen sink in kitchen platform, vanity counters and similar location in	8.3.2	4.99	RM	418.85	2087.97	
30	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 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. 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	8.3.2	4.99	RM	418.85	2087.97	
30	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 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. Extra for providing opening of required size & shape for wash basins/ kitchen sink in kitchen platform, vanity counters and similar location in	8.3.2	4.99	RM	418.85	2087.97	
30	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 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. 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.	8.3.2	4.99	RM	418.85 475.55	2087.97	
30	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 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. 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. Steel Painting:	8.3.2	4.99	RM	418.85 475.55	2087.97	
30	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 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. 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. Steel Painting: (a) With ready mixed red oxide zink chromate primer of approved brand and manufacture on steel	8.3.2 8.4 8.5	4.99	RM RM	418.85 475.55 808.15	2087.97 2370.62 808.15	
30	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 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. 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. Steel Painting: (a) With ready mixed red oxide zink chromate primer of approved brand and manufacture on steel galvanised iron/steel works.	8.3.2	4.99	RM	418.85 475.55	2087.97	
30	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 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. 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. Steel Painting: (a) With ready mixed red oxide zink chromate primer of approved brand and manufacture on steel galvanised iron/steel works. (b) Painting with synthetic enamel paint of approved	8.3.2 8.4 8.5	4.99	RM RM	418.85 475.55 808.15	2087.97 2370.62 808.15	
30	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 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. 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. Steel Painting: (a) With ready mixed red oxide zink chromate primer of approved brand and manufacture on steel galvanised iron/steel works.	8.3.2 8.4 8.5	4.99	RM RM	418.85 475.55 808.15	2087.97 2370.62 808.15	
31 32	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 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. 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. Steel Painting: (a) With ready mixed red oxide zink chromate primer of approved brand and manufacture on steel galvanised iron/steel works. (b) Painting with synthetic enamel paint of approved brand and manufacture to give an even shade: Two or more coats on new work.	8.3.2 8.4 8.5	4.99 4.99 1.00	RM RM NO SQM	418.85 475.55 808.15	2087.97 2370.62 808.15	
30	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 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. 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. Steel Painting: (a) With ready mixed red oxide zink chromate primer of approved brand and manufacture on steel galvanised iron/steel works. (b) Painting with synthetic enamel paint of approved brand and manufacture to give an even shade: Two	8.3.2 8.4 8.5	4.99 4.99 1.00	RM RM NO SQM	418.85 475.55 808.15	2087.97 2370.62 808.15	
31 32	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 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. 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. Steel Painting: (a) With ready mixed red oxide zink chromate primer of approved brand and manufacture on steel galvanised iron/steel works. (b) Painting with synthetic enamel paint of approved brand and manufacture to give an even shade: Two or more coats on new work. Distempering with oil bound washable distemper of approved brand and manufacture to give an even shade: New work (two or more coats) over and	8.3.2 8.4 8.5	4.99 4.99 1.00	RM RM NO SQM	418.85 475.55 808.15	2087.97 2370.62 808.15	
31 32	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 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. 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. Steel Painting: (a) With ready mixed red oxide zink chromate primer of approved brand and manufacture on steel galvanised iron/steel works. (b) Painting with synthetic enamel paint of approved brand and manufacture to give an even shade: Two or more coats on new work.	8.3.2 8.4 8.5	4.99 4.99 1.00	RM RM NO SQM	418.85 475.55 808.15	2087.97 2370.62 808.15	

	First Provide A C C C		ı					
24	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.							
34	over and including priming coat of exterior primer applied @ 2.20 kg/ 10 sqm).	40.47.4	140.00	2014	400.05	47004.75		
		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) 90 mm	9.67 9.67.3	14.00	NOS	22.10	309.40		
37	Providing and fixing special quality bright finished brass cupboard or	9.07.3	14.00	NOS	22.10	309.40		
	ward robe locks with four levers of approved quality	9.79	0.00	Noo	000.45	4000.00		
38	75 mm Providing and fixing wooden moulded corner beading	9.79.4	6.00	NOS	333.15	1998.90		
	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							
39	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 : 250x16 mm	9.96 9.96.2	16.00	NOS	234.90	3758.40		
40	250x16 111111	9.90.2	10.00	1103	234.90	3730.40		
	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	40.00	Noo	00.00	4.450.00		
	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							
	: 125 mm	9.100 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.							
	25 mm thick (for cupboard) including ISI marked nickel plated bright finished M.S. Piano hinges IS:	9.20						
	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		
				Say	TOTAL Rs. In Lacs	2822594.97 28.23		
			1	Jay	.v. 111 Ldb3	20.23	l	

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

S.NO	NAME OF SUB-HEAD	AMO	UNT
<u> </u>	10,4112 61 665 112/15	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

BILL OF QUANTITIES FOR PLUMBING WORKS (PRINCIPAL RESIDENCE) S. DSR-2021 TOTAL RATE AMOUNT **DESCRIPTION** UNIT No QTY (in Rs) (in Rs) SUB HEAD (I):- SANITARY FIXTURES (DSR ITEMS) Т 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. 3.00 5540.55 16621.65 17.2.1 W.C. pan with ISI marked white solid plastic seat and lid each Providing and fixing P.V.C. waste pipe for sink or wash basin including PVC waste 2 fittings complete. 17.28.2 Flexible Pipe each 1.00 104.35 104.35 40 mm dia (for sink and urinal) 17.28.2.2 Providing and fixing Stainless Steel A ISi 304 (18/8) kitchen sink as per IS: 13983 3 17.10 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 510x1040 mm bowl depth 250 mm each 1.00 6008.45 6008.45 17.10.1.1 Providing and fixing wash basin with C.I.brackets, 15 mm C.P. brass pillar taps, 32 17.7 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 2731.45 8194.35 each 3.00 tap Providing and fixing CP Brass 32mm size Bottle Trap of bapproved quality & make 17.22A 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) 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 MR 2 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 MR 3 Providing & fixing C.P. Brass Waste Coupling for PVC waste Pipe. 3.00 550.00 1650.00 each TOTAL SUB HEAD (I) (NON-DSR) 31890.00 | | SUB HEAD (II) :- TOILET REQUISIES (DSR'18) 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. 3.00 4233.45 brass screws and washers complete. each 1411.15 17.34 Providing & fixing toilet paper holder. 17 34 2 each 3 00 463.00 1389.00 viterous china TOTAL SUB HEAD (II) (DSR'18) 5622.45 SUB HEAD (II):- TOILET REQUISIES (NON-DSR) MR Providing and fixing of C. P. brass towel rail 600 x 20 mm size complete with C.P. 3.00 1295.00 3885.00 brass brackets each Providing and fixing of C. P. brass towel ring complete with C.P. brass brackets 2 MR 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. 600.00 each 3.00 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	(in Re)	AMOUNT
No 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		QIT	(in Rs)	(in Rs)
		joints, including all neccessary 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. alround 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
•		Duriting a friend HDVO Floor to a feel for the state of t				
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 neccessary 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. alround 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)		٠	(110)	(110)
1	18.21	Providing & fixing 15 mm nominal bore 45 cm long unplasticised PVC connection pipe with brass unions.				
		45 cm length				
2		15 mm nominal bore Providing and fixing C.P brass bib cock of approved quality conforming to IS	each	10.00	85.20	852.00
2	18.49	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.		1.00	745.05	745.05
4	18.50.1 18.53	15 mm nominal bore Providing & fixing 15 mm nominal bore C.P brass Angle valve for basin mixer and	each	1.00	715.05	715.05
4	10.55	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				
		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				
	10 46 1	the pipe & making long screws etc. complete.		4.00	262.20	000.00
	18.46.1 18.46.2	15mm dia nominal bore 20mm dia nominal bore	each	1.00	262.30	262.30
	18.46.3	25mm dia nominal bore	each	3.00	289.05	867.15
	18.46.4	32mm dia nominal bore	each	2.00 4.00	369.35 409.45	738.70 1637.80
	18.46.5	40mm dia nominal bore	each 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:	eacii	3.00	700.70	2120.10
		eating notes up to 50 % 50 cm in waits 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				
Ŭ	10.7	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
		25mm nominal outer dia pipes	metre	30.00	408.55	12256.50 4007.60
	18.7.4 18.7.5	32mm nominal outer dia pipes 40mm nominal outer dia pipes	metre metre	8.00 8.00	500.95 674.35	5394.80
	10.7.0	Tomin nominal outer dia pipes	mene	0.00	0/4.33	JJJ#.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	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				
	18.48B	tank. Circular tank	Per Ltr	1000.00	9.70	9700.00
			_: :			2.23.00
						l

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

SUMMARY OF COST FOR ELECTRICAL WORKS (PRINCIPAL RESIDENCE)

		AMOU	JNT
S. No	DESCRIPTION	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

S.No	DSR-2022	DESCRIPTION	UNIT	Quantity	RATE	AMOUNT
ī		SUB HEAD (I):- INTERNAL WIRING			(in Rs)	(in Rs)
		SOB READ (I) :- INTERNAL WIRING				
1		D 1 (11 1 DVO 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 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	1.11	Twin Control Point wiring in PVC conduit, with modular type switch :- 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.	М	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.	М	15.00	233.00	3495.00
	1.14.2	2 X 2.5 sq. mm + 1 X 2.5 sq. mm earth wire.	М	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 1.14.10	2 x 10 sq.mm. + 1 x 6 sq.mm. Earth wire 4 x 10 sq.mm. + 2 x 6 sq.mm. Earth wire	M M	20.00 1.00	570.00 1005.00	11400.00 1005.00
	1.11.10	1 X 10 Sq.min. · 2 X O Sq.min. Editir Milo				1000.00
6	1.31	S/F light plug point Modular type accessories :- 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	1.32	S/F power plug point modular type accessories:- Supply and fixing of suitable size GI box with modular plate and cover in FRLSont 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

	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
Ш		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.	М	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	М	50.00	38.00	1900.00
	4.40					
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.	М	50.00	47.00	2350.00
		TOTAL SUB HEAD (III)				24631.00
v		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
		inscription single red colour on Tricoont side as required.	Each	1.00	209.00	209.00
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		Providing and fixing circular/ Hexagonal cast iron or M.S. sheet box for				
	10.18 DSR-2021 (Civil)	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
.,		OUR LIEADAN, INTERNAL LIGHTING FIVTHERO & FANO				
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
		O I COM CUREAGE MOUNTER LED WE II				
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
	LUDOD	Supply of 20W SURFACE MOUNTED LED TUBE with all accessories as per				
4	NDSR	standard item(Such as Panasonic PBTM01207 or Equivalent).	Each	3.00	2300.00	6900.00
		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. (Such as Havells Velocity/Velocity HS or Equivalent).				
	NDSR	1200 mm sweep	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). 300 mm sweep 900 rpm	Nos	4.00	3230.00	12920.00
	140011		. 100	1.00	5255.00	525.00
		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 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.		40.00	000.00	0070.05
			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
			Luon	2.00	010.00	1000.00
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
		1 0	Lucii	7.00	121.00	104.00
6	6.15	Laying copper/ G.l. 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

	(G+2)	
	SUMMARY OF CIVIL WORK ST	AFF 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

		COST ESTIMATE OF STAFF	QUARTERS	S 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. Total of sub-head	Cum	117.00	253.95	29712.15 85361.05
		Total of Sub-flead				00001.00
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: 1:2:4 (1 Cement: 2 coarse sand: 4 graded stone aggregate 20 mm	Cum	0.56	9375.20	5244.11
a)	4.2.3	nominal size).	Cum	0.00	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 Small lintels not exceeding 1.5 m clear span, moulding as in cornices, window sills, string courses, bands, copings, bed plates, anchor blocks	Sqm	376.20	804.25	302558.85
d)	5.9.15	and the like	Sqm	4.86	307.95	1497.87
e)	5.9.16	Edges of slabs and breaks in floors and walls	met	104.00	404.00	04440.00
f) g)	5.9.16.1 5.9.3	Under 20 cms wide Suspended floors, roofs, landings, balconies and access platform.	metre Sqm	134.20 415.33	181.90 766.55	24410.98 318374.97
9/	5.5.5	Lintels, beams, plinth beams, girders, bressumers and cantilevers.	Sqiii	710.00	700.00	010017.91
h)	5.9.5		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
		Steel reinforcement for R.C.C. work including straightening, cutting,				-
3.03	5.22	bending, placing in position and binding all complete upto plinth level.	1.0	0.4500.00	22.2	0400001 ==
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.)
		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				
2.05	5.22	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).				
3.05 (i)	5.33 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				
4.04	6.1	Brick work with common burnt clay F.P.S. (non modular) bricks of class				
4.01 a)	6.1 6.1.2	designation 7.5 in foundation and plinth in: Cement mortar 1:6 (1 cement : 6 coarse sand)	Cum	0.59	6658.25	3943.35
	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				
4.02 a)		made for seperately).	Cum	83.30	6994.15	582628.50
a)			Cuiii	03.30	0994.13	302020.30
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				
		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.				
5.01 a)	8.2 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
		Providing edge moulding to 18 mm thick marble stone counters, Vanities etc., including machine polishing to edge to give high gloss finish etc.				
5.02 a)	8.3 8.3.2	complete as per design approved by Engineer-in-Charge. Granite work	Metre	21.96	418.85	9197.95
		Extra for fixing marble /granite stone, over and above corresponding				
5.03	8.4	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				
l		Draviding wood work in frames of deers windows clarectory windows				
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).				

Providing and fixing ISI marked flush door shutters conforming to IS: 2020 [Part I) recored to type, to 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.	S. No.	Ref. No	Description	Unit	Quantity	DSR 21 Rate	Amount (Rs.)
of 1st class hard wood and well machined teat 3 ply veneeting with venetical garians or cross bands and face receives no thol faces of shulture. 2 mm thick (for cusposed) judging ISI masted risked plased pright as a possible of the providing and foring ISI masted field with necessary screws. 2 providing and foring ISI masted flats thou shulters conforming to ISI 2202 (Part I) non-decorative type, core of block board construction with the providing and foring ISI masted flats though a plant or cross bands and face venees on both taces of a hultures. 3 p. 22.11 non-decorative type, core of block board construction with the providing and foring ISI masted Salindess Steel but hinges with necessary screws. 5 p. 22.11 non-decorative type of the providing and foring the providing and foring were gauge shuffers using galavianced M.S. were gauge of wrends which of spetture 1.4 mm in both milections with were of public to the providing and foring were gauge shuffers using galavianced M.S. were gauge of wrends with the providing and foring were gauge shuffers using galavianced M.S. were gauge of wrends with the department of the providing and foring were gauge shuffers using galavianced M.S. were gauge of wrends with the gard of the providing and foring were gauge shuffers using galavianced M.S. were gauge of wrends with the gard of the providing and foring wrends with the gard of the providing and foring wrends with the gard of the providing and foring shuffers with the gard of the providing and foring shuffers with the gard of the providing and foring shuffers with the gard of the providing and foring shuffers with the gard of the providing and foring shuffers with the gard of the gard of the gard of the gard of the galaviance with the gard of the gard of the gard of the gard of the galaviance with the gard of the galaviance with the gard of the gard of the galaviance with the gard of the g	011101				Quantity	201121111110	7 (1.10.)
A continued of the co			, , ,				
9.02.3 firsished M.S. Piano hinges IS :3818 marked with necessary screws Sqm 12.60 2512.35 31655.61 Sqm 12.00 20.3 firsished M.S. Piano hinges IS :3818 marked with necessary screws Sqm 12.60 2512.35 31655.61 Providing and fixing IS marked flash lock shallers confirming IS IS 2020 (Part I) non-discorative type, core of block board construction with frame of 1st class hard wood and well are trached commercial 3 by veneming with vertical grains or cross bands and lace venemes on both face of hindres. 8.03 0.21 flower of hindres. 8.04 9.21.1 noncessary screws Sqm 12.60 Sqm 70.35 2015.75 141606.01 Providing in planing ISI marked Basin Steel but thinges with necessary screws Providing and foring ISI marked Stanless Steel but thinges with necessary screws Sqm 70.35 2015.75 141606.01 Sqm 70.35 Providing and foring Wire department At man in both directions with wire of display of the providing and foring wire gauge of werage worth of aperture 1.4 mm in both directions with wire of display of the providing and foring wire gauge of werage worth of aperture 1.4 mm in both directions with wire of display of the providing and foring aluminum sliding door bots, ISI marked annotised (wrodic coulling not less than grade AC 10 as per 18 1.666), temperated or specific required colour or shade, with necessary screws and complete and providing and foring aluminum sliding door bots, ISI marked annotised (wrodic coulling not less than grade AC 10 as per 18 1.666), temperated or specific required colour or shade, with necessary screws and complete. 8.08 9.90.2 250x16 mm Examinum brown bots, ISI marked annotised (wrodic coulling not foring aluminum brown bots, ISI marked annotised (wrodic couling not foring aluminum brown bots, ISI marked annotised (wrodic couling not foring aluminum brown bots, ISI marked annotised (wrodic couling not foring aluminum brown bots, ISI marked annotised (wrodic couling not foring aluminum brown bots, ISI marked annotised (wrodic couling not brown and the providing and foring aluminum brown bots, ISI ma			. , ,				
a) 9,20.3 finished MS. Plann hinges Si 3916 marked with necessary screws Sqm 12,60 2512,35 31655,61 Providing and fixing ISI marked flush door shuttlers conforming to ISI 2202 (Part I) north decorative type, core of block board constitution with vaneering with vertical grains or cross bands and face veneers on both face of the providing list marked Stanness Steel but hinges with special providing in the consistance of the providing ISI marked Stanness Steel but hinges with Sgm 70,35 2015,75 141838,01 2015,75 201	6.02	9.2	vertical grains of cross bands and face verteers on both faces of shutters.				
Providing and fixing ISI marked flush door shutters conforming to IS: 2002 [Part I) non-decreative type, core of block board construction with trained of 1st class has would and very marked commental 3 size. 8.03 9.21 [Score of shutters.] 8.03 9.21 [Score of shutters.] 8.04 9.21 [Score of shutters.] 8.05 mm thick including ISI marked Stanless Steel but hinges with necessary screws. 8.06 9.23 shutters or a state of shutters. 8.07 Providing and fixing ISI marked Stanless Steel but hinges with necessary screws. 8.08 Providing and fixing ISI marked stanless steel wood batters 25 mm minimum doptn but hinges with necessary screws. 9.09 9.27 1 25 mm thick shutters using galvanized M.S. wire gauge of average width of aperture 1.4 mm in both directions with wire of dia 0.8 3 mm, for closers, windows and clarestory windows with hinges and necessary screws. 9.09 9.27 1.12 (Sin exessary screws.) 9.09 9.27 1.12 (Sin exessary screws.) 10.00 9.28 2 250x16 mm. 10.00 9.28 2 250x16 mm. 10.00 9.29 2 250x16 mm. 10.00 9.20 2 25	-)	0.00.0	` ' '	C	40.00	2542.25	24055.04
2002 (Part I) non-decorative type, core of block board construction with frame of 1st class hard wood and well marched comments on both factors of shutters to a forest and so and face veneers on both faces of shutters to faces of shutters or the faces of shutters of the faces of shutters of the faces of shutters or the faces of shutters or the faces of shutters of the faces of shutters or the faces of shutters of the faces of shutters of the faces of the f	а)	9.20.3	Tinished M.S. Plano ninges IS: 3818 marked with necessary screws	Sqm	12.60	2512.35	31655.61
frame of 1st class hard wood and well matched commercial 3 ply seveneers on both faces of abutters: a) 9.21 for control of abutters: a) 9.21 in control of abutters: 5 gm 70.35 2015.75 141808.01							
veneering with vertical grains or cross bands and face veneers on both faces of shutters. a) 0.21.1 Secsor of shutters. 55mm thick including ISI marked Stainless Steel butt hinges with Sgm 70.35 2015.75 141808.01 6.04 0.23 Similar to be measured. 6.04 0.23 Similar to be measured. Froviding and fixing vier gauge shutters using galvanized M.S. wire gauge of average with of appeturs 1.4 mm in both directions with wire of data 0.5 mm, for doors, windows and citeratory windows with hinges and increasery screen. 6.05 0.27. 8.07 0.27. 8.08 0.27.1 Similar seasoned and Chemically treated hollock wood. 8.09 0.27.1.1 Similar seasoned and Chemically treated hollock wood. 8.00 0.99. 8.00 0.99. 8.00 0.99. 8.00 0.99. 9.96.2 250x16 mm. Froviding and fixing aluminium stiding door bots, ISI marked anodised (anodic coating not less than grade A.C 10 as per IS: 1688) transparent or dyed to required colour or shade, with necessary screws etc. complete: 9.96.2 250x16 mm. 8.07 0.97. 9.97. 200x10 mm Each of thing aluminium tower bots, ISI marked, anodised (anodic coating not less than grade A.C 10 as per IS: 1688) transparent or dyed to required colour or shade, with necessary screws etc. complete: 9.97. 9.97. 200x10 mm Each of thing aluminium tower bots, ISI marked, anodised (anodic coating not less than grade A.C 10 as per IS: 1688) transparent or dyed to required colour or shade, with necessary screws etc. complete: 9.98.0 2.00x10 mm Each of thing aluminium hanging floor door stapper, ISI marked, anodised (anodic coating not less than grade A.C 10 as per IS: 1688) transparent or dyed to required colour or shade, with necessary screws etc. complete: 9.99.101 2.70			, , ,				
5.03 9.21 faces of shutters 3. 5 mm thick including ISI marked Stainless Steet butt hinges with necessary screws 6.04 9.21.1 measures y screws and including ISI marked Stainless Steet butt hinges with necessary screws and information depth on all edges of flush door shutters (over all area of door shutter to be measured). 6.04 9.23 minimum depth on all edges of flush door shutters (over all area of door shutter to be measured). 7. Providing and finding wive gauge shutters using galvanized M.S. wire gauge of average with of aperture 1.4 mm in both directions with wire of dia 0.83 mm, for doors, windows and clierastory windows with hinges and necessary screws: 8. 9. 27. 11.2 kiln seasoned and chemically treated hollock wood 9. 27. 11.2 kiln seasoned and chemically treated hollock wood 9. 9. 27. 11.3 kiln seasoned and chemically treated hollock wood 9. 9. 9. 12. 13.5 mm thick shutters 10. 9. 9. 13.5 mm thick shutters with 25 mm thick with encessary screws and complete is perfectly only the shutters with 25 mm thick with encessary screws and shutters with 25 mm thick with encessary screws and properly shutters with 25 mm thick with encessary screws and shutters with 25 mm thick with encessary screws and finding aluminium hanging floor door stopper, ISI marked, and sain shutters with 25 mm thick with encessary screws and from a part of the shutters with 25 mm thick with encessary screws and from a part of the shutters with 25 mm thick with encessary screws and from a part of the shutters with 25 mm thick with encessary screw							
a) 9.21.1 necessary screws Extra for providing lipping with 2nd class teak wood batters 25 mm minimum depth on all edges of flish door shutters (over all area of door shutlers to be measured). 6.04 9.23 infinity with 2nd class teak wood batters 25 mm minimum depth on all edges of flish door shutters (over all area of door shutlers to be measured). 7. Providing and fixing wive gauge shuthers using galvanized M.S. we gauge of average within 4 parture 1.4 mm in both directions with wive of da 0.55 mm, for doors, windows and clorestory windows with hinges and necessary screws: 8. 9. 9.27.1 35 mm thick shuthers 9. 9.27.1 12 Kin seasoned and chemically readed holicok wood Providing and fixing aluminium flating door bots, (Sit marked amodised (anodic coating not less than grade A.C.10 as per IS: 1868); transparent or dyed to required colour or shade, with nuts and screws etc. complete: 9. 9.96.2 250x16 mm Providing and fixing aluminium tower botts, (Sit marked, anodised (anodic coating not less than grade A.C.10 as per IS: 1868) transparent or dyed to required colour or shade, with necessary screws etc. complete: 9. 9.97.3 200x10 mm Providing and fixing aluminium hanging floor door stopper, (Si marked, anodised (anodic coating not less than grade A.C.10 as per IS: 1868) transparent or dyed to required colour or shade, with necessary screws etc. complete: 9. 9.97.3 200x10 mm Providing and fixing aluminium hanging floor door stopper, (Si marked, anodised (anodic coating not less than grade A.C.10 as per IS: 1868) transparent or dyed to required colour and shade, with necessary screws etc. complete: 9. 9.97.3 200x10 mm Providing and fixing aluminium hanging floor door stopper, ISI marked, anodised (anodic coating not less than grade A.C.10 as per IS: 1868) transparent or dyed to required colour and shade, with necessary screws etc. complete as per dyellor decided to a complete as per dyellor decide	6.03	9.21					
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 shutters) (over all area of door shutters				_			
infilimum depth on all edges of flush door shutters (over all area of door shutters) is shutter to be measured). 8.04 9.23 shutter to be measured). 8.05 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 all 0.85 mm, for doors, windows and clierestory windows with hinges and necessary screws: 9. 9.27.1.12 kind seasoned and chemistry the stand foliock wood 9. 9.27.1.12 kind seasoned and chemistry the stand foliock wood 8. 9.60 Providing and fixing aluminism silling door bots, ISI marked annotised (anotic coating not less than grade AC 10 as per IS: 1888), transparent or dyed to required colour or shade, with nuts and screws etc. complete: 9. 9.96.2 250x16 mm Providing and fixing aluminism tower bots, ISI marked, anodised (anodic coating not less than grade AC 10 as per IS: 1886) transparent or dyed to required colour or shade, with necessary screws etc. complete: 9. 9.97.3 200x10 mm Providing and fixing aluminism hanging floor door stopper, ISI marked, anodised (anotic coating not less than grade AC 10 as per IS: 1888) transparent or dyed to required colour or shade, with necessary screws etc. complete: 9. 9.97.3 200x10 mm Providing and fixing aluminism hanging floor door stopper, ISI marked, anodised (anotic coating not less than grade AC 10 as per IS: 1888) transparent or dyed to required colour and shade, with necessary screws etc. complete: 9. 9.97.3 200x10 mm Providing and fixing aluminism hanging floor door stopper, ISI marked, anotic except the second coating not less than grade AC 10 as per IS: 1888) transparent or dyed to required colour and shade, with necessary screws etc. complete etc. complete: 9. 9.97.3 200x10 mm Providing and fixing supported colour and shade, with necessary screws etc. complete is provided and the second provided and second provided	a)	9.21.1	necessary screws	Sqm	70.35	2015.75	141808.01
6.04 9.23 shutter to be measured). Sqm 12.60 401.40 5057.64 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 0.53 mm, for doors, windows and clerestory windows with hinges and necessary screae: 8.05 9.27 in both mice shutters or class of the control of			Extra for providing lipping with 2nd class teak wood battens 25 mm				
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: 9.27.1.1.2 Kiln seasoned and directically treated hollock wood Providing and fixing aluminium aliding door boths, ISI marked annodised (anodic coating not less than grade AC 10 as per IS: 1868), transparent or dyed for required colour or shade, with nuts and screws etc. complete: 8.9.96.2 250x16 mm Providing and fixing aluminium tower boths, 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: 8.0.07 9.97 8.9.73 200x10 mm Providing and fixing aluminium tower boths, 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: 9.9.73 200x10 mm 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 and bright interest and transparent or dyed to required colour and shade, with necessary screws 9.9.73 200x10 mm Providing and fixing aluminium hanging floor door stopper, ISI marked, anodised (anodic coating floor door stopper, ISI marked, anodised (anodic							
gauge of average width of aperture 1.4 mm in both directions with wire of die 0.83 mm, for doors, windows and elerestory windows with hinges and no processary screws: a) 9.27.1.1.2 Kiln seasoned and chemically treated hollock wood Robert 1.3 Smm thick shututers Providing and fixing aluminium sliding door bolls, ISI marked anodised (anodic coaling not less than grade AC 10 as per IS: 1868), transparent or dyed to required colour or shade, with nuts and screws etc. complete: 8.07 9.96 8.07 9.96 8.07 9.97 8.07 Providing and fixing aluminium tower bolts, ISI marked, anodised (anodic coaling not less than grade AC 10 as per IS: 1868) transparent or dyed to required colour or shade, with necessary screws etc. complete: 8.08 9.97.3 200x10 mm 8.09.97.3 200x10 mm 9.101.2 Twin rubber slopper 9.101.2 Twin rubber slopper 9.101.2 Twin rubber slopper 1.09.97.3 200x10 mm 1.09.97.	6.04	9.23	shutter to be measured).	Sqm	12.60	401.40	5057.64
gauge of average width of aperture 1.4 mm in both directions with wire of die 0.83 mm, for doors, windows and elerestory windows with hinges and no processary screws: a) 9.27.1.1.2 Kiln seasoned and chemically treated hollock wood Robert 1.3 Smm thick shututers Providing and fixing aluminium sliding door bolls, ISI marked anodised (anodic coaling not less than grade AC 10 as per IS: 1868), transparent or dyed to required colour or shade, with nuts and screws etc. complete: 8.07 9.96 8.07 9.96 8.07 9.97 8.07 Providing and fixing aluminium tower bolts, ISI marked, anodised (anodic coaling not less than grade AC 10 as per IS: 1868) transparent or dyed to required colour or shade, with necessary screws etc. complete: 8.08 9.97.3 200x10 mm 8.09.97.3 200x10 mm 9.101.2 Twin rubber slopper 9.101.2 Twin rubber slopper 9.101.2 Twin rubber slopper 1.09.97.3 200x10 mm 1.09.97.			Providing and fixing wire gauge shutters using galvanized M.S. wire				
10 9.27 1.12 Sim mithick shuters 10 9.27.1.12 Kiln seasoned and chemically treated hollock wood 9.27.1.12 Kiln seasoned and chemically treated hollock wood 9.96 9.96 Providing and fixing aluminium siding door botts, 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 : 8.00 9.96 9.96 Providing and fixing aluminium tower botts, 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 9.97 200x10 mm Each 72.00 90.80 6537.60 9.98 9.97.3 200x10 mm Each 72.00 90.80 6537.60 9.97 200x10 mm 200x1							
9.27.1.1 35 mm thick shutters a) 9.27.1.12 Kiln seasoned and chemically treated hollock wood Sqm 28.77 3140.15 90342.12 Froviding and fixing aluminium sliding door bolts, ISI marked anodised (anodic coating not less than grade AC 10 as per IS: 1868), transparent or dryed to required colour or shade, with nuts and screws etc. complete: Providing and fixing aluminium tower bolts, ISI marked, anodised (anodic coating not less than grade AC 10 as per IS: 1868) transparent or dryed to required colour or shade, with nuts and screws etc. complete: Providing and fixing aluminium tower bolts, ISI marked, anodised (anodic coating not less than grade AC 10 as per IS: 1868) transparent or dryed to required colour or shade, with necessary screws etc. complete: 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 dryed to required colour and shade, with necessary screws etc. complete screws and provided to the screw of the 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 dryed to required colour and shade, with necessary screws etc. complete screws and provided to the screw of the	0.05	0.07					
9.27.1.1.2 Kiln seasoned and chemically treated hollock wood 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: 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 nuts and screws etc. complete: 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: 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 Providing and fixing out poard shutters with 25 mm thick venered particle board IS: 3097 marked, exterior grade (Grade I), of approved make, including lind class teak wood lipping of 25 mm wide x 12 mm thick with necessary screws and bright finished stainless steel plano hinges, complete as per direction of Engineerin-Charge. With decorative veneering on one side and commercial veneering on With decorative veneering on one side and commercial veneering on a particle board profiles duty! reinforced with 16.0 ± 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 interlocks, EPDM gasket, wool pile, zinc alloy (white powder coated) fouch locks with holes, 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 mitted cut and fusion welded at all corners, including difflied profiled with weather pr	6.05 i)		·				
(anodic coating not less than grade &C 10 as per IS : 1868), transparent or dyed to required colour or shade, with nuts and screws etc. complete : 250x16 mm Providing and fixing aluminium tower bolts, ISI marked, anodised (anodic coating not less than grade &C 10 as per IS : 1868) transparent or dyed to required colour or shade, with necessary screws etc. complete : 9.97 a) 9.97.3 200x10 mm 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 : 6.08 9.101 9.101.2 Twin trubber stopper 1 Twin trubber stopper 1 Twin trubber stopper 2 Twin trubber stopper 2 Twin trubber stopper 3 9.130 9.130 9.130 9.130 9.130 9.130 9.147 Providing and fixing cup board shutters with 25 mm thick veneered particle board IS : 3097 marked, exterior grade (Grade I), of approved make, including lind class leak wood lipping of 25 mm wide x 12 mm thick with necessary screws and fright flinished stanless steel plane bringes, complete as per direction of Engineer-in-Charge. With decorative veneering on one side and commercial veneering on one side and commercial veneering on one side and commercial veneering on the side of the state of the	a)			Sqm	28.77	3140.15	90342.12
(anodic coating not less than grade &C 10 as per IS : 1868), transparent or dyed to required colour or shade, with nuts and screws etc. complete : 250x16 mm Providing and fixing aluminium tower bolts, ISI marked, anodised (anodic coating not less than grade &C 10 as per IS : 1868) transparent or dyed to required colour or shade, with necessary screws etc. complete : 9.97 a) 9.97.3 200x10 mm 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 : 6.08 9.101 9.101.2 Twin trubber stopper 1 Twin trubber stopper 1 Twin trubber stopper 2 Twin trubber stopper 2 Twin trubber stopper 3 9.130 9.130 9.130 9.130 9.130 9.130 9.147 Providing and fixing cup board shutters with 25 mm thick veneered particle board IS : 3097 marked, exterior grade (Grade I), of approved make, including lind class leak wood lipping of 25 mm wide x 12 mm thick with necessary screws and fright flinished stanless steel plane bringes, complete as per direction of Engineer-in-Charge. With decorative veneering on one side and commercial veneering on one side and commercial veneering on one side and commercial veneering on the side of the state of the		-					
or dyed to required colour or shade, with nuts and screws etc. complete: 9.96.2 250x16 mm							
a) 9,96. a) 9,96.2 250x16 mm Each 36.00 234.90 8456.40 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: 9,97.3 200x10 mm Each 72.00 90.80 6537.60 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 certain or dyed to required colour and shade, with necessary screws etc. complete is 1 transparent or dyed to required colour and shade, with necessary screws etc. complete is 2 mr. Twin rubber stopper 8,08 9,101 2 Twin rubber stopper 1 Twin rubber stopper 1 Twin rubber stopper 2 Each 24.00 62.25 1494.00 60.25 1494.00 60.25 1494.00 60.25 1494.00 60.25 1494.00 60			, , , ,				
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	6.06	9.96					
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	a)	9.96.2	250x16 mm	Each	36.00	234.90	8456.40
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			Providing and fixing aluminium tower holts. ISI marked, anodised (anodic				
a) 9.97.3 200x10 mm Each 72.00 90.80 6537.60 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. 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 plano hinges, complete as per direction of Engineer-in-Charge. With decorative veneering on one side and commercial veneering on with excessary screws and bright finished stainless steel plano hinges, complete as per direction of Engineer-in-Charge. By 130.1 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 highe			, , ,				
a) 9.97.3 200x10 mm			to required colour or shade, with necessary screws etc. complete :				
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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-	Float glass panes 5.0 mm thick glass panes (weight not less than				
	9.7.7.2	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.				
		Total of sub-head	Sqm	10.80	7249.90	78298.92 1026108.30
						1020100.30
7	10	STEEL WORK				
		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				
7.01	10.12	approved steel primer.				
7.01	10.13	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)				
a)	10.13.1	= 5g · 5g · 6 = 0 · · · · · · · · · · · · · · · · · ·	Kg	725.72	114.65	83203.43
		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.				
7.02	10.18		Each	10.00	185.20	1852.00
		Providing and fixing hand rail of approved size by welding etc. to steel				
	45.5-	ladder railing, balcony railing, staircase railing and similar works, including				
7.03 a)	10.26 10.26.1	applying priming coat of approved steel primer. M.S. tube	Kg	121.00	157.15	19015.15
		Providing & fixing glass panes with putty and glazing clips in steel doors,	-			
7.04		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				
		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				
8.01 a)	11.26 11.26.1	mortar 1 · A /1 cement · A coarse sand) · 25 mm thick.	Sqm	11.00	1706.60	18772.60
	. 1.20.1		- Juli	11.00	., 00.00	13772.00

S. No.	Ref. No	Description	Unit	Quantity	DSR 21 Rate	Amount (Rs.)
		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				
0.00	44.07	the shade of the slabs, including rubbing and polishing complete.		40.40	2222 55	20110 10
8.02	11.27		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
		Extra for Kota stone/ sand stone in treads of steps and risers using single				
8.04	11.32	length up to 1.05 metre.	Sqm	40.43	36.35	1469.52
8.05	8.31	Providing and fixing Ist quality ceramic glazed wall tiles conforming to IS: 15622 (thickness to be specified by the manufacturer), of approved make, in all colours, shades except burgundy, bottle green, black of any size as approved by Engineer-in-Charge, in skirting, risers of steps and dados, over 12 mm thick bed of cement mortar 1:3 (1 cement : 3 coarse sand) and jointing with grey cement slurry @ 3.3kg per sqm, including pointing in white cement mixed with pigment of matching shade complete.	Sqm	172.89	1063.45	183859.87
		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.				
8.06	11.41	0: (7:1, 000, 000		222.07	1110.05	0.4000.4.00
	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				
0.07	11.46.1	Size of Tile 400x400 mm	Sqm	22.10	1384.20	30586.16
		Total of sub-head				641167.55
	40					
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	40					
10.01	13 13.4	FINISHING 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	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	901.63	162.55	146560.09
10.05	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	533.93	162.35	86683.26
10.06	13.5	Applying priming coat:				
		With ready mixed pink or Grey primer of approved brand and				
a)	13.50.1	manufacture on wood work (hard and soft wood) With ready mixed red oxide zinc chromate primer of approved brand and	Sqm	289.57	61.45	17794.32
b)	13.50.3	manufacture on steel galvanised iron/ steel works	Sqm	112.86	55.50	6263.89

S. No. 10.07	Ref. No 13.61	Description Painting with synthetic enamel paint of approved brand and manufacture to give an even shade :	Unit	Quantity	DSR 21 Rate	Amount (Rs.)
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				707001.00
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
		Providing and laying water proofing treatment to vertical and horizontal surfaces of depressed portions of W.C., kitchen and the like consisting of:				
11.03	22.3	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.				
	(i) (ii)	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.				
	(iii)	Illrd 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). Total of sub-head	Sqm	33.44	774.25	25888.60 135910.97
40						
12		NON SHEDULE 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)	IVIK	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
		Total of Sub-field				40121.45

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					

		COST ESTIMATE OF STAFF QUARTE	R-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) b)		Pipes, cables etc, not exceeding 80 mm dia. Pipes, cables etc. exceeding 80 mm dia. but not exceeding 300	Metre	25.00	255.55	6388.75
	2.10.1.2	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 A)	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. 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)		Bend 87.5°				
a)	12.42.5.2	110 mm bend	Each	4.00	132.00	528.00
iii)		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 a)	17.1.1	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 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 :		4.00	100.00	1050.00
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) i)	17.35.1 17.35.1.2	100 mm dia. Centrifugally cast (spun) iron socket & spigot (S&S) pipe as per IS:				
b)	17.35.2	3989 75mm diameter	Metre	60.00	1077.40	64644.00
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) i)	17.38.2	75 mm Sand cast iron S&S as per IS- 3989	Each	1.00	453.40	453.40
	17.30.2.2	Sand Cast IIOH S&S as per 13- 3909	Lauii	1.00	433.40	433.40
3.11	17. 39	Providing and fixing plain bend of required degree.				
a)	17.39.1	100 mm				
i)		Sand cast iron S&S as per IS : 3989	Each	10.00	439.75	4397.50
b) i)	17.39.2 17.39.2.2	75 mm Sand cast iron S&S as per IS - 3989	Each	1.00	298.20	298.20
'/	17.00.2.2	Cana dast non dad as per lo doco	Laon	1.00	250.20	250.20
3.12	17. 40	Providing and fixing heel rest sanitary bend				
a)	17.40.1	100 mm dia				
i) b)	17.40.1.2	Sand cast iron S&S as per IS - 3989 75 mm dia	Each	1.00	513.30	513.30
i)		Sand cast iron S&S as per IS - 3989	Each	1.00	405.25	405.25
.,			Luon	1.00	100.20	100.20
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 17.43.1	Sand cast iron S&S as per IS - 3989 75x75x75mm	Each	10.00	731.40	7314.00
b) i)		Sand cast iron S&S as per IS - 3989	Each	1.00	573.80	573.80
/	11.10.2.2	Cana cast non cas as por 15	Luon	1.00	070.00	070.00
3.14	17. 44	Providing and fixing single equal plain junction of required degree				
a)	17.44.1	100x100x100mm	F I-	0.00	707.00	0404.00
i) b)	17.44.1.2	Sand cast iron S&S as per IS - 3989 75x75x75mm	Each	3.00	707.30	2121.90
i)		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) i) b)	17.55.1 17.55.1.2 17.55.2	100 mm Sand cast iron S&S as per IS - 3989 75 mm	Each	2.00	611.00	1222.00
i)		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) i)	17.56.1	100 mm Sand cast iron S&S as per IS - 3989	Each	10.00	439.75	4397.50
b)	17.56.1.2	75 mm	Each	10.00	439.75	4397.50
i)		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) i)	17.57.1 17.57.1.2	100 mm Sand cast iron S&S as per IS - 3989	Each	10.00	439.75	4397.50
b)	17.57.2	75 mm	Laon	10.00	400.70	4007.00
i)		Sand cast iron S&S as per IS - 3989	Each	1.00	271.45	271.45
0.40	47.50	Describing lead applied birts to send and 1 / 1/5 P				
3.18	17. 58	Providing lead caulked joints to sand cast iron/centrifugally cast		10.5	= 10 ==	= 122 = 2
a) b)	17.58.1 17.58.2	100 mm 75 mm	Each	10.00 10.00	549.65 466.40	5496.50 4664.00
D)	17.30.2	7.5 min	Each	10.00	400.40	4004.00
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				
3.20	50	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				
a)	17.69.2	sink, of approved quality and colour. 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		25.22	455.50	44440.50
	18.12.5	40mm dia nominal bore	Metre	25.00	457.70	11442.50
	18.12.6	50mm dia nominal bore	Metre Metre	5.00 3.00	558.35 654.20	2791.75 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) b)	18.7.3 18.7.4	25 mm nominal outer dia Pipes metre 32 mm nominal outer dia Pipes metre	Metre Metre	25.00 25.00	408.55 500.95	10213.75 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	40.40	Description and finite a boson state and to fine a boson state of				
4.04	18.16 18.16.1	Providing and fixing brass stop cock of approved quality : 15 mm nominal bore	Each	2.00	202.95	607.70
a) b)		20 mm nominal bore	Each Each	2.00 14.00	303.85 327.95	607.70 4591.30
4.05	18.17	Providing and fixing gun metal gate valve with C.I. wheel of approved quality (screwed end):	Luon	14.00	027.00	
a)	_	25mm nominal bore	Each	10.00	532.35	5323.50
p)	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 :		0.00	447.00	204.00
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	•			
a)	18.49.1	conforming to IS:8931 :	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.	_40//	3.50	10 1.20	2170.00
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	Luoii	3.00	700.40	5507.20
2/	10 50 4	design and of approved make conforming to IS:8931.	F!-	0.00	504.75	4750.00
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 a)	18. 53 18.53.1	Providing and fixing C.P. brass angle valve for basin mixer and geyser points of approved quality conforming to IS:8931 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.				
-)	40.50.4	Circulantus				
a) i)	18.58.1 18.58.1.1	Circular type. 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 :				
۵)	19.2.1	100 mm diameter S.W. pipe	Metre	5.00	895.50	4477.50
a) 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
		1		1		

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

	ABSTRACT OF TYPE	E II	
SUB	DADTICIU ADC	AMOUNT	AS PER
HEAD	PARTICULARS	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

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				1107		
1.01		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)		15/16 A switch	Each	12.00	156.00		1872.00	0.00
b)		3 pin 5/6 A socket outlet Telephone socket outlet	Each Each	20.00	122.00 148.00		2440.00 888.00	0.00
d)		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.		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		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.						

BOQ-E-Type2

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	МВ	Completing of well broadest light fittings suitable for 44 / 42 W CTI laws						
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		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.	Lacil	24.00	200.00		4544.00	0.00
	4.50 /				/== ==			
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
							39740.00	212045.00
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						
a)	2.10.1	commissioning etc. as required. 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
							21.12.00	2.00

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.l. tube, having single prong at top, with 85 mm dia 6 mm thick G.l. base plate including holes etc. complete as required.	Each	2.00	518.00		1036.00	0.00
5.02	6.4	Jointing copper / G.l. 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.l. 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.l. 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
			TAIT	20.00	102.00		4212.00	0.00
5.05		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.l. 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	0.00 256457.14
		G. TOTAL (I TO IV)						602740.14

	(G+2)	
	SUMMARY OF CIVIL WORK ST	AFF 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

	1	COST ESTIMATE OF STAFF QUARTERS	S TYPE III							
S. No.	Ref. No	Description	Unit	Quantity	DSR 21 Rate	Amount (Rs.)				
1	2	3	4	5	6	7				
,	2	EARTH WORK								
		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.								
1.0										
a)	2.8.1	All kinds of soil	Cum	212.00	286.85	60812.20				
1.02	2 2.25	Filling available excavated earth (excluding rock) in trenches, plinth, sides of foundations etc. in layers not exceeding 20cm in depth, consolidating each deposited layer by ramming and watering, lead up to 50 m and lift upto 1.5 m.	Cum	128.00	253.95	32505.60				
		Total of sub-head				93317.80				
2	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: 1:5:10 (1 Cement: 5 coarse sand (zone-III): 10 graded stone aggregate								
a)	4.1.10	40 mm nominal size)	Cum	7.80	6050.65	47175.78				
2.02	2 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: 1:2:4 (1 Cement: 2 coarse sand: 4 graded stone aggregate 20 mm								
a)	4.2.3	nominal size).	Cum	0.56	9375.20	5244.11				
		Total of sub-head				52419.90				
3	3 5	REINFORCED CEMENT CONCRETE								
`	3									
2.0	5.0	Centering and shuttering including strutting, propping etc. and removal of form for all heights:								
3.0 ² a)	5.9 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				
		Small lintels not exceeding 1.5 m clear span, moulding as in cornices, window sills, string courses, bands, copings, bed plates, anchor blocks								
d)	5.9.15	and the like	Sqm	4.86	307.95	1497.87				
e)	5.9.16	Edges of slabs and breaks in floors and walls			101.00					
f) g)	5.9.16.1 5.9.3	Under 20 cms wide Suspended floors, roofs, landings, balconies and access platform.	metre Sqm	134.20 461.73	181.90 766.55	24410.98 353939.92				
h)	5.9.5	Lintels, beams, plinth beams, girders, bressumers and cantilevers.	Sqm	508.16	608.35	309141.45				
	0.0.0		Oqiii	000.10	000.00	000141.40				
3.02		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 a)	5.22 5.22.6	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.	kilogram	27372.00	89.65	2453899.80				
,	5.22.0	, u	09.4111	0. 2.00	30.00	2.0000.00				
		Add for plaster drip course/ groove in plastered surface or moulding to R.C.C. projections.								

S. No.	Ref. No	Description	Unit	Quantity	DSR 21 Rate	Amount (Rs.)
		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				
3.05	5.33	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				
		- C					
	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	6.12	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				
a)	4.03	6.13 6.13.2	level. 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				
	E 04	9.2	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)	5.01	8.2 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
a)	5.02	8.3 8.3.2	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. 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				
			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				
a)	6.01	9.1 9.1.1	fastener shall be paid for separately). 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.				
,	0.02		25 mm thick (for cupboard) including ISI marked nickel plated bright			27.2.2	
a)		9.20.3	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: 35 mm thick including ISI marked Stainless Steel butt hinges with				
a)		9.21.1	necessary screws	Sqm	70.35	2015.75	141808.01

S. I	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)	0.00	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	0.101	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 to complete				
a)	0.00	9.101 9.101.2	etc. complete. 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 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)	0.00	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.				
а	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
				Sqiii	01.02	2201.20	1 14952.54

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.				
		be accepted but no extra payment on this account shall be made.				
a)	9.147B.1	,				
		& mullion 47 x 68 mm both having wall thickness of 1.9 ± 0.2 mm				
		and single glazing bead of appropriate dimension.	C	40.00	7040.00	70000 00
		Total of sub-head	Sqm	10.80	7249.90	78298.92 1026108.30
7	10	STEEL WORK				
		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				
7.01	10.13	approved steel primer.				
7.01	10.13	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				
a)	10.13.1	aggregate 20 mm nominal size)	Kg	674.10	114.65	77285.57
/						
		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.				
7.02	10.18		Each	10.00	185.20	1852.00
		Providing and fixing hand rail of approved size by welding etc. to steel				
7.00	40.00	ladder railing, balcony railing, staircase railing and similar works, including				
7.03 a)	10.26 10.26.1	applying priming coat of approved steel primer. M.S. tube	Kg	121.00	157.15	19015.15
u)	10.20.1	W.O. tube	T G	121.00	107.10	10010.10
7.04	10.2	Providing & fixing glass panes with putty and glazing clips in steel doors,				
7.04 a)	10.3 10.30.1	windows, clerestory windows, all complete with : 4.0 mm thick glass panes	Sqm	50.47	940.30	47459.24
		Total of sub-head				145611.96
8	11	FLOORING				
0	11					
		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				
8.01	11.26	mortar 1 : 4 (1 cement : 4 coarse sand) :				
a)	11.26.1	25 mm thick.	Sqm	11.00	1706.60	18772.60
		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.				
8.02	11.27	and politing complete.	Sqm	40.43	2038.55	82412.46
		Extra for pre finished nosing in treads of steps of Kota stone/ sand stone				
8.03	11.31	slab.	Metre	70.13	157.35	11034.96
		Color for Material and characteristics for the state of t	-			
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
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S. No.	Ref. No	Description	Unit	Quantity	DSR 21 Rate	Amount (Rs.)
8.05	8.31	Providing and fixing Ist quality ceramic glazed wall tiles conforming to IS: 15622 (thickness to be specified by the manufacturer), of approved make, in all colours, shades except burgundy, bottle green, black of any size as approved by Engineer-in-Charge, in skirting, risers of steps and dados, over 12 mm thick bed of cement mortar 1:3 (1 cement : 3 coarse sand) and jointing with grey cement slurry @ 3.3kg per sqm, including pointing in white cement mixed with pigment of matching shade complete.	Sqm	196.56	1063.45	209031.73
		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.				
8.06	11.41 11.41.2	Size of Tile 600x600 mm	Sqm	255.57	1416.65	362055.37
9.07	11.40	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.				
8.07	11.46 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 a)	13.4 13.4.2	12 mm cement plaster of mix 1:6 (1 cement: 6 coarse sand)	Sqm	579.28	294.35	170512.50
10.02		15 mm cement plaster on rough side of single or half brick wall of mix:	Sqiii	379.20	294.33	170312.30
a)	13.5.2	1:6 (1 cement: 6 coarse sand)	Sqm	920.12	339.10	312012.08
10.03		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	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	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
		Painting with synthetic enamel paint of approved brand and manufacture				
10.07 a)	13.61 13.61.1	to give an even shade : 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.)
		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				
11.01	22.8	grading complete with :				
11.01	22.0	Bitumen felt (hessian base) type 3 grade I conforming to IS: 1322				
a)	22.8.1	gg	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
		Providing and laying water proofing treatment to vertical and horizontal				
		surfaces of depressed portions of W.C., kitchen and the like consisting of:				
11.03	22.3					
		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.				
	(i)	notating containing on junious or volucial and notice that contains				
		IInd course of 20 mm cement plaster 1:3 (1 cement : 3 coarse sand)				
	(ii)	mixed with water proofing compound in recommended proportion including rounding off junction of vertical and horizontal surface.				
	(11)	Illrd course of applying blown or residual bitumen applied hot at 1.7 kg.				
	(iii)	per sqm of area.				
		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 @				
	(iv)	1.7 kg/ sqm).	Sqm	37.45	774.25	28992.57
	()	J 1 /				
		Total of sub-head				152323.40
12		NON SHEDULE ITEMS				
		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.				
12.01	MR		Cum	5.36	2000.00	10719.00
		Providing and fixing aluminium handles, ISI marked, anodised (anodic				
		coating not less than grade AC 10 as per IS : 1868) transparent or dyed				
40.00	MD	to required colour or shade, with necessary screws etc. complete :				
12.02 a)	MR	150 mm	Each	72.00	75.00	5400.00
/						
		Providing and fixing aluminium door buffer of approved make, design and				
12.03	MR	colour with necessary screws etc all complete as directed and specified by the Engineer-in-Charge :	Each	30.00	45.00	1350.00
.2.00		sy are Engineer in only go	240	00.00	.0.00	
		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				
12.04	MD	respects as per specifications/drawings and to the entire satisfaction to	Sam	22 10	1100.00	26511 20
12.04	MR	the Architect.	Sqm	33.19	1100.00	36511.20
		Total of sub-head				53980.20

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						

		COST ESTIMATE OF STAFF QUARTE	R-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	excavated soil as directed, within a lead of 50 m:				
a) b)			Metre	25.00	255.55	6388.75
	2.10.1.2		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 A)	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. 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		4.00	110.05	470.00
a)	12.42.1.2	110 mm	Each	4.00	119.95	479.80
ii)		Bend 87.5°				
a)	12.42.5.2	110 mm bend	Each	4.00	132.00	528.00
iii)		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				
0.00						
3.01 a)	17.1.1	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 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		0.00	2000 45	22252.72
	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 a)	17. 34 17.34.2	Providing and fixing toilet paper holder : Vitreous china	Each	4.00	463.00	1852.00
a)	17.54.2	Villeous Cillia	Lauii	4.00	403.00	1032.00
3.08	17. 35	Providing and fixing soil, waste and vent pipes :				
a) i)	17.35.1 17.35.1.2	100 mm dia. Centrifugally cast (spun) iron socket & spigot (S&S) pipe as per IS: 3989	Metre	60.00	1077.40	64644.00
b) i)	17.35.2 17.35.2.2	75mm diameter 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) i)	17.38.2	75 mm Sand cast iron S&S as per IS- 3989	Each	1.00	453.40	453.40
	17.30.2.2	Sand Cast IIOH S&S as per 13- 3909	Lauii	1.00	433.40	433.40
3.11	17. 39	Providing and fixing plain bend of required degree.				
a)	17.39.1	100 mm				
i)		Sand cast iron S&S as per IS : 3989	Each	10.00	439.75	4397.50
b) i)	17.39.2 17.39.2.2	75 mm Sand cast iron S&S as per IS - 3989	Each	1.00	298.20	298.20
'/	17.00.2.2	Cana dast non dad as per lo doco	Laon	1.00	250.20	250.20
3.12	17. 40	Providing and fixing heel rest sanitary bend				
a)	17.40.1	100 mm dia				
i) b)	17.40.1.2	Sand cast iron S&S as per IS - 3989 75 mm dia	Each	1.00	513.30	513.30
i)		Sand cast iron S&S as per IS - 3989	Each	1.00	405.25	405.25
/	11.10.2.2	Cana cast non cas as por 15	Luon	1.00	400.20	400.20
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 17.43.1	Sand cast iron S&S as per IS - 3989 75x75x75mm	Each	10.00	731.40	7314.00
b) i)		Sand cast iron S&S as per IS - 3989	Each	1.00	573.80	573.80
/	11.10.2.2	Cana cast non cas as por 15	Luon	1.00	070.00	070.00
3.14	17. 44	Providing and fixing single equal plain junction of required degree				
a)	17.44.1	100x100x100mm	F I-	0.00	707.00	0404.00
i) b)	17.44.1.2	Sand cast iron S&S as per IS - 3989 75x75x75mm	Each	3.00	707.30	2121.90
i)		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) i) b)	17.55.1 17.55.1.2 17.55.2	100 mm Sand cast iron S&S as per IS - 3989 75 mm	Each	2.00	611.00	1222.00
i)		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) i)	17.56.1	100 mm Sand cast iron S&S as per IS - 3989	Each	10.00	439.75	4397.50
b)	17.56.1.2	75 mm	Each	10.00	439.75	4397.50
i)		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) i)	17.57.1 17.57.1.2	100 mm Sand cast iron S&S as per IS - 3989	Each	10.00	439.75	4397.50
b)	17.57.2	75 mm	Laon	10.00	400.70	4007.00
i)		Sand cast iron S&S as per IS - 3989	Each	1.00	271.45	271.45
0.40	47.50	Deviding lead and delicated to the second se				
3.18	17. 58	Providing lead caulked joints to sand cast iron/centrifugally cast				
a)	17.58.1 17.58.2	100 mm	Each	10.00 10.00	549.65	5496.50
b)	17.38.2	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				
3.20	50	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				
a)	17.69.2	sink, of approved quality and colour. 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		25.22	455.50	44440.50
	18.12.5	40mm dia nominal bore	Metre	25.00	457.70	11442.50
	18.12.6	50mm dia nominal bore	Metre Metre	5.00 3.00	558.35 654.20	2791.75 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) b)	18.7.3 18.7.4	25 mm nominal outer dia Pipes metre 32 mm nominal outer dia Pipes metre	Metre Metre	25.00 25.00	408.55 500.95	10213.75 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	40.40	Description and finite a boson state and to fine a boson state of				
4.04	18.16 18.16.1	Providing and fixing brass stop cock of approved quality : 15 mm nominal bore	Each	2.00	202.05	607.70
a) b)		20 mm nominal bore	Each Each	2.00 14.00	303.85 327.95	607.70 4591.30
4.05	18.17	Providing and fixing gun metal gate valve with C.I. wheel of approved quality (screwed end):	Luon	14.00	027.00	
a)	_	25mm nominal bore	Each	10.00	532.35	5323.50
p)	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 :		2.22	447.00	204.00
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	•			
a)	18.49.1	conforming to IS:8931 :	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.		3.33	.5.120	2110.00
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	Luon	0.00	700.40	5007.20
۵۱	10 50 4	design and of approved make conforming to IS:8931.	Faal:	0.00	E04.75	4750.00
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
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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	Amount (Rs.)
					Rate	
1	2	3	4	5	6.00	7
		Total of sub-head				37922.00

	ABSTRACT OF TYPE	III	
SUB	PARTICULARS	AMOUNT	AS PER
HEAD	PARTICULARS	DSR ITEMS	NS ITEMS
ı	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

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				1107		
1.01		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)		15/16 A switch	Each	12.00	156.00		1872.00	0.00
b)		3 pin 5/6 A socket outlet Telephone socket outlet	Each Each	20.00	122.00 148.00		2440.00 888.00	0.00
d)		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.		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		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.						

BOQ-E-Type3

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	МВ	Completing of well broadest light fittings suitable for 44 / 42 W CTI laws						
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		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.	Lacil	24.00	200.00		4544.00	0.00
	4.50 /				/== ==			
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	
3.00		SUBHEAD - III - DISTRIBUTION BOARD						
3.00		SOBILEAD - 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
2.00	мъ	Countries in Assistant Assistant Countries of Cineta Disease	0-4					
3.02	M.K.	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						
a)	2 10 1	commissioning etc. as required. Single pole	Each	14.00	256.00		3584.00	0.00
۵)		TOTAL OF SUBHEAD - III.	Lacii	17.00	200.00		29316.00	39674.39
4.00								22230
4.00		SUBHEAD - IV - EARTHING	1					
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
			1					5.30

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.l. 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.l. 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.l. 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 WO	ORK AT JNV R	AMBAN	, JAMMU AN	D KASHMIR		
		ADSTRACT OF	COST					
	I VIC	ABSTRACT OF C						
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	20.00	CLIM	252.05	40070 00		
	30 III and iiit upto 1.5 III.	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).							
	mix to payable received able departuely).							
(1)	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 (iii) R.C.C. work in Grade Slab	5.33.1 5.33.1	5.57 10.03	CUM	7997.30 7997.30	44544.96 80212.92		
	(iii) 14.6.6. Work iii Grade Grad	0.00.1	10.00	OOW	7007.00	00212.02		
(II)	Above plinth to floor-V IvI							
	Same as above but R.C.C. work abive 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		
_	Contoring and about the live in the state of							
8	Centering and shuttering including strutting, propping etc. and removal of form for all heights :			L				
(a)	Foundations, footings, bases of columns, etc. for	F 0.4	20.22	0014	207.05	0252.00		
(b)	mass concrete. Suspended floors, roofs, landings, balconies and	5.9.1	30.38	SQM	307.95	9353.98		
` '	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		
	and candicides.	5.8.5	199.00	UQIVI	000.00	121040.00		

(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	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 prelaminated 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 along took						
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						

	Eiving with 15v3 mm lugg 10 cm long amhadded in						
	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 FDDM gooket C I feeteners	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						
20	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 :						
	windows with miges and necessary corons .						
	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	
			30	2 00 IVI	- 500		
23	12 mm cement plaster of mix :1:6 (1 cement: 6	13.4.2	220.03	SQM	294.35	64766.20	
	coarse sand)	13.4.2	220.03	JUIVI	294.33	04700.20	
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/sgm 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	
i				1			

	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 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	8.2.2.1	3.94	SQM	4679.35	18437.57	
	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 Ist quality ceramic glazed wall tiles conforming to IS: 15622 (thickness to be specified by the manufacturer), of approved make, in all colours, shades except burgundy, bottle green, black of any size as approved by Engineer-in-Charge, in skirting, risers of steps and dados, over 12 mm thick bed of cement mortar 1:3 (1 cement : 3 coarse sand) and jointing with grey cement slurry @ 3.3kg per sqm, including pointing in white cement mixed with pigment of matching shade complete.	8.31	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. Granite work	8.3.2	5.37	RM	418.85	2247.97	
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	5.37	RM	475.55	2552.28	
	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 qalvanised 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 150 mm	9.59 9.59.1	14.00	NOS	251.70	3523.80	
36	Providing and fixing oxidised M.S. hasp and staple (safety type) 90 mm	9.67 9.67.3	14.00	NOS	22.10	309.40	

	<u> </u>						T	1
37	Providing and fixing special quality bright finished		1					
	brass cupboard or		1					
	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		
00	Description of the control of the co							
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		
	200710 111111	0.00.2	24.00	1100	201.00	0007.00		
40	Providing and fixing aluminium tower bolts, ISI							
	marked, anodised (anodic coating not less than		1					
	grade AC 10 as per IS: 1868) transparent or dyed							
	to required colour or shade, with necessary screws							
	etc. complete :	9.97	1					
	200x10 mm	9.97.3	24.00	NOS	90.80	2179.20		
41	Providing and fixing aluminium handles, ISI marked,					1		
41	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							
40	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:		1					
	3818 marked with necessary screws	9.20.3	8.15	SQM	2512.35	20475.65		
			30					
44	Providing and fixing Pre-laminated flat pressed 3							
	layer (medium density) particle board or graded		1					
	wood particle board IS: 3087 marked, with one side		1					
	decorative and other side balancing lamination		1					
	Grade I, Type II exterior grade IS : 12823 marked, in		1					
	shelves with screws and fittings wherever required,		1					
	edges to be painted with polyurethane primer							
	(fittings to be paid separately).	0.40.4	4.50	2014	4000.00	4000.22		
		9.18.1	4.56	SQM	1089.30	4969.33		
45	Float glass panes 5.0 mm thick glass panes (weight					1		
	not less than 12.50 kg/sqm).		14.284	SQM	2231.20	31869.90		
					TOTAL	2319403.35		
				Say I	Rs. In Lacs	23.19		1

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

S.NO	NAME OF SUB-HEAD	AMOUNT					
010	17.1112 01 002 112/12	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				

BILL OF QUANTITIES FOR PLUMBING WORKS (VICE PRINCIPAL RESIDENCE)

S.						
No	DSR-2021	DESCRIPTION	UNIT	TOTAL QTY	RATE (in Rs)	AMOUNT (in Rs)
1	SUB HEAD	O (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	16621.6
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			+	
	17.7.4	tap	each	3.00	2731.45	8194.35
5	17.22A	Providing and fixing CP Brass 32mm size Bottle Trap of bapproved quality & make	Cacii	3.00	2731.43	0134.00
٦	17.22	and as per the direction of Engineerin- charge.	each	3.00	886.25	2658.75
		land as per the direction of Engineerin- charge.	Cacii	3.00	000.23	2030.73
		TOTAL SUB HEAD (I) (DSR'18)			1	33900.60
		TOTAL GOD TILAD (I) (DOK 10)			1	33300.00
	SUB HEAD	D (I) :- SANITARY FIXTURES (NON DSR ITEMS)			1	
1	MR	Providing & fixing C.P. Brass health faucet for ablution with 1 meter long PVC tube,			1	
'	IVIIX	hand shower, couplings, wall hook and other accessories.		2.00	1000.00	5040.00
_	MD		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
Ш	SUB HEAD	O (II) :- TOILET REQUISIES (DSR'18)				
1	17.31	Providing & Fixing 600 X 450 mm bevelled edge mirror of superior glass (of approved				
	17.01	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
	17.34	Providing & fixing toilet paper holder.	Caon	0.00	1411.10	7200.70
2	17.34.2	viterous china	each	3.00	463.00	1389.00
2		Viterous Crima	Cacii	3.00	403.00	1303.00
2	17.07.2					
2	17.04.2	TOTAL SUB HEAD (II) (DSD'48)				E622 4E
2	17.04.2	TOTAL SUB HEAD (II) (DSR'18)				5622.45
2						5622.45
	SUB HEAL	D (II) :- TOILET REQUISIES (NON-DSR)				5622.45
1		O (II):- TOILET REQUISIES (NON-DSR) Providing and fixing of C. P. brass towel rail 600 x 20 mm size complete with C.P.	ogob	2.00	1205.00	
1	SUB HEAD	O (II):- TOILET REQUISIES (NON-DSR) 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	
1	SUB HEAL	O (II):- TOILET REQUISIES (NON-DSR) Providing and fixing of C. P. brass towel rail 600 x 20 mm size complete with C.P.	each	3.00	1295.00	3885.00
1	SUB HEAD	O (II):- TOILET REQUISIES (NON-DSR) Providing and fixing of C. P. brass towel rail 600 x 20 mm size complete with C.P. brass brackets				3885.00
1	SUB HEAD MR	O (II):- TOILET REQUISIES (NON-DSR) Providing and fixing of C. P. brass towel rail 600 x 20 mm size complete with C.P. brass brackets Providing and fixing of C. P. brass towel ring complete with C.P. brass brackets				3885.00
	SUB HEAD MR	O(II):-TOILET REQUISIES (NON-DSR) Providing and fixing of C. P. brass towel rail 600 x 20 mm size complete with C.P. brass brackets Providing and fixing of C. P. brass towel ring complete with C.P. brass brackets 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	each	3.00	1145.00	3885.00 3435.00
1	SUB HEAD MR	O (II):- TOILET REQUISIES (NON-DSR) Providing and fixing of C. P. brass towel rail 600 x 20 mm size complete with C.P. brass brackets Providing and fixing of C. P. brass towel ring complete with C.P. brass brackets Providing and fixing CP Brass soap dish 109 mm wide, 125 mm high and 112 mm				3885.00 3435.00
1	SUB HEAD MR	O(II):-TOILET REQUISIES (NON-DSR) Providing and fixing of C. P. brass towel rail 600 x 20 mm size complete with C.P. brass brackets Providing and fixing of C. P. brass towel ring complete with C.P. brass brackets 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	1145.00	3885.00 3435.00 1800.00
1	SUB HEAD MR	O(II):-TOILET REQUISIES (NON-DSR) Providing and fixing of C. P. brass towel rail 600 x 20 mm size complete with C.P. brass brackets Providing and fixing of C. P. brass towel ring complete with C.P. brass brackets 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	each	3.00	1145.00	3885.00 3435.00 1800.00
1	SUB HEAD MR MR MR	O(II):-TOILET REQUISIES (NON-DSR) Providing and fixing of C. P. brass towel rail 600 x 20 mm size complete with C.P. brass brackets Providing and fixing of C. P. brass towel ring complete with C.P. brass brackets 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	1145.00	3885.00 3435.00 1800.00

S. No	DSR-2021	DESCRIPTION	UNIT	TOTAL QTY	(in Re)	AMOUNT
No 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		QIT	(in Rs)	(in Rs)
		joints, including all neccessary 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. alround 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
•		Duriting a first HDVO Floor transfer for the desired date with this based on the				
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 neccessary 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. alround 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)		٠	(iii ito)	(110)
1	18.21	Providing & fixing 15 mm nominal bore 45 cm long unplasticised PVC connection pipe with brass unions.				
		45 cm length				
2		15 mm nominal bore Providing and fixing C.P brass bib cock of approved quality conforming to IS	each	10.00	85.20	852.00
2	18.49	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.		1.00	745.05	745.05
4	18.50.1 18.53	15 mm nominal bore Providing & fixing 15 mm nominal bore C.P brass Angle valve for basin mixer and	each	1.00	715.05	715.05
4	10.55	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				
		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				
	10 46 1	the pipe & making long screws etc. complete.		4.00	262.20	000.00
	18.46.1 18.46.2	15mm dia nominal bore 20mm dia nominal bore	each	1.00	262.30	262.30
	18.46.3	25mm dia nominal bore	each	3.00	289.05	867.15
	18.46.4	32mm dia nominal bore	each	2.00 4.00	369.35 409.45	738.70 1637.80
	18.46.5	40mm dia nominal bore	each 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:	eacii	3.00	700.70	2120.10
		eating notes up to 50 % 50 cm in waits 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				
Ŭ	10.7	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
		25mm nominal outer dia pipes	metre	30.00	408.55	12256.50 4007.60
	18.7.4 18.7.5	32mm nominal outer dia pipes 40mm nominal outer dia pipes	metre metre	8.00 8.00	500.95 674.35	5394.80
	10.7.0	Tomin nominal outer dia pipes	mene	0.00	0/4.33	JJJ#.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	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				
	18.48B	tank. Circular tank	Per Ltr	1000.00	9.70	9700.00
			_: :			2.23.00
						l

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

SUMMARY OF COST FOR ELECTRICAL WORKS (VICE PRINCIPAL RESIDENCE)

		AMOU	JNT
S. No	DESCRIPTION	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

BILL OF QUANTITIES FOR ELECTRICAL WORKS (VICE PRINCIPAL RESIDENCE) C No. DCD 2022 RATION RATIONAL RESIDENCE RA						AMOUNT
S.No	DSR-2022	DESCRIPTION	UNIT	Quantity	(in Rs)	(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	1.11	Twin Control Point wiring in PVC conduit, with modular type switch :- 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.	М	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.	М	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 1.14.5	2 x 6 sq.mm. + 1 x 6 sq.mm. Earth wire 2 x 10 sq.mm. + 1 x 6 sq.mm. Earth wire	M M	30.00 20.00	439.00 570.00	13170.00 11400.00
	1.14.5	4 x 10 sq.mm. + 1 x 6 sq.mm. Earth wire	M	1.00	1005.00	1005.00
6	1.31	S/F light plug point Modular type accessories:- 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	1 22	S/F power plug point modular type accessories :-				
	1.32	Supply and fixing of suitable size GI box with modular plate and cover in FRLSont 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
		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
Ш		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.	М	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	М	50.00	38.00	1900.00
	4.40					
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.	М	50.00	47.00	2350.00
		TOTAL SUB HEAD (III)				24631.00
v		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
		inscription single red colour on Tricoont side as required.	Each	1.00	209.00	209.00
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		Providing and fixing circular/ Hexagonal cast iron or M.S. sheet box for				
	10.18 DSR-2021 (Civil)	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
		O I COM CUREAGE MOUNTER LED WE II				
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				
4	NDSK	standard item(Such as Panasonic PBTM01207 or Equivalent).	Each	3.00	2300.00	6900.00
		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. (Such as Havells Velocity/Velocity HS or Equivalent).				
	NDSR	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
	115011				5255.50	
		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 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.	F .	40.00	000.00	0070.00
			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
			Luon	2.00	010.00	1000.00
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
		1 0	Lucii	7.00	121.00	104.00
6	6.15	Laying copper/ G.l. 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

	GUEST HOUSE						
	SUMMARY OF COST (CIVIL WORK	K)					
S. No.	Description	Amount (Rs.)					
1	EARTH WORK	19,939.					
2	CONCRETE WORK	11,697.					
3	REINFORCED CEMENT CONCRETE	954,625.					
4	BRICK WORK	147,562.					
5	MARBLE WORK	10,569					
6	WOOD WORK & PVC WORK	209,420					
7	STEEL WORK	235,060					
8	FLOORING	111,109					
9	ROOFING	1,066					
10	FINISHING	134,317					
11	WATER PROOFING	59,724.					
	Sub Total	1,895,092					

DETAIL ESTIMATE OF PHASE-A & B WORK AT JNV RAMBAN, JAMMU AND KASHMIR **GUEST HOUSE** ABSTRACT OF COST (CIVIL WORKS) S. No. Ref. No Unit DSR 21 Rate Amount (Rs.) Description Quantity 4 3 1 2 **EARTH WORK** 1.0 2 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. 2.8.1 All kinds of soil a) 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 CONCRETE WORK 2.0 4 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 4.1.10 1:5:10 (1 Cement : 5 coarse sand (zone-III) : 10 graded stone aggregate 40 a) 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: 4.2.3 1:2:4 (1 Cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal a) Cum 0.06 9565.10 578.37 Total of sub-head 11,697.58 3.0 REINFORCED CEMENT CONCRETE 5 3.01 5.9 Centering and shuttering including strutting, propping etc. and removal of form 5.9.1 a) Foundations, footings, bases of columns, etc. for mass concrete 15.26 307.95 4,697.78 Sqm Columns, Pillars, Piers, Abutments, Posts and Struts b) 5.9.6 66.83 53,744.01 Sqm 804.25 Small lintels not exceeding 1.5 m clear span, moulding as in cornices, window c) 5.9.15 sills, string courses, bands, copings, bed plates, anchor blocks and the like Sqm 0.53 307.95 161.92 5.9.16 Edges of slabs and breaks in floors and walls d) 32.00 181.90 5,820.80 e) 5.9.16.1 Under 20 cms wide Metre Suspended floors, roofs, landings, balconies and access platform. f) 5.9.3 110.00 766.55 84,317.49 Sqm Lintels, beams, plinth beams, girders, bressumers and cantilevers. g) 5.9.5 137.00 608.35 83,343.95 Sqm 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. 5.22.6 Thermo-Mechanically Treated bars of grade Fe-500D or more. a) kilogram 4,135.00 89.65 370,702.75

Add for plaster drip course/ groove in plastered surface or moulding to R.C.C.

3.03

5.30

projections.

BOQ-C-GH Page No.1

7.45

64.70

482.02

Metre

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:	· ·	Quantity		, (1.5.)
		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				334,023.30
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 the state of the side of t				
		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) (i)	8.2.2 8.2.2.2	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. Granite of any colour and shade	Sam	1.65	4.425.35	7.301.83
a) (i) 5.02	8.2.2 8.2.2.2 8.3	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. Granite of any colour and shade Area of slab over 0.50 sqm 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	Sqm	1.65	4,425.35	7,301.83
(i)	8.2.2.2	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. Granite of any colour and shade Area of slab over 0.50 sqm Providing edge moulding to 18 mm thick marble stone counters, Vanities etc.,	Sqm	1.65		7,301.83 - - - 1,151.84
(i) 5.02	8.2.2.2	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. Granite of any colour and shade Area of slab over 0.50 sqm 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.	·	2.75	418.85	- - 1,151.84
(i) 5.02 a)	8.2.2.2 8.3 8.3.2	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. Granite of any colour and shade Area of slab over 0.50 sqm 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. Granite work 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,	Metre		418.85 475.55	-
(i) 5.02 a) 5.03	8.2.2.2 8.3 8.3.2 8.4	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. Granite of any colour and shade Area of slab over 0.50 sqm 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. Granite work 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. 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,	Metre	2.75	418.85 475.55	1,151.84 - 1,307.76
(i) 5.02 a) 5.03	8.2.2.2 8.3 8.3.2 8.4	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. Granite of any colour and shade Area of slab over 0.50 sqm 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. Granite work 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. 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.	Metre	2.75	418.85 475.55	1,151.84 - 1,307.76
(i) 5.02 a) 5.03	8.2.2.2 8.3 8.3.2 8.4 8.5	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. Granite of any colour and shade Area of slab over 0.50 sqm 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. Granite work 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. 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. Total of sub-head	Metre	2.75	418.85 475.55	1,151.84 - 1,307.76

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 46×62 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)				
a)	9.67.3	conforming to IS : 363 with necessary screws etc. complete : 90 mm	each	10.00	22.10	221.00
			Cacii	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
a)	9.147 9.147B.1	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 \pm 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 Fixed window / ventilator made of (small series) frame 47 x 50 mm & mullion 47 x 68 mm both having wall thickness of 1.9 \pm 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,	Lacil	4.00	100.20	740.00
a)	10.30.1	windows, clerestory windows, all complete with : 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 lst 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.	Sgm	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
		Total of Sub-lieau				111,103.07
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				
. 3.30						
10.01	13.4 13.4.2	12 mm cement plaster of mix 1:6 (1 cement: 6 coarse sand)	Can	110.00	204.25	22 024 60
a)	13.4.2		Sqm	112.22	294.35	33,031.66
10.02 a)	13.5 13.5.2	15 mm cement plaster on rough side of single or half brick wall of mix: 1:6 (1 cement: 6 coarse sand)	Sqm	129.03	339.10	43,754.89
,			94	.20.00	000110	10,101100
10.03 a)	13.37 13.37.1	White washing with lime to give an even shade : 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 :	Oqiii	100.00	52.40	0,700.00
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
,	10.71.1	, g rate. ammasie priming oout	Sqm	107.03	102.55	JU,4U1.99

S. No.	Ref. No	Description	Unit	Quantity	DSR 21 Rate	Amount (Rs.)
						-
10.05	13.47	Finishing walls with Premium Acrylic Smooth exterior paint 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	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)	Sgm	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
l		Total of sub-head				59,724.38

DETAIL ES	DETAIL ESTIMATE OF PHASE-A & B WORK AT JNV RAMBAN , JAMMU AND KASHMIR					
	GUEST HOUSE					
	SUMMARY OF COST (SANITARY WO	ORK)				
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				

GUEST HOUSE ABSTRACT OF COST (SANITARY WORKS)

ABSTRACT OF COST (SANITARY WORKS)							
S. No.	Ref. No	Description	Unit	Qty	DSR 21 Rate	Amount (Rs.)	
1	2	3	4	8	9	10	
4.00							
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)		Bend 87.5°	F	4.00	400.00	400.00	
a)	12.42.5.2	110 mm bend	Each	1.00	132.00	132.00	
iii)	12.42.6	Shoe (Plain)					
a)		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	

Page No.1

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) i)	17.35.1 17.35.1.2	100 mm dia. 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.				

b) 17.38.2 75 mm 17.38.2 25 and cast iron \$&S as per IS-3989 Each 4.00 453.40 1813.6 17.39.2 17.39.1 17.39.1 25 and cast iron \$&S as per IS-3989 Each 4.00 439.75 1759.0 17.39.2 25 mm 17.40.1 100 mm discription of the per IS-3989 Each 4.00 298.20 1192.8 17.40.1 100 mm discription of the per IS-3989 Each 1.00 439.75 439.7 17.40.2 25 mad cast iron \$&S as per IS-3989 Each 1.00 439.75 439.7 17.40.2 25 mad cast iron \$&S as per IS-3989 Each 1.00 405.25 405.2 17.43.2 25 mad cast iron \$&S as per IS-3989 Each 1.00 405.25 405.2 17.43.1 25 mad cast iron \$&S as per IS-3989 Each 1.00 405.25 405.2 17.43.1 25 mad cast iron \$&S as per IS-3989 Each 1.00 405.25 405.2 17.43.1 25 mad cast iron \$&S as per IS-3989 Each 2.00 731.40 1462.8 17.43.1 25 mad cast iron \$&S as per IS-3989 Each 2.00 731.40 1462.8 17.43.1 25 mad cast iron \$&S as per IS-3989 Each 2.00 707.30 1414.6 17.44.1 25 mad cast iron \$&S as per IS-3989 Each 2.00 707.30 1414.6 17.44.1 25 mad cast iron \$&S as per IS-3989 Each 2.00 707.30 1414.6 17.44.1 27 f55/575mm 17.44.2 27 fab.2575mm 17.44.2 27 fab.2575mm 17.44.2 27 fab.2575mm 17.44.2 27 fab.2575mm 17.45.2 27 fab.2 27	S. No.	Ref. No	Description	Unit	Qty	DSR 21 Rate	Amount (Rs.)
17.38.1.2 Sand cast iron S&S as per IS - 3989	1			4	8	9	10
b) 17-38.2 75 mm	,						
17.38.2.2 Sand cast iron S&S as per IS- 3989 Each 4.00 453.40 1813.6 17.39	,			Each	4.00	597.60	2390.40
3.10 17.39 Providing and fixing plain bend of required degree			1				
a) 17.39.1 100 mm	i)	17.38.2.2	Sand cast iron S&S as per IS- 3989	Each	4.00	453.40	1813.60
17,39.1.2 Sand cast iron S&S as per IS : 3989							
b) 17.39.2 75 mm	,						
17.39.2 Sand cast iron S&S as per IS - 3989	•		· · · · · · · · · · · · · · · · · · ·	Each	4.00	439.75	1759.00
17.40.1 100 mm dia 10 mm dia 10 mm dia 10 mm dia 17.40.2 3 mat ast iron S&S as per IS - 3989 Each 1.00 439.75 439.7 43				Each	4.00	298.20	1192.80
17.40.1.2 Sand cast iron S&S as per IS - 3989 Each 1.00 439.75 439.75 17.40.2.2 Sand cast iron S&S as per IS - 3989 Each 1.00 405.25 405.2							
b) 17.40.2 75 mm dia	,			Fach	1 00	439 75	439 75
17.40.2.2 Sand cast iron S&S as per IS - 3989	,			Laon	1.00	100.10	100.70
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	1.00	405.25	405.25
17.43.1.2 Sand cast iron S&S as per IS - 3989 Each 2.00 731.40 1462.8 17.43.1.2 Sand cast iron S&S as per IS - 3989 Each 2.00 573.80 1147.6 3.13 17.44 Providing and fixing single equal plain junction of required degree			with access door, insertion rubber washer 3mm thick, bolts and nuts complete.				
Display							
17.43.1.2 Sand cast iron S&S as per IS - 3989 Each 2.00 573.80 1147.6				Each	2.00	731.40	1462.80
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 b) 17.44.2 75x75x75mm i) 17.44.2.2 Sand cast iron S&S as per IS - 3989 3.14 17.55 Providing and fixing door piece, insertion rubber washer 3mm thick, bolts & nuts complete: a) 17.55.1 100 mm i) 17.55.2 Sand cast iron S&S as per IS - 3989 Each 2.00 611.00 1222.0 b) 17.55.2 Sand cast iron S&S as per IS - 3989 Each 2.00 611.00 1222.0 i) 17.55.2 Sand cast iron S&S as per IS - 3989 Each 2.00 453.40 906.8 3.15 17.56 Providing and fixing terminal guard: a) 17.56.1 100 mm a) 17.56.1 100 mm b) 17.56.2 Sand cast iron S&S as per IS - 3989 Each 2.00 439.75 879.5 b) 17.56.2 Sand cast iron S&S as per IS - 3989 Each 2.00 439.75 879.5 c) 17.57.1 Sand cast iron S&S as per IS - 3989 Each 2.00 439.75 879.5 c) 17.57.1 Sand cast iron S&S as per IS - 3989 Each 2.00 439.75 879.5 c) 17.57.1 Sand cast iron S&S as per IS - 3989 Each 2.00 439.75 879.5 c) 17.57.2 Sand cast iron S&S as per IS - 3989 Each 2.00 439.75 879.5 c) 17.57.2 Sand cast iron S&S as per IS - 3989 Each 2.00 439.75 879.5 c) 17.57.2 Sand cast iron S&S as per IS - 3989 Each 2.00 439.75 879.5 c) 17.57.2 Sand cast iron S&S as per IS - 3989 Each 2.00 439.75 879.5 c) 17.57.2 Sand cast iron S&S as per IS - 3989 Each 2.00 439.75 879.5 c) 17.57.2 Sand cast iron S&S as per IS - 3989 Each 2.00 439.75 879.5 c) 17.57.2 Sand cast iron S&S as per IS - 3989 Each 2.00 439.75 879.5 c) 17.57.2 Sand cast iron S&S as per IS - 3989 Each 2.00 439.75 879.5 c) 17.57.2 Sand cast iron S&S as per IS - 3989 Each 2.00 439.75 879.5 c) 17.57.2 Sand cast iron S&S as per IS - 3989 Each 2.00 439.75 879.5 c) 17.58.2 75 mm Each 10.00 Mm Each 10.00 466.40 4664.0 c) 466.40 4664.0 c) 17.58.2 75 mm Each 10.00 Mm Each 10.00 466.40 4664.0 c) 17.59.1 100 mm Each 10.00 Mm Each 10.00 122.00 Each 10.00 466.40 4664.0 c) 18.65 544.6	i)			Each	2.00	573.80	1147.60
17.44.1.2 Sand cast iron S&S as per IS - 3989 Each 2.00 707.30 1414.6 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 Each 2.00 611.00 1222.0 b) 17.55.2 Sand cast iron S&S as per IS - 3989 Each 2.00 611.00 1222.0 i) 17.55.2.2 Sand cast iron S&S as per IS - 3989 Each 2.00 453.40 906.8 3.15 17.56 Providing and fixing terminal guard : a) 17.56.1 100 mm Each 2.00 439.75 879.5 i) 17.56.2 Sand cast iron S&S as per IS - 3989 Each 2.00 439.75 879.5 i) 17.56.2 Sand cast iron S&S as per IS - 3989 Each 2.00 311.55 623.1 3.16 17.57 Providing and fixing collar : a) 17.57.1 2 Sand cast iron S&S as per IS - 3989 Each 2.00 439.75 879.5 i) 17.57.2 Sand cast iron S&S as per IS - 3989 Each 2.00 439.75 879.5 i) 17.57.1.2 Sand cast iron S&S as per IS - 3989 Each 2.00 439.75 879.5 b) 17.57.2 Sand cast iron S&S as per IS - 3989 Each 2.00 439.75 879.5 i) 17.57.2.2 Sand cast iron S&S as per IS - 3989 Each 2.00 439.75 879.5 i) 17.57.2.2 Sand cast iron S&S as per IS - 3989 Each 2.00 439.75 879.5 i) 17.57.2.2 Sand cast iron S&S as per IS - 3989 Each 2.00 439.75 879.5 i) 17.58.1 100 mm Each 2.00 466.40 4664.0 3.18 17.59 Providing and fixing M.S. stays and clamps for sand cast iron/centrifugally cast Each 10.00 466.40 4664.0 a) 17.59.1 100 mm Each 4.00 128.65 514.6 a) 17.59.1 100 mm Each 4.00 128.65 514.6	3.13	17. 44	Providing and fixing single equal plain junction of required degree				
b) 17.44.2 75x75x75mm i) 17.44.2.2 Sand cast iron S&S as per IS - 3989 3.14 17.55 Providing and fixing door piece, insertion rubber washer 3mm thick, bolts & nuts complete: a) 17.55.1 100 mm i) 17.55.2.2 Sand cast iron S&S as per IS - 3989 b) 17.55.2 2 575 mm i) 17.56.1.2 Sand cast iron S&S as per IS - 3989 c) 17.56.2 2 Sand cast iron S&S as per IS - 3989 c) 17.56.1.2 Sand cast iron S&S as per IS - 3989 c) 17.56.1.2 Sand cast iron S&S as per IS - 3989 c) 17.56.1.2 Sand cast iron S&S as per IS - 3989 c) 17.56.1.2 Sand cast iron S&S as per IS - 3989 c) 17.56.2 2 Sand cast iron S&S as per IS - 3989 c) 17.56.2 2 Sand cast iron S&S as per IS - 3989 c) 17.56.2 2 Sand cast iron S&S as per IS - 3989 c) 17.56.2 2 Sand cast iron S&S as per IS - 3989 c) 17.57.1 100 mm c) 17.57.1 100 mm c) 17.57.1 2 Sand cast iron S&S as per IS - 3989 c) 17.57.2 2 Sand cast iron S&S as per IS - 3989 c) 17.57.2 2 Sand cast iron S&S as per IS - 3989 c) 17.57.2 2 Sand cast iron S&S as per IS - 3989 c) 17.57.2 2 Sand cast iron S&S as per IS - 3989 c) 17.57.2 5 mm c) 17.57.2 2 Sand cast iron S&S as per IS - 3989 c) 17.57.2 5 mm c) 17.57.2 5 mm c) 17.57.2 5 mm c) 17.57.2 5 mm c) 17.58.1 100 mm c) 17.58.1 100 mm c) 17.58.2 75 mm c) 17.59.1 100 mm c) 17.	a)	17.44.1	100x100x100mm				
17.44.2.2 Sand cast iron S&S as per IS - 3989 Each 1.00 498.90 498.90	i)	17.44.1.2	Sand cast iron S&S as per IS - 3989	Each	2.00	707.30	1414.60
3.14 17. 55 Providing and fixing door piece, insertion rubber washer 3mm thick, bolts & nuts complete : a) 17.55.1 100 mm i) 17.55.2.2 Sand cast iron S&S as per IS - 3989 Each 2.00 611.00 1222.0 b) 17.55.2.2 F5 mm i) 17.55.2.2 Sand cast iron S&S as per IS - 3989 Each 2.00 453.40 906.8 3.15 17. 56 Providing and fixing terminal guard : a) 17.56.1.1 Sand cast iron S&S as per IS - 3989 Each 2.00 439.75 879.5 b) 17.56.2 75 mm i) 17.56.2 Sand cast iron S&S as per IS - 3989 Each 2.00 311.55 623.1 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 2.00 311.55 623.1 3.16 17. 57 Providing and fixing collar : a) 17.57.1.2 Sand cast iron S&S as per IS - 3989 Each 2.00 439.75 879.5 b) 17.57.2 Sand cast iron S&S as per IS - 3989 Each 2.00 439.75 879.5 c) 17.57.2 Sand cast iron S&S as per IS - 3989 Each 2.00 439.75 879.5 d) 17.57.2 Sand cast iron S&S as per IS - 3989 Each 2.00 439.75 879.5 d) 17.57.2 Sand cast iron S&S as per IS - 3989 Each 2.00 439.75 879.5 d) 17.57.2 75 mm f) 17.57.2 Sand cast iron S&S as per IS - 3989 Each 2.00 439.75 879.5 d) 17.58.1 100 mm Each 2.00 439.75 542.9 f) 17.58.2 75 mm Each 2.00 439.75 542.9 f) 17.58.1 100 mm Each 10.00 466.40 4664.0 f) 17.59.1 100 mm Each 10.00 466.40 4664.0 f) 17.59.1 100 mm Each 10.00 128.65 5496.5 f) 17.59.1 100 mm Each 4.00 128.65 5446.5 f) 17.59.1 100 mm Each 4.00 128.65 5446.5	b)						
bolts & nuts complete : a) 17.55.1 100 mm	i)	17.44.2.2	Sand cast iron S&S as per IS - 3989	Each	1.00	498.90	498.90
17.55.1.2 Sand cast iron S&S as per IS - 3989 Each 2.00 611.00 1222.0 b) 17.55.2 75 mm			bolts & nuts complete :				
b) 17.55.2 75 mm i) 17.55.2.2 Sand cast iron S&S as per IS - 3989 Each 2.00 453.40 906.8 3.15 17.56 Providing and fixing terminal guard: a) 17.56.1.2 Sand cast iron S&S as per IS - 3989 Each 2.00 439.75 879.5 b) 17.56.2 75 mm i) 17.56.2.2 Sand cast iron S&S as per IS - 3989 Each 2.00 311.55 623.1 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 2.00 439.75 879.5 b) 17.57.2 Sand cast iron S&S as per IS - 3989 Each 2.00 439.75 879.5 b) 17.57.2 Sand cast iron S&S as per IS - 3989 Each 2.00 439.75 879.5 b) 17.57.2 Sand cast iron S&S as per IS - 3989 Each 2.00 271.45 542.9 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 5496.5 b) 17.58.2 75 mm Each 10.00 466.40 4664.0 3.18 17.59 Providing and fixing M.S. stays and clamps for sand cast iron/centrifugally cast (spun) iron pipes of diameter:	,						
17.55.2.2 Sand cast iron S&S as per IS - 3989 Each 2.00 453.40 906.8	,		·	Each	2.00	611.00	1222.00
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centrifugally cast (spun) iron pipes of diameter :	(d	17.58.2	/5 mm	Each	10.00	466.40	4664.00
			centrifugally cast (spun) iron pipes of diameter :				
b) 17.59.2 75 mm							514.60
	b)	17.59.2	75 mm	Each	4.00	80.10	320.40

1 3.19 a) i) 3.20	17.60.1 17.60.1.2 17.61.1	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: 100 mm inlet and 100 mm outlet Sand Cast Iron S&S as per IS: 1729 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	4 Each	16.00	1403.45	(Rs.) 10 22455.20
a) i)	17.60.1 17.60.1.2 17.61	down or hinged grating with or without vent arm complete, including cost of cutting and making good the walls and floors: 100 mm inlet and 100 mm outlet Sand Cast Iron S&S as per IS: 1729 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	Each	16.00	1403.45	22455.20
i) ·	17.60.1.2	Sand Cast Iron S&S as per IS: 1729 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	Each	16.00	1403.45	22455.20
3.20		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				
	17.61.1	coarse sand) :				
a)		100 mm dia	Metre	5.00	615.70	3078.50
3.21	3.21 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 out bood				105404.00
4.00	18.00	Total of sub-head WATER SUPPLY				125434.30

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.	,		Š	.,
		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.				
a)	18.8.1	Concealed work, including cutting chases and making good the walls etc. 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	Lauii	2.00	447.00	094.00
		unions :				
a) i)	18.21.2 18.21.2.1	45 cm length 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	l lmi4	Otre	DSR 21	Amount
		Description	Unit	Qty	Rate	(Rs.)
1	10.40	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

Page No.6

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

D	DETAIL ESTIMATE OF PHASE-A & B WORK AT JNV RAMBAN , JAMMU AND KASHMIR								
	GUEST HOUSE								
	SUMMARY OF COST (ELECTRICAL WO	RK)							
SUB HEAD	AIII	ount							
No.		DSR ITEMS	NS ITEMS						
ı	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						

GUEST HOUSE

SI.	DSR-	DESCRIPTION	UNIT	QTY.	RATE	RATE	AMOUNT	AMOUNT
No.	2022	SUBHEAD - I - WIRING			(AS PER SR)	(AS PER NS)	(SR ITEMS)	(NS ITEMS)
1.00		SUBHEAD - 1 - WIKING						
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)		15/16 A switch	Each	4.00	156.00		624.00	0.00
b)		3 pin 5/6 A socket outlet Telephone socket outlet	Each Each	4.00 1.00	112.00 148.00		448.00 148.00	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
(h)	175	O V 40 cm, may 1 4 V C cm, may could regime		04.00	740.00		47040.00	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, 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)		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 - 1					76490.76	840.27
2.00		SUBHEAD - II - SUPPLY & INSTALLATION OF FITTINGS						

BOQ-E-GH

SI. No.	DSR- 2022	DESCRIPTION	UNIT	QTY.	RATE (AS PER SR)	RATE (AS PER NS)	AMOUNT (SR ITEMS)	AMOUNT (NS ITEMS)
	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.			(NOTE ON)	(NOTE LIVING)	(OKTI ZINO)	(NO II EMO)
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	Lacii	5.00		2001.40	0.00	0244.20
		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.	Lacil	4.00	39.00		6379.00	37152.80
3.00		SUBHEAD - III - DISTRIBUTION BOARD						

BOQ-E-GH 2

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			(ACT ENGIN)	(ro i zitilo)	(OKTI Zimo)	(110 11 2 1110)
		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
(6)	2.17	20 (111)0	Lacii	2.00	2020.00		4030.00	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.l. wire on surface or in recess for loop earthing as required.	Metre	15.00	70.00		1050.00	0.00
		TOTAL OF CURUEAR IN						
		TOTAL OF SUBHEAD - IV	-	-			10775.00	0.00
				 				
		TOTAL (I TO IV)	L				111056.76	71077.48
		G. TOTAL (I TO IV)						182134.24

BOQ-E-GH 3

	DETAIL ESTIMATE OF PHASE-	WORK AT JNV	/ RAMBAN , J	AMMU AI	ND KASHMI	R	
		ABSTRACT OF C	OST				
		ECTRIC SUB ST			1		
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	
	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	
	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 (iii) R.C.C. work in Columns	5.33.1 5.33.1	1.420 0.540	CUM	7997.3 7997.3	11356.17 4318.54	
	(iii) N.S.S. WORK III GORGIIIIIS	3.33.1	0.340	COW	7997.3	43 10.34	
(II)	Above plinth to floor-V IVI						
	Same as above but R.C.C. work abive 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	0.000	01	0202.27	20004.22	
	Cement mortar 1:6 (1 cement : 6 coarse sand)	6.4.2	9.680	CUM	8288.35	80231.23	

	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	
	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-1 (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	22.14					
	Cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20mm nominal size)	22.14.1	3.61	Cum	7510.75	27113.81	
	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 but 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	

	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 TOTAL	186.75 841859.78	5550.00
40	Providing and fixing aluminium hanging floor door stopper ISI marked anodised (anodic coating not less than grade AC 10 as						
39	Providing and fixing stainless steel handles with screws etc. complete (a) 125 mm.	M.R.	6.00	NOS	300.00		1800.00
	200 x 10mm	M.R.	3.00	NOS	350.00		1050.00
	necessary screws etc. complete. 300 x 10mm	M.R.	3.00	NOS	400.00		1200.00
38	Providing and fixing stainless steel towerbolts (barrel type) with						
	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
37	Providing & fixing Stainless steel sliding door bolts ISI marked	13.47.1	4.50	SQM	162.35	730.58	
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).						
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	134.465	SQM	162.55	21857.29	
	(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	
	brand and manufacture on steel galvanised iron/steel works.	13.50.3	12.00	SQM	55.5	666.00	
34	Steel Painting: (a) With ready mixed red oxide zink chromate primer of approved						
	25 mm dia.	(DSR-9.46.3)	4.22	RM	482.3	2035.31	
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)	(DOD 0 40 0)	4.00	D**	402.2	2025.24	
	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	
32	Kota stone slabs 20 mm thick in risers of steps, skirting, dado and						
01	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	
31	class designation 75 Kota stone slab flooring over 20 mm (average) thick base laid	16.7.1	28.00	RM	179.5	5026.00	
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 modulur) bricks of	16.7.4	20.00	DM	170 5	5026.00	
	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	
29	Making plinth protection 50mm thick of cement concrete 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 20 mm						
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	
27	6 mm cement plaster on celling (a) 1:3(1 cement:3 fine sand)	13.16.1	48.01	SQM	253.05	12148.93	
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	
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	

DETAIL ESTIMATE OF PHASE-A WORK AT JNV RAMBAN, JAMMU AND KASHMIR SUMMARY OF COST FOR ELECTRICAL WORKS (ELECTRIC SUB STATION) **AMOUNT** S. No **DESCRIPTION** DSR-2022 NON-DSR INTERNAL WIRING 81741.00 Ш DISTRIBUTION BOARDS & MCB's 6845.00 Ш MISCELLANEOUS 1076.00 690.00 IV INTERNAL LIGHTING FIXTURES & FANS 3470.00 24920.00 V CABLE & ACCESSORIES 160.00

SAY IN LACS

93132.00

0.93

25770.00

0.26

Total C/F To Summary

1.14.2 2 x 2.5 sq. mm + 1 x 2.5 sq. mm earth wire. M 70.00 275.00 19250.1 1.14.5 2 x 10 sq.mm. + 1 x 6 sq.mm. Earth wire M 30.00 570.00 17100.1 1.14.5 2 x 10 sq.mm. + 1 x 6 sq.mm. Earth wire M 30.00 570.00 17100.1 1710	S.No	DSR-2022	DESCRIPTION	UNIT	Quantity	RATE (in Rs)	AMOUNT (in Rs)
International Control Point Writing in PVC conduit, with modular type switch:	1		SUB HEAD (I) - INTERNAL WIRING				
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 in. ser sequired. 1.10.2. Group B Twin Control Point wring 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, suitable M.S. box and earthing the point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable etc. as required. 3. Power plug wiring in PVC conduit (2.4 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. 4. Circuit Sub main wiring alongwith earth wire with the following sizes of 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. 1.14.1 2 X 1.5 sq. mm + 1 X.1.5 sq. mm earth wire. 1.14.2 X 1.5 sq. mm + 1 X.1.5 sq. mm earth wire. 1.14.1 2 X 1.5 sq. mm + 1 X.1.5 sq. mm earth wire. 1.14.2 X 1.5 sq. mm + 1 X.5.5 sq. mm earth wire. 1.14.5 2 x 1.0 sq. mm + 1 X.5 sq. mm earth wire. 1.15.6 Sk. Pill pht plug point modular byte accessories: 1.16.7 Sk. Pill pht plug point modular plate and cover in FRLSort on surface or in recess including providing and fixing 3 pin 5/6 amps modular socket outlet and 15/6 amps modular switch, connection etc. as required. 1.18.1 Supply and fixing of suitable size GI box with modular plate and cover in FRLSort on surface or in recess including providing and fixing 5 pin 5/6 & 15/16 amps	1		,				
FRILS PVC insulated copper conductor single core cable in surface / recessed medium class pvc conduit, with modular switch, modular patter. Modular patter. Surface or cable in surface / recessed medium class pvc core cable in surface / recessed medium class pvc conductor single core cable etc. as required. 1.11 Wiring for twin control light point with 1.5 s.g.mm FRILS 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 s.g.mm FRILS PVC insulated copper conductor single core cable in surface / recessed medium class pvc conduit, 2 way modular switch, suitable M.S. box and earthing the point with 1.5 s.g.mm FRILS PVC insulated copper conductor single core cable in surface / recessed medium class pvc conduit alongwith 1.0 s.d. sq. mm FRILS PVC insulated copper conductor single core cable in surface / recessed medium class pvc conduit alongwith 1.0 s.d. sq. mm FRILS PVC insulated copper conductor single core cable in surface / recessed medium class pvc conduit alongwith 1.0 sq. sq. mm FRILS PVC insulated copper conductor single core cable in surface / recessed medium class pvc conduit alongwith 1.0 sq. sq. mm FRILS PVC insulated copper conductor single core cable in surface / recessed medium class pvc conduit alongwith 1.0 sq. sq. mm FRILS PVC insulated copper conductor single core cable in surface / recessed medium class pvc conduit as required. 4	1						
box and earthing the point with 1.5 s.g.mm FRLS PVC insulated copper conductor single core cable etc. as required. 1.10.2 Group B Twin Control Point wring in PVC conduit, with modular type switch: Wring 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 Mis. 5 box and earthing the 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 with 3.5 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 1562.0 Power plug with 2XH 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. Wiring for light power plug withing single point with the following sizes of FRLS PVC insulated copper conductor single core cable in surface/ recessed medium class pvc conduit as required. Wiring for circuit/ submain wring 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. Wiring for circuit/ submain wring 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 X1.5 sq. mm + 1 X 1.5 sq. mm earth wire. M 10.00 233		1.10	FRLS PVC insulated copper conductor single core cable in surface / recessed				
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. 1.12 Wiring for light/ power plug with 224 sq.mm, }: 1.13 Wiring for light/ power plug with 224 sq.mm, }: 1.14 Wiring for light/ power plug with 224 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. 4 Circuit / Sub main wiring in PVC conduit; } 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 2X.1.5 sq.mm + 1.X.1.5 sq.mm earth wire. 1.14.2 1X.1.5 sq.mm + 1.X.1.5 sq.mm earth wire. 1.14.3 Syr light plug point Modular type accessories: 1.31 Syr light plug point Modular sybe accessories: 3. Syr light plug point Modular sybe accessories: 3. Syr power plug point modular switch, connection etc. as required. (For light plugs to be used in non residential buildings). 4. Syr power plug point modular sybe accessories: 3. Syr power plug point modular sybe accessories: 4. Supply and fixing of suitable size GI box with modular sylate and cover in FRLSont 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. 5. Syr power plug point modular type accessories: 3. Syr power plug point modular sylate size GI box with modular plate and cover in FRLSont on surface or in recess including providing and fixing 6 pin 5/6 & 15/16 amps modular socket outlet and 5/6 amps modular switch, connection etc. as required. 5. Syr power			box and earthing the 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, suitable MS. 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 1	2	1.10.2		Point	13.00	1182.00	15366.00
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. Circuit / Sub main wiring in PVC conduit : Wiring for Circuit / Sub main wiring in PVC conduit : Wiring for Circuit / Sub main wiring in PVC conduit : Wiring for Circuit / Sub main wiring in PVC conduit : Wiring for Circuit / Sub main 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		1.11	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	Point	1 00	1562 00	1562 00
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. 4 Circuit / Sub main wiring in PVC conduit: - 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. 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. 2 X 1.5 sq. mm + 1 X 1.5 sq. mm earth wire. M 70.00 275.00 19250. SVF light plug point Modular type accessories: - Supply and fixing of suitable size GI box with modular plate and cover in FRLSont 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). 5/F power plug point modular type accessories: - Supply and fixing of suitable size GI box with modular plate and cover in FRLSont 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. SVF modular type electronic fan regulator: - Supply and fixing two module stepped type electronic fan regulator on the existing modular plate with box including connections but excluding modular plate as existing modular plate with box including connections but excluding modular plate & switch box excluding modular plate as required. 5/F modular type blanking plate : 1.25 Supply and fixing following rating, 240 volts C series, in the existing modular plate as required. 5/F modular type blanking plate in the existing modular plate in the existing and commissioning etc. as required. 2.10.1 single pole SVE PMCB Bo	3		•	1 Oiiit	1.00	1002.00	1002.00
Cable for loop earthing as required. M 60.00 334.00 20040.8		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				
Circuit / Sub main wring in PVC conduit: Wiring for circuit/ submain wring 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 × 1.5 sq. mm = 1 × 1.5 sq. mm earth wire. M 10.00 233.00 2330.0 2330.0 1.14.2 2 × 2.5 sq. mm + 1 × 2.5 sq. mm earth wire. M 70.00 275.00 19250.1 1.14.2 2 × 2.0 sq. mm + 1 × 1.5 sq. mm earth wire. M 30.00 570.00 17100.1 30.00 370.00 370.00 370.00 370.00 370.00 370.00 37100.1 30.00 370.00					00.00	004.00	00040.00
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 70.00 225.00 233.00 233.00 1.14.5 2 X 2.5 sq. mm + 1 X 1.5 sq. mm earth wire. M 70.00 275.00 19250.1 1.14.5 2 X 1.0 sq. mm. + 1 X 1.5 sq. mm earth wire. M 30.00 570.00 17100.1 1.14.5 2 X 1.0 sq. mm. + 1 X 1.5 sq. mm earth wire. M 30.00 570.00 17100.1 1.14.5 2 X 1.0 sq. mm. + 1 X 1.5 sq. mm earth wire. M 30.00 570.00 17100.1 1.14.5 2 X 1.0 sq. mm. + 1 X 1.5 sq. mm earth wire. M 30.00 570.00 17100.1 1.14.5 2 X 1.0 sq. mm. + 1 X 1.5 sq. mm earth wire. M 30.00 570.00 17100.1 1.14.5 2 X 1.0 sq. mm. + 1 X 1.5 sq. mm earth wire. M 30.00 570.00 17100.1 17100.	Λ		1 0 1	IVI	60.00	334.00	20040.00
1.14 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 70.00 275.00 19250.1 1.14.2 2 X 2.5 sq. mm + 1 X 2.5 sq. mm earth wire. M 70.00 275.00 19250.1 1.14.5 2 X 10 sq. mm. + 1 X 6 sq. mm earth wire. M 30.00 570.00 17100.1 1.14.5 2 X 10 sq. mm. + 1 X 6 sq. mm earth wire. M 30.00 570.00 17100.1 1.14.5 2 X 10 sq. mm. + 1 X 6 sq. mm earth wire. M 30.00 570.00 17100.1 1.14.5 2 X 10 sq. mm. + 1 X 6 sq. mm earth wire. M 30.00 570.00 17100.1 1.14.5 2 X 10 sq. mm. + 1 X 6 sq. mm earth wire. M 30.00 570.00 17100.1 1.14.5 2 X 10 sq. mm. + 1 X 6 sq. mm earth wire. M 30.00 570.00 17100.1 1.14.5 2 X 10 sq. mm. + 1 X 6 sq. mm earth wire. M 30.00 570.00 17100.1 1.14.5 2 X 10 sq. mm. + 1 X 6 sq. mm earth wire. M 30.00 570.00 17100.1 1.14.5 2 X 10 sq. mm. + 1 X 6 s	4						
1.14.1 2 x 1.5 sq. mm + 1 x 1.5 sq. mm earth wire. M 70.00 233.00		1.14	of FRLS PVC insulated copper conductor, single core cable in surface/ recessed				
1.14.5 2 x 10 sq.mm. + 1 x 6 sq.mm. Earth wire S/F light plug point Modular type accessories: 1.31 Supply and fixing of suitable size GI box with modular plate and cover in FRLSont 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). S/F power plug point modular type accessories:- 1.32 Supply and fixing of suitable size GI box with modular plate and cover in FRLSont 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. 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. S/F modular type blanking plate:- 1.26 Supply and fixing modular plate as required. Supply and fixing modular plate as required. Each 2.00 369.00 738.01 TOTAL SUB HEAD (I) (DSR'2018) SUB HEAD (II) - DISTRIBUTION BOARDS & MCB's (DSR'2018) 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. S/F DP MCB Isolator 2.10 Supplying a fixing single pole, blanking plate in the existing MCB DB complete with connections, testing and CSD B complete with connections, testing and commissioning etc.		1.14.1		М	10.00	233.00	2330.00
S/F light plug point Modular type accessories: 1.31 Supply and fixing of suitable size GI box with modular plate and cover in FRLSont 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). 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 FRLSont 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. 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. 1.26 Supply and fixing modular blanking plate: 1.27 Supply and fixing modular plate as required. 1.28 Supply and fixing modular plate as required. 1.29 Supply and fixing modular plate as required. 1.20 Supply and fixing following 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. 2.101 Single pole 2.101 Single pole 3 Supplying & fixing single pole, blanking plate in the existing MCB DB complete etc. as required. 3 Supplying and fixing single pole, blanking plate in the existing MCB DB complete etc. as required. 4 Supplying and fixing following rating, double pole, 240 V, isolator in the existing MCB DB complete with connections, testing and mCB DB complete with connections, testing and mCB DB complete with connections, testing and commissioning etc.		1.14.2	2 X 2.5 sq. mm + 1 X 2.5 sq. mm earth wire.	М	70.00	275.00	19250.00
1.31 Supply and fixing of suitable size GI box with modular plate and cover in FRLSont 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). 7		1.14.5		М	30.00	570.00	17100.00
FRLSont 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). S/F power plug point modular type accessories: 1.32 Supply and fixing of suitable size GI box with modular plate and cover in FRLSont 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. S/F modular type electronic fan regulator: 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. S/F modular type blanking plate: S/F modular type blanking plate: Supply and fixing modular blanking plate on the existing modular plate & switch box excluding modular plate as required. TOTAL SUB HEAD (I) (DSR'2018) TOTAL SUB HEAD (I) (DSR'2018) SUB HEAD (II):- DISTRIBUTION BOARDS & MCB's (DSR'2018) 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. Supplying & fixing single pole, blanking plate in the existing MCB DB complete etc. as required. S/F DP MCB Isolator 2.10. Supplying and fixing following rating, double pole, 240 V, isolator in the existing MCB DB complete with connections, testing and commissioning etc.	6						
1.32 Supply and fixing of suitable size GI box with modular plate and cover in FRLSont 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. 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 etc. as required. 1.26 Supply and fixing modular blanking plate on the existing modular plate & switch box excluding modular plate as required. 1.26 Supply and fixing modular plate as required. 1.27 TOTAL SUB HEAD (I) (DSR'2018) 1 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 2.11 Supplying & fixing single pole, blanking plate in the existing MCB DB complete etc. as required. 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.	7	1.31	FRLSont 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
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. 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 2.00 369.00 738.00 TOTAL SUB HEAD (I) (DSR'2018) SUB HEAD (I) (DSR'2018) 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 2.11 Supplying & fixing single pole, blanking plate in the existing MCB DB complete etc. as required. 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.	1	1.32	Supply and fixing of suitable size GI box with modular plate and cover in FRLSont 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	F	5.00	500.00	2022.00
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. 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. TOTAL SUB HEAD (I) (DSR'2018) 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 2.11 Supplying & fixing single pole, blanking plate in the existing MCB DB complete etc. as required. 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.	^			Each	5.00	586.00	2930.00
existing modular plate switch box including connections but excluding modular plate etc. as required. 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) 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 1536.0 SUB HEAD (II):- DISTRIBUTION BOARDS & MCB's (DSR'2018) Each 6.00 256.00 1536.0 Each 6.00 256.00 1536.0 SUPPlying & fixing single pole, blanking plate in the existing MCB DB complete etc. as required. SUPP 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.	9	1 25	Supply and fixing two module stepped type electronic fan regulator on the				
plate etc. as required. 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) SUB HEAD (II):- DISTRIBUTION BOARDS & MCB's (DSR'2018) (DSR'2018) 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 Supplying & fixing single pole, blanking plate in the existing MCB DB complete etc. as required. 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.		0					
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. TOTAL SUB HEAD (I) (DSR'2018) 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 Supplying & fixing single pole, blanking plate in the existing MCB DB complete etc. as required. Sylp D 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.			plate etc. as required.	Each	2.00	369.00	738.00
TOTAL SUB HEAD (I) (DSR'2018) 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 2 2.11 Supplying & fixing single pole, blanking plate in the existing MCB DB complete etc. as required. 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.	10	1.26	Supply and fixing modular blanking plate on the existing modular plate &				
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 2 2.11 Supplying & fixing single pole, blanking plate in the existing MCB DB complete etc. as required. 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.			switch box excluding modular plate as required.	Each	1.00	40.00	40.00
(DSR'2018) 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 2.11 Supplying & fixing single pole, blanking plate in the existing MCB DB complete etc. as required. 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.			TOTAL SUB HEAD (I) (DSR'2018)				81741.00
(DSR'2018) 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 2.11 Supplying & fixing single pole, blanking plate in the existing MCB DB complete etc. as required. 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.	11-		SUB HEAD (II) - DISTRIBUTION BOARDS & MCP's				
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 2.11 Supplying & fixing single pole, blanking plate in the existing MCB DB complete etc. as required. 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.	II						
in the existing MCB DB complete with connections, testing and commissioning etc. as required. 2.10.1 single pole 2.11 Supplying & fixing single pole, blanking plate in the existing MCB DB complete etc. as required. 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.	1	2.10	Supplying and fixing 5 amps. to 32 amps. rating, 240 volts 'C' series,				
2 2.11 Supplying & fixing single pole, blanking plate in the existing MCB DB complete etc. as required. 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.			in the existing MCB DB complete with connections, testing and				
2.11 complete etc. as required. 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.		2.10.1		Each	6.00	256.00	1536.00
2.12 Supplying and fixing following rating, double pole , 240 V, isolator in the existing MCB DB complete with connections, testing and commissioning etc.		2.11	complete etc. as required.	Each	2.00	13.00	26.00
	3	2.12	Supplying and fixing following rating, double pole , 240 V, isolator in the existing				
		2 12 1		Fach	1 00	435 NO	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				
	2.14.2	connections, testing and commissioning etc. as required. 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)	Lacii	1.00	2042.00	2042.00
	2.3.1	6 way, Double door	Each	1.00	2206.00	2206.00
		TOTAL SUB HEAD (II) (DSR'2018)				6845.00
II		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 DEBICAGE)				
2	MR	(NON-DSR'2018) 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				
1	1.41	DSR 2016 Installation, testing and commissioning of pre-wired, flourescent fitting / compact				
•	1.41	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	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,	Lacii	7.00	200.00	1772.00
3	1.50	copper conductor, single core cable, including providing and fixing phenolic laminated sheet cover on the fan box etc. as required. Installation of exhaust fan in the existing opening, including making good the	Each	2.00	339.00	678.00
	1.50.1	damage, connection, testing, commissioning etc. as required Upto 450 mm sweep	Each	3.00	450.00	1350.00
		1-b		3.00	. 55.55	

		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

excexx of get soil all all all all all all all all all a		DSR-2021 2.8.1 16.3.9 2.25	6.91 0.900 7.810	CUM	286.85 624.55 253.95 2161.2	AMOUNT (In Rs.) ON DSR 1982.13 562.10 1983.35	AMOUNT (In RS.) ON NON DSR
1 Eac exception of get soil all 2 Su 3 Fill plin dequal was 4 Su was 5 Program up 10 6 Program in cerebe exception of gram in cerebe exception	arth 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 f sides and ramming of bottoms, lift upto 1.5 m, including etting out the excavated soil and disposal of surplus excavated bill as directed, within a lead of 50 m. Il kinds of soil Il kinds of soil Il kinds of soil Il kinds of foundations etc. in layers not exceeding 20cm in epth, consolidating each deposited layer by ramming and latering, lead up to 50 m and lift upto 1.5 m. Il upplying and filling in plinth with sand under floors, including attering, ramming, consolidating and dressing complete. In the standard of the sta	2.8.1 16.3.9	6.91 0.900 7.810	CUM	286.85 624.55 253.95	1982.13 562.10	RS.)
1 Eac exception of get soil all 2 Su 3 Filling det wa 4 Su wa 5 Program up 10 6 Program in cere det exception could be get get get get get get get get get ge	arth work in excavation by mechanical means (Hydraulic xcavator) / manual means in foundation trenches or drains (not xceeding 1.5 m in width or 10 sqm on plan), including dressing f sides and ramming of bottoms, lift upto 1.5 m, including etting out the excavated soil and disposal of surplus excavated bil as directed, within a lead of 50 m. Il kinds of soil upplying and stacking of good earth at site. iilling available excavated earth (excluding rock) in trenches, linth, sides of foundations etc. in layers not exceeding 20cm in epth, consolidating each deposited layer by ramming and latering, lead up to 50 m and lift upto 1.5 m. upplying and filling in plinth with sand under floors, including latering, ramming, consolidating and dressing complete. roviding and laying in position cement concrete of specified rade excluding the cost of centering and shuttering - All work p to plinth level: 1:5:10 (1 Cement: 5 coarse sand (zone-III): 0 graded stone aggregate 40 mm nominal size)	2.8.1 16.3.9 2.25	6.91 0.900 7.810	CUM	286.85 624.55 253.95	1982.13 562.10	RS.)
exception of the second of the	xcavator) / manual means in foundation trenches or drains (not xceeding 1.5 m in width or 10 sqm on plan), including dressing f sides and ramming of bottoms, lift upto 1.5 m, including etting out the excavated soil and disposal of surplus excavated oil as directed, within a lead of 50 m. Il kinds of soil upplying and stacking of good earth at site. iilling available excavated earth (excluding rock) in trenches, linth, sides of foundations etc. in layers not exceeding 20cm in epth, consolidating each deposited layer by ramming and atering, lead up to 50 m and lift upto 1.5 m. upplying and filling in plinth with sand under floors, including atering, ramming, consolidating and dressing complete. roviding and laying in position cement concrete of specified rade excluding the cost of centering and shuttering - All work p to plinth level: 1:5:10 (1 Cement: 5 coarse sand (zone-III): 0 graded stone aggregate 40 mm nominal size)	2.25	7.810 0.90	CUM	624.55 253.95	562.10 1983.35	
2 Su 3 Fill plir delej wa 4 Su wa 5 Proc graup 10 6 Proc mit cet det exx rein proc con dun Ce kg/pa*	upplying and stacking of good earth at site. iilling available excavated earth (excluding rock) in trenches, linth, sides of foundations etc. in layers not exceeding 20cm in epth, consolidating each deposited layer by ramming and atering, lead up to 50 m and lift upto 1.5 m. upplying and filling in plinth with sand under floors, including atering, ramming, consolidating and dressing complete. roviding and laying in position cement concrete of specified rade excluding the cost of centering and shuttering - All work p to plinth level: 1:5:10 (1 Cement: 5 coarse sand (zone-III): 0 graded stone aggregate 40 mm nominal size)	2.25	7.810 0.90	CUM	624.55 253.95	562.10 1983.35	
3 Fill plir del wa	illing available excavated earth (excluding rock) in trenches, iinth, sides of foundations etc. in layers not exceeding 20cm in epth, consolidating each deposited layer by ramming and atering, lead up to 50 m and lift upto 1.5 m. upplying and filling in plinth with sand under floors, including atering, ramming, consolidating and dressing complete. roviding and laying in position cement concrete of specified rade excluding the cost of centering and shuttering - All work p to plinth level: 1:5:10 (1 Cement: 5 coarse sand (zone-III): 0 graded stone aggregate 40 mm nominal size)	2.25	7.810	CUM	253.95	1983.35	
plir del wa	linth, sides of foundations etc. in layers not exceeding 20cm in epth, consolidating each deposited layer by ramming and atering, lead up to 50 m and lift upto 1.5 m. upplying and filling in plinth with sand under floors, including atering, ramming, consolidating and dressing complete. roviding and laying in position cement concrete of specified rade excluding the cost of centering and shuttering - All work p to plinth level: 1:5:10 (1 Cement: 5 coarse sand (zone-III): 0 graded stone aggregate 40 mm nominal size) roviding and laying in position machine batched and machine	2.27	0.90				
5 Prograup 10 6 Promis cer dee: exx rein procool duit Ce kg/pa;	atering, ramming, consolidating and dressing complete. roviding and laying in position cement concrete of specified rade excluding the cost of centering and shuttering - All work p to plinth level: 1:5:10 (1 Cement: 5 coarse sand (zone-III): 0 graded stone aggregate 40 mm nominal size) roviding and laying in position machine batched and machine			CUM	2161.2	1945.08	
6 Promition of the control of the co	rade excluding the cost of centering and shuttering - All work p to plinth level : 1:5:10 (1 Cement : 5 coarse sand (zone-III) : 0 graded stone aggregate 40 mm nominal size) roviding and laying in position machine batched and machine	4.1.10					
miz cer de: exx rein prc cor dur Ce kg, pa;			1.60	CUM	6050.65	9681.04	
	ement concrete work, using cement content as per approved esign mix, including pumping of concrete to site of laying but xcluding the cost of centering, shuttering, finishing and einforcement, including admixtures in recommended roportions as per IS: 9103 to accelerate, retard setting of concrete, improve workability without impairing strength and urability as per direction of Engineer-in-charge."(Note:ement content considered in this item is @ 330 g/cum."Excess/ less cement used as per design mix is ayable/recoverable separately).						
/i\	pto plinth level						
. ,) R.C.C. work in Footing	5.33.1	0.800	CUM	7997.3	6397.84	
٠,	i) R.C.C. work in Beam ii) R.C.C. work in Columns	5.33.1 5.33.1	0.510 0.320	CUM	7997.3 7997.3	4078.62 2559.14	
(II) Ab	bove plinth to floor-V IvI ame as above but R.C.C. work abive plinth LvI.	0.00.1	0.020	COM	7337.3	2000.14	
(i)) R.C.C. work in Lintel	5.33.2	0.090	CUM	10080.15	907.21	
	i) R.C.C. work in Beam ii) R.C.C. work in Columns	5.33.2 5.33.2	0.510 0.910	CUM	10080.15 10080.15	5140.88 9172.94	
	v) R.C.C. work in Slab	5.33.2	1.240	CUM	10080.15	12499.39	
cut up	teel reinforcement for R.C.C. work including straightening, utting, bending, placing in position and binding all complete pto plinth level. Thermo-Mechanically Treated bars of grade e-500D or more.	5.22.6	1.280	QTL.	8965	11475.20	
cut a b	teel reinforcement for R.C.C. work including straightening, utting, bending, placing in position and binding all complete bove plinth level. Thermo-Mechanically Treated bars of	5.22.A.6	1.910	QTL.	8965	17123.15	
rer	rade Fe-500 D or more.						
(b) Su	•	5.9.1	3.200	SQM	307.95	985.44	

7-1	Lintele hoome plinth because winds						
(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	СИМ	6658.25	4327.86	
	moral ne (1 doment e douise dana)						
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	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:	22.8					
	Bitumen felt (hessian base) type 3 grade I conforming to IS: 1322	22.8.1	11.970	SQM	432.10	5172.24	
13	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	0.90	Cum	7510.75	6759.68	
		22.17.1	0.00	Odin	7310.73	0700.00	
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	40.45	45.00-	1	444.5-	4=00 = :	
		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	
	steet withows by welding.	J70. I	0.400		101	1112.00	
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						
1	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).						
	g. adod otorio aggrogato 20 mm nomina size).	10.11.1	7.920	KG	175.65	1391.15	
10	Providing and fiving M.S. Tubular frames for decree with						
19	Providing and fixing M.S. Tubular frames for doors, windows, ventilators and cupboard with rectangular/ L-Type sections,						
1	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.						
	S. Spp. 3-30 0.001 printor.						
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	E			, ,	-		
	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	5.00	40.00	DM.	647	770.40	
	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 celling (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 modulur) 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	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	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	
	i e e e e e e e e e e e e e e e e e e e						

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						
33	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.						1230.00
			Say	/ Rs. li	n Lacs	2.37	0.02

SUMMARY OF COST FOR ELECTRICAL WORKS (PUMP ROOM)

		AMOUNT			
S. No	DESCRIPTION	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		

		BILL OF QUANTITIES ELECTRICAL WORKS (PUMP ROOM)			
S.No	DSR-2022	DESCRIPTION	UNIT	IIT Quantity	RATE (in Rs)	AMOUNT (in Rs)
ı		SUB HEAD (I) :- INTERNAL WIRING				
1		(DSR'2018) Point wiring in PVC conduit, with piano type switch :-				
i	1.0					
	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	1.9	Twin Control Point wiring in PVC conduit, with piano type switch:— 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 10.00	233.00	2330.00
	1.14.2	2 X 2.5 sq. mm + 1 X 2.5 sq. mm earth wire. 2 X 10 sq. mm + 1 X 6 sq. mm earth wire	M M	5.00	570.00	2750.00 2850.00
5	1.14.0	S/F light plug point piano type accessories :-		0.00	070.00	2000.00
	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	1.30	S/F power plug point piano type accessories:- 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
		101AL 30B READ (I) (D3R 2010)				17900.00
II		SUB HEAD (II) :- DISTRIBUTION BOARDS & MCB's				
1	2.10	(DSR'2018) 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	2.10.1	single pole Supplying & fixing single pole, blanking plate in the existing MCB_DB_complete	Each	3.00	256.00	768.00
_	2.11	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		1.00	105.00	105.00
4	2.12.1	40 amps. Supplying and fixing following rating, double pole, (single phase and neutral), 240	Each	1.00	435.00	435.00
7		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.				
5	2.14.2	40 amps. 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)	Each	1.00	2642.00	2642.00
	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, flourescent 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	⊏a∪II	1.00	200.00	200.00
		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

TUBE/ OPEN WELLI/ C. SUBMERSHEE PUMP 7.5 HP. 492,796.58 225,760.40		DETAIL ESTIMATE OF PHASE-A WORK AT JI		IU & KASHMIR.	
APPROACH PROVISION WITHIN CAMPUS DSR-2022 Non-DSR		SUMMARY OF DEVELOR	MENT WORKS		
1.1 IITUMIN ROAD	S.N.		DSR-2021	DSR-2022	Non-DSR
1.2 TOE WALL ALONG BOAD	-				
1.3 TOF WALL ALONG BUILDING 3,411,362.40					
2 EXTERNAL WATER SUPPLY 2.1 WATER SUPPLY DISTRIBUTION LINE 2.2 WATER SUPPLY DISTRIBUTION LINE 3.1 TUDE, OPEN WELL I, C., SUMMERSIBLE PUMP 7.5 HP. 492,796.58 225,760.40 AND CABLING FTC COMPLETE. 2.3 UNDER GROUND SUMP (100 KL) PROVIDING & FIXING MONO BLOCK PUMP'S WITH (7.5 HP) of APPROVED BIAS MINE AND LE. KIRLOSKAR CROMITON. WOTL MATHER & PLATE OF SLIDING PLATE, STARTER. PUMPS 2NOS OF 7.5 HP (2x95000=1,90,000) 3. EXTERNAL SEWERAGE 3.1 R.C.C. SEPTIC TANK (2 Nos 220 Users) 3.1 R.C.C. SEPTIC TANK (2 Nos 300 Users) 3.1 R.C.C. SEPTIC TANK (1 Nos 100 Users) 4.1 WASTE FOOD TANK (1 Nos 100 Users) 4.2 STREET LIGHT (1 Nos 100 Users) 4.3 EXT. SEWERAGE LINE 5.0 H.P. KIRLOSKER SEWERAGE PUMP (AIR COOL) MOUNTED ON TROLLY WITH 10 M SUCTION & 10 M. DEL FLEXIBLE PIPE (1.75000-75,000) 4. EXTERNAL ELECTRIFICATION 4.1 HT/LT PANEL 4.2 STREET LIGHTING USING UNDER GROUND CABLES EXTERNAL CABLE LAYING / CABLE CONNECTION USING U.G. CABLES ROM SUB STATION TO FEDDER PHLER / BUILDING AND PLMP HOUSE AND EARTHING 4.3 STREET LIGHTING USING UNDER GROUND CABLES EXTERNAL CABLE LAYING / CABLE CONNECTION USING U.G. CABLES ROM SUB STATION TO FEDDER PHLER / BUILDING AND PLMP HOUSE AND EARTHING 4.4 25 KVA RATING DCS SEA AND DCS SET FOUNDATION. 5. Stone Pitching Under the building 6.966.880.92 6.966.880.92 6.8CC Connecting Path 2.621,202.46 7. Parapet Wall 4.2 STREET LIGHTING USING UNDER GROUND CABLES EXTERNAL CABLE LAYING / CABLE CONNECTION USING U.G. CABLES ROM SUB STATION TO FEDDER PHLER / BUILDING AND PLMP HOUSE AND EARTHING 4.2 STREET LIGHTING USING UNDER GROUND CABLES EXTERNAL CABLE LAYING / CABLE CONNECTION 4.3 STREET LIGHTING USING UNDER GROUND CABLES EXTERNAL CABLE LAYING / CABLE CONNECTION 4.4 25 KVA RATING DCS SET FOUNDATION. 5. Stone Pitching Under the building 6.966.880.92 6.966.880.92 6.966.880.92 6.80	-				
2.1 WATER SUPPLY DISTRIBUTION LINE 1,293,475.91 78,705.00	1.3		3,411,362.40		
TUBE	2				
AND CABI ING. FTC COMPLETE. 492/96-38 225/96-49	2.1		1,293,475.91		78,705.00
PROVIDING & FIXING MONO BLOCK PUMIS WITH (7.5 HY) OF APPROVED BRAND LE KIRLOSKAR CROMION, 1901, MATHER & PLATE OF SLIDING PLATE, STARTER PUMIS 2NOS OF 7.5 HP (2x95000-1,90,000) 190,000,000,000 190,000,000 190,000,000 190,000,000 190,000,000	2.2		492,796.58		225,760.40
HIP) OF APPROVIED BRAND I.F. KIRI.OSKAR CROMTON, 190,000.00	2.3	UNDER GROUND SUMP (100 KL)	1,960,518.92		
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 300 Users) 1,146,270.39 3.4 R.C.C SEPTIC TANK (1 Nos 100 Users) 445,898.33 3.4 WASTE FOOD TANK (1 Nos 100 Users) 445,898.33 3.5 R.C.C SEPTIC TANK (1 Nos 100 Users) 445,898.33 3.5 R.C.C SEPTIC TANK (1 Nos 100 Users) 445,898.33 3.5 R.C.C SEPTIC TANK (1 Nos 100 Users) 445,898.33 3.5 R.C.C SEPTIC TANK (1 Nos 100 Users) 445,898.33 3.5 R.C.C SEPTIC TANK (1 Nos 100 Users) 445,898.33 3.5 R.C.C SEPTIC TANK (1 Nos 100 Users) 445,898.33 3.5 R.C.C SEPTIC TANK (1 Nos 100 Users) 445,898.33 3.5 R.C.C SEPTIC TANK (1 Nos 100 Users) 445,507.12.63 R.C.C SEPTIC TANK (1 Nos 100 Users) 446,500.00 R.C.C Consecution 4.7 R.C.C SEPTIC TANK (1 Nos 100 Users) 4.7 R.C.C SEPTIC TANK (1 Nos 100 Us	2.4	HP) OF APPROVED BRAND I.E. KIRLOSKAR CROMTON, JYOTI, MATHER & PLATE OF SLIDING PLATE, STARTER.			190,000.00
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 FICOD TANK (1 No) 4500 litre 131,316.64 3.5 EXT. SEWERAGE LINE 2,553,712.63 5.0 H.P. KIRLOSKER SEWERAGE PUMP (AIR COOL) MOUNTED ON TROLLY WITH 10 M.SUCTION & 10 M. DEL FLEXIBLE PIPE (1x75000-75,000) 4 EXTERNAL ELECTRIFICATION 1.0 HT/ LT PANEL 1,808,500.00 4.2 STREET LIGHTING USING UNDER GROUND CABLES 3,677,091.92 2,087,957.11 2,087,957.11 2,087,957.11 4.4 25 KVA RATING DG Set AND DG SET FOUNDATION. 144,611.14 625,000.00 6 RCC Connecting Path 2,621,202.46 7 Parapet Wall 486,200.88 7 Parapet Wall 486,200.88 7 Parapet Wall 486,200.88 7 Parapet Wall	3	EXTERNAL SEWERAGE			
3.3 R.C.C SEPTIC TANK (1 Nos 100 Users) 3.4 WASTE FOOD TANK (1 No) 4500 litre 131,316.64 3.5 EXT. SEVERAGE LINE 5.0 H.P. KIRLOSKER SEWERAGE PUMP (AIR COOL) MOUNTED ON TROLLY WITH 10 M.SUCTION & 10 M. DEL FLEXIBLE PIPE (1x75000-75,000) 4 EXTERNAL ELECTRIFICATION 4.1 HT/ LT PANEL 5. STREET LIGHTING USING UNDER GROUND CABLES EXTERNAL CABLE LAYING / CABLE CONNECTION USING U.G. CABLES FROM SUB STATION TO FEEDER PILLER / BUILDIING AND PUMP HOUSE AND EARTHING 5. SEVERAGE Under the building 6.966.880.92 5. Stone Pitching Under the building 6.966.880.92 5. Stone Pitching Under the building 6.966.880.92 5. Stone Pitching Under the building 7. Parapet Wall 7. Parapet Wall 7. Add additional GST @5.36% as per CPWD circular order dated 30.09.2022 7. TOTAL (A) Add additional GST @5.36% as per CPWD circular order dated 30.09.2022 TOTAL (B) Add for Cost Index Based on PAR-19 as on 04/2019 of Awantipura (ie. 186.50/1.01/1.05 = 128.71 i.e. 28.71% on PAR- 21, DSR-21 & DSR-22) GRAND TOTAL External Boundary Wall C/O Boundry Wall (LSO mt Height compound wall+ Concertina Coil fencing over compound wall with RCC Column 0.300.30). Boundary Wall Length = 1573.99 Meter. C/O Main Gate (RCC Frame Structure) 2.236,915.01 35,380.00	3.1	R.C.C SEPTIC TANK (2 Nos 250 Users)	1,691,685.48		
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 5.0 H.P. KIRLOSKER SEWERAGE PUMP (AIR COOL) MOUNTED ON TROLLY WITH 10 M.SUCTION & 10 M. DEL Flexible PIPE (1x75000-75,000) 4 EXTERNAL ELECTRIFICATION	3.2	R.C.C SEPTIC TANK (1 Nos 300 Users)	1,146,270.39		
3.4 WASTE FOOD TANK (I No) 4500 litre	3.3	R.C.C SEPTIC TANK (1 Nos 100 Users)	445,898.33		
3.5 EXT. SEWERAGE LINE 2,553,712.63 5.0 H.P. KIRLOSKER SEWERAGE PUMP (AIR COOL) MOUNTED ON TROILY WITH 10 M.SUCTION & 10 M. DEL FLEXIBLE PIPE (IX75000=75,000) 4 EXTERNAL ELECTRIFICATION 4.1 HT/ LT PANEL 1,808,500.00 4.2 STREET LIGHTING USING UNDER GROUND CABLES EXTERNAL CABLE LAYING / CABLE CONNECTION USING U.G. CABLES FROM SUB STATION TO FEEDER PILLER / BUILDIING AND PUMP HOUSE AND EARTHING 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 6 RCC Connecting Path 2,621,202.46 7 Parapet Wall 486,200.88 7 TOTAL (A) 315.15 20.88 66.80 Add additional GST @5.36% as per CPWD circular order dated 30,09,2022 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 & DSR-22 TOTAL (B) 427.37 28.32 66.80 GRAND TOTAL External Boundary Wall C/o Boundry Wall (1.80 mt Height compound wall+ Concertina Coil fencing over compound wall with RCC column 0,30x0.30). Boundary Wall Length = 1573.99 Meter. C/o Main Gate (RCC Frame Structure) 2,236,915.01 35,380.00	3.4	·	131,316.64		
S.0 H.P. KIRLOSKER SEWERAGE PUMP (AIR COOL) MOUNTED ON TROILLY WITH 10 M.SUCTION & 10 M. DEL T	3.5	, ,			
4.1 HT/ LT PANEL 1,808,500.00 4.2 STREET LIGHTING USING UNDER GROUND CABLES 3,677,091.92 EXTERNAL CABLE LAYING / CABLE CONNECTION USING U.G. CABLES FROM SUB STATION TO FEEDER PILLER / BUILDIING 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 Add additional GST ®5.36% as per CPWD circular order dated 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 522.49 External Boundary Wall 31,474,390.42 80.00 Boundary Wall Length = 1573.99 Meter. 2,236,915.01 35,380.00	3.6	MOUNTED ON TROLLY WITH 10 M.SUCTION & 10 M. DEL FLEXIBLE PIPE			75,000.00
4.2 STREET LIGHTING USING UNDER GROUND CABLES EXTERNAL CABLE LAYING / CABLE CONNECTION USING U.G. CABLES FROM SUB STATION TO FEDER PILLER / BUILDIING 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 TOTAL (A) 315.15,365.98 2,087,957.11 6,680,057.32 Modulational GST @5.36% as per CPWD circular order dated 30,09.2022 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) TOTAL (B) 427.37 228.32 66.80 GRAND TOTAL 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. C/O Main Gate (RCC Frame Structure) 2,236,915.01 35,380.00	4	EXTERNAL ELECTRIFICATION			
### EXTERNAL CABLE LAYING / CABLE CONNECTION USING U.G. CABLES FROM SUB STATION TO FEEDER PILLER / BUILDIING AND PUMP HOUSE AND EARTHING #### 425 KVA RATING DG Set AND DG SET FOUNDATION. ### 5 Stone Pitching Under the building ### 6,966,880,92 ### 6 RCC Connecting Path ### 2,621,202.46 ### 7 Parapet Wall ### 486,200.88 ### 10TAL (A) ### 31,515,365.98 ### 2,087,957.11 ### 6,680,057.32 ### TOTAL (A) ### 31,515,365.98 ### 2,087,957.11 ### 6,680,057.32 ### 1.12 ###	4.1	HT/ LT PANEL			1,808,500.00
4.3 USING U.G. CABLES FROM SUB STATION TO FEEDER PILLER / BUILDIING AND PUMP HOUSE AND EARTHING 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 TOTAL (A) 31,515,365.98 2,087,957.11 6,680,057.32 Add additional GST @5.36% as per CPWD circular order dated 30.09.2022 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) TOTAL (B) 427.37 28.32 66.80 GRAND TOTAL 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. C/o Main Gate (RCC Frame Structure) 2,236,915.01 35,380.00	4.2	STREET LIGHTING USING UNDER GROUND CABLES			3,677,091.92
5 Stone Pitching Under the building 6,966,880.92 6 RCC Connecting Path 2,621,202.46 7 Parapet Wall 486,200.88 TOTAL (A) 31,515,365.98 2,087,957.11 6,680,057.32 Add additional GST @5.36% as per CPWD circular order dated 30.09.2022 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) TOTAL (B) 427.37 28.32 66.80 GRAND TOTAL 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. C/o Main Gate (RCC Frame Structure) 2,236,915.01 35,380.00	4.3	USING U.G. CABLES FROM SUB STATION TO FEEDER		2,087,957.11	
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 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. C/o Main Gate (RCC Frame Structure) 2,236,915.01 35,380.00	4.4	25 KVA RATING DG Set AND DG SET FOUNDATION.	144,611.14		625,000.00
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 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. C/o Main Gate (RCC Frame Structure) 2,236,915.01 35,380.00	5	Stone Pitching Under the building	6,966,880,92		
7 Parapet Wall 486,200.88 31,515,365.98 2,087,957.11 6,680,057.32 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 522.49 C/o Boundry Wall (1.80 mtr Height compound wall+ Concertina Coil fencing over compound wall with RCC Column 0.30x0.30). 31,474,390.42 Boundary Wall Length = 1573.99 Meter. 2,236,915.01 35,380.00		Ü			
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 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. 2,236,915.01 35,380.00		<u> </u>			
TOTAL (A) 315.15 20.88 66.80 Add additional GST @5.36% as per CPWD circular order dated 30.09.2022 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). 31,474,390.42 Boundary Wall Length = 1573.99 Meter. 2,236,915.01 35,380.00	<u> </u>			2.087.957.11	6.680.057.32
Add additional GST @5.36% as per CPWD circular order dated 30.09.2022 TOTAL (B) 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) TOTAL (B) GRAND TOTAL 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. C/o Main Gate (RCC Frame Structure) 1.12 1.12 1.12 1.12 1.12 1.12 1.12 332.04 22.00 66.80 66.80 31.474,390.42 522.49 522.49 31.474,390.42 31.474,390.42 32.30 332.04 332.04 22.00 66.80 332.04 343.20 35.380.00		TOTAL (A)			
TOTAL (B) 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 TOTAL (B) 427.37 28.32 66.80 GRAND TOTAL 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. C/o Main Gate (RCC Frame Structure) 22.00 66.80 332.04 22.00 66.80 31.474,390.42		Add additional GST @5.36% as per CPWD circular order dated			00,00
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) TOTAL (B) GRAND TOTAL 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. C/o Main Gate (RCC Frame Structure) 95.33 6.32 427.37 28.32 66.80 31,474,390.42 31,474,390.42 31,474,390.42			332.04	22.00	66.80
TOTAL (B) 427.37 28.32 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-			
GRAND TOTAL 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. C/o Main Gate (RCC Frame Structure) 522.49 31,474,390.42 31,474,390.42 32,236,915.01 35,380.00		21, DSR-21 & DSR-22)	95.33	6.32	
GRAND TOTAL 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. C/o Main Gate (RCC Frame Structure) 522.49 31,474,390.42 31,474,390.42 32,236,915.01 35,380.00		TOTAL (B)	427.37	28.32	66.80
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. C/o Main Gate (RCC Frame Structure) 31,474,390.42 31,474,390.42 32,236,915.01 35,380.00			<u> </u>		
Concertina Coil fencing over compound wall with RCC Column 0.30x0.30). Boundary Wall Length = 1573.99 Meter. C/o Main Gate (RCC Frame Structure) 2,236,915.01 31,474,390.42 32,380.00					
		Concertina Coil fencing over compound wall with RCC Column 0.30x0.30). Boundary Wall Length = 1573.99 Meter.	31,474,390.42		
33,711,305.43 - 35,380.00		C/o Main Gate (RCC Frame Structure)	2,236,915.01		35,380.00
				-	35,380.00

S.N.	PARTICULARS OF ITEMS			
3.14.	TARTICOLARS 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	1	
	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	

	DET	AIL ESTIMATE OF PHAS	E-A WORK A	T JNV	RAMBAN, J.	AMMU & KASHN	MIR.
		C	OST OF BITU	JMIN	ROAD		
S.N.	DSR-21	Description	Qty	Unit	Rate	Amount on DSR-2021 (In RS.)	Amount on Non-DSR (In RS.)
1		Cost of Bitumin Road					
1.1	AOR	Cost of Bitumin Road	3,536.51	Sqm	1,893.53	6,696,478.31	
						6,696,478.31	-

	DETAIL ESTIMATE OF P	HASE-A	W	ORK A	T JNV R	AMBA	N, JAMI	MU & KAS	SHMIR.		
S.N.	DESCRIPTION OF ITEM	DSR- 2021	N	IOS	L	В	Н	QTY	UNIT	RATE (In Rs.)	AMOUNT (In Rs.)
	Analysis (of Bitumi	in Ro	ad 10.0	00 mtr Ler	gth 3.50	mtr wid	e			
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.				40.00			10.00			
		2.25a	1	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
	Supplying and stacking at site.	16.3			10.00		2.122				
	90 mm to 45 mm size stone aggregate	16.3.1		1	10.00	3.50	0.128	4.48	-	4.007.60	0.600.45
							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			
		10.0.2			10.00	3.00	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	N	ios	L	В	Н	QTY	UNIT	RATE (In Rs.)	AMOUNT (In Rs.)
	N/	16210		- 1	10.00	2.50	2.222	0.015			
8	Moorum	16.3.10		1	10.00	3.50	0.009	0.315		000.00	250.04
							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 Total	2.63	Cum	865.80	5,303.03
-							Total	0.13	Cum	003.80	2,303.03

S.N.	DESCRIPTION OF ITEM	DSR- 2021	N	OS	L	В	Н	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 Total	0.51 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	В	Н	QTY	UNIT	RATE (In Rs.)	AMOUNT (In Rs.)
	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
	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 CONSTRUCTON OF JNV PR	IASE-A AT JNV	RAMB	AN, JAMM	U & KASHMIR.	
		<u>Toe Wall of Road</u>					
		[BILL OF QUANTITY	1			1	
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 $1.5\mathrm{m}$ in width or $10\mathrm{sqm}$ on plan), including dressing of sides and ramming of bottoms, lift upto $1.5\mathrm{m}$, including getting out the excavated soil and disposal of surplus excavated soil as directed, within a lead of $50\mathrm{m}$.	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 diametre	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:					
Ė	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 @ 2.20 kg/ 10 sqm	461.96	sqm	245.00	113,180.20	
		Total cost of Toe Wall				1,472,954.97	

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

	T	EXTERNAL WAT	ER SU				T	
S. No	DSR-2021	DESCRIPTION	UNIT	TOTAL QTY	RATE DSR	RATE NDSR	DSR-2021	NDSR
		(D.S.R. 2021 ITEMS)						
1	19.19	Providing Precast Cement Concrete / SFRC Valve Chamber cover and frame conforming to IS: 12592-2002., The concrete mix should be not less than M 30.						
	19.19.1	L D- 2.5	F 1	2.00	1 255 25		2.745.75	
	19.19.1.1	Rectangular shape 600*450 mm internal dimensions	Each	3.00	1,255.25		3,765.75	
2	18.25	Providing and laying S&S C.I. standard specials such as tees, bends, collars, tapers, caps etc. (Heavy class):						
	18.25.1	Up to 300 mm dia.	Qntl	2.00	5,649.65		11,299.30	
3	18.71	Providing and laying Double Flanged (screwed/ welded) Centrifugally (Spun) Cast Iron, Class B (IS: 1536):						
	18.71.1	100 mm dia C.I. Double Flanged Pipe	Rmt	25.00	1,838.10		45,952.50	
		(NON D.S.R. ITEMS)						
1		Supply, fixing in position, testing ISI marked cast iron double flanged sluice valves as per IS:14846-2000, (PN 10) with SS stem, bolts, nuts, 3 mm thick rubber gaskets including transporting to worksite, Complete as per						
		100 mm nominal dia	Each	3.00		15,535.00		46,605.00
2		Providing and laying cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone agg. 20 mm nominal size) for thrust blocks at bends and junctions of water lines including necessary excavation, centering, shuttering etc as	Cum.	3.00		5,000.00		15,000.0
3		Constructing brick masonry chamber 600 x 600 x 1050 mm inside with F.P.S. brick work in cement mortar 1:4 (1 cement : 4 coarse sand) for Sluice Valve, necessary excavation, foundation concrete 1:4:8 (1 cement : 4 coarse sand: 8 graded stone aggregate 40 mm 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 including fixing of CI/SFRC cover and frame in 150 mm thick cement concrete 1:2:4 (1cement: 2 coarse sand: 4 gradded stone aggregate of 20 mm nominal size) including centering, shuttering, excavation, refilling and disposal of surplus						
		Staticing, excavation, remaining and disposar of surprus	Each	3.00		5,700.00		17,100.0
		TOTAL OF SECTION (I)					61,017.55	78,705.0
						A 07-2		
	DE	ETAIL ESTIMATE OF PHASE-A WORK AT JNV			ими & К	ASHMIR.	,	
1	2.1	EXTERNAL FRESH WATEL Excavating trenches upto 1.5 meter depth in all kind of soil of required width for pipes. including excavation for sockets and dressing of sides ramming of bottoms including getting out the excavated soil & then returning the soil as required, in layers not exceeding 20 cm in depth including consolidating each deposited layer by ramming, watering, etc & disposing of surplus excavated soil as directed within a lead of 50m or as directed at site by enggin-charge.		PLY				
	2.10.1	All kinds of soil						
	2.10.1.1	Pipes, cables etc, not exceeding 80 mm dia.	Rmt	876.32	255.55		223,943.58	

S. No	DSR-2021	DESCRIPTION	UNIT	TOTAL QTY	RATE DSR	RATE NDSR	DSR-2021	NDSR
2	18.09	Providing and fixing Chlorinated Polyvinyl Chloride						
		(CPVC) pipes, having thermal stability for hot & cold water						
		supply including all CPVC plain & brass threaded fittings.						
		This includes jointing of pipes & fittings with one step						
		CPVC solvent cement, trenching, refilling & testing of joints						
		complete as per direction of Engineer in Charge : External						
		work						
	18.9.3	External work 25 mm dia nominal bore	metre	44.83	370.65		16,616.24	
		32 mm dia nominal bore for horizontal surface	Rmt	160.34	435.05		69,755.92	
	10.7.1	for vertical	Kiiit	100.54	455.05		07,755.72	
	a	K & D (3.6+5)=8.6 meter	Rmt	8.60	435.05		3,741.43	
	b	Type-III (3x3+5= 14x3= 42 meter	Rmt	42.00	435.05		18,272.10	
	С	Type-II $(3x3+5)+(3x4+5) = 31$ meter	Rmt	31.00	435.05		13,486.55	
	d	Type-V $(3+5) = 8$ meter	Rmt	8.00	435.05		3,480.40	
	e	Type-IV $(3+5) = 8$ meter	Rmt	8.00	435.05		3,480.40	
	f	Type-Guest House (3+5) = 8 meter	Rmt	8.00	435.05		3,480.40	
	18.9.5	40 mm dia nominal bore	Rmt	352.74	559.20		197,252.21	
		for vertical						
	a	Boys dormitory (3x4+5=17x2)=34 meter	Rmt	34.00	559.20		19,012.80	
	b	Girls dormitory (3x4+5=17x2)=34 meter	Rmt	34.00	559.20		19,012.80	
	C	School Building (3.6x2+5)= 12.20 meter	Rmt	12.20	559.20		6,822.24	
	18.9.6	50 mm dia nominal bore	Rmt	200.66	811.85		162,905.82	
	18.9.7	62.50 mm dia nominal bore	Rmt	117.75	1,576.90		185,679.98	
2	10 10	Drawiding and fiving arm matal arm actions and	 				 	
3	18.19	Providing and fixing gun metal non- return valve of						
		approved quality (screwed end) :						
		65 mm nominal bore						
	18.19.5.1	Horizontal	Nos	2.00	2,093.80		4,187.60	
4	18.33	Construction of Masonary Chamber 60x60x75 inside in						
	10.00.1	Brickwork Cement Mortar 1.6						
	18.33.1	With common burnt clay F.P.S.(non modular) bricks of	Nos	20.00	10,102.50		202,050.00	
		class designation 7.5	INUS	20.00	10,102.30		202,030.00	
5	18.59	Providing and fixing C.I. double acting air valve of						
,	10.59	approved quality with bolts, nuts, rubber insertions etc.						
	18.59.1	50 mm dia	Each	2.00	5,171.75		10,343.50	
_	40.45	D :1: 16:						
6	18.17	Providing and fixing gun metal gate valve with C.I. wheel						
		of approved quality (screwed end) :						
	18.17.1	25 mm nominal bore	Each	3.00	532.35		1,597.05	
		32 mm nominal bore	Each	5.00	589.90		2,949.50	
		40 mm nominal bore	Each	9.00	707.30		6,365.70	
	18.17.4	50 mm nominal bore	Each	2.00	878.25		1,756.50	
_	18.17.5	65 mm nominal bore	Each	1.00	1,490.70		1,490.70	
7								
	18.46	Providing and fixing G.I. Union in GI pipe including						
		cutting and threading the pipe and making long screws etc.						
		complete(New work)						
	18.46.3	25 mm nominal bore	Each	8.00	369.35		2,954.80	
	18.46.4	32 mm nominal bore	Each	8.00	409.45		3,275.60	
		40 mm nominal bore	Each	8.00	523.20		4,185.60	
	18.46.6	50 mm nominal bore	Each	3.00	706.70		2,120.10	
\downarrow		65 mm nominal bore	Each	5.00	994.35		4,971.75	
9	19.19	Providing and fixing in position pre-cast R.C.C. manhole						
		cover and frame of required shape and approved quality						
	_				_			
	19.19.1	LD- 2.5						
	19.19.1.1	Rectangular shape 600*450 mm internal dimensions	Each	28.00	1,255.25		35,147.00	
T		TOTAL SECTION					1,232,458.36	
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S. No	DSR-2021	DESCRIPTION	UNIT	TOTAL QTY	RATE DSR	RATE NDSR	DSR-2021	NDSR

	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) finished 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:						
0	19.8	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
0	10.0.0	: 420 V 00				
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

	ESTIMATE FOR H.T./L.T. PANEL & FE	1				
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	1	C.,	260,000,00	260,000,00	
	ALL RESPECTS UNIVERSAL GLAND PLATES.	1	Set	360,000.00	360,000.00	
2	EMERGENCY SUPPLY PANEL	1				
		1	 			
	Incoming 63A MCCB 35 KA TPN	1	Nos			
	INDICATION LIGHT	3	Nos			
	Out going	3	NOS			
		1	Nos			
	School Building 63A DP	4				
	Boys Dormitory 63A DP	1	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	-	OFF			
	63AMP ALU.BUS-BAR TPN	1	SETS			
	ENCLOSURE	1	SETS			
	1050*1725*300 (20.12SFT)	<u> </u>				
	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	
		1		·		
3	APFC PANEL 100 KVAR	1	Set	115,000.00	115,000.00	
		†			·	
		1				

S.No.	Name of Item	Qty	Unit	Rate	Amount
4	SUB PANEL - 1				
	Incoming				
	MCCB 200A 35KA TPN	1	Nos		
	INDICATION LIGHT	3	Nos		
	BUS-BAR FEEDERS				
	200AMP ALU.BUS-BAR TPN	1	SETS		
	Out going				
	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		
	Emergency Section				
	Incoming				
	MCCB 100A 35KA TPN	1	Nos		
	Out going				
	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				
	Incoming				
	MCCB 320A 35KA TPN	1	Nos		
	INDICATION LIGHT	3	Nos		
	BUS-BAR FEEDERS	5	1403		
	320AMP ALU.BUS-BAR TPN	1	SETS		
	Out going	_	OLIO		
	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 Type 2A MCCB 63A 10KA TPN	1	Nos		
		_	Nos Nos		
	Type 2B MCCB 63A 10KA TPN	1			
	Type 2C MCCB 63A 10KA TPN Type 4 MCCB 32A 10KA TPN	1	Nos		
	Type 4 MICCO 32A TUNA TYN	1	Nos		

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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	1			
	63Amp MCB TPN 10KA	5	Nos	+	
	<u> </u>				

S.No.	Name of Item	Qty	Unit	Rate	Amount
	63Amp MCB TPN 10KA (SPARE)	1	Nos		
	Emergency Section				
	Incoming				
	63Amp MCB DP 10KA	1	Nos		
	Out going				
	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				
	Incoming				
	100Amp MCCB TP 25KA	1	Nos		
	Indication light R,Y,B	3	Nos		
	BUS-BAR FEEDERS		1 100		
	150Amp Aluminum bus-bar TPN	1	Set		
	Out going		Set		
	63Amp MCB TPN 10KA	2	Nos		
	25-32Amp MCB SP 10KA	12	Nos		
	Emergency Section	12	1405		
	Incoming				
	32Amp MCB DP 10KA	1	Nos		
	Out going	1	1103		
	25Amp MCB DP 10KA	2	Nos		
	16AMP MCB SP	6	Nos		
	ENCLOSURE	0	1105		
	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
	PRINCIPAL HOUSE & VC PR PANEL & GUEST				
9	HOUSE				
	Incoming				
	63Amp MCB TPN 10KA	1	Nos		
	Indication light R,Y,B	3	Nos		
	BUS-BAR FEEDERS				
	100Amp Aluminum bus-bar TPN	1	Set		
	Out going				
	16-32Amp MCB 12 SP 10KA	12	Nos		
	32Amp MCB DP 10KA	1	Nos		
	space for 3 PHASE METER				
	Emergency Section				
	Incoming				
	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	2	C-L	22 500 00	100 500 00
	ALL RESPECTS UNIVERSAL GLAND PLATES.	3	Set	33,500.00	100,500.00
10	STREET LIGHT FEEDER PILLER				
10	Incoming				
	100Amp MCCB TPN 25KA	1	Nos		
	Indication light R,Y,B	3	Nos		
	BUS-BAR FEEDERS	3	NOS		
	150Amp Aluminum bus-bar TPN	1	Set		
	±	1	Set		
	Out going	-	NT		
	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
	THE RESTREET OF THE SECTION OF THE S			,	-,200.00
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		1,05		
	Incoming				
	MCCB 32A DP	1	Nos		
	Out going		1105		
	16A DP	4	Nos		
	ENCLOSURE	1	Set		
	900*1150*200 (9SFT)		Set		
	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
	MAINIT DANIEI	1	C-1	260,000,00	260,000,00
	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 02	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
	z /s w/a i				

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. Name of Item Qty Unit Rate Amount 1 Supply installation, testing and commissioning of external post top lantern with following and complete as required. a) 6m high (5.0m above ground) SP 4 STEEL pole as approved, adopting socket at top for fixture mentioned below, base plate 300x300x6mm 63 Nos 11,070.00 697,410.00 and provision for mounting junction box etc.- 1 set c) Erection of Pole in cement concrete 400x400x1000mm deep 1:3:6 ratio cement concrete foundation including excavation, refilling, secured with holding clamps, bolts, nuts, alighnment of poles casting etc. including 100 mm thick lean concrete shall be provided at the bottom. 63 Set 5,150.25 324,465.75 d) LED type 50 Watt (Street Light) light fittings of all types with all 63 Nos 7,897.50 497,542.50 accessories. Suitable size Control box with 1 no. incoming and 2 nos. outgoing terminals and 2 nos. tap-out terminal with 1 no.5A HRC fuses complet 63 Nos 1,350.00 85,050.00 Suitable number (S) 40mm dia Class-B GI Pipes(s) from above control box to upto 0.5 meter below ground level for power cable entry. 63 Nos 742.50 46,777.50 LT CABLES 3 Supply of following size of 1.1 KV grade multicore aluminium cunductor PVC sheathed armoured cable as per IS 1554 4 Core 25 Sqmm 709.39 Rmt. 348.16 246,981.22 4 Core 16 Sqmm 290.21 Rmt. 266.24 77,265.51 3.5 Core 240 Sqmm 252.54 2,060.80 520,434.43 Rmt. 880.64 428,924.52 3.5 Core 95 Sqmm 487.06 Rmt. 2 Core 120 Sqmm 252.54 Rmt. 719.36 181,667.17 2 Core 50 Sqmm 487.06 Rmt. 353.28 172,068.56 197.12 110,710.48 2 Core 16 Sqmm 561.64 Rmt. 2 Core 10 Sqmm 1,653.23 Rmt. 174.08 287,794.28

Total

3,677,091.92

	DET	AIL ESTIMATE OF PHASE-A WORK AT JNV			IMU & KAS	SHMIR.
	1	ESTIMATE FOR EXTERNAL EL				
S.No.	DSR-22	Name of Item	Qty	Unit	Rate	Amount
1	5.6	G.I. Earth pipe electrode with salt/charcoal: 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
	F 2					-
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	10	0.1	(OFF 00	(0.550.00
		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
	F 11	Providence of Charles and Charles in 40				-
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	T 0.00	3.6	- 4.00	
		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				-
/	5.14	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

LT CABLES LAYING

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				
	7.5.1	pipe as required. Upto 35 sq. mm	3,214.47	Rmt	37.00	118,935.39
	7.5.1	Above 35 sq. mm and upto 95 sq. mm	974.12	Rmt	57.00	55,524.84
	7.5.2	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
	7.5.1	Thore 100 sq. film and apto 400 sq. film	202.01	Kiit	134.00	33,040.30
11	14.16	Supplying and laying of following size DWC HDPE				
11	11.10	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	,, 1,12	14110	200.00	350,170,120
	11,10,1	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				
		comperession gland and aluminium lugs for				
		following size of PVC insulated and PVC sheathed/				
		XLPE aluminium conductor cable of 1.1 KV grade as				
	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,				
	2 1 2 1	All kinds of soil				
	2.13.1					
	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
		exceeding 500 min dia.				, : :••
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.				
	19.6.2	150 mm dia. R.C.C. pipe	60.5	Meter	493.10	29,832.55
-		* *				=: ,00 2.30

S.No.	DSR-22	Name of Item	Qty	Unit	Rate	Amount
		Total				2,087,957.11

ESTIMATE FOR EXTERNAL ELECTRIFICATION

S.No.	DSR-21	ESTIMATE FOR EXTERNAL EI Name of Item	Qty	Unit	Rate	DSR-Amount	MR Amount
			~ 3				
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 mainfold 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)					
_		1.001 1.101 1.0.000					

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 A BOQ TUBE WELL INCLUDI			•		IIR.	
S.N.	DESCRIPTION OF ITEM	DSR-21	QTY	UNIT	RATE	AMOUNT DSR	AMOUNT NON-DSR
1	Mobilization & Demoblilization 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-incharge, upto 90 metre depth below ground level.						
	All types of soil	23.1.1					
A	300 mm dia 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.	23.1.1.1	90	M	592.05	53,284.50	
	All types of soil	23.2.1	40		(00 T 0		
В	300 mm dia (90 to 150 mts)	23.21.1	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 -incharge.	23.11					
В	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					
С	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 &						
D	nuts of required size complete. 200 mm clamp	23.14.3	3	Nos	1,827.00	5,481.00	
7	Gravel packing in tubewell construction in accordance with IS: 4097, including providing gravel fine/ medium/ coarse, in required grading & sizes as per actual requirement, all complete as per direction of Engineer-in-charge.	23.8	15.7	Cum	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-incharge.	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	М	219.67		26,360.40
				l	1	<u> </u>	-

TUBE WELL Page No. 1

S.N.	DESCRIPTION OF ITEM	DSR-21	QTY	UNIT	RATE	AMOUNT	AMOUNT
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):					DSR	NON-DSR
	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 botton 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 ner direction of Engineer-in-charge 200 mm nominal size dia	23.4 23.4.3	70	M	1,099.25	76,947.50	-
	TOTAL					492,796.58	225,760.40

TUBE WELL Page No. 2

	SUMMARY OF CIVIL V	VORKS
6. 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

		COST ESTIMATE (UGWT)	ı			
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 up				
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.				
p)		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
		T				540054 40
		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 :				
	5.9.1	Foundations, footings, bases of columns, etc. for mass concrete				
a)	I	Walls (any thickness) including attached pilasters, butteresses,	Sqm	12.49	307.95	3847.07
a) b)	5.9.2	· · · · · · · · · · · · · · · · · ·		189.00	669.55	126544.95
b)		plinth and string courses etc.	Sqm	109.00	009.55	
,	5.9.2 5.9.3		Sqm Sqm	35.00	766.55	
b)		plinth and string courses etc.				26829.25

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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).		Sowi		(13.)
		(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	11.37	Providing and fixing Ist quality ceramic glazed wall tiles conforming to IS: 15622 (thickness to be specified by the manufacturer), of approved make, in all colours, shades except burgundy, bottle green, black of any size as approved by Engineer-in-Charge, in skirting, risers of steps and dados, over 12 mm thick bed of cement mortar 1:3 (1 cement : 3 coarse sand) and jointing with grey cement slurry @ 3.3kg per sqm, including pointing in white cement mixed with pigment of matching shade complete. 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	Sqm	99.45	1063.45	105760.10
		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 13.4.2	12 mm cement plaster of mix 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 13.16.1	6mm cement plaster of mix 1:3 (1 cement : 3 fine sand)	Sqm	25.00	253.05	6326.25
6.04	13.37 13.37.1	White washing with lime to give an even shade : New work (three or more coats)	Sqm	25.00	32.45	811.25
0.05			Oqiii	20.00	02.70	011.20
6.05	13.41.1	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	Sqm	129.00	162.55	20968.95
0.00	40.47		Öqiii	120.00	102.00	2000.90
6.06	13.47	Finishing walls with Premium Acrylic Smooth exterior paint with Silicone additives of required shade:				

Civil BOQ Page No. 2

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, reservior, 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

Civil BOQ Page No. 3

DETAI	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						

ARSTR ACT	FOR RCC	SEPTIC TANK	250 LISERS

S.N.	DSR-21	Description	Qty	Unit	Rate	Amount
1	2.9	Earth work in excavation by mechanical means (Hydraulic excavator) I 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
	2.7.1		101.750	Cuin	323.30	01,103.00
2	2.26.2	Earth work in excavation by mechanical means (Hydraulic excavator) <i>I</i> 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.				
9	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 :				
12		_	74 300	Sam	253.05	18,801.62
14	13.16.1	1:3 (1 cement : 3 fine sand)	74.300	Sqm	253.05	18

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				
13	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

DETAI	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.

ARSTRAC	FOR RCC	SEPTIC TANK	300 LISERS

S.N.	DSR-21	Description	Qty	Unit	Rate	Amount
1	2.9	Earth work in excavation by mechanical means (Hydraulic excavator) <i>I</i> 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
	2.7.1		217.100	Cuin	323.30	113,000.70
2	2.26.2	Earth work in excavation by mechanical means (Hydraulic excavator) <i>I</i> 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
0	F 0.16	Edges of slabs and breaks in floors and walls.				
9	5.9.16 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

DET	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		

	1	ABSTRACT FOR SEPTIC TANI				
S.No.	DSR-21	Description	Qty	Unit	Rate	Amount
1	2.8	Earth work in excavation by mechanical means (Hydraulic excavator) <i>I</i> 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.
2	2.26.1	Earth work in excavation by mechanical means (Hydraulic excavator) <i>I</i> 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.
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.
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.
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.
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.
b)	5.9.2	Walls (any thickness) including attached pilasters, butteresses, plinth and string courses etc.	75.450	Sqm	669.55	50,517.
7	5.9.3	Suspended floors, roofs, landings, balconies and access platform.	11.970	Sqm	766.55	9,175.
8	5.9.5	Lintels, beams, plinth beams, girders, bressumers and cantilevers.	2.373	Sqm	608.35	1,443.
9	5.9.16	Edges of slabs and breaks in floors and walls.	47.440	36.		
	5.9.16.1	Under 20 cm wide	17.440	Meter	181.90	3,172.
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.

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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 coment plactor of mire.				
12	13.16.1	6 mm cement plaster of mix : 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

BOQ ST 100 Page No. 2

	Abstract Cost of RR Stone Masonary Toe Wall (Based on DSR-2021)								
S.No.	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 shttering - 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 :				
<u> </u>	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 CONSTRUCTON 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 CONSTRUCTON OF BOUNDARY WALL & MAIN ENTRANCE GATE JNV PHASE-A & B WORK AT JNV RAMBAN, JAMMU & KASHMIR

		ABSTRACT OF COS (RCC Frame Structure Bound				
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.	Quantity	Cinx	Xuit	DON TAMOUN
	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.	2 102 01	Curre	252.05	F24 207 04
			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, stud tied 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-incharge, 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 CONSTRUCTON OF BOUNDARY WALL & MAIN ENTRANCE GATE JNV PHASE-A & B WORK AT JNV RAMBAN, JAMMU & KASHMIR

S.No.	DSR-21	Abstract Description	Quantity	Unit	Rate	DSR-21 Amount	MR-Amount
5.No.	D5K-21	Earth work in excavation by mechanical means (Hydraulic	Quantity	Unit	Kate	DSK-21 Amount	MK-Amount
1	2.8.1	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)	20.60	V.	11475	4.424.00	
			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	
				O		.,= 0	

Estimate Gate

S.No.	DSR-21	Description	Quantity	Unit	Rate	DSR-21 Amount	MR-Amount
		Providing & fixing glass panes with putty and glazing clips	-				
19	10.30	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	
		0 1		1		-,	
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 15v2 mm lugs 10 cm long	017.00	V.	146 FF	124 200 E4	
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-incharge, (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	
			<u> </u>				

S.No.	DSR-21	Description	Quantity	Unit	Rate	DSR-21 Amount	MR-Amount
OII (OI	13.8	Providing and applying white cement based putty of average	Quality	CILIT	11110	2011 21 121110 4111	1/11/ 1111/0411/
30		thickness 1 mm, of approved brand and manufacturer, over					
30		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	
31	13.10.1	onini Cennig Haster 1.5	43.24	Sqiii	255.05	10,941.00	
32	13.41.1	Oil Bound Distemper	70.15	Sqm	162.55	11,402.88	
33	13.47.1	Prenimun Acrylic Smooth Exterior Paint	177.44	Sqm	162.35	28,807.38	
		With ready mixed pink or Grey primer of approved brand					
34	13.50.1	and manufacture on wood work (hard and soft wood)	14.05	C	(1.45	001.01	
		(14.35	Sqm	61.45	881.81	
		With ready mixed red oxide zinc chromate primer of					
35	13.50.3	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	
	11.26	Kota stone slab flooring over 20 mm (average) thick base laid					
	11.40	over and jointed with grey cement slurry mixed with pigment					
37		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	
	11.37	Providing and laying Ceramic glazed floor tiles of size					
	11.57	300x300 mm (thickness to be specified by the manufacturer)					
		of 1st quality conforming to IS: 15622 of approved make in					
38		colours such as White, Ivory, Grey,					
36		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.	1.00	C	025 (0	1 (04 00	
			1.80	Sqm	935.60	1,684.08	
	8.31	Providing and fixing Ist quality ceramic glazed wall tiles					
		conforming to IS: 15622 (thickness to be specified by the					
		manufacturer), of approved make, in all colours, shades					
		except burgundy, bottle green, black of any size as approved by Engineer-in-Charge, in skirting, risers of steps and dados,					
39		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	
		Supplying and filling in plinth with sand under floors,					
40	2.27	including watering, ramming, consolidating and dressing					
-	/	complete.	14.21	Cum	2,161.20	30,710.65	
		Providing and laying 60mm thick faciory made cement					
		concrete interlocking paver block of M -30 grade made by					
	4	block making machine with strong vibratory compaction, of approved size, design & shape, laid in required colour and					
41	16.68	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	
	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,					
42		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:					
			l				

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	1.00	Cash.	F 701 0F	F 701 0F	
		mm with integral type foot rests	1.00	Each	5,781.35	5,781.35	
	17.7	Providing and fixing wash basin with C.I. brackets, 15 mm					
	17.7	C.P. brass pillar taps, 32 mm C.P. brass waste of standard					
43		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						
		per IS: 3989	2.00	meter	1,077.40	2,154.80	
4 5	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	
	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					
46		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	
	17. 38	Providing and fixing bend of required degree with access door,					
47		insertion rubber washer 3 mm thick, bolts and nuts complete.					
	47.00.4	400					
	17.38.1	100 mm Sand cast iron S&S as per IS - 3989	1.00	Each	E0E (0	507.60	
	17.38.2	75 mm	1.00	Eacii	597.60	597.60	
		Sand cast iron S&S as per IS- 3989	1.00	Each	4E2.40	4E2.40	
	17.30.2.2	Sand Cast IIOn Sas as per 10- 3909	1.00	Lacii	453.40	453.40	
48	17. 39	Providing and fixing plain bend of required degree.					
10	17.39.1	100 mm					
		Sand cast iron S&S as per IS : 3989	1.00	Each	439.75	439.75	
	17.39.2	75 mm	1.00		10,110	1070	
	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	
		75 mm dia					
	17.40.2.2	Sand cast iron S&S as per IS - 3989	1.00	Each	405.25	405.25	
	17. 43	Providing and fixing single equal plain junction of required					
50		degree with access door, insertion rubber washer 3mm thick, bolts and nuts complete.					
	17 10 1	•					
	17.43.1	100x100x100mm Sand cast iron S&S as per IS - 3989	1.00	Each	701 40	F01 40	
	17.43.1.2	75x75x75mm	1.00	Lauli	731.40	731.40	
		Sand cast iron S&S as per IS - 3989	1.00	Each	573.80	573.80	
	11.40.4.2	Cana Cast IIOII Cac as per 10 - 0303	1.00	Lucii	3/3.80	3/3.80	
	17. 44	Providing and fixing single equal plain junction of required					
51		degree					
	17.44.1	100x100x100mm					
		Sand cast iron S&S as per IS - 3989	1.00	Each	707.30	707.30	
	17.44.2	75x75x75mm					
		Sand cast iron S&S as per IS - 3989	1.00	Each	498.90	498.90	
		·					
	17. 55	Providing and fixing door piece, insertion rubber washer 3mm					
	İ	thick, bolts & nuts complete :					
52						l	
52	17.55.1	100 mm					
52		100 mm Sand cast iron S&S as per IS - 3989	1.00	Each	611.00	611.00	
52			1.00	Each	611.00	611.00	

S.No.	DSR-21	Description	Quantity	Unit	Rate	DSR-21 Amount	MR-Amount
			Ž				
53	17. 56	Providing and fixing terminal guard :					
	17.56.1	100 mm	1.00		400 ==		
		Sand cast iron S&S as per IS - 3989	1.00	Each	439.75	439.75	
	17.56.2	75 mm Sand cast iron S&S as per IS - 3989	1.00	Each	011 55	011 55	
	17.50.2.2	Sand cast from S&S as per 1S - 3989	1.00	Each	311.55	311.55	
54	17. 57	Providing and fixing collar :					
34	17.57.1	100 mm					
		Sand cast iron S&S as per IS - 3989	1.00	Each	439.75	439.75	
	17.57.1.2	75 mm	1.00		437.73	437.73	
		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:					
		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	

18.8 Providing and fixing Chloromated Polyvnyt Chloride (CPVC) pipes, having themsel stability for hot & cold water supply, including all CPVC plan & brass threaded fittings, lic fixing the pipes & fittings with crae step CPVC solvent coment and the pipes & fittings with crae step CPVC solvent coment and the stating of pints complete as per direction of Engineer in Charge. Concealed work, including cutting chases and making good the walls etc. 18.1.1 If mm nominal outer dia Pipes 18.1.3 Making connection of G.I. distribution branch with G.I. main of concealed work in cluding distribution branch with G.I. main of the walls etc. 18.1.3 Making connection of G.I. distribution branch with G.I. main of concealed work in cluding distribution branch with G.I. main of the walls etc. 18.1.3 Solvent of the pipe etc. complete: 18.1.4 If mm nominal bore 18.1.5 Providing and fixing brass stop cock of approved quality: 18.1.6 If firm nominal bore 18.1.7 Providing and fixing gun metal gate valve with C.I. wheel of approved quality (corewed end): 18.1.7 If a providing and fixing sum and gund explained to the providing and fixing sum and providing the providing pand fixing sum distribution of a providing and fixing brass stop cock of approved quality, high color pressure, with plastic ficats complete: 18.1.8 Providing and fixing brass terrule with C.I. mouth cover concluding bring and fixing brass ferrule with C.I. mouth cover coulding bring and fixing brass ferrule with C.I. mouth cover coulding bring and fixing brass ferrule with C.I. mouth cover coulding bring and fixing brass ferrule with C.I. mouth cover coulding bring and fixing brass ferrule with C.I. mouth cover coulding bring and fixing brass ferrule with C.I. mouth cover coulding bring and fixing brass ferrule with C.I. marked, with cover and suitable locking anneament and making necessary holes for intel, outlet and overflow pipes but without fittings and the base apport for trank. 18.2.1 If mm nominal bore 18.4.8 Rectangular tank 18.5.9 Providing and fi	0	D.C.	5		** .		Don ci i	140 :
pipes, having thermial stability for hot & cold water supply, including all CPVC plan & Drass through defittings, life from the pipe with clamps at 1.00 m spacing. This includes jointing of plants of criting classes and making good the same including charge. Concealed work, including cutting chases and making good the water of criting classes and making good the water of criting classes. The concealed work, including cutting chases and making good the water of criting classes. The concealed work, including cutting chases and making good the water of classes. The concealed work, including cutting chases and making good the water of classes. The concealed work, including cutting and fixing sease by providing and fixing tee, including cutting and threading the pipe etc. complete: 18.13.1 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 Jis 19.0 40 mm nominal bore 18.15.1 The morphism bore 18.16.1 The Providing and fixing brass stop cock of approved quality: 18.17.1 Providing and fixing brass stop cock of approved quality: 18.18.1 The providing and fixing brass stop cock of approved quality: 18.18.1 Providing and fixing brass stop cock of approved quality. 18.18.1 Providing and fixing brass ferule with C.I. wheel of approved quality (curewed end): 18.18.2 Serm nominal bore 18.20.3 Providing and fixing brass ferrule with C.I. mouth cover including boring and tapping the main: 18.20.3 Serm nominal bore 18.21.2 Serm nominal bore 18.21.2 Serm nominal bore 18.22.3 Serm nominal bore 18.23.3 Serm nominal bore 18.24.5 Providing and placing on terrace (at all floor levels) polyetylene water storage tank, IS: 12701 marked, with cover and sultake locking arrangement and marked without riting and the base support for tank. 18.24.1 Serm nominal bore 18.25 Providing and fixing C.P. brass blo cock of approved quality conforming to IS standards and weighing not ease than 100 grass. 18.25 P	S.No.	DSR-21	Description	Quantity	Unit	Rate	DSR-21 Amount	MR-Amount
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following sizes by providing and fixing tee, including cutting and threading the pipe etc. complete: 1.00 Each 757.10 757.10								
following sizes by providing and fixing tee, including cutting and threading the pipe etc. complete: 1.00 Each 757.10 757.10								
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66 18.17 Providing and fixing gun metal gate valve with C.I. wheel of approved quality (screwed end): 18.17.1 Z5mm nominal bore 1.0.0 Each 532.35 532.35 532.35 532.35 18.18.18 Providing and fixing ball valve (brass) of approved quality. High or low fixing ball valve (brass) of approved quality. High or low fixing ball valve (brass) of approved quality. High or low fixing ball valve (brass) of approved quality. High or low fixing ball valve (brass) of approved quality. High or low fixing uplastic floats complete: 18.20 Providing and fixing brass ferrule with C.I. mouth cover including boring and tapping the main: 18.20.3 Z5 mm nominal bore 1.0.0 Each 447.00 447.00 447.00 18.21.2 A5 cm length brass unlons: 18.21.2.1 I5 mm nominal bore 1.0.0 Each 85.20 85.20 18.21.2 I5 mm nominal bore 1.0.0 Each 85.20 85.20 18.21.2 I5 mm nominal bore 1.0.0 Each 85.20 85.20 19.2 It length length water storage tank, Is 12701 man dead, with cover and base support for tank. 18.48 Providing and placing on terrace (at all floor levels) polyethylene water storage tank, Is 12701 man dead, with cover and base support for tank. 18.49 Providing and fixing C.P. brass bib cock of approved quality conforming to Is.8831: 18.49 Providing and fixing C.P. brass long body bib cock of approved quality conforming to Is.8831: 18.51 Providing and fixing C.P. brass stop cock (concealed) of standard design and of approved make conforming to Is.8931. 18.51 I5 mm nominal bore 1.0.0 Each 708.40 708.4	65			1.00	Each	202.05	202.05	
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High or low pressure, with plastic floats complete: 1.00 Each 399.15 399.15 18.20 Providing and fixing brass ferrule with C.I. mouth cover including boring and tapping the main: 18.20 Providing and fixing uplasticised PVC connection pipe with brass unions: 18.21 Providing and fixing uplasticised PVC connection pipe with brass unions: 18.21.21 15 mm nominal bore 1.00 Each 447.00 Each 447.00 18.21.21 15 mm nominal bore 1.00 Each 85.20 85.20 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. 18.48 Rectangular tank 250.00 Lite 9.70 2,425.00 18.49 Providing and fixing C.P. brass bib cock of approved quality conforming to IS:8931: 18.51 15 mm nominal bore 1.00 Each 708.40 708.40 18.52 Providing and fixing C.P. brass long body bib cock of approved quality conforming to IS standards and weighing not less than 690 gms. 18.52 Providing and fixing C.P. brass stop cock (concealed) of standard design and of approved make conforming to IS:8931. 18.52 Providing and fixing C.P. brass stop cock (concealed) of standard design and of approved make conforming to IS:8931. 18.53 Providing and fixing C.P. brass angle valve for basin mixer and geyser points of approved quality conforming to IS:8931. 18.58 Providing and fixing C.P. brass angle valve for basin mixer and geyser points of approved quality conforming to IS:8931.							-	
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18.20.3 25 mm nominal bore 1.00 Each 447.00 4		10 20	Draviding and fiving bross farrule with C.L. mouth saver					
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18.21.2 45 cm length 18.21.2.1 15 mm nominal bore 18.21.2 15 mm nominal bore 18.22 18.25 1 15 mm nominal bore		18.21	Providing and fixing uplasticised PVC connection pipe with					
18.21.2.1 15 mm nominal bore 1.00 Each 85.20 85.20 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. 18.48 Rectangular tank 250.00 Lite 9.70 2,425.00 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 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 18.52 Providing and fixing C.P. brass stop cock (concealed) of standard design and of approved make conforming to IS:8931. 18.52 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 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 18.58 Providing and fixing PTMT grating of approved quality and colour.	69							
18.48 Providing and placing on terrace (at all floor levels) polyethylene water storage tank, IS: 12701 marked, with cover and sultable locking arrangement and making necessary holes for inlet, outlet and overflow pipes but without fittings and the base support for tank. 18.48 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 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 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 708.40 708.40 708.40 708.40 708.40 708.40 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 504.75 504.75		18.21.2	45 cm length					
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 10.00 Each 434.20 434.20 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 10.00 Each 708.40 708.40 708.40 708.40 18.52 Providing and fixing C.P. brass stop cock (concealed) of standard design and of approved make conforming to IS:8931. 18.52 In m nominal bore. 10.00 Each 594.75 594.75 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 In m nominal bore 10.00 Each 500.35 500.35 18.58 Providing and fixing PTMT grating of approved quality and colour.		18.21.2.1	15 mm nominal bore	1.00	Each	85.20	85.20	
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 10.00 Each 434.20 434.20 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 10.00 Each 708.40 708.40 708.40 708.40 18.52 Providing and fixing C.P. brass stop cock (concealed) of standard design and of approved make conforming to IS:8931. 18.52 In m nominal bore. 10.00 Each 594.75 594.75 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 In m nominal bore 10.00 Each 500.35 500.35 18.58 Providing and fixing PTMT grating of approved quality and colour.								
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18.49.1 15 mm nominal bore 1.00 Each 434.20 434.20								
18.49.1 15 mm nominal bore 1.00 Each 434.20 434.20 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 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 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.	71	18.49						
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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 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. 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 18.58 Providing and fixing PTMT grating of approved quality and colour.		4						
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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.	73							
T4 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 18.58 Providing and fixing PTMT grating of approved quality and colour.								
and geyser points of approved quality conforming to IS:8931 18.53.1 15 mm nominal bore 1.00 Each 500.35 500.35 18.58 Providing and fixing PTMT grating of approved quality and colour.		18.52.1	15 mm nominal bore.	1.00	Each	594.75	594.75	
and geyser points of approved quality conforming to IS:8931 18.53.1 15 mm nominal bore 1.00 Each 500.35 500.35 18.58 Providing and fixing PTMT grating of approved quality and colour.								
18.53.1 15 mm nominal bore 1.00 Each 500.35 500.35 18.58 Providing and fixing PTMT grating of approved quality and colour.	74	18. 53						
75 18.58 Providing and fixing PTMT grating of approved quality and colour.		10.75			_			
75 colour.		18.53.1	15 mm nominal bore	1.00	Each	500.35	500.35	
75 colour.		10 50	Droviding and fiving DTMT grating of approved quality and					
	75	10.30						
18.58.1 Circular type.		18 59 1						
10.00.1 Official type.		10.00.1	Onoulai type.	L				

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	
	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					
76		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	
		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,					
77	1.8.3	suitable GI box and earthing the point with 1.5 sq.mm FRLS					
		PVC insulated copper conductor single core cable etc. as					
		required.				44 =0= 00	
		TAY's transfer of the state of	12.00	Sqm	966.00	11,592.00	
		Wiring for circuit/ submain wiring along with earth wire with the following sizes of FRLS PVC insulated copper conductor,					
78	1.14	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	
		Supply of 15W SURFACE MOUNTED LED with all	20.00		110.00	2,720.00	
79	MR	accessories as per standard item(Such as Panasonic					
		ADL04R156 or Equivalent).	12.00	Rm	1,840.00		22,080.00
		Supply and fixing two module stepped type electronic fan					
00	1.05	regulator on the existing modular plate switch box including					
80	1.25	connections but excluding modular plate etc. as required.					
			1.00	each	342.00	342.00	
		Supply of AC 230/250 volts, 50 HZ ceiling fan with					
) (D	standard down rod, blades, 2 nos. caps & regulator etc. ISI					
81	MR	with 5 star marked & energy efficient complete as required. (Such as Havells Velocity/Velocity HS or Equivalent).					
		Guerras Travells velocity velocity 115 of Equivalent).					
		1200 mm sweep	1.00	each	2,470.00		2,470.00
		Supply of AC 230/250 volts, 50 HZ exhaust fans including					
		providing nuts, bolts, mounting FRLSame and other					
82	MR	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
	1.45	Installation, testing and commissioning of ceiling fan					·
		including wiring the down rod of standard length (upto 30					
83		cm.) with 1.5 sq. mm. FRLS PVC insulated, copper conductor,					
63		single core cable, including providing and fixing phenolic					
		laminated sheet cover on the fan box etc. as required.					
			1.00	00 =1-	203.00	202.00	
	1.50	Installation of exhaust fan in the existing opening, including	1.00	each	203.00	203.00	
84	1.50	making good the damage, connection, testing, commissioning					
04		etc. as required					
	1.50.1	Upto 450 mm sweep	1.00	each	363.00	363.00	
	MR	Supply, Installation, testing and commissioning Wipro Garnet					
85		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

		ANALYSIS OF	HING RATE								
S.N.	DSR-21	Description of Item	Unit	_	os	Length	Width	Height	Quantity	Rate	Amount
1	16.11	Dry stone mitching 22 F are thick including symply of									
		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	Sqm	1	1	1.00	802.42		802.42		
		land 757x6% =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	Sqm	1	1	1.00	366.50		366.50		
		slopy land 345.75x6% = 366.50	•								
		Extra for building to Toe wall as per Lop	Sqm	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	Sqm	1	1	1.00	116.60		116.60		
		land 110x6% = 116.60	1	-							
		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		
		Extra for building to foe wan as per Lop	oqiii	1	1	11,71	2.43		100.00		
		IAVI DI							+	+	
		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	Cama	1	1	1.00	116.60		116.60		
		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	Sqm	1	1	1.00	381.60		381.60		
		land 360x6% = 381.60									
		Extra for building to Toe wall as per Lop	Sqm			17.38	2.40		41.71		
			Sqm	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	Sqm	1	1	1.00	212.00		212.00		
		land 200x6% = 212									
		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	Sqm	1	1	1.00	112.36		112.36		
		land 106x6% = 112.36								+	
		Extra for building to Toe wall as per Lop Vice Principal Residence	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		
			Sqm	1	1	3.83	2.31		8.85		
		Extra for building to Toe wall as per Lop Guest House	JqIII	1	1	5.63	2.31		0.00	+	
		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	- qm	_	_	11,20	1.00		11,20		
		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	- 1	Ť	Ė	2.00			5,104.69	821.95	4,195,799.
		* **	l	-	-	-			-,		_,_,_,,,,,

Deep states petiting 22.5 cm three fails in courses and required profile with humanner detreed street, having a so sole loss than 15 cm, with minimum depth of 20 cm including prespansing the bedding street of the sole of the of the s	2	16 72	T			l				I	
Product of molic with hammer decoded stores having no added less than 15 co. with minimum of updated 72 cm including preparing the bedding surface or. all completes (injurement of stores to be made separately).	2	16.73	Dry stone nitching 22.5 cm thick laid in courses and								
no side less fram 15 cm, with minimum expects of 20 m including preparative the bedding started and active the bedding started by the bedding started and active the bedding started and special started and											
Commission programs the bedding surface occ. all complete. [Payment for Status to be made separately]. School Building School Buildi			, ,								
Compute New York Stone to be made expansively School Building Compute New York Stone Com											
Schools Building											
Section Sect											
Section Sect			<u> </u>	_							
State for sology land 51,226/F = 54.29 Sqm 1 1 1.00 54.29 54.29				Sqm	1	1	1.00	780.86	780.86		
Extra for braidings to Toe wall as per Lop Sqn 1 1 1.00 80.42 802.42			Porch area on Ground floor area 51.22 and add 6%	Cam	1	1	1.00	54.20	54.20		
Stroken & Donning Square			extra for slopy land 51.22x6% =54.29	Sqiii	1	1	1.00	34.29	34.29		
Section Sect			Extra for building to Toe wall as per Lop	Sqm	1	1	84.91	3.03	257.28		
Series Company Compa											
Name			1.7	Sam	1	1	1.00	802.42	802.42		
Stysy Demittery Square S											
Son Ground Moor area %45-78-6, and add 6% extra for solony 1				Sqm	1	1	66.66	3.59	239.31		
Slopy land 345.75x6% = 366.50 Sgm 1 1 1.00 366.50 366.50											
Solyy and Soly Solid Soly Soly Soly Soly Soly Soly Soly Soly				Sam	1	1	1.00	366.50	366.50		
Warden Residence of Boys Dormitory on Ground floor area 110 and add 6% extra for slopy land 1106.8% = 116.6% 116.60 116			1	•							
Warden Residence of Boys Dormitory Sqm 1 1 1.00 116.60 116.60			Extra for building to Toe wall as per Lop	_							
India 11.66 India Indi				Sqm	1	1	44.71	1.93	86.29		
Individual Content Individ			Warden Residence of Boys Dormitory								
				Sqm	1	1	1.00	116.60	116.60		
Suppy and 345.75 and add 6% extra for slopy land 315.75 and 315.75 and add 6% extra for slopy land 315.75 and 315				<u> </u>							
Slopy land 345.75%% = 366.50 Sqm											
Extra for building to Toe wall as per Lop				Sqm	1	1	1.00	183.25	183.25		
Warden Residence of Boys Dormitory On Ground floor area 110 and add 6% extra for slopy In the control of			**	Sam	1	1	44.71	2.43	108.65		
Indiand 110.6% 116.60 11			Extra for building to foe wan as per Esp	oqiii	_	_	11.71	2.10	100.00		
Indiand 110.6% 116.60 11			Warden Residence of Roys Dormitory								
Internation Sqm 1 1 1.00 116.60 11											
Some				Sqm	1	1	1.00	116.60	116.60		
Slopy land 345,75x6x = 366.50			Girls Dormitory								
Extra for building to Toe wall as per Lop Sqm 1 1 44.71 2.43 108.65			on Ground floor area 345.75 and add 6% extra for	C	4	1	1.00	066 50	266 50		
Warden Residence of Girls Dormitory Sqm 1 1 44.71 2.17 97.02			slopy land 345.75x6% = 366.50	Sqm	1	1	1.00	366.30	366.30		
Warden Residence of Girls Dormitory on Ground floor area 110 and add 6% extra for slopy land 110&6 = 116.60 116.60			Extra for building to Toe wall as per Lop	Sqm	1	1	44.71	2.43	108.65		
On Ground floor area 110 and add 6% extra for slopy Sqm 1 1 1.00 116.60 116.60				Sqm	1	1	44.71	2.17	97.02		
land 110x6% = 116.60											
Type-II				Sam	1	1	1.00	116.60	116.60		
Sqm 1 1 1.00 381.60 381.60 381.60				oqiii	_		1.00	110.00	110.00		
Inad 360x6% = 381.60			**								
Extra for building to Toe wall as per Lop Sqm 1 1 17.38 2.40 44.71				Sqm	1	1	1.00	381.60	381.60		
Sqm 1 1 18.38 2.40 44.11				•	1		17.00	2.40	41 71		
Type-II			Extra for building to Toe wall as per Lop								
Type-II											
Sqm 1 1 1.00 212.00 212.00 212.00				Sqm	1	1	15.38	3.53	54.29		
Land 200x6% = 212											
Extra for building to Toe wall as per Lop Sqm 1 1 15.15 4.31 65.30				Sqm	1	1	1.00	212.00	212.00		
Sqm 1 1 15.15 2.62 39.69						1	15.15	A 21	45.20		
Principal Residence Sqm 1 1 1.00 112.36 112.36			Extra for building to foe wall as per Lop								
On Ground floor area 106 and add 6% extra for slopy land 106x6% = 112.36			Principal Residence	oqm	1	1	15.15	2.02	39.09		
land 106x6% = 112.36											
Extra for building to Toe wall as per Lop Sqm 1 1 12.15 1.60 19.44				Sqm	1	1	1.00	112.36	112.36		
Vice Principal Residence Sqm 1 1 1.00 95.40 95.40 In Ground floor area 90 and add 6% extra for slopy land 90x6% = 95.40 Sqm 1 1 1.00 95.40 95.40 In Extra for building to Toe wall as per Lop Sqm 1 1 3.83 2.31 8.85 In Guest House In Ground floor area 60 and add 6% extra for slopy land 60x6% = 63.60 Sqm 1 1 1.00 63.60 63.60 In Extra for building to Toe wall as per Lop Sqm 1 1 11.28 1.00 11.28 In Ground floor area 40 and add 6% extra for slopy land 40x6% = 42.40 Sqm 1 1 1.00 42.40 42.40 In Extra for building to Toe wall as per Lop Sqm 1 1 15.00 15.00 In Total Total 5,104.69 542.85 2,771,080.97				Sam	1	1	12 15	1.60	19 44		
on Ground floor area 90 and add 6% extra for slopy land 90x6% = 95.40 Extra for building to Toe wall as per Lop Guest House on Ground floor area 60 and add 6% extra for slopy land 60x6% = 63.60 Extra for building to Toe wall as per Lop Sqm 1 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 Extra for building to Toe wall as per Lop Sqm 1 1 1 1.00 63.60 Extra for building to Toe wall as per Lop Sqm 1 1 1 1.00 42.40 Extra for building to Toe wall as per Lop Sqm 1 1 1 1.00 42.40 Extra for building to Toe wall as per Lop Sqm 1 1 1 1.00 42.40 Extra for building to Toe wall as per Lop Total Sqm 1 1 1 15.00 1.00 Total				- Ym	Ė	_	12.10	1.00	17.11		
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 Total 5,104.69 542.85 2,771,080.97			on Ground floor area 90 and add 6% extra for slopy								
Guest House				Sqm	1	1	1.00	95.40	95.40		
Guest House			Extra for building to Toe wall as per Lop	Sqm	1	1	3.83	2.31	8.85		
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 Extra for building to Toe wall as per Lop Sqm 1 1 15.00 1.00 15.00 Total Total Total Total 5,104.69 542.85 2,771,080.97			Guest House	1							
Extra for building to Toe wall as per Lop Sqm 1 1 11.28 1.00 11.28			on Ground floor area 60 and add 6% extra for slopy	C ~	1	1	1.00	62.60	(2.60		
ESS			land 60x6% = 63.60	3qm	1	1		03.60	63.60		
on Ground floor area 40 and add 6% extra for slopy land 40x6% = 42.40 Extra for building to Toe wall as per Lop Total Sqm 1 1 1 1.00 42.40 42.40 42.40 42.40 5,104.69 542.85 2,771,080.97			Extra for building to Toe wall as per Lop	Sqm	1	1	11.28	1.00	11.28		
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											
Extra for building to Toe wall as per Lop Sqm 1 1 1 15.00 1.00 15.00 5,104.69 542.85 2,771,080.97			= *	Sam	1	1	1.00	42 40	42.40		
Total 5,104.69 542.85 2,771,080.97											
				Sqm	1	1	15.00	1.00			
									5,104.69	542.85	
			Total								6,966,880.92

	RCC CONNECTING PATH ANALYSIS OF RATE FOR RCC CONNECTING PATH										
S.N.	DSR-21 Description of Item				Width	Height	Quantity	Rate	Amount		
		School Building									
			Sqm			7.50	2.46		36.90		
		Kitchen & Dinning	Sqm	1	1	7.50	25.69		192.68		
		Kitchen & Dinning	Sqm	1	1	5.55	11.10		61.61		
			Sqm		1	5.26	11.10		58.39		
		Boys Dormitory	- 1			0.1.0			20101		
			Sqm	1	1	2.70	3.00		8.10		
			Sqm		1	12.44	3.83		47.65		
			Sqm		1	3.93	12.21		47.99		
		OFFICE OF THE PARTY OF THE PART	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	12.44	3.83		47.65		
			Sqm		1	3.93	12.21		47.99		
			Sqm		1	2.80	3.00		8.40		
		Girls Dormitory	_								
			Sqm		1	3.10	2.46		7.63		
			Sqm		1	4.23	12.44		52.62		
			Sqm		1	3.00	2.46		7.38		
		Torre III	Sqm	1	1	12.44	4.13		51.38		
		Type-III	C	1	1	4.00	2.46		10.05		
\vdash			Sqm Sqm		2	4.98 6.31	2.46 2.46		12.25 31.05		
		Type-II	əqiii	1		6.31	2.46		31.03		
			Sqm	1	1	2.61	2.46		6.42		
			Sqm		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									
		IVOLUTE D II	Sqm	1	1	4.27	2.46		10.50		
		UGWT Pump House	Cama	1	1	2.50	2.46		6.15		
		Total	Sqm Sqm	1	1	2.50	2.46		791.69		
		10141	Sqiii						791.09		
		RATE ANALYSIS OF 10	SQM .	AR	EA (OF RCC C	ONNECTI	NG PAT	Н		
1		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.									
		All works upto plinth level 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	11,995.95
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					Co-effi-				
		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	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									
SI. No.	DSR- 2021	Description of Item	No	L	В	Н	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	0 1 1 6 1								
		Cement mortar 1:6 (1 cement : 6 coarse sand)	1	1.00	0.22	0.00	0.21			
			1	1.00	0.23	0.90 Total	0.21	Cum	6658.25	1398.23
						TOtal	0.21	Cum	0038.23	1330.23
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
		<u> </u>			ļ				00.14	
Cost for 1.00 Mtr Long									2,375.90	
								Cost for I	Per Mtr Long	2,375.90
Say Rs. Total Length Of Wall										2,376.00 204.63
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.

	1	ABSTRACT FOR WASTE FO	OD TANK	1		
S.No.	DSR-21	Description	Qty	Unit	Rate	Amount
1	2.8	Earth work in excavation by mechanical means (Hydraulic excavator) <i>I</i> 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) <i>I</i> 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
	2.25					
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 5.9.16.1	Edges of slabs and breaks in floors and walls. Under 20 cm wide	9.840	Meter	181.90	1,789.90
	5.9.10.1	Officer 20 cm white	7.010	1,10001	101.90	1,709.90

Page No. 1

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				
	F 00 (and binding all complete.	100 500	Va	90.65	2711 70
	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				
10	11.5	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
				- 4	720.00	2), 66.96
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
	10.10					
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

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