

Tender ref No.T0ASX00035		"Price Bid Format Rev.01 dated:11.06.2019"			Volume-II of NIT	
Name of The Work: Civil, Structural & Architectural works for 1x3MLD Sewage Treatment Plant at Budha Talab for Raipur Smart City Ltd, Raipur Chhatisgarh.						
S.No.	Description	Unit	Qty	Rate (Rs.)	Total amount (Rs.)	Weightage (%)
A	B	C	D	E	F	G
1	Carriage of materials by mechanical transport including loading, unloading and stacking Earth upto 5 km	cum	180.51			0.075247
2	Earth work in excavation by mechanical means (Hydraulic excavator)/manual means over areas (exceeding 30cm in depth. 1.5m in width as well as 10 sqm on plan) including disposal of excavated earth, lead up to 50m and lift up to 1.5m, disposed earth to be leveled and neatly dressed. Any Kind of Soil	cum	4260			1.389037
3	Earth work in excavation by mechanical means (Hydraulic excavator) / manual means over areas (exceeding 30 cm in depth, 1.5m in width as well as 10 sqm on plan) including disposal of excavated earth, lead upto 50 m and lift upto 1.5 m, disposed earth to be levelled and neatly dressed as per direction of Engineer-in -charge.	-	-			-
a	Ordinary rock	cum	50			0.031598
b	Hard rock (Blasting prohibited)	cum	10			0.018221
4	Excavating trenches of required width for pipes, cables, etc including excavation for sockets, and dressing of sides, ramming of bottoms, depth up to 1.5m including getting out the excavated soil, and then returning the soil as required, in layers not exceeding 20cm in depth including consolidating each deposited layer by ramming, watering, etc and disposing of surplus excavated soil as directed, within a lead of 50m. Pipes, cables etc. exceeding 80mm dia but not exceeding 300mm dia.	Metre	50			0.032651
5	Filling available excavated earth (excluding rock) in trenches, plinth, sides of foundations etc in layers not exceeding 20cm in depth, consolidating each deposited layer by ramming and watering, lead up to 50m and lift up to 1.5m in all kind of soil.	Cum	4850			1.91008
5a	Excavating, supplying and filling of local earth (including royalty) by mechanical transport upto a lead of 5km also including ramming and watering of the earth in layers not exceeding 20cm in trenches, plinth, sides of foundation etc. complete.	Cum	3750			2.17789
6	Supplying and filling in plinth with sand under floors, including watering, ramming, consolidating and dressing complete.	cum	200			0.700374
7	Extra for every additional lift of 1.5 m or part thereof in excavation / banking excavated or stacked materials.	-	-			-
a	all kinds of soil	cum	2000			0.324186
b	Ordinary or hard rock	cum	1500			0.435996
8	Supplying and filling in plinth with sand under floors, including watering, ramming, consolidating and dressing complete.	Cum	50			0.175093
9	Surface dressing of ground including removing vegetation and in-equalities not exceeding 15 cms in deep and disposal of rubbish upto 1.5m lift and lead upto 50m (All kinds of soil)	cum	2100			0.091691
10	CONCRETE WORK	-	-			-
a	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level : 1:3:6 (1 Cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size) -M10	Cum	77			0.864152
b	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level : 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size)	Cum	100			1.217218
c	1:2:4 (1 Cement : 2 coarse sand (zone-III) : 4 graded stone aggregate 40 mm nominal size).	Cum	87			1.042071
11	REINFORCED CEMENT CONCRETE CONCRETE WORK :Centering and shuttering including strutting, propping etc and removal of form for :	-	-			-
a	Foundations, footings, bases of columns etc for mass concrete	Sqm	1044			0.533205
b	Walls (any thickness) including attached pilasters, butteresses, plinth and string courses etc.	Sqm	2612			2.853596
c	Suspended floors, roofs, lanings balconies and access platform.	Sqm	1234			1.533455
d	Shelves (cast in situ)	Sqm	30			0.03728
e	Lintels, beams plinth beams, girders, bressumers and cantilevers	Sqm	544			0.538475
f	Columns, Pillars, Piers, Abutments, Posts and Struts,	Sqm	272			0.357832
g	Strair, except spiral-staircases	Sqm	272			0.303524
h	arches , domes vaults upto 6m span	Sqm	5			0.015359
i	Small lintels not exceeding 1.5m clear span, moulding as in cornices, window sills, string courses, bands,copings, bed plates, anchor blocks and the like.	Sqm	10			0.005107
j	Edges of slabs and breaks in floors and walls under 20 cm wide.	metre	10			0.003107
k	Weather shade , chajja, corbels etc. including edges	sqm	10			0.013748
12	Reinforcement for RCC work including straightening, cutting, bending, planing in position and binding all complete. Thermo-Mechanically Treated bars of grade Fe-500D or more.(Corrosion resistant steel)	Kg	220000			32.934085

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A	B	C	D	E	F	G	
13	Providing and laying in position machine batched and machine mixed design mix M-25 grade cement concrete for reinforced cement concrete work, using cement content as per approved design mix, including pumping of concrete to site of laying but excluding the cost of centering, shuttering, finishing and reinforcement, including admixtures in recommended proportions as per IS: 9103 to accelerate, retard setting of concrete, improve workability without impairing strength and durability as per direction of Engineer-in-charge.	-	-				
a	All works upto plinth level	cum	250			3.584857	
b	All works above plinth level upto floor V level	cum	200			3.371208	
c	Providing M-30 grade concrete instead of M-25 grade BMC/RMC. (Note:- Cement content considered in M-30 is @ 340 kg/cum) All works upto plinth level	cum	400			5.785788	
d	Providing M-30 grade concrete instead of M-25 grade BMC/RMC. (Note:- Cement content considered in M-30 is @ 340 kg/cum) All works above plinth level upto floor V level	cum	200			3.396216	
14	Providing and laying M-25 Grade design mix reinforced cement concrete with crushed graded stone aggregate 20mm nominal size using batching plant, transit mixer and concrete pump for precast PCC/ RCC work including form work, hoisting and fixing in Cement Mortar. 1:2 (1 Cement : 2 coarse sand) and finishing with cement plaster in Cement Mortar 1:3 (1 Cement : 3 coarse sand) but excluding reinforcement. (Similar item)	cum	87			1.770741	
15	Providing and laying in situ five course water proofing treatment with APP (Atactic Polypropylene) modified Polymeric memberane over roof consisting of first coat of bitumen primer @ 0.40 litre per sqm, 2nd & 4th courses of bonding material @ 1.20 kg/sqm, which shall consist of blown type bitumen of grade 85/25 conforming to IS : 702, 3rd layer of roofing membrane APP modified Polymeric membrane 2.0 mm thick of 3.00 Kg/ sqm weight consisting of five layers prefabricated with centre core as 100 micron HMHDPE film sandwiched on both sides with polymeric mix and the polymeric mix is protected on both side with 20 micron HMHDPE film. 5th, the top most layer shall be finished with brick tiles of class designation 10 grouted with cement mortar 1:3 (1 cement : 3 fine sand) mixed with 2% integral water proofing compound by weight of cement over a 12 mm layer of cement mortar 1:3 (1 cement : 3 fine sand) and finished neat (item of laying brick tiles shall be paid for separately).	sqm	620			0.45439	
16	Structural steel work in single section, fixed with or without connecting plate,including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer all complete.	kg	168			0.02592	
17	Structural steel work riveted, bolted or welded 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.	kg	3100			0.565555	
18	Steel work welded in built up sections/ framed work, including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer using structural steel etc. as required. In stringers, treads, landings etc. of stair cases, including use of chequered plate wherever required, all complete	kg	1700			0.285494	
19	Supply, Fabrication, transportation, delivery at site and erection, installation and alignment of mild steel foundation bolt assembly conforming to IS:2062 and grade 1 of IS:432 in concrete along with nuts, lock nuts (as per IS:1363, 1364 and IS:3138), washers, anchor plates, stiffener plates, protective tape, pipe sleeves, templates etc. including welding, cutting, grinding, threading, drilling etc. all complete. (Similar item)	kg	50			0.011744	
20	Providing and fixing on wall face unplasticised Rigid PVC rain water pipes conforming to IS : 13592 Type A, including jointing with seal ring conforming to IS : 5382, leaving 10 mm gap for thermal expansion, (i) Single socketed pipes.	-	-				
a	75 mm diameter	metre	5			0.001803	
b	110 mm diameter	metre	100			0.054696	
21	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply, including all CPVC plain & brass threaded fittings, including fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and testing of joints complete as per direction of Engineer in Charge. Internal work - Exposed on wall	-	-				
a	15 mm nominal outer dia Pipes	metre	50			0.021655	
b	20 mm nominal outer dia Pipes	metre	50			0.027518	
c	25 mm nominal outer dia Pipes	metre	50			0.0331	
d	32 mm nominal outer dia Pipes	metre	50			0.043081	
e	40 mm nominal outer dia Pipes	metre	50			0.058147	
f	50 mm nominal outer dia Pipes	metre	50			0.081001	

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22	Providing & grouting of pocket holes, pipe sleeves and under base plates of structural steel work/ machinery/ pipe supporting structures including roughening of surface, cleaning, ramming, curing etc. all complete with ConbextraGP-1 or equivalent. (Cost of all material and cleaning of the pockets by compressed air shall be in the scope of the contractor).	cum	1			0.011978	
23	Supplying and stacking of hard stone (for stone pitching) 22.5 cm thick at site.	cum	4			0.006929	
24	Dry stone pitching 22.5 cm thick laid in courses and required profile with hammer dressed stones having no side less than 15 cm, with minimum depth of 20 cm including preparing the bedding surface etc. all complete. (Payment for Stone to be made separately).	sqm	4			0.003495	
25	Supply and fixing of 30thk FRP grating including all fixtures supported on RCC/steel members (similar item)	sqm	11			0.095683	
26	Providing and fixing unplasticised -PVC pipe clips of approved design to unplasticised -PVC rain water pipes by means of 50x50x50 mm hard wood plugs, screwed with M.S. screws of required length, including cutting brick work and fixing in cement mortar 1:4 (1 cement : 4 coarse sand) and making good the wall etc. complete.	-	-			-	
a	75 mm	each	20			0.010405	
b	110 mm	each	20			0.010356	
27	Providing and laying roof insulation with 40 mm thick impervious sprayed, closed cell free Rigid olyurethane foam over deck insulation conforming to IS - 12432 Pt. III (density of foam being 40-45 kg/ cum), over a coat of polyurethane primer applied @ 6-8 sqm per litre, laying 400 G polythene sheet over PUF spray and providing a wearing course of 40 mm thick cement screed 1:2:4 (1 cement : 2 coarse sand : 4 stone aggregate 20 mm nominal size) in chequered rough finish, in panels of 2.5 m x 2.5 m and mbedding with 24 G wire netting and sealing the joints with polymerized mastic, all complete as per direction of Engineer-in-Charge.	sqm	800			2.025697	
28	Providing and laying 60mm thick faciory made cement concrete interlocking paver block of M -30 grade made by block making machine with strong vibratory compaction, of approved size, design & shape, laid in required colour and pattern over and including 50mm thick compacted bed of coarse sand, filling the joints with line sand etc. all complete as per the direction of Engineer-in-charge.	sqm	160			0.246536	
29	FENCING Supplying at site :	-	-			-	
a	Welded steel wire fabric of required width having rectangular mesh painted with two or more coats of enamel paint of approved shade over a coat of primer (Priming & Painting to be paid for separately).	kg	500			0.066661	
b	Supplying and fixing turn buckles and straining bolts for barbed wire fencing.	each set	20			0.008558	
c	Supplying at site Angle iron post & strut of required size including bottom to be split and bent at right angle in opposite direction for 10 cm length and drilling holes upto 10 mm dia. etc. complete.	kg	100			0.016567	
30	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.	-	-			-	
a	Made of G.I. wire of dia 4 mm	sqm	20			0.028588	
b	Made of G.I. wire of dia. 4 mm, PVC coated to achieve outer dia not less than 5 mm in required colour and shade	sqm	10			0.014798	
31	Providing and fixing concertina coil fencing with punched tape concertina coil 600 mm dia 10 metre openable length (total length 90 m), having 50 nos rounds per 6 metre length, upto 3 m height of wall with existing angle iron 'Y' shaped placed 2.4m or 3.00 m apart and with 9 horizontal R.B.T. reinforced barbed wire, stud tied with G.I. staples and G.I. clips to retain horizontal, including necessary bolts or G.I. barbed wire tied to angle iron, all complete as per direction of Engineer-in-charge, with reinforced barbed tape(R.B.T.) / Spring core (2.5mm thick) wire of high tensile strength of 165 kg/ sq.mm with tape (0.52 mm thick) and weight 43.478 gm/ metre (cost of M.S. angle, C.C. blocks shall be paid separately)	metre	272			0.141824	
32	Providing and placing on terrace (at all floor levels) polyethylene water storage tank, IS : 12701 marked, with cover and suitable locking arrangement and making necessary holes for inlet, outlet and overflow pipes but without fittings and the base support for tank.	per litre	5000			0.078898	
33	Making plinth protection 50mm thick of cement concrete 1:3:6 (1 cement : 3 coarse sand (zone - III) : 6 graded stone aggregate 20 mm nominal size) over 75mm thick bed of dry brick ballast 40 mm nominal size, well rammed and consolidated and grouted with fine sand, including necessary excavation, levelling & dressing & finishing the top smooth.	sqm	125			0.137626	

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34	Providing and laying Non Pressure NP-3 class (Medium duty) R.C.C. pipes including collars/spigot jointed with stiff mixture of cement mortar in the proportion of 1:2 (1 cement : 2 fine sand) including testing of joints etc. complete	-	-			
a	450 mm dia RCC pipes.	metre	34			0.141673
b	600 mm dia RCC pipes.	metre	100			0.53514
35	Extra for providing and mixing water proofing material in cement concrete work in doses by weight of cement as per manufacturer's specification.	per 50kg cement	14119			1.431534
36	Providing and fixing aluminium work for doors, windows, ventilators and partitions with extruded built up standard tubular sections/appropriate Z sections and other sections of approved make conforming to IS: 733 and IS: 1285, fixing with dash fasteners of required dia and size, including necessary filling up the gaps at junctions, i.e. at top, bottom and sides with required EPDM rubber/ neoprene gasket etc. Aluminium sections shall be smooth, rust free, straight, mitred and jointed mechanically wherever required including cleat angle, Aluminium snap beading for glazing / paneling, C.P. brass / stainless steel screws, all complete as per architectural drawings and the directions of Engineer-in-charge. (Glazing, paneling and dash fasteners to be paid for separately) : For fixed portion Powder coated aluminium (minimum thickness of powder coating 50 micron)	kg	300			0.24545
37	For shutters of doors, windows & ventilators including providing and fixing hinges/ pivots and making provision for fixing of fittings wherever required including the cost of EPDM rubber / neoprene gasket required (Fittings shall be paid for separately) Powder coated aluminium (minimum thickness of powder coating 50 micron)	kg	100			0.097964
38	Providing and fixing glazing in aluminium door, window, ventilator shutters and partitions etc. with EPDM rubber / neoprene gasket etc. complete as per the architectural drawings and the directions of engineer-in-charge . (Cost of aluminium snap beading shall be paid in basic item):	-	-			
a	With float glass panes of 5 mm thickness (weight not less than 12.50 kg/ sqm)	sqm	150			0.348673
b	With float glass panes of 8 mm thickness (weight not less than 20 kg/ sqm)	sqm	60			0.157323
39	Providing and fixing powder coated aluminium work (minimum thickness of powder coating 50 micron) consisting of tee/ angle sections, of approved make conforming to IS : 733 in frames of false ceiling including aluminium angle cleats with necessary C.P. brass/stainless steel sunk screws, aluminium perimeter angles fixed to wall with stainless steel rawl plugs @ 450 mm centre to centre and fixing the frame work to G.I. level adjusting hangers 6 mm dia. with necessary cadmium plated machine screws all complete as per approved architectural drawings and direction of the Engineer-in-charge (level adjusting hangers, ceiling cleats and expansion hold fasteners to be paid for separately).	kg	30			0.036085
40	Filling the gap in between aluminium frame & adjacent RCC/ Brick/Stone work by providing weather silicon sealant over backer rod of approved quality as per architectural drawings and direction of Engineer-in-charge complete. Upto 5mm depth and 5 mm width	metre	100			0.014247
41	Providing and fixing double glazed hermetically sealed glazing in aluminium windows, ventilators and partition etc. with 6 mm thick clear float glass both side, having 12 mm air gap, including providing EPDM gasket, perforated aluminium spacers, desiccants, sealant (Both primary and secondary sealant) etc. as per specifications, drawings and direction of Engineer-in-charge complete.	sqm	30			0.210073
42	Providing and fixing aluminium tubular handle bar 32 mm outer dia, 3.0 mm thick & 2100 mm long with SS screws etc .complete as per direction of Engineer-in-Charge. Powder coated minimum thickness 50 micron aluminium tubular handle bar	each	40			0.040351

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43	Providing and fixing anodised aluminium (anodised transparent or dyed to required shade according to IS: 1868. Minimum anodic coating of grade AC 15) sub frame work for windows and ventilators Providing and fixing anodised aluminium (anodised transparent or dyed to required shade according to IS: 1868. Minimum anodic coating of grade AC 15) sub frame work for windows and ventilators	kg	50			0.031804
44	Providing and fixing aluminium casement windows fastener of required length for aluminium windows with necessary screws etc. complete. Powder coated minimum thickness 50 micron aluminium	each	50			0.006414
45	Providing and fixing aluminium round shape handle of outer dia 100 mm with SS screws etc. complete as per direction of Engineer-in-charge. Powder coated minimum thickness 50 micron aluminium	each	50			0.007495
46	Providing and fixing anodised aluminium grill (anodised transparent or dyed to required shade according to IS: 1868 with minimum anodic coating of grade AC 15) of approved design/pattern, with approved standard section and fixed to the existing window frame with C.P. brass/ stainless steel screws @ 200 mm centre to centre, including cutting the grill to proper opening size for fixing and operation of handles and fixing approved anodised aluminium standard section around the opening, all complete as per requirement and direction of Engineer-in-charge. (Only weight of grill to be measured for payment).	kg	400			0.372838
47	Supplying and fixing rolling shutters of approved make, made of required size M.S. laths, interlocked together through their entire length and jointed together at the end by end locks, mounted on specially designed pipe shaft with brackets, side guides and arrangements 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. 80x1.25 mm M.S. laths with 1.25 mm thick top cover.	sqm	9			0.04751
48	Providing and fixing ball bearing for rolling shutters.	each	25			0.01882
49	Extra for providing mechanical device chain and crank operation for operating rolling shutters. Exceeding 10.00 sqm and upto 16.80 sqm in the area	sqm	15			0.029761
50	Providing and fixing to existing door frames. 24 mm thick factory made PVC door shutters made of styles and rails of a uPVC hollow section of size 59x24 mm and wall thickness 2 mm (\pm 0.2 mm) with inbuilt edging on both sides. The styles and rails mitred and joint at the corners by means of M.S. galvanised/ plastic brackets of size 75x220 mm having wall thickness 1.0 mm and stainless steel screws. The styles of the shutter reinforced by inserting galvanised M.S. tube of size 20x20 mm and 1 mm (\pm 0.1 mm) wall thickness. The lock rail made up of 'H' section, a uPVC hollow section of size 100x24 mm and 2 mm (\pm 0.2 mm) wall thickness, fixed to the shutter styles by means of plastic/galvanised M.S. 'U' cleats. The shutter frame filled with a uPVC multi-chambered single panel of size not less than 620 mm, having over all thickness of 20 mm and 1 mm (\pm 0.1 mm) wall thickness. The panels filled vertically and tie bar at two places by inserting horizontally 6 mm galvanised M.S. rod and fastened with nuts and washers, complete as per manufacturer's specification and direction of Engineer-in-charge. (For W.C. and bathroom door shutter).	sqm	10			0.03157
51	Providing and fixing factory made P.V.C. door frame of size 50x47 mm with a wall thickness of 5 mm, made out of extruded 5mm rigid PVC foam sheet, mitred at corners and joined with 2 Nos of 150 mm long brackets of 15x15 mm M.S. square tube, the vertical door frame profiles to be reinforced with 19x19 mm M.S. square tube of 19 gauge, EPDM rubber gasket weather seal to be provided through out the frame. The door frame to be fixed to the wall using M.S. screws of 65/100 mm size, complete as per manufacturer's specification and direction of Engineer-in-Charge.	metre	16.8			0.011798

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52	Providing and laying autoclaved aerated cement blocks masonry with 150mm/230mm/300 mm thick AAC blocks in super structure above plinth level up to floor V level with RCC band at sill level and lintel level with approved block laying polymer modified adhesive mortar all complete as per direction of Engineer-in-Charge. (The payment of RCC band and reinforcement shall be made for seperately).	cum	300			3.570082
53	Random rubble masonry with hard stone in foundation and plinth including levelling up with cement concrete 1:6:12 (1 cement : 6 coarse sand : 12 graded stone aggregate 20 mm nominal size) upto plinth level with : Cement mortar 1:6 (1 cement : 6 coarse sand)	cum	120			1.316974
54	Demolishing brick work manually/ by mechanical means including stacking of serviceable material and disposal of unserviceable material within 50 metres lead as per direction of Engineer-in-charge.	-	-			-
a	In lime mortar	cum	5			0.005446
b	In cement mortar	cum	5			0.013178
55	Demolishing cement concrete manually/ by mechanical means including disposal of material within 50 metres lead as per direction of Engineer - in - charge. Nominal concrete 1:3:6 or richer mix (i/c equivalent design mix)	cum	10			0.031153
56	Providing and constructing brick masonry road gully chamber 50x45x60 cm with well burnt modular clay bricks crushing strength not less than 35kg/cm ² in cement mortar 1:4 (1 cement : 4 coarse sand) including 500x450 mm precast R.C.C. horizontal grating with frame complete as per standard design.(similar work)	cum	14			0.137942
57	Constructing brick masonry manhole in cement mortar 1:4 (1 cement : 4 coarse sand) with R.C.C. top slab with 1:1.5:3 mix (1 cement : 1.5 coarse sand (zone- III) : 3 graded stone aggregate 20 mm nominal size), foundation concrete 1:4:8 mix (1 cement : 4 coarse sand (zone- III) : 8 graded stone aggregate 40 mm nominal size), inside plastering 12 mm thick with cement mortar 1:3 (1 cement : 3 coarse sand) finished with floating coat of neat cement and making channels in cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) finished with a floating coat of neat cement complete as per standard design :	-	-			-
a	Inside size 90x80 cm and 45 cm deep including C.I. cover with frame (light duty) 455x610 mm internal dimensions, total weight of cover and frame to be not less than 38 kg (weight of cover 23 kg and weight of frame 15 kg) : With common burnt clay F.P.S. (non modular bricks of class designation 7.5	each	10			0.195531
b	Inside size 120x90 cm and 90 cm deep including C.I. cover with frame (medium duty) 500 mm internal diameter, total weight of cover and frame to be not less than 116 kg (weight of cover 58 kg and weight of frame 58 kg) : With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	each	6			0.246789
c	Inside size 120x90 cm and 90 cm deep including C.I. cover with frame (heavy duty) 560 mm internal diameter, total weight of cover and frame to be not less than 208 kg (weight of cover 108 kg and weight of frame 100 kg) : With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	each	3			0.154016
58	Extra for depth for manholes :	-	-			-
a	Size 90x80 cm With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	metre	10			0.134531
b	Size 120x90 cm With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	metre	7			0.112893
59	Extra depth for circular type manhole 0.91m internal dia (at bottom) beyond 0.91 m to 1.67 m With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	metre	3			0.034687
60	Providing and laying damp-proof course 50mm thick with cement concrete 1:2:4 (1 cement : 2 coarse sand(zone-III) : 4 graded stone aggregate 20mm nominal size).	sqm	20			0.015022
61	Extra for providing and mixing water proofing material in cement concrete work in doses by weight of cement as per manufacturer's specification.	per 50kg of cement	60			0.006083

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62	Providing & applying a coat of residual petroleum bitumen of grade of VG-10 of approved quality using 1.7kg per square metre on damp proof course after cleaning the surface with brushes and finally with apiece of cloth lightly soaked in kerosene oil.	sqm	10			0.001972
63	12 mm cement plaster of mix : 1:4 (1 cement: 4 fine sand)	sqm	1183			0.566031
64	20 mm cement plaster of mix : 1:4 (1 cement: 4 fine sand)	sqm	2133			1.396897
65	Finishing walls with water proofing cement paint of required shade : New work (Two or more coats applied @ 3.84 kg/10 sqm)	sqm	2133			0.34896
66	New work (Two or more coats applied @ 3.28 ltr/10 sqm) over and including priming coat of exterior primer applied @ 2.20kg/10 sqm	sqm	983			0.408921
67	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)	sqm	100			0.029531
68	Finishing walls with Premium Acrylic Smooth exterior paint with Silicone additives of required shade: New work (Two or more coats applied @ 1.43 ltr/10 sqm over and including priming coat of exterior primer applied @ 2.20 kg/10 sqm)	sqm	100			0.028895
69	Finishing with Epoxy paint (two or more coats) at all locations prepared and applied as per manufacturer's specifications including appropriate priming coat, preparation of surface, etc. complete.	-	-			-
a	On steel work	sqm	100			0.034023
b	On concrete work	sqm	200			0.067923
70	Providing and laying Ceramic glazed floor tiles of size 300x300 mm (thickness to be specified by the manufacturer) of 1st quality conforming to IS : 15622 of approved make in colours such as White, Ivory, Grey, Fume Red Brown, laid on 20 mm thick cement mortar 1:4 (1 Cement : 4 Coarse sand), Jointing with grey cement slurry @ 3.3 kg/sqm including pointing the joints with white cement and matching pigment etc., complete.	sqm	70			0.116338
71	52 mm thick cement concrete flooring with concrete hardener topping, under layer 40 mm thick cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) and top layer 12 mm thick cement hardener consisting of mix 1:2 (1 cement hardener mix : 2 graded stone aggregate 6 mm nominal size) by volume, hardening compound mixed @ 2 litre per 50 kg of cement or as per manufacturer's specifications. This includes cost of cement slurry, but excluding the cost of nosing of steps etc. complete.	sqm	50			0.070601
72	62 mm thick cement concrete flooring with concrete hardener topping, under layer 50 mm thick cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20mm nominal size) and top layer 12mm thick cement hardener consisting of mix 1:2 (1 cement hardener mix : 2 graded stone aggregate, 6mm nominal size) by volume, hardening compound mixed @ 2 litre per 50 kg of cement or as per manufacture's specifications. This includes cost of cement slurry, but excluding the cost of nosing of steps etc. complete.	sqm	330			0.505496
73	Providing and laying Polished Granite stone flooring in required design and patterns, in linear as well as curvilinear portions of the building all complete as per the architectural drawings with 18 mm thick stone slab over 20 mm (average) thick base of cement mortar 1:4 (1 cement : 4 coarse sand) laid and jointed with cement slurry and pointing with white cement slurry admixed with pigment of matching shade including rubbing , curing and polishing etc. all complete as specified and as directed by the Engineer-in-Charge. Polished Granite stone slab jet Black, Cherry Red, Elite Brown, Cat Eye or equivalent.	sqm	60			0.379399
74	Kota stone slab flooring over 20 mm (average) thick base laid over and jointed with grey cement slurry mixed with pigment to match the shade of the slab, including rubbing and polishing complete with base of cement mortar 1 : 4 (1 cement : 4 coarse sand) : :25 mm thick	sqm	70			0.192266

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S.No.	Description	Unit	Qty	Rate (Rs.)	Total amount (Rs.)	Weightage (%)	
A	B	C	D	E	F	G	
75	Kota stone slabs 20 mm thick in risers of steps, skirting, dado and pillars laid on 12 mm (average) thick cement mortar 1:3 (1 cement: 3 coarse sand) and jointed with grey cement slurry mixed with pigment to match the shade of the slabs, including rubbing and polishing complete.	sqm	10			0.032455	
76	Providing and fixing 1st quality ceramic glazed wall tiles conforming to IS: 15622 (thickness to be specified by the manufacturer), of approved make, in all colours, shades except burgundy, bottle green, black of any size as approved by Engineer-in-Charge, in skirting, risers of steps and dados, over 12 mm thick bed of cement mortar 1:3 (1 cement : 3 coarse sand) and jointing with grey cement slurry @ 3.3kg per sqm, including pointing in white cement mixed with pigment of matching shade complete.	sqm	50			0.092369	
77	Cement concrete pavement with 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size), including finishing complete.	cum	100			1.315207	
78	Extra for making chequers of approved pattern on cement concrete floors, steps, landing, pavements etc.	sqm	100			0.011333	
79	Providing and fixing stone slab with table rubbed, edges rounded and polished, of size 75x50 cm deep and 1.8 cm thick, fixed in urinal partitions by cutting a chase of appropriate width with chase cutter and embedding the stone in the chase with epoxy grout or with cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 6 mm nominal size) as per direction of Engineer-in-charge and finished smooth. Granite Stone of approved shade	sqm	4			0.023072	
80	Providing and injecting approved grout in proportion recommended by the manufacturer into racks/honey-comb area of concrete/masonry by suitable gun/pump at required pressure including cutting of nipples after curing etc. complete as per directions of Engineer-in-Charge. Epoxy injection grout in concrete/RCC work of approved make	kg	20			0.028413	
81	Supplying and laying of following size DWC HDPE pipe ISI marked along with all accessories like socket, bend, couplers etc. conforming to IS 14930, Part II complete with fitting and cutting, jointing etc.direct in ground (75 cm below ground level) including excavation and refilling the trench but excluding sand cushioning and protective covering etc., complete as required.	-	-			-	
a	90 mm dia (OD-90 mm & ID-76 mm nominal)	metre	30			0.013394	
b	120 mm dia (OD-120 mm & ID-103 mm nominal)	metre	155			0.09477	
c	160 mm dia (OD-160 mm & ID-135 mm nominal)	metre	10			0.008212	
d	200 mm dia (OD-200 mm & ID-175 mm nominal)	metre	10			0.010722	
82	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. (but without charcoal/ coke and salt) as required.	set	4			0.028925	
83	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.	each	14			0.133244	
84	Providing and fixing G.I. Pipes complete with G.I. fittings and clamps, i/c making good the walls etc. concealed pipe, including painting with anti corrosive bitumastic paint, cutting chases and making good the wall :	-	-			-	
a	15 mm dia nominal bore	metre	20			0.016051	
b	20 mm dia nominal bore	metre	20			0.017719	
85	Providing and fixing G.I. pipes complete with G.I. fittings including trenching and refilling etc. External work	-	-			-	
a	20 mm dia nominal bore	metre	20			0.010177	
b	25 mm dia nominal bore	metre	20			0.013073	
c	50 mm dia nominal bore	metre	20			0.02027	
86	Providing and fixing G.I. pipes complete with G.I. fittings and clamps, i/c cutting and making good the walls etc. Internal work - Exposed on wall	-	-			-	
a	20 mm dia nominal bore	metre	20			0.01234	

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S.No.	Description	Unit	Qty	Rate (Rs.)	Total amount (Rs.)	Weightage (%)
A	B	C	D	E	F	G
b	25 mm dia nominal bore	metre	20			0.015707
c	50 mm dia nominal bore	metre	20			0.028213
87	Providing and fixing brass bib cock of approved quality :					
a	15 mm nominal bore	each	20			0.01085
b	20 mm nominal bore	each	20			0.011706
88	Providing and fixing soil, waste and vent pipes 100mm dia Centrifugally cast iron socketed pipe as per IS 3989	metre	68			0.133167
89	Providing and fixing M.s. holder bat clamps of approved desing to sand cast iron/cst iron pipe embedded in and including cement concre blocks 10x10x10cm of 1:2:4 mix including cost of cutting holes and making goods the walls etc.: For 100 mm dia Pipe	Each	10			0.005154
90	Providing and fixing bend of required degree with access door, insertion rubber washer 3mm thick, bolts and bnuts complete: 100mm Sand cast iron S&S as per IS 3989	each	10			0.008278
91	Providing and fixing plain bend of required degree 100mm: Sand cast iron S&S as per IS : 3989	each	10			0.007006
92	providing and fixing heel rest sanitary bend 100 mm dia: sand cast iron S&S as per is -1729	each	10			0.008973
93	Providing and fixing single unequal plain junction of required degree: 100x 100x 75 mm: sand cast iron S&S as per IS 1729	each	5			0.00625
94	Providing and fixing single equal plain junction of required degree with access door, insertion rubber washer 3mm thick, bolts and nuts complete. 100x100x100mm Sand cast iron S&S as per IS 3989	each	10			0.012956
95	Providing and fixing stainless steel A ISI 304 (18/8) kitchen sink as per IS 13983 with CI brackets and stainless steel plug 40mm including painting of fittings and brackets, chitting and making good the walls wherever required : Kitchen sink with drain board: 510x 1040 mm bowl depth 200 mm	each	2			0.020025
96	Providing and fixing wash basin with CI Brackets, 15mm CP brass pillars taps 32mm CP brass waste of standard pattern, including painting of fitting and brackets, cutting and making good the walls wherever require:	-	-			-
a	White Vitreous China Flat back wash basin size 550 x 400 mm with single 15 mm C.P. brass pillar tap	each	3			0.013504
b	Stainless Steel AISI-304(18/8) Wash basin 530x345 mm with single 15 mm C.P. brass pillar tap	each	6			0.047951
97	P/F 600 x 450 mm beveled edge mirror of superior glass of approved quality complete with 6 mm thick hard board ground fixed to wooden cleats with C.P. brass screws and washers complete.	each	6			0.013803
98	P/F white viterous china pedestal type water closet (European type W.C. Pan) with seat and lid 10 litre low level white PVC flushing cistern with manually controlled device (handle lever) conforming to IS : 7231, with all fittings and fixtures complete including cutting and making good the walls and floors wherever required: WC pan with ISI marked white solid plstic seat and lid	each	3			0.028299
99	Providing and fixing white vitreous china flat back half stall urinal of size 580x380x350 mm with white PVC automatic flushing cistern, with fittings, standard size C.P. brass flush pipe, spreaders with unions and clamps (all in C.P. brass) with waste fitting as per IS : 2556, C.I. trap with outlet grating and other couplings in C.P. brass, including painting of fittings and cutting and making good the walls and floors wherever required : Single half stall urinal with 5 litre P.V.C. automatic flushing cistern	each	6			0.100703
100	Providing and fixing toilet paper holder : C.P. brass	each	6			0.00628
101	Providing and fixing square mounth SW gully trap grade A complete with CI grating brick masonry chamber with water tight CI cover with frame of 300x300mm size the weight of cover to be not less than 4.50kg and frame to be not less than 2.70kg as per standard design:	-	-			-
a	100x100mm size P type With FPS bricks class designation 75	each	2			0.008273
b	150 x 100 mm size P type With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	each	2			0.00831
c	180x150 mm size P type With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	each	2			0.008641
102	Providing and fixing white vitreous china water closet squatting pan (Indian type) : Orissa pattern W.C. pan of size 580x440 mm	each	2			0.009125
103	Providing and fixing PTMT liquid soap container 109 mm wide, 125 mm high and 112 mm distance from wall of standard shape with bracket of the same materials with snap fittings of approved quality and colour, weighing not less than 105 gms.	each	4			0.001137

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S.No.	Description	Unit	Qty	Rate (Rs.)	Total amount (Rs.)	Weightage (%)
A	B	C	D	E	F	G
104	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.	each	4			0.004271
105	Preparation & consolidation of sub grade with power road roller of 8 to 12 tonne capacity after excavating earth to an average of 22.5cm depth, dressing to camber and consolidating with road roller including making good the undulations etc. and re-rolling the sub grade and disposal of surplus earth lead upto 50 metres.	Sqm	230			0.064644
106	Providing and laying 75 mm thick compacted bed of dry brick aggregate of 40 mm thick nominal size including spreading, well ramming, consolidating and grouting with jamuna sand, including finishing smooth etc. complete as per direction of Engineer-in-charge.	Sqm	230			0.072872
107	Trenching in ordinary soil upto a depth of 60cm including removal and stacking of serviceable materials and then disposing of by spreading and neatly leveling with in a lead of 50m and making up the trenched area to proper levels by filling with earth or earth mixed with sludge or/and manure before and after flooding trench with water (excluding cost of imported earth, sludge or manure).	cum	400			0.095009
108	Uprooting weeds from the trenched area after 10 to 15 days of its flooding with water including disposal of uprooted vegetation.	sqm	400			0.001322
109	Digging holes in ordinary soil and refilling the same with the excavated earth mixed with manure or sludge in the ratio of 2:1 by volume (2 parts of stacked volume of earth after reduction by 20% : 1 part of stacked volume of manure after reduction by 8%) flooding with water, dressing including removal of rubbish and surplus earth, if any with all leads and lifts (cost of manure, sludge or extra good earth if needed to be paid for separately) :					
a	Holes 1.2 m dia and 1.2 m deep	each	7			0.003961
b	Holes 60 cm dia, and 60 cm deep	each	7			0.000477
110	Grassing with 'Doob' grass including watering and maintenance of the lawn for 30 days or more till the grass forms a thick lawn free from weeds and fit for mowing including supplying good earth if needed (the good earth shall be paid for separately). In rows 5 cm apart in either direction.	sqm	200			0.002726
111	Providing and planting following herbs in garden including preparation of soil, base plantation, providing and spreading different fertilizers, soil and sand: Carpet grass (well developed)	sqm	300			0.16296
112	Edging with modular well burnt clay bricks of crushing strength not less than 25kg/ sqcm laid dry length wise including excavation, refilling, consolidating with hand packing and spreading neatly surplus earth within a lead of 50 m :	meter	272			0.016011
113	Providing and planting following herbs in garden including preparation of soil, base plantation, providing and spreading different fertilizers, soil and sand:					
a	Hedges like Alife, Dorenta, Tikoma etc	each	272			0.007865
b	Hibiscus (Flower)/ Rose	each	34			0.001861
114	Half brick circular tree guard in modular well burnt clay bricks of crushing strength not less than 25kg/ sqcm, internal diameter 1.25 metre and height 1.2 metre above ground and 0.20 m below ground bottom two courses laid dry and top three courses in cement mortar 1:6 (1 cement : 6 fine sand) and the intermediate courses being in dry honey comb masonry as per design complete:	each	8			0.020505
115	Supplying and stacking at site well decayed cow dung manure from approved source, including loading, unloading and carriage upto 5 km (manure measured in stacks will be reduced by 8% for payment).	cum	8			0.003899

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S.No.	Description	Unit	Qty	Rate (Rs.)	Total amount (Rs.)	Weightage (%)
A	B	C	D	E	F	G
116	Boring, providing and installation bored cast-in-situ reinforced cement concrete piles of grade M-25 of specified diameter and length below pile cap, to carry a safe working load not less than specified, excluding the cost of steel reinforcement but including the cost of boring with bentonite solution and temporary casing of appropriate length for setting out and removal of same and the length of the pile to be embedded in the pile cap etc. by Crawler mounted, telescopic boom hydraulic piling Rig all complete, including removal of excavated earth with all its lifts and leads (length of pile for payment shall be measured up to bottom of pile cap). Length of pile shall be upto 10m including socketing of 3 D to 5D in Weathered/Highly Weathered rock Note: Truck Mounted rotary/TMR/Tube well boring machine shall not be used. 500 mm dia piles	metre	840			5.236269
117	Vertical load testing of piles in accordance with IS 2911 (Part IV) including installation of loading platform by Kentledge/Anchor piles method and preparation of pile head or construction of test cap and dismantling of test cap after test etc. complete as per specification & the direction of Engineer in-charge. Note: 1. Initial and Routine Load Test shall not be carried out by Dynamic method of testing. Note: 2. Testing agency shall submit the design of loading platform for the approval of Engineer-in-charge. Single pile above 50 tonne and upto 100 tonne Safe capacity	-	-			-
a	Initial test (Test Load 2.5 times the Safe capacity)	per test	1			0.107953
b	Routine test (Test Load 1.5 times the Safe capacity)	per test	1			0.055176
118	Lateral load testing of single pile in accordance with IS Code of practice IS : 2911 (Part IV) for determining safe allowable lateral load on pile : Above 50 tonne and upto 100 tonne capacity pile	per test	1			0.056616
119	Integrity testing of Pile using Low Strain/ Sonic Integrity Test/ Sonic Echo Test method in accordance with IS 14893 including surface preparation of pile top by removing soil, mud, dust & chipping lean concrete lumps etc. and use of computerised equipment and high skill trained personal for conducting the test & submission of results, all complete as per direction of Engineer-in-charge.	per test	1			0.001683
120	Providing and laying in position bitumen hot sealing compound for expansion joints etc. 16.46.1 Using grade 'A' sealing compound.	per cm depth per cm width per metre length	20			0.000118
121	Providing and Placing in position suitable PVC water stops conforming to IS:12200 for construction/ expansion joints between two RCC members and fixed to the reinforcement with binding wire before pouring concrete etc. complete :	-	-			-
a	Serrated with central bulb (225 mm wide, 8-11 mm thick)	metre	50			0.02539
b	Serrated with central bulb (230 mm wide, 8-11 mm thick)	metre	50			0.02539
122	Providing & Laying Double Flanged (PN10 Screwed) Centrifugally Spun Ductile Iron Pipes Of Class K-9 Conforming To IS-8329 80mm dia Ductile iron double flanged	meter	100			0.274754
123	Providing & Laying Double Flanged (PN10 Screwed) Centrifugally Spun Ductile Iron Pipes Of Class K-9 Conforming To IS-8329 100mm dia Ductile iron double flanged	meter	100			0.274754
124	Providing & Laying Double Flanged (PN10 Screwed) Centrifugally Spun Ductile Iron Pipes Of Class K-9 Conforming To IS-8329 150mm dia Ductile iron double flanged	meter	100			0.412182
125	Providing & Laying Double Flanged (PN10 Screwed) Centrifugally Spun Ductile Iron Pipes Of Class K-9 Conforming To IS-8329 200mm dia Ductile iron double flanged	meter	120			0.624243
126	Providing & Laying Double Flanged (PN10 Screwed) Centrifugally Spun Ductile Iron Pipes Of Class K-9 Conforming To IS-8329 250mm dia Ductile iron double flanged	meter	50			0.368966
127	Providing & Laying Double Flanged (PN10 Screwed) Centrifugally Spun Ductile Iron Pipes Of Class K-9 Conforming To IS-8329 300mm dia Ductile iron double flanged	meter	10			0.0948

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A	B	C	D	E	F	G
128	Providing & Laying Double Flanged (PN10 Screwed) Centrifugally Spun Ductile Iron Pipes Of Class K-9 Conforming To IS-8329 350mm dia Ductile iron double flanged	meter	10			0.119364
129	Providing & Laying Socket & Spigot End Centrifugally Spun Ductile Iron Pipes Of Class K-9 Conforming To IS-8329	meter	300			0.577449
130	80mm dia Ductile Iron class K-9 Pipes including cutting & making push on joint along with rubber gasket	Joint	300			0.049303
131	Providing & Laying Socket & Spigot End Centrifugally Spun Ductile Iron Pipes Of Class K-9 Conforming To IS-8329	meter	50			0.096242
132	100mm dia Ductile Iron class K-9 Pipes including cutting & making push on joint along with rubber gasket	Joint	50			0.008217
133	Providing & Laying Socket & Spigot End Centrifugally Spun Ductile Iron Pipes Of Class K-9 Conforming To IS-8329	meter	30			0.08677
134	150mm dia Ductile Iron class K-9 Pipes including cutting & making push on joint along with rubber gasket	Joint	30			0.008061
135	Providing & Laying Socket & Spigot End Centrifugally Spun Ductile Iron Pipes Of Class K-9 Conforming To IS-8329	meter	150			0.594659
136	200mm dia Ductile Iron class K-9 Pipes including cutting & making push on joint along with rubber gasket	Joint	150			0.059127
137	Providing & Laying Socket & Spigot End Centrifugally Spun Ductile Iron Pipes Of Class K-9 Conforming To IS-8329	meter	50			0.276306
138	250mm dia Ductile Iron class K-9 Pipes including cutting & making push on joint along with rubber gasket	Joint	50			0.024067
139	Providing & Laying Socket & Spigot End Centrifugally Spun Ductile Iron Pipes Of Class K-9 Conforming To IS-8329	meter	20			0.138193
140	300mm dia Ductile Iron class K-9 Pipes including cutting & making push on joint along with rubber gasket	Joint	20			0.012569
141	Providing & Laying Socket & Spigot End Centrifugally Spun Ductile Iron Pipes Of Class K-9 Conforming To IS-8329	meter	20			0.169011
142	350mm dia Ductile Iron class K-9 Pipes including cutting & making push on joint along with rubber gasket	Joint	20			0.013336
143	Providing of Structural steel material including ISA angles, ISMC channels, ISMB beams and IS2062 GRE250(FE410W) plates (1 quintal = 100 Kg)	Quintal	100			0.77969
144	Providing & fixing of Anchor fastners.Hilti bolts : HST M12	nos	24			0.012095
145	Providing & fixing of Anchor fastners.Hilti bolts : HST M16	nos	24			0.023496
146	Providing & fixing of Anchor fastners.Hilti bolts : HST M20	nos	24			0.045852
147	Providing & fixing of Anchor fastners.Hilti bolts : HST M24	nos	24			0.064936
148	Providing & laying of Flexible metallic hoses up to sizes 150 NB along with hose clips and accessories	nos	100			0.041308
149	Providing and fixing of HDPE Tank	Nos	1			0.024785
150	Providing and fixing of Service water distribution pumps	Nos	2			0.177625
151	Providing 3-D Model of Plant and illuminated process chart	Nos	1			0.154905
152		Meter				
					Total Weightage (%)	100.00
	Total amount in figures, Rs. =					
	Total amount in words, Rs. =					
Note:						
1	Bidders should quote only the Total Amount both in figures & words in the specified place. They should not fill/quote/write anything in col. (E) & (F) . These rates & amount will be derived from the Total amount quoted and weightage (%) factor assigned against respective items indicated in col. G.					
2	Evaluation Shall be based on total amount quoted by bidder.					
3	The rate and amount are inclusive of all applicable taxes, except for the GST. For details of taxes, clause no. 7.0 of the TCC will be applicable.					