

**बिहार सरकार**  
**GOVERNMENT OF BIHAR**  
**नगर विकास एवं आवास विभाग**

**BILL OF QUANTITY**

NAME OF WORK	: The Construction of SWM Plant of 5 TPD Dry (MRF) at Nagar Panchayat, Murliganj under District- Madhepura.
ESTIMATED COST	: Rs. 1,27,00,509.00
PANCHAYAT	: Murliganj
DISTRICT	: Madhepura
NAME OF DIVISION	: Nagar Vikas Pramandal, Madhepura-Supaul, Madhepura
NAME OF CIRCLE	: Nagar Vkas Anchal, Saharsa

**BILL OF QUANTITY for the Construction of SWM Plant of 5 TPD Dry (MRF) at Nagar Panchayat,  
Murliganj under District- Madhepura.**

	Item No.	Description	Nos	Quantity	Unit	Rate (Rs.)	Amount (Rs.)
		<b>Toilet facility (2 Nos.) Estimate-A-1</b>					
1	2.29.1	Surface dressing of the ground including removing vegetation and inequalities not exceeding 15 cm deep and disposal of rubbish, lead upto 50 m and lift upto 1.5 m	2	0.0600	/100SQM	1355.40	162.65
2	2.8	Excavation work in foundation trenches or drains not exceeding 1.5 m in width or 10 sq m on plan including dressing of sides and ramming of bottoms lift upto 1.5m, including getting cut the excavated soil and disposal of surplus excavated soils as directed, within a lead of 50 m.	2	21.0300	CUM	360.70	15,171.04
3	2.2	Earthwork in rough excavation, banking excavated earth in layer not exceeding 20cm in depth, breaking clods watering, rolling each layer with 1/2tonne roller or wooden or steel rammer sand rolling every 3rd and top most layer with power roller of minimum 8 tonnes and dressing up in embankments for roads, floodbanks, marginal banks and guid ebanks or filling up ground depressions. lead upto 50 m and lift upto 1.5 m.					
	2.2.1	All kinds of soil	2	0.9000	CUM	386.60	695.88
4	2.26	Filling available excavated earth (excluding rock) intrenches, plinth, sides of foundations etc. in layers not exceeding 20cm in depth: consolidating each deposited layer by ramming and watering lead	2	18.9600	CUM	123.90	4,698.29
5	2.28	Supplying and Filling in plinth with local sand and under floors including, watering, ramming consolidating and dressing complete.	2	0.6300	CUM	287.30	362.00
6	11.72	Providing designation 100 A one brick flat soling joints filled with local sand including cost of watering, taxes, royalty all complete as per building specification and direction of E/I.	2	10.0100	SQM	283.30	5,671.67
7	4.1	Providing and laying in position cement concrete of specified grade excluding the cost of centring and shuttering-all work upto plinth level.					
	4.1.2	Cement concrete grade M-20 (Nominal Mix) with 20 mm maximum size of stone aggregate	2	0.4700	CUM	4420.80	4,155.55
8	5.33A.2.2	Providing and laying in position machine batched, machine mixed and machine vibrated design mix cement concrete of specified grade for reinforced cement concrete structural elements, excluding the cost of centring, shuttering finishing and reinforcement, M-20 grde reinforced cement concrete Cement concrete grade M-20 (Nominal Mix) with 20 mm maximum size of stone aggregate	2	1.0900	CUM	5677.20	12,376.30
9	5.33A.2.1	Providing and laying in position machine batched, machine mixed and machine vibrated design mix cement concrete of specified grade for reinforced cement concrete structural elements, excluding the cost of centring, shuttering finishing and reinforcement, M-20 grde reinforced cement concrete Cement concrete grade M-20 (Nominal Mix) with 20 mm maximum size of stone aggregate.	2	1.2200	CUM	5293.50	12,916.14
10	5.33A.2.2	Providing and laying in position machine batched, machine mixed and machine vibrated design mix cement concrete of specified grade for reinforced cement concrete structural elements, excluding the cost of centring, shuttering finishing and reinforcement, M-20 grde reinforced cement concrete	2	1.5200	CUM	5677.20	17,258.69
11	5.33A.2.2	Providing and laying in position machine batched, machine mixed and machine vibrated design mix cement concrete of specified grade for reinforced cement concrete structural elements, excluding the cost of centring, shuttering finishing and reinforcement, M-20 grde reinforced cement concrete	2	1.3200	CUM	5677.20	14,987.81
12	5.22.7	Reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete. IS : 13920; IS 456 & SP:34) etc. complete.					
	5.22.7C	Thermo Mechanically Treated bars	2	515.0000	MT	90.80	93,524.00
13	6.1.14B	Brick work with bricks of class designation 100B in foundations and plinth, Cement mortar 1:6 (1 cement: 6 coarse sand)	2	0.1800	CUM	4540.30	1,634.51
14	6.1.12C	Brick work with fly ash bricks as per IS12894 (2002) & IS3495 in foundations and plinth, Cement mortar 1:4 (1 cement: 4 coarse sand)	2	3.7600	CUM	5116.30	38,474.58
15	6.18.4B+ 6.19B	Half Brick masonry with open bhatta of class designation 25 in super structure above plinth level upto floor 2 level including the cost of scaffolding					
		Cement Mortar 1 : 4 (1 cement : 4 coarse sand)	2	6.0000	SQM	655.20	7,862.40

16	9 124.1	Providing and fixing factory made 30mm thick door shutter made of solid PVC foam profile The styles & rails shall be of size 75mmx30 mm having wall thickness 5mm The styles, top & bottom rails shall have one side wall thickness of 15mm integrally extruded on the hinge side of the profile for better screw holding power The styles and rails shall be reinforced with M S tubes of size 33mmx17mmx 1mm, painted with primer, all four corners of reinforcement to be welded or sealed Solid PVC extruded bidding(pushfit type) will be set inside the styles and the rails with acavity, to receive single piece extruded 5mm PVC sheet as panel The styles and rails will be mitred cut and joint with the help of PVC solvent cement & self driven self tappings crews Single piece extruded solid PVC lock rail of size 100mmx 30mm with wall thickness 5mm & 15mm integrally extruded in the middle of the lock rail & fixed with styles with the help of PVC solvent cement & self driven self tappings crews of size 100 mm x 8mm complete as per manufacturer's specifications and direction of Engineer-in-charge	2	3 7800	SQM	2898.90	21 915.68
17	10 12+ 10 13C	Providing and fixing steel beading of approved shape and section with crews instead of glazing clips and metal Sash putty in steel doors, windows, Ventilators and composite units	2	0 6800	SQM	3444.20	4 684.11
18	11 21.1.1	Providing and fixing 10mm 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 Acid and alkali resistant tile	2	25 5800	SQM	1295.70	66 288.01
19	13 11.2	12 mm cement plaster of mix 1:4 (1 cement 4 fine sand)	2	43 6800	SQM	152.90	13 357.34
20	13 19	18mm cement plaster in two coat under layer 12mm thick cement plaster 1:5 (1 cement: 5 coarse sand) and a top layer 6mm thick cement plaster 1:3 (1 cement: 3 coarse sand) finished rough with sponge	2	29 9200	SQM	218.20	13 057.09
21	13 48.1	Finishing with Deluxe Multi surface paint system for interiors and exteriors using Primer as per manufacturers specifications					
		Two or more coats applied on walls @ 1.25 ltr/10 sqm over and including one coat of special primer applied @ 0.75 ltr/10 sqm	2	74.8000	SQM	117.30	17 548.08
22	4.3.1	Centering and shuttering including strutting, propping stretching etc. complete for and removal of form work by sheet plate or ply wood shuttering for :					
	4.3.1	Foundations, footings, bases of columns, etc. for mass concrete.	2	14.1600	SQM	211.10	5 978.35
	5.9.3	Suspended floors, roofs, landings, balconies and access platform.	2	6.3600	SQM	437.50	5 565.00
	5.9.5	Lintels, Beams, Plinth Beams, bressumers, girders & cantilevers	2	14.4000	SQM	404.70	11 655.36
	5.9.6	Columns, Pillars, Piers, Abutments, Posts, Struts	2	12.0000	SQM	494.40	11 865.60
23	18.48	Providing and placing on terrace (at all floor levels) polyethylene water storage tank, ISI : 12701 marked, with cover and suitable locking arrangement and making necessary holes for inlet, outlet and over flow pipes but without fittings and the base support for tank	2	500.0000	Litre	9.70	9 700.00
24	17.3.1	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, 40mm flush bend, over flow 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.					
		W.C. pan with ISI marked white solid plastic seat and lid	2	1.0000	Each	5504.30	11 008.60
25	17.4	Providing and fixing white vitreous china flatback or wall corner type lipped front urinal basin of 430x260x350 mm and 340x410x265mm sizes respectively with automatic flushing cistern with standard flush pipe and C.P. brass spreaders with brass unions and G.I. clamps complete, including painting of fittings and brackets, cutting and making good the walls and floors wherever required.					
	17.4.1	One urinal basin with 5 litre white P.V.C. automatic flushing cistern	2	2.0000	Each	3723.20	14 892.80
26	17.25.6	Providing and fixing white vitreous china wash basin including making all connections but excluding the cost of fittings: fittings: Surgeon type wash basin of size 660x460mm	2	1.0000	Each	1651.30	3 302.60
		<b>Office Building (6M x 3M) Estimate-A-2</b>					
27	2.29.1	Surface dressing of the ground including removing vegetation and inequalities not exceeding 15 cm deep and disposal of rubbish, lead upto 50 m and lift upto 1.5 m		0.2176	/100SQM	1355.40	294.94
28	2.8.1	Excavation work in foundation trenches or drains not exceeding 1.5m in width or 10 sq.m on plan including dressing of sides and ramming of bottoms lift upto 1.5m, including getting cut the excavated soil and disposal of surplus excavated soils as directed, within a lead of 50 m.		42.4200	CUM	360.70	15 300.89
29	2.28	Supplying and Filling in plinth with local sand and under floors including, watering, ramming consolidating and dressing complete.		9.0500	CUM	287.30	2 600.07
30	2.26	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		36.8700	CUM	123.90	4 568.19
31	11.72	Providing designation 100 A one brick flat soling joints filled with local sand including cost of watering, taxes, royalty all complete as per building specification and direction of E/I		16.9800	/100SQM	283.30	4 810.43
32	4.1.2	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering-all work upto plinth level.					
		Cement concrete grade M-20 (Nominal Mix) with 20 mm maximum size of stone aggregate		0.9400	CUM	4420.80	4 155.55



33	5.33A.2.2	Providing and laying in position machine batched ,machine mixed and machine vibrated design mix cement concrete of specified grade for reinforced cement concrete structural elements, excluding the cost of centring, shuttering finishing and reinforcement, M-20 grade reinforced cement concrete (Cement concrete grade M-20 (Nominal Mix) with 20 mm maximum size of stone aggregate	3.0500	CUM	5677.20	17,315.46
34	5.33A.2.1	Providing and laying in position machine batched,machine mixed and machine vibrated design mix cement concrete of specified grade for reinforced cement concrete structural elements, excluding the cost of centring, shuttering finishing and reinforcement, M-20 grade reinforced cement concrete (Cement concrete grade M-20 (Nominal Mix) with 20 mm maximum size of stone aggregate	1.9500	CUM	5293.50	10,322.33
35	5.33A.2.2	Providing and laying in position machine batched,machine mixed and machine vibrated design mix cement concrete of specified grade for reinforced cement concrete structural elements, excluding the cost of centring, shuttering finishing and reinforcement, M-20 grade reinforced cement concrete	3.0400	CUM	5677.20	17,258.69
36	5.33A.2.2	Providing and laying in position machine batched,machine mixed and machine vibrated design mix cement concrete of specified grade for reinforced cement concrete structural elements, excluding the cost of centring, shuttering finishing and reinforcement, M-20 grade reinforced cement concrete	7.1800	CUM	5677.20	40,762.30
37	5.22.7C	Reinforcement for R.C.C.work including straightening cutting, bending, placing in position and binding all complete.IS : 13920; IS 456 & SP : 34) etc. complete. 12mm horizontal/ inclined position of reinforcement bars in slab and beams, plinth, chajias, lintels, upto 4.5m vertical length of reinforcement in wall columns (over laps shall be provided as per requirement of IS : 13920; IS 456 & SP 34) etc. complete.				
		Thermo-Mechanically Treated bars. (Fe 500 D or more)	1682.8000	KG	90.80	1,52,798.24
38	6.1.14B	Brick work with bricks of class designation 100B in foundations and plinth, Cement mortar 1:6 (1 cement: 6 coarse sand )	0.0000	CUM	4540.30	0.00
39	6.1.12C	Brick work with fly ash bricks as per IS12894(2002)&IS3495 in foundations and plinth, Cement mortar 1:4 (1 cement: 4 coarse sand )				
		Cement mortar 1:4 (1 cement : 4 coarse sand)		CUM	5116.30	47,018.80
40	6.18.4B + 6.19B	Half Brick masonry with open bhutta of class designation 25 in super structure above plinth level upto floor 2 level including the cost of scaffolding				
		Cement Mortar 1 : 4 (1 cement : 4 coarse sand)	4.8300	SQM	655.20	3,164.62
41	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).				
	9.1.2	sal wood	0.1600	CUM	95670.70	15,307.31
42	9.7.1	Providing and fixing panelling or panelling and glazing in panelled or panelled and glazed shutters for doors, windows and clerestory windows (Area of opening for panel inserts excluding portion inside grooves or rebates to be measured). Panelling for panelled or panelled and glazed shutters 25 mm to 40 mm thick.				
		Second class teak wood	7.2000	SQM	2569.60	18,501.12
43	10.12+ 10.13B	providing and fixing steel beading of approved shape and section with screws instead of glazing clips and met. Sashputty in steel doors, windows, Ventilators and composite units.	2.4800	SQM	3435.60	8,520.29
44	11.21.1.1	Providing and fixing 10mm 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/oralkali resisting cement as per IS : 4457, complete as per the direction of Engineer-in-Charge. Acid and alkali resistant tile.				
		In flooring on a bed of 10 mm thick mortar 1:4 (1 acid proof cement : 4 coarse sand).	50.5600	M	1295.70	65,510.59
45	12.79.2.2	Providing and fixing on wall face unplasticised -PVC molded fittings/accessories for unplasticised-PVC rain water pipes conforming to (S:4985 including jointing with seal ring conforming to IS: 5382 leaving 10 mm gap for thermal expansion.				
		110 mm pipe Rain Water Pipe Roof To Ground Level	6.6000	M	374.60	2,472.36
46	13.11.2	12 mm cement plaster of mix				
		1:4 ( 1 cement: 4 fine sand)	96.0600	SQM	152.90	14,687.57
47	13.12.2	15 mm cement plaster on rough side of single or half brick wall of mix 1:4 ( 1 cement: 4 fine sand)	62.2600	SQM	176.40	10,982.66
48	13.79.1	Finishing walls with water proofing cement paint of approved brand and manufacture and of required shade to give an even shade	62.2600	SQM	81.20	5,055.51
49	13.80A.2	Finishing wall with deluxe multi surface paint system for interiors and exteriors using primer as per manufacturers specifications	158.3200	SQM	105.40	16,686.93
50	13.48	Providing and applying white cement based putty of average thickness 2 mm, of approved brand and manufacturer, over the plastered wall surface to prepare the surface even and smooth complete.				
	13.48.1	Two or more coats applied on walls @ 1.25 ltr/10 sqm over and including one coat of special primer applied @0.75 ltr /10 sqm.	158.3300	SQM	117.30	18,572.11
51	4.3	Centering and shuttering including strutting, propping stretching etc. complete for and removal of form work by sheet plate or ply wood shuttering for :				
	4.3.1	Foundations, footings, bases of columns, etc. for mass concrete.	27.6000	SQM	211.10	5,826.36
52	5.9.3	Suspended floors, roofs, landings, balconies and access platform.	26.1900	SQM	437.50	11,458.13
	5.9.5	Lintels, Beams, Plinth Beams, bressumers, girders & cantilevers	30.9200	SQM	404.70	12,513.32
	5.9.6	Columns, Pillars, Piers, Abutments, Posts, Struts	18.0000	SQM	494.40	8,899.20

53	18.48	Providing and placing on terrace (atall floor levels) polyethylene water storagetank, ISI 12701 marked,with cover and suitable locking arrangement and making necessary holes for inlet, outlet and over flow pipes but without fittings and the base support for tank.	1000.0000	Liter	9.70	9,700.00
54	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, 40mm flush bend, over flow 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.	1.0000	Each	5504.30	5,504.30
	17.3.1	W.C. pan with ISI marked white solid plastic seat and lid				
55	17.4	Providing and fixing white vitreous china flatback or wall corner type lipped front urinal basin of 430x260x350 mm and 340x410x265mm sizes respectively with automatic flushing cistern with standard flush pipe and C.P. brass spreaders with brass unions and G.I clamps complete, including painting of fittings and brackets, cutting and making good the walls and floors wherever required.	1.0000	Each	3723.20	3,723.20
	17.4.1	One urinal basin with 5 litre white P.V.C. automatic flushing cistern	1.0000	Each	3723.20	3,723.20
56	17.25	Providing and fixing white vitreous china wash basin including making all connections but excluding the cost of fittings : fittings :Surgeon type wash basin of size 660x460mm.	1.0000	Each	1651.30	1,651.30
	17.25.6	Surgeon type wash basin of size 660x460mm.	1.0000	Each	1651.30	1,651.30
		<b>Processing Shed (6M x 3M) Estimate-A-3</b>				
57	2.29.1	Surface dressing of the ground including removing vegetation and inequalities not exceeding 15 cm deep and disposal of rubbish, lead upto 50 m and lift upto 1.5 m	3.8000	/100sqm	1355.40	5,150.52
58	2.8	Excavation work in foundation trenches or drains not exceeding 1.5 m in width or 10 sq m on plan including dressing of sides and ramming of bottoms lift upto 1.5m, including getting cut the excavated soil and disposal of surplus excavated soils as directed, within a lead of 50 m.				
		All kinds of soil	136.0800	CUM	360.70	49,084.06
59	2.26	Filling available excavated earth (excluding rock) intranches, plinth, sidesof foundations etc. in layers not exceeding 20cm in depth : consolidating each deposited layer by ramming and watering lead	110.4800	CUM	123.90	13,688.47
60	2.2	Earthwork in rough excavation , banking excavated earth in layer not exceeding20cm indepth, breaking clodswatering, rollingeachlayerwith 1/2tonne rolleror wooden or steel rammersandrollingevery3rd and topmost layer with power roller of minimum8 tonnes and dressing up in embankments for roads, floodbanks ,marginal banksandguidebanksor filling up ground depressions. lead upto 50 m and lift upto 1.5 m				
		Moorum/Hard copra	0.0000	CUM	386.60	0.00
61	2.28	Supplying and Filling in plinth with local sand and under floors including, watering, ramming consolidating and dressing complete.	82.4600		287.30	23,690.76
62	11.72	Providing designation 100 A one brick flat soling joints filled with local sand including cost of watering, taxes, royalty all complete as per building specification and direction of E/I.	86.2200	SQM	283.30	24,426.13
63	4.1.2	Providing and laying in position Cement Concrete ofspecific grade, excluding the cost of shuttering & centering. All works up to plinth level.				
		Cement concrete grade M-20 (Nominal Mix) with 20mm maximum size of stone aggregate)	4.5400	CUM	4420.80	20,070.43
64	5.33A.2.2	Providing and laying in position machine batched, machine mixed and machine vibrated design mix cement concrete of specified grade for reinforced cement concrete structural elements, excluding the cost of centring, shuttering finishing and reinforcement, M-20 grde reinforced cement concrete Cement concrete grade M-20 (Nominal Mix) with 20 mm maximum size of stone aggregate	12.6600	CUM	5677.20	71,873.35
65	5.33A.2.1	Providing and laying in position machine batched,machine mixed and machine vibrated design mix cement concrete of specified grade for reinforced cement concrete structural elements, excluding the cost of centring, shuttering finishing and reinforcement, M-20 grde reinforced cement concrete Cement concrete grade M-20 (Nominal Mix) with 20 mm maximum size of stone aggregate	11.7600	CUM	5293.50	62,251.56
66	5.33.A.2.2	Providing and laying in position machine batched, machine mixed and machine vibrated design mix cement concreteof specified grade for reinforced cement concrete structural elements, excluding the cost of centring, shuttering finishing and reinforcement, M-20 grde reinforced cement concrete	18.7200	CUM	5677.20	1,06,277.18
67	5.33A.2.2	Providing and laying in position machine batched , machine mixed and machine vibrated design mix cement concrete of specified grade for reinforced cement concrete structural elements, excluding the cost of centring, shuttering finishing and reinforcement, M-20 grde reinforced cement concrete Cement concrete grade M-20 (Nominal Mix) with 20 mm maximum size of stone aggregate	38.0000	CUM	5677.20	2,15,733.60
68	5.22	Reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding upto floor level including cost of binding wire, wastage and over laps upto 12mm horizontal/ inclined position of reinforcement bars in slab and beams, plinth, chajjas, lintels, upto 4.5m vertical length of reinforcement in wall columns (over laps shall be provided as per requirement of IS : 13920; IS 456 & SP :34) etc. complete.				
	5.22.7C	Thermo-Mechanically Treated bars. (Fe 500 D ormore)	8672.0000	KG	90.80	7,87,417.60
69	6.1.14B	Brick work with bricks of class designation 100B in foundations and plinth, Cement mortar 1:6 (1 cement: 6 coarse sand )	0.0000	CUM	4540.30	0.00



70	6.1.12	Brick work with fly ash lime bricks (FALG Bricks) conforming to IS:12894-2002, class designation 75 Kg/C/M2 (average compressive strength) in superstructure above plinth level up to floor 2 level including the cost of scaffolding.				
	6.1.12C	Cement mortar 1:4 (1 cement : 4 coarse sand)	16.7200	CUM	5116.30	85,544.54
71	10.2	Structural steel work riveted or bolted in built up sections, trusses and framed work, including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer all complete.				
		A Type Main Column (1 section 300x140x77)@46.1kg/m	9371.2100	KG	95.40	8,94,013.43
72	10.6.2	Supplying and fixing-rolling shutters of approved make made of required size of M.S laths interlocked together through their intire length and jointed together at the end by end locks mounted on specially designed pipe shaft with brackets, side guides and arangements for inside and outside locking with push and pull operation complete including the cost of providing and fixing necessary 27.5 cm long wire springs manufactured from high tensile steel wire of adequate strength conforming to IS: 4454 - part 1 and M.S. top cover of required thickness for rolling shutters.				
		80x1.20mm thick M.S laths with 1.20 mm thick top cover	12.0000	SQM	2533.20	30,398.40
73	10.16.1	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				
		Hot finished welded type tubes				
		Side of shed (Rectangal Section 100x50x5)@ 6.75 kg/m	4603.5000	KG	123.90	5,70,373.65
74	12.50	Providing and fixing precoated galvanised iron profile sheets (size, shape and pitch of corrugation as approved by Engineer-in-charge) 0.50 mm (+ 0.05 %) total coated thickness with zinc coating 120 grams per sqm as per IS: 277, in 240 mpa steel grade, 5-7 microns epoxy primer on both side of the sheet and polyester top coat 15-18 microns. Sheet should have protective guard film of 25 microns minimum to avoid scratches during transportation and should be supplied in single length upto 12 metre or as desired by Engineer-in-charge. The sheet shall be fixed using self drilling /self tapping screws of size (5.5x 55mm) 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.	1007.0000	SQM	625.10	6,29,475.70
75	12.6	Providing ridges or hips of width 60cm over all width plain GS sheet fixed with coated J or L hooks bolts and nuts 8mm dia GI limpet and bitumen washers complete.				
	12.6.1	0.80 mm thick with zinc coating not less than 275 gm/m <sup>2</sup> Consider the length of the ridge 10.35 metres. The ridge will be made out of plain G. I. sheets 0.9 m x 1.8 m.	39.0000	M	599.00	23,361.00
76	12.9	Providing and fixing plain GS sheet gutter with iron brackets 40x3 mm size, bolts nuts and washers etc. including making necessary connections with rain water pipes complete.				
	12.9	providing and fixing 16cm wide 45 cm overall semi circular plain GS sheet gutter with iron brackets 40x3mm size bolts nuts and washers etc. including making necessary connections with rain water pipes complete.				
	12.9.1	0.80 mm thick with zinc coating not less than 275 grams per square meter	78.0000	M	577.40	45,037.20
77	12.51	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 dia	58.1000	M	201.00	11,678.10
78	13.19	18mm cement plaster in two coat under layer 12mm thick cement plaster 1:5 (1 cement: 5 course sand) and a top layer 6mm thick cement plaster 1:3(1 cement: 3 coarse sand finished rough with sponge	192.0000	SQM	218.20	41,894.40
79	13.48	Finishing withDeluxe Multi surface paint system for interiors and exteriors using Primer as per manufacturers specifications.				
	13.48.1	Two or more coats applied @ 1.25 ltr/ 10 sq.m. overand including one coat of special primer applied @0.75 ltr / 10 sq.m.	192.0000	SQM	117.30	22,521.60
80	4.3	Centering and shuttering including strutting, propping stretching etc. complete for and removal of form work by sheet plate or ply wood shuttering for :				
	4.3.1	Foundations, footings, bases of columns, etc, for mass concrete.	33.6000	SQM	211.10	7,092.96
81	5.9.5	Lintels, Beams, Plinth Beams, bressumers, girders &cantilevers	233.6000	SQM	404.70	94,537.92
	5.9.6	Columns, Pillars, Abutments, Posts, Struts	98.0000	SQM	494.40	48,451.20
		<b>Septic Tank Estimate-A-4</b>				
82	2.8	Excavation work in foundation trenches or drains not exceeding 1.5 m in width or 10 sq.m on plan including dressing of sides and ramming of bottoms lift upto 1.5m, including getting cut the excavated soil and disposal of surplus excavated soils as directed, within a lead of 50 m.	25.1200	CUM	360.70	9,060.78
83	2.28	Supplying and Filling in plinth with local sand and under floors including, watering, ramming consolidating and dressing complete.	2.3600	CUM	287.30	678.03
84	11.72	Providing designation 100 A one brick flat soling joints filled with local sand including cost of watering, taxes, royalty all complete as per building specification and direction of E/I.	9.2700	SQM	283.30	2,626.19
85	4.1.2	Providing and laying in position cement concrete of specified grade excluding the cost of centring and shuttering-all work upto plinth level				

		Cement concrete grade M-20 (Nominal Mix) with 20 mm maximum size of stone aggregate)		0.7900	CUM	4420.80	3,492.43
86	5.33A.2.2	Providing and laying in position machine batched, machine mixed and machine vibrated design mix cement concrete of specified grade for reinforced cement concrete structural elements, excluding the cost of centring, shuttering finishing and reinforcement, M-20 grade reinforced cement concrete Cement concrete grade M-20 (Nominal Mix) with 20 mm maximum size of stone aggregate		3.7400	CUM	5677.20	21,232.73
87	5.22.7C	Reinforcement for R.C.C work including straightening, cutting, bending, placing in position and binding all complete. IS : 13920; IS 456 & SP : 34) etc. complete.					
		Thermo-Mechanically Treated bars. (Fe 500 D or more)		224.4000	kg	90.80	20,375.52
88	6.1.12C	Brick work with fly ash bricks as per IS12894(2002)&IS3495 in foundations and plinth, Cement mortar 1 : 4 (1 cement : 4 coarse sand)					
		Cement mortar 1:4 (1 cement : 4 coarse sand)		5.6900	CUM	5116.30	29,111.75
89	6.18.4B+6.19 B	Half Brick masonry with open bhatta of class designation 25 in super structure above plinth level upto floor 2 level including the cost of scaffolding					
		Cement Mortar 1 : 4 (1 cement : 4 coarse sand)		1.4000	SQM	655.20	917.28
90	13.11	12 mm cement plaster of mix					
	13.11.2	1:4 (1 cement : 4 fine sand)		18.4000	SQM	152.90	2,813.36
91	5.9.3	Centring and shuttering including strutting, propping etc. and removal of form for Suspended floors, roots, landings, balconies and access platform.		8.6400	SQM	437.50	3,780.00
92	20.1(MP SOR)	Excavation for 110mm					
				6.0000	RM	129.00	774.00
		<b>Fencing Work (296M) Estimate-A-5</b>					
93	16.70.1	Providing and fixing G.I. chain link fabric fencing of required width in mesh size 50x50 mm including strengthening with 2 mm dia wire or nuts, bolts and washers as required complete as per the direction of Engineer-in-charge. Made of G.I. wire of dia 4 mm		532.8000	SQM	687.20	3,66,140.16
94	16.15.1	R.C.C. Standards post/ struts/rails/ pales of mix 1:1.5:3 (1 cement : 1.5 coarse sand : 3 graded stone aggregate 12.5 mm nominal size) with wooden plugs or 6mm bar nibs wherever required as per direction of Engineer-in-charge (cost of earth works in excavation, concrete works in foundation to be paid separately).		2.0700	SQM	20774.10	43,002.39
95	10.5	Providing and fixing 1 mm thick M.S. sheet door with frame of 40x40x6 mm angle iron and 3mm MS gusset plates at the junction and corners. all necessary fittings complete including applying a priming coat of approved steel primer.					
	10.5.2	Using flats 30x6 mm for diagonal braces and central cross piece.		8.0000	SQM	3467.90	27,743.20
		<b>Reject Platform (8M x 6M) Estimate-A-8</b>					
96	2.29.1	Surface Dressing of the ground including removing vegetation and in equalities not exceeding 15 cm deep and disposal of rubbish, lead upto 50m and lift upto 1.5m		0.8000	/100SQM	1355.40	1,084.32
97	2.6	Earthwork in excavation over areas (exceeding 30 cm in depth, 1.5 min width as well as 10 sqm on plan) including disposal of excavated earth, lead upto 50 m and lift upto 1.5m; disposed earth to be levelled and neatly dressed.					
	2.6.1	All kinds of soil		32.0000	CUM	314.90	10,076.80
98	2.28	Supplying and Filling in plinth with local sand and under floors including, watering, ramming, consolidating and dressing complete.					
	0	Moorum/Hard copra/Local Sand		24.0000	CUM	287.30	6,895.20
99	4.1.2	Providing and laying in position cement concrete of specified grade excluding the cost of centring and shuttering-all work upto plinth level.					
		Cement concrete grade M-20 (Nominal Mix) with 20 mm maximum size of stone aggregate)		8.0000	CUM	4420.80	35,366.40
100	5.33A.2.2	Providing and laying in position machine batched, machine mixed and machine vibrated design mix cement concrete of specified grade for reinforced cement concrete structural elements, excluding the cost of centring, shuttering finishing and reinforcement, M-20 grade reinforced cement concrete Cement concrete grade M-20 (Nominal Mix) with 20 mm maximum size of stone aggregate		9.6000	CUM	5677.20	54,501.12
101	5.22.7C	Reinforcement for R.C.C work including straightening, cutting, bending, placing in position and binding all complete. IS : 13920; IS 456 & SP : 34) etc. complete.					
		Thermo-Mechanically Treated bars. (Fe 500 D or more)		768.0000	KG	90.80	69,734.40
102	4.3.1	Centering and shuttering including strutting, propping stretching etc. complete for and removal of form work by sheet plate or ply wood shuttering for :		5.6000	SQM	211.10	1,182.16
		<b>Machinery and Equipment Estimate-A-14 (i)</b>					
103	As per GEM Portal (lumpsum)	Weigh Controller, Load Cells, Platform, Large Size LED Display, PC, Printer, UPS, , Model approval, Verification Stamping from legal metrology Dept, Ramp. Capacity of Load Cell in Tonnes-30Ton, No of Load Cell in the weigh bridge system-4, Type of Load Cell-Doubled ended Shear Beam Load Cell, Accuracy Class of weigh bridge-Class III.					
		Weigh bridge				LS	8,50,000.00
104	As per GEM Portal	Shredder Machine (5 TPH Capacity) 1 Nos.			Shredder	LS	7,00,000.00
		3 Nos waste sorting Machine with platform, complete.			Waste Sorting	LS	3,75,000.00



	10000 (lumpsum)	1 Nos. for screening of 5 TPD waste with capacity 1 TPH of diameter 1.5 m and length 6m. With conveyor for feeder and reject.		Trommel (15 mm)		LS	11,00,000.00
105	As Per CPHEEO	Single Cylinder Double Chamber		Baler Machine		LS	4,50,000.00
106	As per GEM Portal (lumpsum)	Double Wheel Barrow		2 nos		LS	7,500.00
		<b>Tube Well with motor pump Estimate-A-15</b>					
107	24.1	Boring/drilling bore well of required dia for casing/ strainer pipe, by suitable method prescribed in IS: 2800 (part I), including collecting samples from different strata, preparing and submitting strata chart/ bore log, including hire & running charges of all equipments, tools, plants & machineries required for the job, all complete as per direction of Engineer -in-charge, upto 90 metre depth below ground level.					
	24.1.1.1	All types of soil - 300 mm dia.		50.0000	Meter	486.80	24,340.00
108	24.3	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.					
	24.3.1	100 mm nominal size dia		38.0000	Meter	546.10	20,751.80
109	24.4	Supplying, assembling, lowering and fixing in vertical position in bore well unplasticized PVC medium well screen (RMS) pipes with ribs, conforming to IS: 12818, including hire & labour charges, fittings & accessories etc. all complete, for all depths, as per direction of Engineer-in-charge.					
	24.4.1	100 mm nominal size dia		12.0000	Meter	573.10	6,877.20
110	24.8	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.		3.0000	CUM	1,343.20	4,029.60
111	24.12	Development of tube well in accordance with IS : 2800 (part I) and IS: 11189, to establish maximum rate of usable water yield without sand content (beyond permissible limit), with required capacity air compressor, running the compressor for required time till well is fully developed, measuring yield of well by "V" notch method or any other approved method, measuring static level & draw down etc. by step draw down method, collecting water samples & getting tested in approved laboratory, i/c disinfection of tubewell, all complete, including hire & labour charges of air compressor, tools & accessories etc., all as per requirement and direction of Engineer-in-charge.		3.0000	hour	916.80	2,750.40
112	24.13.2	Providing and fixing suitable size threaded mild steel cap or spot welded plate to the top of bore well housing/ casing pipe, removable as per requirement, all complete for borewell of : 150 mm dia		1.0000	each	210.70	210.70
113	24.14.1	Providing and fixing 100 mm dia M.S. clamp of required dia to the top of casing/ housing pipe of tubewell as per IS: 2800 (part I), including necessary bolts & nuts of required size complete.		1.0000	each	1,448.40	1,448.40
114	24.15.1	Providing and fixing 100 mm dia Bail plug/ Bottom plug of required dia to the bottom of pipe assembly of tubewell as per IS:2800 (part I).		1.0000	each	228.30	228.30
115		Supplying all equipments, tools and installation of 1 HP single phase submersible motor pump set of KSB/ ISI make 2900 rpm capable of discharge 5000 LPH at 45 Mtr head with all necessary riser pipe, starter control panel, 1.25" Full way valve, 1.25" M.S clamp, 1.25" G.I Elbow, 1.25" check valve, 1.25" x 9" long G.I Nipple etc. all complete as per direction of E/I		1.0000	Each	26,446.00	26,446.00
		<b>Electricity Work Estimate-A-16</b>					
116	1.3.3	Wiring for light point/ fan point/ exhaust fan point/ Call bell Point with 1.5 sq. mm FRLS PVC insulated copper conductor single core cable in surface/ recessed PVC conduit, with modular switch, modular plate, suitable size G.I box etc. as required Group - 'C'					
		Light Point - 39		88.0000			
		Fan/Wall Fan Point - 13					
		Exhaust Fan Point - 02					
		Call Bell Point - 02					
		WEIGH BRIDGE-01					
		TROMMEL-01					
		CONVEYOR BELT-13					
		BALER-01					
		MAGNETIC SEPERATOR-01					



		MISCELLANEOUS-15				
		Total: = 88		Point	1146.00	1,00,848.00
117	1.3.1	Wiring for light point/ fan point/ exhaust fan point/ Call bell Point with 1.5 sq. mm FRLS PVC insulated copper conductor single core cable in surface/ recessed PVC conduit, with modular switch, modular plate, suitable size G.I. box etc. as required. Group - 'A'	19.0000	Point	782.00	14,858.00
118	1.5	Wiring for light/ power plug with 2 X 4 sq. mm FRLS PVC insulated copper conductor single core cable in surface / recessed PVC conduit along with 1 No. 4 sq. mm FRLS PVC insulated copper conductor single core cable for loop earthing as required.	380.0000	Metre	309.00	1,17,420.00
119	1.7	Wiring for circuit/ submain wiring along with earth wire with the following sizes FRLS PVC insulated copper conductor, single core cable in surface/ recessed PVC conduit as required.				
	1.7.1	2 X 1.5 sq. mm + 1 X 1.5 sq. mm earth wire	540.0000	Metre	201.00	1,08,540.00
	1.7.2	2 X 2.5 sq. mm + 1 X 2.5 sq. mm earth wire (for 3X5A socket Point)	350.0000	Metre	246.00	86,100.00
	1.7.3	2 X 4 sq. mm + 1 X 4 sq. mm earth wire	75.0000	Metre	309.00	23,175.00
	1.7.4	2 X 6 sq. mm + 1 X 6 sq. mm earth wire	175.0000	Metre	422.00	73,850.00
	1.7.11	4 X 6 sq. mm + 1 X 6 sq. mm earth wire	185.0000	Metre	660.00	1,22,100.00
120	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. (for On switch board)				
	1.24.1	5/6 amps switch	31.0000	Each	82.00	2,542.00
	1.24.4	3 pin, 5/6 amps socket outlet	31.0000	Each	112.00	3,472.00
121	1.25	Supplying and fixing two module stepped type electronic fan regulator on the existing modular switch box including connection but excluding modular plate etc. as required.	39.0000	Each	358.00	13,962.00
122	1.32	Supplying and fixing suitable size G.I. box with modular plate and cover in front 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 painting etc. as required.	31.0000	Each	531.00	16,461.00
123	1.33	Supplying and fixing 2 pin, 5 amp. ceiling rose on the existing junction box/PVC box including connection etc. as required.	112.0000	Each	64.00	7,168.00
124	1.34	Supplying and fixing batten/angle holder including connection etc. as required.	72.0000	Each	80.00	5,760.00
125	1.37	Supplying and fixing Ding-Dong call bell suitable for single phase, 230 volts complete as required.	3.0000	Each	240.00	720.00
126	1.27	Supplying and fixing following modules G.I. box along with modular base and cover plate for modular switches in recess etc. as required.				
	1.27.1	1 or 2 module (75mm X 75mm)	69.0000	Each	234.00	16,146.00
127	1.53	Supplying and fixing suitable size GI box with modular plate and cover in front on surface or in recess including providing and fixing 25 amps modular socket outlet and 25 amp modular SP MCB 'C' curve, including connections painting etc. as required.	5.0000	Each	683.00	3,415.00
128	1.56	Supplying and fixing suitable size GI box with modular plate and cover in front on surface or in recess, including providing and fixing 3 nos. 5 pin 5/6 amps modular socket outlet and 2 nos. 5/6 amps modular switch, connection etc. as required.	27.0000	Each	778.00	21,006.00
129	2.8	Supplying and fixing following way single pole & 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)				
	2.8.7	12 way, Double door	5.0000	Each	2314.00	11,570.00
130	2.9	Supplying and fixing following way three pole & neutral, sheet steel, MCB distribution board, 415 volts, on surface/ recess, complete with tinned copper busbar, neutral busbar, earth bar, din bar, detachable gland plate, interconnections, phosphatized and powder painted including earthing etc. as required. (But without MCB / RCCB / Isolator)				
	2.9.1	4 way ( 4 + 12 ), double door, horizontal type	5.0000	Each	4184.00	20,920.00
131	2.12	Supplying and fixing following rating, 240 volts, 'C' series, miniature circuit breaker suitable for lighting and other loads of following poles in the existing MCB DB complete with connections, testing and commissioning etc. as required.				
	2.12.1	6A to 32A amps, single pole	110.0000	Each	237.00	26,070.00
	2.12.6	40A to 63A amps, SPN	10.0000	Each	1233.00	12,330.00
	2.12.8	40A to 63A amps, TPN	10.0000	Each	2329.00	23,290.00
132	2.4	Providing and fixing following rating and breaking capacity and pole MCCB with thermomagnetic release and terminal spreaders in existing cubicle panel board including drilling holes in cubicle panel, making connections etc. as required.				
	2.4.2	125 A, 36 KA, FPMCCB	1.0000	Each	8676.00	8,676.00
133	2.7	Providing and fixing following capacity 4 pole On-load/panel mounted changeover switches in existing cubicle panel board, making connection, earthing the body etc. as required.				
	2.7.3	100 A	1.0000	Each	9334.00	9,334.00
134	2.34.1	Supplying and fixing following ways, surface/recess mounting, Vertical three phase distribution board ( VTPN DB's ) of CRCA sheet steel, dust protected, duly powder painted suitable for upto 250 amp, four pole MCCB's as Incomer and SP/TP MCB's as outgoing inclusive of tinned copper bus bar, common neutral link, earth bar, din bar for mounting MCCB's etc as required. (but without MCCB's & MCBs) 4 way, Double door, I/C 250A, MCCB	1.0000	EACH	19610.00	19,610.00

135	8.11	Supply and fixing of fabricated Electrical control panel of cubical construction, floor/wall mounted type, fabricated out of 16 SWG CRCA sheet, compartmentalised with hinged doors, dust and vermin proof, powder coated painting of approved shade after 7 tank treatment process, cable alley, internal wiring, earth terminals, Bus bar Chamber, Insulator and complete in all respect etc and panel manufactures must be approved by CPRI. (But without RYB indicator, ammeter, voltmeter, Inter-connection copper conductor cable/solid copper strip, switchgears etc.)	8.0000	sq.ft.	1809.00	14,472.00
136	8.13	Supply and fixing panel mounted digital multimeter (Voltmeter & ammeter) including CT coil and RYB pilot indicator in the existing cubical panel board including drilling holes in the panel board making connections etc as required.	1.0000	Each	6536.00	6,536.00
137	5.1	Supplying and fixing 4'X18 watt LED batten with minimum efficacy 100 lm/w in polycarbonate housing and complete with integrated electronic driver etc directly on wall/ ceiling including connections with 1.5 sq.mm FRLS PVC insulated copper conductor etc. as required.	66.0000	Each	521.00	34,386.00
138	5.8	Supplying and fixing surface mounted following types LED downlighter with minimum efficacy 100 lm/w in pressure die-cast aluminium housing and integrated electronic driver etc directly on ceiling including connections with 1.5 sq.mm FRLS PVC insulated copper conductor cable etc as required.	27.0000	Each	1608.00	43,416.00
	5.8.2	15 watt				
139	5.10	Supplying and fixing 10/12 watt LED type Bulk-head luminaire with minimum efficacy 100 lm/w in comprising of pressure die cast housing, acrylic diffuser, IP 65 protection and complete with integrated electronic driver etc directly on wall/ceiling including connections with 1.5 sq. mm FRLS PVC insulated copper conductor cable etc as required.	9.0000	Each	1275.00	11,475.00
140	5.15	Supplying and fixing following types LED Flood light with minimum efficacy 100 lm/w in die cast aluminium housing, toughened glass, IP 66 protection and complete with electronic driver etc on pole/building including connection earthing the body etc as required.	3.0000	Each	10495.00	31,485.00
	5.15.7	200 watt	9.0000	Each	6085.00	54,765.00
	5.15.4	100 watt				
141	6.1	Supplying and fixing of following types lamp in the existing electrical fitting/ fixtures etc. as required.	72.0000	Each	161.00	11,592.00
	6.1.4	9/10 watt LED lamp				
142	8.15	Supply and installation of regular/standard model A.C. ceiling fan of 1200 mm sweep with service value (CM/MM) minimum 4.00, Air delivery minimum 210 cum/min including wiring the down rods of standard length (upto 30 cm) with 1.5 sq. mm FRLS PVC insulated copper conductor etc as required.	39.0000	Each	2482.00	96,798.00
143	8.17	Supply and installation of following sweep/ sizes metallic blade, heavy duty, single phase, 230 V A.C. Exhaust Fan in existing opening including making good the damage, connection, testing and commissioning etc as required.	4.0000	Each	2572.00	10,288.00
	8.17.1	300 mm sweep				
144	8.18	Supply and fixing of following sweep/ sizes PVC/ABS square body Exhaust Fan with automatic openable louvre shutter in existing opening including making connection, testing etc as required.	3.0000	Each	2074.00	6,222.00
	8.18.2	200 mm sweep (1300/1400 RPM)				
145	8.5	Supplying and fixing of 32 mm dia X 1.00 metres long G.I. pipe (medium class) bracket for mounting of fluorescent / HPMV/ HPSV/ LED 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.	15.0000	Each	1038.00	15,570.00
146	7.7	Supply of following sizes and core XLPE/PVC insulated PVC sheathed (Heavy duty) armoured electric cable with aluminium conductor for working voltage upto 1.1 KV as required.	100.0000	Metre	561.00	56,100.00
	7.7.9	50 sq.mm, 3.5 core				
147	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.	90.0000	Metre	326.00	29,340.00
	7.1.2	Above 35 sq. mm and upto 95 sq. mm				
148	3.21	Providing chemical/mineral maintenance free earthing system comprising of copper coated earth electrode 3 metre length and 17.2 mm outer dia along with 25 kg earth conductivity enhancing back fill mineral compound for earth electrode to fill up the excavated earth and earth inspection pit etc as required.	2.0000	Set	16675.00	33,350.00
149	3.17	Providing and fixing 4.00 mm dia copper wire on surface or in recess for loop earthing etc as required.	25.0000	Metre	144.00	3,600.00
150	7.9	Supplying and drawing following sizes of FRLS PVC insulated copper conductor, single core cable in the existing surface/ recessed PVC conduit as required.	4.0000	Metre	1018.00	4,072.00
	7.9.2	4 X 16 sq. mm	3.0000	Metre	1881.00	5,643.00
	7.9.3	4 X 25 sq. mm				
151	AR	Supplying of copper strip of all sizes for bus bar strip/interconnection including drilling holes etc as reqd.	6.0000	Kg	871.00	5,226.00
		FOR LIGHTNING ARRESTER				
152	4.2	Providing and fixing 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.	4.0000	Each	416.00	1,664.00



153	4.4	Joining copper/ G.I. tape ( with another copper/ G I tape, base of the final or any other metallic object ) by riveting/ nut bolting sweating and soldering etc. as required.	20.0000	Each	81.00	1,620.00
154	4.7	Providing and fixing G.I. tape 20 mm X 3 mm thick on parapet or surface of wall for lightning conductor complete as required. ( For horizontal run)	80.0000	Metre	102.00	8,160.00
155	4.8	Providing and fixing G.I. tape 20 mm X 3 mm thick on parapet or surface of wall for lightning conductor complete as required. ( For vertical run)	30.0000	Metre	145.00	4,350.00
156	3.2	Earthing with G.I. earth pipe 4.5 metre 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.	2.0000	Set	6323.00	12,646.00
157	3.9	Supplying and laying 25 mm X 6 mm G.I. strip at 0.50 metre below ground as strip earth electrode, including connection/ termination with GI nut, bolt, spring, washer etc. as required. (Joining shall be done by overlapping with 2 sets of G.I. nut bolt & spring washer spaced at 50 mm)	20.0000	Metre	133.00	2,660.00
158	8.18.3	Supply and fixing of following sweep/ size pvc/ abs square body exhaust fan with automatic etc as per required 250 mm sweep (1300/1400 RPM)	2.0000	each	2288.00	4,576.00
159	8.20	Supply and installation of 600 mm, 230 V A.C. wall mounted Air circulator, heavy duty fan including fixing the bracket, making connection, testing, commissioning etc as required.	5.0000	each	9941.00	49,705.00
160	8.16	Supply and installation of regular/standard model A.C ceiling fan of 1400 mm sweep with service value (CM/MM) minimum 4.10, Air delivery minimum 245 cum/min including wiring the down rods of standard length (upto 30 cm) with 1.5 sq. mm FRLS PVC insulated copper conductor etc as required.	8.0000	each	2838.00	22,704.00
161	5.5	Supplying and fixing replaceable compact commercial batten suitable for Double TB LED tube complete with 20 watt LED polycarbonate TB tube with built in driver etc. directly on wall/ ceiling including connections with 1.5 sq.mm FRLS PVC insulated copper conductor etc. as required.	15.0000	each	1232.00	18,480.00
162		<b>CARRIAGE COST OF MATERIALS</b>				
		(i)Bricks	23901	Nos	1887.07	45,102.86
		(ii)Coarse Sand	119.20	cum	4688.40	5,58,857.28
		(iii)Local Sand	123.08	cum	244.45	30,086.91
		(iv)Stone Chips	116.70	cum	2672.30	3,11,857.41
163	A-17	Solar Lighting(Lumpsum)		LS		42,000.00
164	A-14 (iii)	Surveillance Camera A-14 (iii)				51,000.00
165		Seigniorage Fee (10% of Basic Rate)				36,778.32
166	A-14 (ii)	Rooftop Solar Power Plant (8 kW) A-14 (ii)				6,30,000.00
167		ADD EXTRA GST 5.36% on items 1 to 161 (Except Machinery & electrical items )				3,57,034.65
168		ADD GST @18% on Seigniorage Fee (item 165)				6,620.10
		<b>GROSS TOTAL</b>				<b>1,27,00,508.81</b>
		Say, Rs				<b>1,27,00,509.00</b>

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BOQ approved for Rs 1,27,00,509.00 (Rupees one crore  
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अधीक्षण अभियंता  
S.C नगर विकास अंचल कोशी, सहरमा