

Bill of Quantity

Name of Work -		construction of 10 TPD Material Recovery Facility at Simri Bakhtiyarpur under Nagar Parishad Simri Bakhtiyarpur in Saharsa District			
Part-1(civil works)					
sl.no.	Item of work	unit	Qty	Rate in Rs.	Amt. in Rs.
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 1.5m All kinds of soil.(BCD-2.29.1)	100 sqm	999	1355.4	13540.45
2	Earthwork in excavation in areas (exceeding 30cm in depth. 1.5m in width as well as 10 sqm on plan) including dressing of sides and ramming of bottom, lift upto 1.5 including getting out the excavated soil and disposal of surplus soil as directed within a lead of 50m. All Kind of soil.(BCD-2.8.1)	cum	923.18	360.7	332989.22
3	Extra for every additional lift of 1.5 m or part thereof in : All kinds of soil(BCD-2.27.1)	cum	329.58	49.4	16281.25
4	Providing designation 100A 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.(BCD-11.72)	sqm	451.98	283.3	128045.93
5	Supplying and Filling in plinth with local sand and under floors including, watering, ramming consolidating and dressing complete.(BCD-2.28)	cum	62.073	287.3	17833.57
6	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - all work upto plinth level. 1:2:4(1 cement: 2 coarse sand: 4 graded stone aggregate 20mm nominal size)(BCD-4.1.3	cum	195.05	3998.1	779821.41
7	Providing laying spreading and compacting gradedstone aggregate to get wet mix macadam specification including premixing the material with water at OMC in mechanical mix plant carriage of mixed material by tipper to site, laying in uniform layers with paver in sub-base/ base course on well prepared surface and compacting with vibratory roller to achieve the desired density(RCD-4.14A)	cum	149.85	1719.747	257704.09

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8	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. Add or deduct for providing richer or leaner mixes respectively at all floor levels. Providing M-25 grade R.C.C. instead of M-20 grade R.C.C. All work upto plinth level. Add or deduct for providing richer or leaner mixes respectively at all floor levels. Providing M-25 grade R.C.C. instead of M-20 grade R.C.C.(BCD-5.33A.1+5.33B.1)	cum	304.85	4921.4	1500288.79
9	Brick work with selected bricks of class designation 100A in exposed brick work including making horizontal and vertical grooves 10mm wide 12mm deep complete from ground level up to plinth level in cement mortars 1:6(1 cement: 6 coarse sand)(BCD-6.41A)	cum	16	4925.2	78803.20
10	Filling available excavated earth (excluding rock) in trenches, plinth, sides of foundations etc. in layers not exceeding 20 cm in depth: consolidating each deposited layer by ramming and watering lead upto 50m and lift upto 1.5m(BCD-2.26)	cum	396.58	123.9	49136.76
11	Brick work with selected bricks of class designation 100A in exposed brick work including making horizontal and vertical grooves 10mm wide 12mm deep complete from ground level up to plinth level in cement mortars 1:6(1 cement: 6 coarse sand) Extra for exposed brick work in superstructure above plinth level and upto floor level. $0.75 \times 1.5 = 1.13$ (BCD-6.41A+6.45A)	cum	86.4	5993.2	517812.48
12	Half brick masonry with non modular fly ash bricks of class designation 10, conforming IS :12894, in superstructure above plinth and upto floor V level. Cement mortar 1 : 4 (1 cement : 4 coarse sand)(BCD-4.45)	sqm	291	700.8	203932.80

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13	5.33A.2.1 + 5.33B.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. All works above plinth level upto floor V level. Walls columns, pillars, posts and struts. Add or deduct for providing richer or leaner mixes respectively at all floor levels. Providing M-25 grade R.C.C. instead of M-20 grade R.C.C. 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. All works above plinth level upto floor V level. Walls columns, pillars, posts and struts. Add or deduct for providing richer or leaner mixes respectively at all floor levels. Providing M-25 grade R.C.C. instead of M-20 grade R.C.C.	cum	32.875	5458	179431.75
14		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. Add or deduct for providing richer or leaner mixes respectively at all floor levels. Providing M-25 grade R.C.C. instead of M-20 grade R.C.C. All works above plinth level upto floor V level. Beams, planth beams, girders, bressumers, contilevers, Suspended floors lintels roofs and staircases including spiral staircases, shelves etc. Add or deduct for providing richer or leaner mixes respectively at all floor levels. Providing M-25 grade R.C.C. instead of M-20 grade R.C.C. (BCD-5.33A.2.1+5.33B.1)	cum	41.134	5458	224509.37

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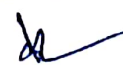
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15	Providing and laying in position machine batched, machine mixed and machine vibrated design mix cement concrete of specified grade for reinforced cement concrete structural elements, excluding the cost of centring, shuttering finishing and reinforcement, M-20 grade reinforced cement concrete. Add or deduct for providing richer or leaner mixes respectively at all floor levels. Providing M-25 grade R.C.C. instead of M-20 grade R.C.C. All works above plinth level upto floor V level. Beams, planth beams, girders, bressumers, cantilevers, Suspended floors lintels roofs and staircases including spiral staircases, shelves etc. Add or deduct for providing richer or leaner mixes respectively at all floor levels. Providing M-25 grade R.C.C. instead of M-20 grade R.C.C.(BCD-5.33A.2.2+5.33B.1)	cum	26.855	5841.7	156878.85
16	12 mm cement plaster of mix ; 1:6 (1 cement : 6 coarse sand)(BCD-13.11.4)	sqm	966	141.5	136689.00
17	18 mm cement plaster in two coats under layer 12 mm thick cement plaster 1:5 (1 cement :5 coarse sand) and top layer 6 mm thick, cement plaster 1:3 (1 cement: 3 coarse sand) finished rough with sponge.(BCD-13.20)	sqm	384	227.4	87321.60
18	6mm cement mix plaster of mix 1:4 (1 cement :4 coarse sand) Roof(BCD-13.24.2)	sqm	142	125.6	17835.20
19	Cement concrete flooring 1:2:4(1 cement:2 coarse:sand:4 graded stone agregate) finished with a floating coat of neat cement including cement slurry, etc. but excluding the cost of nosing of steps etc. complete. 40 mm thick with 20 mm nominal size stone aggregate. Extra for making chequers of approved pattern on cement concrete floors, steps, landing, pavemerts etc.(BCD-11.3.1+11.8)	sqm	999	325.4	325074.60
20	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.(BCD-11.80A.2)	sqm	1108	105.4	116783.20
21	Finishing walls with Acrylic Smooth exterior paint of required shade : New work (Two or more coat applied @ 1.67 ltr/ 10 sqm over and including priming coat of exterior primer applied @ 2.20 kg/ 10 sqm)(BCD-13.46.1)	sqm	384	137	52608.00

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22	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 priming coat with cement primer(BCD-11.77.2)	sqm	1108	102.3	113348.40
23	Providing and fixing flush door shutters conforming to IS : 2202 (Part-I) non-decorative type.core of block board construction with frame of 1st class tiard wood and well mathched commercial 3 ply veneering wiith vertical grains or cross bands and face veneers on both faces of shutters.30 mm thick including ISI marked Stainless Steel butt hinges with necessary screws(BCD-9.21.2)	sqm	46.935	1641.5	77043.80
24	Providing & Fixing decorative high pressure laminated sheet of plain / wood grain in gloss / matt / suede finish with high density protective surface layer and reverse side of adhesive bonding quality conforming to IS : 2046 Type S, including cost of adhesive of approved quality .1.0 mm thick(BCD-9.127..2)	sqm	146.16	669	97781.04
25	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)(BCD-9.1.2)	cum	0.7481	95670.7	71571.25
26	Providing and fixing wooden moulded beading to door and window frames with iron screws, plugs and priming coat on unexposed surface etc. complete 2nd class teak wood 50x12mm(BCD-9.40.1)	cum	25	137.3	3432.50
27	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: 300x16 mm(BCD-9.96.1)	nos	25	235.5	5887.50
28	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(BCD-9.100.1)	nos	50	57.1	2855.00

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29	Providing and fixing alluminium hanging floor door stopper 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:Twin rubber stopper(BCD-9.102.2)	nos	25	60.8	1520.00
30	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: 250x10mm(BCD-9.97.2)	nos	62	98.2	6088.40
31	Applying priming coat with ready mixed pink or grey primer of approved brand and manufacture on wood work (hard and softwood)(BCD-13.81.1)	sqm	13.86	39.7	550.24
32	Applying priming coat with ready mixed zinc chromate yellow primer of approved brand and manufacture on steel galvanized iron/steel work.(BCD-13.81.3)	sqm	29.535	34.6	1021.91
33	Painting with synthetic enamel paint of approved brand and manufacture to give an even shade two or more coats on new work(BCD-13.93.1)	sqm	13.86	84.5	1171.17
34	Centring and shuttering including strutting, propping etc. and removal of form for foundation, footings, bases of columns etc. for mass concrete.(BCD-5.9.1)	sqm	321.6	211.6	68050.56
35	Centring and shuttering including strutting,propping etc. and removal of form for Lintels, beams, plinth bams, griders, bressumers and contilevers.(BCD-5.9.5)	sqm	160.6	404.7	64994.82
36	Centring and shuttering including strutting , Propping etc. and removal of form for columns, pillars, piers, abutments, posts and struts.(BCD-5.9.6)	sqm	308.28	494.4	152413.63
37	Providing and laying ceramic glazed floor tiles 300 x 300 mm (thickness to be specified by the manufacturer) of 1st quality conforming to IS:15622 of approved make in all colors, shades, except white .Ivory, Grey,Fume red, Brown laid on 20mm thick bed of cement Mortar 1:4 (1 cement :4 coarse sand) including pointing the joints with white cement matching pigments etc complete.(BCD-11.38)	sqm	20.28	862.4	17489.47

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38	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 step and dados over 12mm thick bed of Cement Mortar 1:3 (1 cement : 3 Coarse sand) and jointing with grey cement slurry @ 3.3 kg per sqm including pointing in white cement mixed with pigments of matching shade complete.(BCD-11.36)	sqm	31.2	795	24804.00
39	Providing and fixing flush door shutters conforming to IS : 2202 (Part-I) non-decorative type. core of block board construction with frame of 1st class tiard wood and well mathched commercial 3 ply veneering wiith vertical grains or cross bands and face veneers on both faces of shutters. 30 mm thick including ISI marked Stainless Steel butt hinges with necessary screws(BCD-9.21.1)	sqm	6.93	1641.5	11375.60
40	Providing & Fixing decorative high pressure laminated sheet of plain / wood grain in gloss / matt / suede finish with high density protective surface layer and reverse side of adhesive bonding quality conforming to IS : 2046 Type S, including cost of adhesive of approved quality .1.0 mm thick(BCD-9.127.2)	sqm	6.93	669	4636.17
41	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)(BCD-9.1.2)	cum	0.11	95670.7	10523.78
42	Providing and fixing wooden moulded beading to door and window frames with iron screws, plugs and priming coat on unexposed surface etc. complete 2nd class teak wood 50x12mm(BCD-9.40.1)	cum	32.2	137.3	4421.06

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43	Providing and fixing circular/hexagonal cast iron or M.S sheet box for ceiling fan clamp 140 mm internal dia, 73 mm height, 5 mm thick rim bottom and top lids, 1.5 mm thick M.S sheet with its top surface hacked for proper bonding top lid shall be screwed into the cast iron box by means of 3.3 mm dia round headed screws, one lock at the corners. Clamps shall be made of 12 mm dia M.S. bar bent to shape as per standard drawing(BCD-10.18).	nos	160	165.4	26464.00
44	Reinforcement for RCC work including straightening, cutting, bending, placing in position and bonding all complete.				0.00
	(i)5.22.7 TMT Fe 500	kg	27000	94.5	2551500.00
45	Structural steel work riveted or bolted in built up section, trusses and frame work, including cutting, hoisting, fixing in position and applying a priming coat of aprooved steel primer all complete.(BCD-10.2)				
	(i) I-Section	kg	20927	95.40	1996435.80
	(ii) Z Purlins	kg	11480	95.40	1095192.00
	(iii) Connections	kg	1728	95.40	164851.20
	(iv) 100 NB Pipe Bracing	kg	14175	95.40	1352295.00
46	Providing corrugated G.S. sheet roofing including vertical / curved surface fixed with polymer coated J or L hooks, bolts and nuts 8 mm diameter with bitumen and G.I. limpet washers or with G.I. limpet washers filled with white lead, including a coat of approved steel primer and two coats of approved paint on overlapping of sheets complete (up to 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.(BCD-12.1.3)				
	0.63 mm thick with zinc coating not less than 275 gm/sqm	sqm	1529.5	1257.30	1923040.35
	sub-total of Part-A				15044080.18

Part-2(Construction of 100 mm x 90 m tube well by maual boring)

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47	Boring/drilling bore well of required dia for casing/ strainer pipe, by suitable method prescribed in IS: 2800 (part I), including collecting samples from different strata, preparing and submitting strata chart/ bore log, including hire & running charges of all equipments, tools, plants & machineries required for the job, all complete as per direction of Engineer -in-charge, upto 90 metre depth below ground level.				
	All types of soil - 300 mm dia.(BCD-24.1.1.1)	m	90	486.80	43812
48	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.				
	100 mm nominal size dia(BCD-24.3.1)	m	78	546.10	42595.8
49	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.				
	100 mm nominal size dia(BCD-24.4.1)	m	12	573.10	6877.2
50	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.(BCD-24.8)	cum	3.0	1,343.20	4029.6

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51		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.(BCD-24.12)	hour	3	916.80	2750.4
52		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(BCD-24.13.2)	nos	1	210.70	210.7
53		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.(BCD-24.14.1)	nos	1	1,448.40	1448.4
54		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).(BCD-24.15.1)	nos	1	228.30	228.3
		sub-total of Part-2				101952.4
Part-3(Plumbing and Sanitory)						
55		Providing and fixing 110 mm dia 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. (BCD-12.80.2)	nos	120	182.72	21926.4
56		Providing and fixing water closet squatting pan (Indian type W.C. pan) with 100 mm sand cast iron P or S tap, 10 litre low white P.V.C. Flushing cistern with manually controlled device (handle level) conforming to IS : 7231 Parryware/Hindware with all fittings and fixtures complete including cutting and making good the walls and floors wherever required.	nos	4	4470.90	17,883.60

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		White Vitreous China Orissa pattern W C pan of size 580 x 440 mm with integral type foot rest. (BCD-17.1.1)				
57		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 : W.C. pan with ISI marked black solid plastic seat and lid (BCD-17.3.1)	nos	4.00	5504.30	22,017.20
58		Providing and fixing white vitreous china battery based infrared sensor operated urinal of approx. size 610 x 390 x 370 mm having pre & post flushing with water (250 ml & 500 ml consumption), having water inlet from back side, including fixing to wall with suitable brackets all as per manufacturers specification and direction of Engineer-in-charge. (BCD-17.8)	nos	2.00	6534.20	13068.4
59		Providing and fixing one piece construction white vitreous china squatting plate with an integral longitudinal flushing pipe, white P .V .C. automatic flushing cistern, with fittings, standard size G.I. / PVC flush pipe for back and front flush with standard spreader pipes with fittings, G.I clamps and C.P . brass coupling complete, including painting of fittings and brackets, cutting and making good the walls and floors etc. wherever required : Single squatting plate with 5 litre P .V .C. automatic flushing cistern (BCD-17.6.1)	nos	2.00	5167.30	10334.6
60		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 :	nos	5.00	2135.80	10,679.00
		White Vitreous China Wash basin size 550x400 mm with 15 mm C.P. brass pillar taps. (BCD-17.7.4)				

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61	Providing and fixing P.V.C. waste pipe for sink or wash basin including P.V.C. waste fittings complete. Flexible pipe 32 mm dia (BCD-17.28.2.1)	nos	6.00	104.40	626.40
62	Providing and fixing PTMT Bottle Trap for Wash basin and sink. 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. (BCD-17.70.1)	nos	10	325.10	3,251.00
63	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. (BCD-17.71)	nos	6	146.30	877.80
64	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. 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. (BCD-17.73.2)	nos	3	424.00	1272
65	Providing and fixing uplasticised PVC connection pipe with brass ions : 45 cm length 15 mm nominal bore (BCD-17.21.2.1)	nos	13	85.20	1107.6
66	Providing and fixing C.P. brass long body bib cock of approved quality conforming to IS standards and weighing not less than 690 gms. 15 mm nominal bore (BCD-18.51.1)	nos	13	708.40	9209.2
67	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 (BCD-18.53.1)	nos	13	500.40	6505.2
68	Providing and fixing mirror of superior glass (of approved quality) and of required shape and size with plastic moulded frame of approved make and shade with 6 mm thick hard board backing : Rectangular shape 453 x 357 mm (BCD-17.32.2)	nos	3.00	857.00	2571

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69	Providing and fixing 600 x 120 x 5 mm glass shelf with edges round off, supported on anodised aluminium angle frame with C.P. brass brackets and guard rail complete fixed with 40 mm long screws, rawl plugs etc., complete. (BCD-17.33)	nos	3.00	713.30	2139.9
70	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. 20 mm nominal outer dia Pipes (BCD-18.9.2)	m	110	205.30	22583
71	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 joining 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 E/I Concealed work including cutting chases and making good the wall etc. 15 mm nominal outer dia Pipes (BCD-18.8.1)	m	98	278.20	27263.6
72	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. 25 mm nominal inner dia Pipes (BCD-18.9.3)	m	65	294.70	19155.5
73	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 overflow pipes but without fittings and the base support for tank. (BCD-18.48)	m	1000	9.70	9700
74	Providing and fixing C.P. brass bib cock of approved quality conforming to IS:8931 (BCD-18.49)	nos	5	434.20	2171

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75	Providing and fixing C.P. brass stop cock (concealed of standard design and of approved make conforming to IS : 8931 (BCD-18.52.1)	nos	5.00	594.80	2974
76	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 : 100 mm diameter S.W. pipe (BCD-19.2.1)	m	45.00	404.30	18193.5
77	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: 150 mm dia R.C.C. pipe (BCD-19.6.2)	m	45.00	410.70	18481.5
78	Constructing brick masonry road gully chamber 50x45x60 cm with bricks in cement mortar 1:4 (1cement : 4 coarse sand) including 500x450 mm pre-cast R.C.C. horizontal grating with frame complete as per standard design : With common burnt clay F.P.S. (non modular) bricks of class designation 7.5 (BCD-19.27.1)	nos	30.00	3743.30	112299
79	Constructing brick masonry chamber for Underground C.I. Inspection Chamber and bend with 75 class designation bricks in cement mortar 1:4 (1 cement : 4 coarse sand) C.I. Cover with frame (light duty) 455x610 mm internal dimentions, total weight of cover with frame to be not less than 38 kg. (weight of cover 23 kg. and weight of frame 15 kg.) RCC top slab with 1:1.5:3 mix (1 cement: 1.5 coarse sand :3 graded stone aggregate 20 mm nominal size) foundation concrete 1:5:10 mix (1 cement:5 coarse sand : 10 graded stone aggregate 40 mm nominal size), inside plastering 12 mm th. with cement mortar 1:3 (1cement:3 coarse sand) finished smooth with a floating coat of neat cement on walls and bed concrete etc. complete as per standard design. Inside dimensions 466x610 mm and 45cm deep for single pipe line : With common burnt clay F.P.S. (non modular) bricks of class designation 7.5 (BCD-19.30.1.1)	nos	30.00	4266.80	128004

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80	Making soak pit 2.5 m diameter 3.0 metre deep with 45 x 45 cm dry brick honey comb shaft with brick and S.W. drain pipe 100 mm diameter, 1.8 m long complete as per standard design. With common burnt clay F.P.S. (non modular) bricks of class designation 7.5 (BCD-19.32.1)	nos	1.00	33603.40	33603.4
81	Providing and fixing S.W. intercepting trap in manholes with stiff mixture of cement mortar 1:1 (1 cement : 1 fine sand) including testing of joints etc. complete : 150 mm dia (BCD-19.34.2)	nos	4.00	429.60	1718.4
82	Providing and fixing on wall face unplasticised PVC (working pressure 4 kgf per sqm) rain water pipes conforming to IS:4985 including jointing with seal ring conforming to IS:5382 leaving 10 mm gap for thermal expansion.				
	75 mm diameter. (BCD-12.78.1)	m	25.00	162.70	4067.5
	110 mm diameter. (BCD-12.78.2)	m	76.00	257.50	19570
83	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				
	75 x 75 x 75 mm dia Single tee with door (BCD-12.79.3.1)	nos	30.00	141.60	4248
	110 x 110 x 110 mm dia Single tee with door (BCD-12.79.3.2)	nos	25.00	193.40	4835
	75 mm dia Bend (BCD-12.79.5.1)	nos	20.00	91.80	1836
	110 mm dia Bend (BCD-12.79.5.2)	nos	35.00	132.00	4620
	(i) Rectangular cover 455x610 mm with frame (low duty) (BCD- CODE no. of 1354)	nos	1.00	1626.10	1626.1
	sub-total of Part -3				560418.8
	sub-total of Part-1+Part-2+Part-3				15706451.38
	Deduct L. cess @ 0.99% =				155493.8687
					15550957.51
	Deduct GST @10.71% =				1665507.55
	sub-total without L.cess and GST =				13885449.96
84	Carriage of Material				
	(i) Stonechips from Mirza Chauki	cum	751.81	2280.2	1714287.195
	(ii) Coarse sand from Kiul lead-109 km 133 km	cum	338.49	3205.7	1085111.498
	(iv) Brick lead 8 km(7S+1K)	th	83.353	936	78018.41
85	Difference cost of material				
	(i) Brick	Th.	83.353	435	36258.56
	(ii)cement	MT	261.44	211	55163.00
	sub-total of work value without L.cess and GST(A)				16854288.61

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	Add L. cess @1%(B)	168542.89
	Add SF@10% of mineral cost(C)	158437.19
	sub total (A+B+C)	17181268.69
	Add GST @ 18 % of (A+B+C)	3092628.36
	total	20273897.06
	Say, Rs.	20273897

Part-4(electrical Works including 18% GST)

86	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 - 176	Point	220	1146.00	2,52,120.00
		Fan/Wall Fan Point - 37				
		Exhaust Fan Point - 05				
		Call Bell Point - 02				
		Total: = 220				
87	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'	Point	19	782.00	14,858.00
88	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.	Metre	380	309.00	1,17,420.00
89	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.				
(i)	1.7.1	2 X 1.5 sq. mm + 1 X 1.5 sq. mm earth wire	Metre	540	201.00	1,08,540.00
(ii)	1.7.2	2 X 2.5 sq. mm + 1 X 2.5 sq. mm earth wire (for 3X5A socket Point)	Metre	350	246.00	86,100.00
(iii)	1.7.3	2 X 4 sq. mm + 1 X 4 sq. mm earth wire	Metre	75	309.00	23,175.00
(iv)	1.7.4	2 X 6 sq. mm + 1 X 6 sq. mm earth wire	Metre	175	422.00	73,850.00
(v)	1.7.11	4 X 6 sq. mm + 1 X 6 sq. mm earth wire	Metre	185	660.00	1,22,100.00
90	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)				
(i)	1.24.1	5/6 amps switch	Each	31	82.00	2,542.00
(ii)	1.24.4	3 pin, 5/6 amps socket outlet	Each	31	112.00	3,472.00

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91	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.	Each	39	358.00	13,962.00
92	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.	Each	31	531.00	16,461.00
93	1.33	Supplying and fixing 2 pin, 5 amp. ceiling rose on the existing junction box/PVC box including connection etc as required.	Each	112	64.00	7,168.00
94	1.34	Supplying and fixing batten/angle holder including connection etc. as required.	Each	72	80.00	5,760.00
95	1.37	Supplying and fixing Ding-Dong call bell suitable for single phase, 230 volts complete as required.	Each	3	240.00	720.00
96	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)	Each	69	234.00	16,146.00
97	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.	Each	5	683.00	3,415.00
98	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.	Each	27	778.00	21,006.00
99	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	Each	5	2314.00	11,570.00
100	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	Each	5	4184.00	20,920.00

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101	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.				
(i)	2.12.1	6A to 32A amps, single pole	Each	110	237.00	26,070.00
(ii)	2.12.6	40A to 63A amps, SPN	Each	10	1233.00	12,330.00
(iii)	2.12.8	40A to 63A amps, TPN	Each	10	2329.00	23,290.00
102	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	Each	1	8676.00	8,676.00
103	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	Each	1	9334.00	9,334.00
104	2.34.1	Supplying and fixing following ways, surface/recess mounting / vertical three phase distribution board (VTPN DB'S) of CRCA SHEET STEEL, dust protection, duly powder painted suitable for upto 250 amp , four pole MCCB'S etc. as per required. Four way, Double door, I/C 250 A MCCB	EACH	1	19610.00	19,610.00
105	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.)	sq.ft.	8	1809.00	14,472.00
106	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.	Each	1	6536.00	6,536.00
107	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.	Each	66	521.00	34,386.00

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108	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.				
	5.8.2	15 watt	Each	27	1608.00	43,416.00
109	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.	Each	9	1275.00	11,475.00
110	5.14	Supplying and fixing following types LED street 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.				
	5.14.7	200 watt	Each	3	10495.00	31,485.00
	5.14.4	100 watt	Each	9	6085.00	54,765.00
111	6.1	Supplying and fixing of following types lamp in the existing electrical fitting/ fixtures etc. as required.				
	6.1.4	9/10 watt LED lamp	Each	72	161.00	11,592.00
112	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.	Each	39	2482.00	96,798.00
113	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.				
	8.17.1	300 mm sweep	Each	4	2572.00	10,288.00
114	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.				
	8.18.2	200 mm sweep (1300/1400 RPM)	Each	3	2074.00	6,222.00

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115	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.	Each	15	1038.00	15,570.00
116	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.				
	7.7.10	50 sq.mm, 3.5 core	Metre	100	561.00	56,100.00
117	7.1	Laying of one number PVC insulated and PVC sheathed/ XLPE power cble of 1.1 KV grade of following size direct in ground including excavation, sand cushioning, protective covering and refilling the trench etc. as required.				
	7.1.2	Above 35 sq. mm and upto 95 sq. mm	Metre	90	326.00	29,340.00
118	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.	Set	2	16675.00	33,350.00
119	3.17	Providing and fixing 4.00 mm dia copper wire on surface or in recess for loop earthing etc as required.	Metre	25	144.00	3,600.00
120	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.				
(i)	7.9.2	4 X 16 sq. mm	Metre	4	1018.00	4,072.00
(ii)	7.9.3	4 X 25 sq. mm	Metre	3	1881.00	5,643.00
FOR LIGHTNING ARRESTER						
121	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.	Each	4	416.00	1,664.00
122	4.4	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	20	81.00	1,620.00
123	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)	Metre	80	102.00	8,160.00

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124	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)	Metre	30	145.00	4,350.00
125	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.	Set	2	6323.00	12,646.00
126	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. (Jointing shall be done by overlapping with 2 sets of G.I. nut bolt & spring washer spaced at 50 mm)	Metre	20	133.00	2,660.00
127	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)	each	5	2288.00	11,440.00
128	8.2	Supply and installation of 600 mm , 230V A.C wall mounted, heavy duty fan including fixing the brackets etc. as per required.	each	5	9941.00	49,705.00
129	8.16	Supply and installation of regular/standard model A.C ceiling fan of 1400 mm sweep with service etc. as per required	each	8	2838.00	22,704.00
130	5.5	Supply and fixing replacable compact commercial batton suitable for double T8 LED tube complete with 20 W LED etc. as per required	each	15	1232.00	18,480.00
		sub-total of Part-4			Rs.	16,23,154.00
		SUM of Schedule Items(sl-1 to sl-131)				2,18,97,051.1

Non-Schedule Items

Part-5(Fire Fighting Works)


131	NS	ISI Marked (IS. 2878) Fire extinguisher, carbon dioxide type capacity 4.5 kg flat base including valve, discharge hose of not less than 10 mm dia. 1 m long and complete in all respect including initial fill with co2 gas conforming to IS: 307 - 1966 filled to a filling rate of not more than 0.667 and wall suspension bracket.	nos	5	10000.00	50000.00
132	NS	ABC (Powder type) fire extinguisher, in HP Mild steel cylinder ISI marked TAC approved fitted with pressure indicating guage internal tube, squeeze lever type valve fully charged with ABC powder (mono Ammonium phosphate) pressure by nitrogen complete in all respect including wall suspension bracket and conforming to IS: 1349 -1993 10KG	nos	6	1800.00	10800.00
133	NS	Fire Buckets and Stand	nos	8	800.00	6400.00


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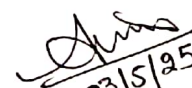
sub-total of Part-5					67200.00
Part-6 Machinery (as per CPHEEO,SBM Urban 2.0)					
134	Weigh Bridge	nos	1	400000	400000.00
135	Trommel	nos	1	1100000	1100000.00
136	Magnetic Separator	nos	1	250000	250000.00
137	Conveyor Belt (total length in meter)	nos	61.35	42836	2628000.87
138	Baler Machine (Single cylinder double chamber)	nos	1	450000	450000.00
139	Air Classifier / Air Blower	nos	3	76000	228000.00
140	Double wheel Barrow (GeM product ID 5116877-24324484266)	nos	4	3750	15000.00
141	HDPE Wheel Container Bin	nos	17	26000	442000.00
sub-total of Part-6					5513000.87
Manual Boring(part-2)					
142	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	nos	1	26,446.00	26446
sum of Non-schedule Items					5606646.87
Grand total from Part-1 to Part-6(schedule+NS)					27503697.93
Say, Rs.					27503698

Jitendra.
02/05/2025
J.E.
NVP Salora.


02/05/25
AE
NVP Salora


02.05.25
BE, NVP
Lohara.

BOQ is approved for items serial No. 1 to 142 for Rs. 2,75,03,698/- (Rupees Two Crore Seventy five Lakh three thousand six hundred and Ninety Eight) only.


03/5/25
अधीक्षण अभियंता
नगर विकास अंचल कोशी, सहरसा