

PRICE BID FORMAT

Tender Ref No.T7D1Q13632

Volume-II of NIT

Name of the Work: Civil, Structural & Architectural works for Six (6) Nos. Sewage Treatment Plant for Raipur Development Authority, Raipur Chhattisgarh.

PROJECT: STP, RDA, RAIPUR, CHHATTISGARH					Grand Total of all STP's		% allocation of overall amount	Remarks
Item. NO.	DESCRIPTION	UNIT	Multiplying factor for deriving rate (Total price quoted by the bidder will be multiplied with this factor to determine rate)	Rate Rs	Quantity	Amount in Rs.		
A	B	C	D	E	F	G	H	I
1	Excavation for all types and sizes of foundations, trenches and drains or for any other purpose including disposal of excavated stuff upto 1.5 m lift and lead upto 50m (at least 5m away from the excavated area), including dressing and leveling of pits. In all types of soils.	Cum	0.000000900		27,992.32		2.519	
2	Extra for every additional lift of 1.5 m or part thereof. All types of soils	Cum	0.000000129		26,377.66		0.340	
3	Excavation for all types and sizes of foundations, trenches and drains or for any other purpose including disposal of excavated stuff upto 1.5 m lift and lead upto 50m (at least 5m away from the excavated area), including dressing and leveling of pits. In ordinary rocks.	Cum	0.000001299		74.91		0.010	
4	Extra for every additional lift of 1.5 m or part thereof. Ordinary or hard rocks	Cum	0.000000231		296.02		0.007	
5	Filling from available excavated stuff (Excluding rock) in trenches, plinth, sides of foundation etc. in layers not exceeding 20cm in depth consolidating each deposited layer by ramming and watering with a lead upto 50 M. and lift upto 1.5 M.	Cum	0.000000316		1,837.58		0.058	
6	Carriage by mechanical transport upto 5 km lead: Earth	Cum	0.000000540		794.24		0.043	
7	Supplying and filling CNS upto any depth under floors, around foundations, plinths etc. in layers not exceeding 250 mm thickness and compacted using vibratory roller so as to achieve at least 95% relative density as per IS-2720 (Part-XIV) including spreading, watering, ramming/compaction by manual / mechanical means, dressing, royalty (if any) etc. all complete.	Cum	0.000004465		19,213.28		8.578	
8	Earth work in filling upto any depth below/ above ground level for grading to proper grade and level in layers not exceeding 250 mm loose thickness with excavated earth and compacted as specified including sorting, spreading, breaking clods, watering, ramming/compaction by manual/mechanical means, dressing, finishing to required lines, grades and slopes, tesing, all lead and lifts etc all complete as per specification, drawing and as directed by the engineer for the following. Each layer compacted so as to achieve at least 85% maximum dry density as per IS-2720 (Part-VI)	Cum	0.000001177		5,878.27		0.692	
9	Providing and laying nominal mix plain cement concrete with crushed stone aggregate using concrete mixer in all works upto plinth level excluding cost of form work. 1:4:8 (1 cement : 4 coarse sand : 8 graded stone aggregate 40mm nominal size).	Cum	0.000012936		148.92		0.193	
10	Providing and laying nominal mix plain cement concrete with crushed stone aggregate using concrete mixer in all works upto plinth level excluding cost of form work. 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 40mm nominal size).	Cum	0.000014449		112.81		0.163	
11	Providing and laying nominal mix plain cement concrete with crushed stone aggregate using concrete mixer in all works upto plinth level excluding cost of form work. 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 40mm nominal size).	Cum	0.000017280		296.02		0.512	
12	Providing and laying nominal mix plain reinforced cement concrete with crushed stone aggregate using concrete mixer in all works upto plinth level excluding cost of form work. 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20mm nominal size).	Cum	0.000028084		185.93		0.522	
13	Providing and laying design mix reinforced cement concrete with crushed graded stone aggregate 20mm nominal size using batching plant, transit mixer and concrete pump, in all works upto plinth level excluding cost of form work. M-25 Grade	cum	0.000020910		1,029.81		2.153	
14	Providing and laying design mix reinforced cement concrete with crushed graded stone aggregate 20mm nominal size using batching plant, transit mixer and concrete pump, in all works above plinth level excluding cost of form work. M-25 Grade	cum	0.000021384		1,176.92		2.517	

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15	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.	cum	0.000023191		74.91		0.174	
16	Providing and laying M30 Grade design mix reinforced cement concrete with crushed graded stone aggregate 20mm nominal size using batching plant, transit mixer and concrete pump(excluding cost of form work.): in all works upto plinth level	cum	0.000021221		4,630.03		9.825	
17	Providing and laying M30 Grade design mix reinforced cement concrete with crushed graded stone aggregate 20mm nominal size using batching plant, transit mixer and concrete pump(excluding cost of form work.): in all works above plinth level	cum	0.000021695		1,985.57		4.308	
18	Demolishing R.C.C. work including stacking of steel bars and disposal of unserviceable material within 50 metre lead.	cum	0.000003736		58.66		0.022	
19	Extra over Sl. No. 20 for cutting reinforcement bars in R.C.C. or R.B work. (Crossectional area of RCC/RB work to be measured)	sqm	0.000002175		104.69		0.023	
20	Providing and laying nominal mix plain cement concrete with crushed stone aggregate using concrete mixer in all works upto plinth level excluding cost of form work. 1:1½:3 (1 cement : 1½ coarse sand : 3 graded stone aggregate 20mm nominal size).	cum	0.000019815		736.49		1.459	
21	Providing and fixing form work including centring, shuttering, strutting, staging, propping bracing etc. complete and including its removal at all levels, for: Foundations, footings, bases of columns plinth beam, curtain wall in any shape and size and all type of wall below plinth level.	sqm	0.000000676		1,471.14		0.099	
22	Providing and fixing form work including centring, shuttering, strutting, staging, propping bracing etc. complete and including its removal at all levels, for: Wall of any thickness including attached pilasters, buttresses etc. in superstructure.	sqm	0.000001109		14,693.36		1.630	
23	Providing and fixing form work including centring, shuttering, strutting, staging, propping bracing etc. complete and including its removal at all levels, for: Suspended floors, roofs, access platform, balconies (plain surfaces) and shelves (cast in situ)	sqm	0.000001143		5,510.91		0.630	
24	Providing and fixing form work including centring, shuttering, strutting, staging, propping bracing etc. complete and including its removal at all levels, for: Beams, lintels, cantilevers & walls	sqm	0.000000983		1,471.14		0.145	
25	Providing and fixing form work including centring, shuttering, strutting, staging, propping bracing etc. complete and including its removal at all levels, for: Columns, Pillars, Piers and likes- rectangular or square in shape	sqm	0.000001445		1,471.14		0.213	
26	Providing and fixing form work including centring, shuttering, strutting, staging, propping bracing etc. complete and including its removal at all levels, for: Stair cases of all types excluding spiral and folded plate type, including risers and landings	sqm	0.000001119		736.49		0.082	
27	Providing and placing in position reinforcement for R.C.C. work including straightening, cutting, bending, binding etc. complete as per drawings including cost of binding wire in foundation and plinth all complete: Thermo-Mechanically treated bars FE 500D	Kg	0.000000265		1,035,882.52		27.466	

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28	Providing and laying integral cement based water proofing treatment on roofs, balconies, terraces etc with average thickness of 120mm and minimum thickness at khurra as 65 mm, consisting of following operations including surface preparation: i) Applying a slurry coat of neat cement using 2.75 kg/sqm. of cement mixed with water proofing compound conforming to IS. 2645 over the RCC slab including adjoining walls upto 300mm height. ii) Laying brick bats with mortar using broken bricks/brick bats 25 mm to 115mm size with 50% of cement mortar 1:5 (1 cement : 5 coarse sand) mixed with water proofing compound conforming to IS : 2645 over 20 mm thick layer of cement mortar of mix 1:5 (1 cement :5 coarse sand) mixed with water proofing compound conforming to IS : 2645 to required slope and treating similarly the adjoining walls upto 300 mm height including rounding of junctions of walls and slabs. iii) After two days of proper curing applying a second coat of cement slurry using 2.75kg/ sqm of cement admixed with water proofing compound conforming to IS : 2645. iv) Finishing the surface with 20 mm thick jointless cement mortar of mix 1:4 (1 cement :4 coarse sand) mixed with water proofing compound conforming to IS : 2645 including laying glass fibre cloth of approved quality in top layer of plaster and finally finishing the surface with trowel with neat cement slurry and making pattern of 300x300 mm square 3mm deep. v) The whole terrace so finished shall be flooded with water for a minimum period of two weeks for curing and for final test.	sqm	0.000002973		1,471.14		0.437	
29	Providing and fixing in position impregnated fibre board conforming to IS:1838 in expansion joints, including cost of primer, sealing compound all complete. 25mm thick	SQM	0.000003736		74.91		0.028	
30	Providing and filling in position, blown bitumen in expansion joints per cm. depth and per cm width.	meter	0.000000025		369.92		0.001	
31	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 : Serrated with central bulb (225mm wide 8-11mm thick)	meter	0.000002214		1,836.96		0.407	
32	Supply, fabricating and fixing of mild steel embedments, inserts, pipe sleeves, angle pieces, rungs of various diameters, plates of dimensions as required etc. including welding, bolting, cutting, drilling, scaffolding, setting etc. all complete.	Kg	0.000000348		37,630.00		1.309	
33	Fixing of embedments, inserts, pipe sleeves, angle pieces, anchor bolts of various diameters, plates of dimensions as required etc. including scaffolding, setting in position, transportation from BHEL site stores to work spot etc. all complete.	Kg	0.000000348		5,000.00		0.174	
34	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, stiffner plates, protective tape, pipe sleeves, templates etc. including welding, cutting, grinding, threading, drilling etc. all complete.	Kg	0.000000348		5,000.00		0.174	
35	Supplying, fabricating, erecting and installing PVC pipes / conduits of all diameters items in concrete/brickwall for all kind of works, including setting material in concrete, layout, scaffolding, cutting, forming, grinding, drilling, bolting, welding, jointing, testing etc. all complete. (1 quintal = 100 Kg)	Quintal	0.000002141		38.80		0.008	
36	Providing and fixing Dash fastener (for fixing door/ window frames) on C.C. / R.C.C./ Brick masonry surface backing including drilling necessary holes and the cost of bolt etc complete.							
a	Dash fastener 6x75mm	each	0.000000100		1,344.00		0.013	
b	Dash fastener 10x75mm	each	0.000000134		1,344.00		0.018	
c	Dash fastener 12x100mm	each	0.000000190		1,344.00		0.026	
37	Providing and fixing expandable fasteners of specified size with necessary plastic sleeves and galvanized M.S screws including drilling holes in masonry work /CC/ R.C.C by drilling machine and making good etc complete.							

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A	B	C	D	E	F	G	H	I
a	32 mm long	each	0.000000102		1,344.00		0.014	
b	40 mm long	each	0.000000134		1,344.00		0.018	
c	50 mm long	each	0.000000146		1,344.00		0.020	
38	Providing post water proofing treatment against dampness & Seepage in walls of basement, plinth, super structure (horizontal or vertical) consisting of following operations: i) Removing loose material and cleaning the surface. ii) Drilling 20mm dia holes in walls/ floor in zigzag manner spacing not more than 150 mm center to center. iii) Injecting polymer based high strength water proofing compound of approved brand & make, admixed with cement in the ratio as specified by manufacturer, in holes by pressure pump. iv) Plugging holes with polymer compound admixed with cement. v) Providing and laying of bonding slurry prepared by mixing of cement with approved make and brand acrylic polymer (as per IS 13435 Part-3) in two layers (totaling up-to 3mm thick) by brush. Second layer to be laid after 4 hours of first layer. vi) Providing and laying 15mm thick cement plaster in cement mortar 1:4 (1 cement : 4 coarse sand) and finishing the surface with neat cement admixed with integral water proofing compound (IS: 2645) as per manufacturers recommendations.	SQM	0.000003498		185.93		0.065	
39	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	0.000026224		5.46		0.014	
40	Providing wood work in frames of doors, windows, clerestory windows and other frames wrought framed and fixed in position. Teak wood	CUM	0.000558296		9.02		0.504	
41	Providing and fixing flush door shutters, conforming to IS : 2202 (Part-I), decorative type core of block board construction with frame of first class hard wood and well matched teak ply veneering with vertical grains or cross bands and face veneers on both faces of shutters excluding hinges. 35 mm. thick (single leaf)	sqm	0.000009754		324.74		0.317	
42	Extra for providing vision panel not exceeding 0.10 sqm in all type of flush shutters (excluding cost of glass) Rectangular or square	each	0.000000336		10.00		0.000	
43	Providing and fixing bright finished brass tower bolts (barrel type) with brass polished MS screws complete:				-		-	
a	250x10mm	each	0.000001343		39.00		0.005	
b	150x10mm	each	0.000000856		77.00		0.007	
44	Providing and fixing brass door latch with brass polished MS screws complete:							
a	300x16x5 mm	each	0.000001936		39.00		0.008	
b	250x16x5 mm	each	0.000001304		77.00		0.010	
45	Providing and fixing of bright finished brass mortise latch and lock 100x65mm with six levers and a pair of lever handles with brass polished MS screws etc. complete.	each	0.000004724		76.00		0.036	
46	Providing and fixing special quality bright finished brass cupboard or wardrobe locks with four levers including necessary screws etc. complete (best make of approved quality) : 40 mm	each	0.000000506		40.00		0.002	
47	Providing and fixing antique/ SS finished brass handles with antique/ SS polished MS screw complete:							
a	125 mm	each	0.000000285		76.00		0.002	
b	100 mm	each	0.000000253		38.00		0.001	
c	75 mm	each	0.000000151		38.00		0.001	
48	Providing and fixing bright finished brass hanging door stopper with necessary brass finished MS steel screws complete.	each	0.000000214		73.00		0.002	

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49	Providing and fixing aluminium work for doors, windows, ventilators and partitions made out of extruded aluminium standard sections (main section with minimum 1.5mm thickness) conforming to IS: 733, IS: 1285 mitred and jointed mechanically including aluminium cleats, neoprene weather stripping gasket beveled edge beading, screws duly fixed in wall/floor with fixing clips or hold fasteners or bolts and nuts as required aluminium sections shall be anodized transparent or dyed to approved shade according to IS: 1868, minimum anodic coating shall be of grade AC-15. (Glazing to be paid for separately:							
a	For fixed portion	kg	0.000001610		974.74		0.157	
b	For shutter of doors, windows & ventilators including providing and making provision for fixing of fitting wherever required including the cost of PVC/neoprene gasket required (Fittings shall be paid for separately).	kg	0.000001644		1,103.80		0.182	
50	Providing and fixing 12mm thick pre-laminated particle board flat pressed with decorative lamination and balancing lamination on specified sides exterior Grade – I MDF Board 12 mm thick confirming to IS:14587, including fixed in aluminium doors, windows shutters and partition frames with C.P. brass/ stainless steel screws etc. complete. With decorative lamination on both side	sqm	0.000004408		148.92		0.066	
51	Providing and fixing IS: 3564 marked aluminium die cast body tubular type universal hydraulic door closer with necessary accessories and screws etc complete.	each	0.000007054		38.00		0.027	
52	Providing and fixing IS: 3564 marked aluminium extruded section body tubular type universal hydraulic door closer with double speed adjustment with necessary accessories and screws etc complete.	each	0.000005123		38.00		0.019	
53	Supplying and fixing rolling shutter of approved makes made of 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 out side locking with push and pull arrangement complete but excluding the cost of top cover and spring.	sqm	0.000008227		46.05		0.038	
54	Providing and fixing 27.5cm long wire spring for rolling shutters.	each	0.000001761		18.00		0.003	
55	Providing and fixing M.S. sheet top cover for rolling shutter 1.25mm thick	sqm	0.000002627		44.00		0.012	
56	Providing and fixing ball bearing for rolling shutters.	each	0.000002058		132.00		0.027	
57	Providing and fixing mechanical device chain and crank operation for operating rolling shutters	set	0.000027594		90.00		0.248	
58	Providing and fixing glazing in aluminium door, window, ventilator shutters and partitions etc. with PVC/ neoprene gasket etc. complete. (Cost of aluminium snap beading shall be paid in basic item): With float glass panes of 6 mm thickness	sqm	0.000003911		369.14		0.144	
59	Providing and fixing glazing in aluminium door, window, ventilator shutters and partitions etc. with PVC/ neoprene gasket etc. complete. (Cost of aluminium snap beading shall be paid in basic item): With float glass panes of 6 mm thickness	sqm	0.000003911		185.93		0.073	
60	Providing and fixing factory made PVC door shutters of specified thickness made of styles and rails of a UPVC hollow section of specified size 59x24 mm and wall thickness 2 mm ± 0.2 mm with inbuilt edging on both sides. The styles and rails mitred and jointed 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. 24 mm thick door shutters with styles and rails of size 59x24 mm	sqm	0.000011671		74.91		0.087	

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61	Providing and fixing factory made UPVC door frame made of UPVC profile section having an overall dimension as below (tolerance ± 1mm) with wall thickness 2.0mm ± 0.2mm, corners of the door frame to be jointed with galvanized brackets and stainless steel screws, joints mitred and plastic welded. The hinge side vertical of the frames reinforced by galvanized M.S. tube of size 19 X 19mm and 1mm ± 0.1mm wall thickness and 3 nos. stainless steel hinges fixed to the frame complete as per manufacturers specification and direction of Engineer-in-charge Extruded section Profile size 48x40 mm.	meter	0.000000929		39.90		0.004	
62	Brick work with modular well burnt clay bricks of crushing strength not less than 35 kg/sqcm and water absorption not more than 20% in foundation and plinth in: Cement Mortar 1:4 (1 Cement : 4 Coarse Sand)	cum	0.000019509		771.44		1.505	
63	Extra for brick work in superstructure above plinth level for every floor or part thereof in addition to rate for foundation and plinth:	cum	0.000000589		1,733.79		0.102	
64	Half brick thick honey comb brick work with modular well burnt clay bricks of crushing strength not less than 35 kg/sqcm and water absorption not more than 20% upto plinth level. Cement Mortar 1:4 (1 cement : 4 coarse sand)	sqm	0.000001601		664.28		0.106	
65	Extra for half brick thick honey comb brick work in superstructure above plinth level for every story or part thereof in addition to rate for upto plinth level:	sqm	0.000000058		664.28		0.004	
66	Dismantling bricks laid flat or on edge (each layer), or cement concrete tiles in flooring or over roofs in cement/lime mortar including stacking of serviceable material and disposal of unserviceable material within 50 metre lead.	sqm	0.000000109		9.02		0.000	
67	Providing and laying damp proof course (upto 50mm thick) with plain cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded crushed stone aggregate 20mm nominal size) including form work.	cum	0.000020613		93.87		0.193	
68	Providing and mixing water proofing material in PCC/ RCC work in the proportion recommended by the manufacturer.	kg	0.000000212		270.78		0.006	
69	Applying a coat of hot bitumen VG-10 using @ 1.7kg/ sqm on damp proof course after cleaning the surface with brushes and finally with a piece of cloth lightly soaked in kerosene oil.	sqm	0.000000455		148.92		0.007	
70	Providing 20mm thick plaster with Water proofing compound conforming to IS 2645 in two layers(13mm+7mm) outside the building/boundary wall in cement mortar 1:4 on walls, finished to a smooth finish including providing 3mmx3mm size grooves at junctions of two dissimilar materials all complete.	sqm	0.000000903		7,510.05		0.678	
71	Providing and making 12mm thick cement plaster of mix in Cement Mortar 1:4 (1 cement : 4 fine sand)	sqm	0.000000501		5,381.15		0.270	
72	Providing and making 6mm thick cement plaster of mix: In Cement mortar 1:4 (1 cement : 4 fine sand)	sqm	0.000000423		2,204.90		0.093	
73	White washing with lime to give an even shade. On new work (Three or more coats)	sqm	0.000000046		5,510.91		0.025	
74	Distemping with oil bound washable distemper of approved brand and manufacture to give an even shade : New work (two or more coats) over and including water thinnable priming coat with cement primer	sqm	0.000000456		1,837.58		0.084	
75	Distemping with acrylic washable distemper to give an even shade. On new work (Two or more coats)	sqm	0.000000185		1,837.58		0.034	
76	Painting on new work (two or more coats) to give an even shade with: Black anti-corrosive bitumastic paint	sqm	0.000000187		14,693.36		0.275	
77	Finishing walls with water proofing cement paint of required shade to give an even shade. On new work (Two or more coats applied @ 3.84 kg/10 sqm)	sqm	0.000000199		14,693.36		0.293	
78	Painting exterior surface with ACRYLIC SMOOTH exterior paint of required shade as per manufacturer's specifications to give protective and decorative finish including cleaning washing of surface etc. complete with: On 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	0.000000272		1,837.58		0.050	

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79	52 mm thick cement concrete flooring with under layer of 40mm thick cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20mm nominal size) and top layer of 12 mm thick cement metallic hardener concrete mix 1:2 (1 cement hardener mix : 2 stone aggregate of 6 mm size by volume) with metallic hardening compound of approved quality mixed with cement in ratio of 4:1 (4 cement : 1 metallic floor hardening compound by weight) including finishing etc. complete.	sqm	0.000002145		1,471.14		0.316	
80	25 mm thick KOTA stone slab flooring over 20mm (Average) thick base of cement mortar 1:4 laid over and jointed with grey cement slurry mixed with pigment to match the shade of the slab including grinding rubbing and polishing etc. complete (Area of slab to be over 0.20 sqm and upto 0.50 sqm)	sqm	0.000004364		185.93		0.081	
81	Providing and laying rectified ceramic glazed floor tiles of size 300x300mm and above conforming to IS : 15622 of approved make, colour, shade laid on 20 mm thick Cement Mortar 1:4 (1 cement : 4 coarse sand) including pointing the joints with white cement mixed with matching pigment etc. complete. Size 300x300mm	sqm	0.000004174		736.49		0.307	
82	Providing and laying vitrified floor tiles with soluble salt printing, of size 600x600mm with water absorption less than 0.5% and conforming to IS : 15622 of approved make (MARBONITE), laid on 20mm thick cement mortar 1:4 (1 cement : 4 coarse sand) including grouting the joints with white cement and matching pigments etc. complete.	SQM	0.000004685		185.93		0.087	
83	15mm thick Granite work (machine cut, table rubbed & mirror polished) for kitchen platform, vanity counters, window sills and similar locations of required size laid over 20mm thick base cement mortar 1:4 (1 cement : 4 coarse sand) including joints treated with white cement mixed with matching pigment including rubbing and polishing to edge moulding to give high gloss finish.							
84	Granite stone grey/pink	sqm	0.000011997		38.80		0.047	
85	Providing and fixing ceramic glazed wall tiles conforming to IS : 15622 of approved make, colours, shades and size on wall and dados over 12mm 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 matching pigment complete. Size upto 200x300mm	sqm	0.000002856		185.93		0.053	
86	False flooring will be fire resisting floating floor made in galvanized steel frame 600 mm x 600 mm supported on adjustable jack arrangement, tiled by 35 mm thick fire resistant teakwood particle board finished on top with antistatic type Formica/Vinyl of matching colour with adjacent environment with 3 mm thick hard PVC lipping along all four sides. 24 gauge GI sheet is to be provided on the other side of particle board. Height of false floor shall be 600mm	sqm	0.000022020		296.02		0.652	
87	Providing and laying 25 mm thick plain mosaic tiles of approved shade set in cement mortar or lime mortar to give an overall thickness of 50 mm.	sqm	0.000007802		74.91		0.058	
88	Providing and laying 25 mm thick chequered mosaic tiles of approved shade set in cement mortar or lime mortar to give an overall thickness of 50 mm.	sqm	0.000007802		74.91		0.058	
89	Providing and fixing 2mm thick semi transparent polycarbonate profile roofing sheet of approved make and colour to make any normal roofing / covering and fixing as per manufacture specification at spacing not more than 1.2 m centre to centre with EPDM gasket and silicon sealant fixed with self drilling stainless steel screws all complete as per direction of Engineer-in-Charge.	sqm	0.000009243		1,103.80		1.020	

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Item. NO.	DESCRIPTION	UNIT	Multiplying factor for deriving rate (Total price quoted by the bidder will be multiplied with this factor to determine rate)	Rate Rs	Grand Total of all STP's		% allocation of overall amount	Remarks
					Quantity	Amount in Rs.		
A	B	C	D	E	F	G	H	I
90	Providing and fixing at all height false ceiling consisting of frame work "W"/ "U" / "L" sections made of G.I. sheet with zinc coating of grade 120 consisting of angle cleats of size 25mm wide x 1.6mm thick with flanges of 22mm and 37mm at 1200mm centre to centre one flange fixed to the ceiling with dash fastener 12.5mm diax40mm long with 6mm dia bolts to the angle hangers of 25x25x0.55mm of required length, and other end of angle hanger being fixed with nut and bolts to G.I. channels 45x15x0.9mm running at the rate of 1200mm centre to centre to which the ceiling section 0.5mm thick button wedge of 80mm with tapered flanges of 26mm each having clips of 10.5mm at 450mm centre to centre shall be fixed in a direction perpendicular to G.I. channel with connecting clips made out of 2.64mm diax230mm long G.I. wire at every junction including fixing the gypsum board with ceiling section and perimeter channels 0.5mm thick 27mm high having flanges of 20mm and 30mm long, the perimeter of ceiling fixed to wall/partition with the help of rawl plugs at 450mm centre to centre with 25mm long drive-all screws @ 230mm interval including jointing and fixing to a flush finish of tapered and square edges of the board with recommended filler, jointing tapes, finisher and two coats of primer suitable for board as per manufactures specification and also including the cost of making openings for light fittings, grills, diffusers, cutouts made with frame of perimeter channels suitably fixed including providing and fixing 12.5 mm thick tapered edge gypsum board conforming to IS: 2095- Part-I all complete as per drawing and specification and direction of the Engineer in Charge but excluding the cost of painting	sqm	0.000003201		148.92		0.048	
91	Providing & Laying Double Flanged (PN10 Screwed) Centrifugally Spun Ductile Iron Pipes Of Class K-9 Conforming To IS-8329 <u>100mm dia Ductile iron double flanged</u>	meter	0.000006701		260.84		0.175	
92	Providing & Laying Double Flanged (PN10 Screwed) Centrifugally Spun Ductile Iron Pipes Of Class K-9 Conforming To IS-8329 <u>150mm dia Ductile iron double flanged</u>	meter	0.000010056		100.25		0.101	
93	Providing & Laying Double Flanged (PN10 Screwed) Centrifugally Spun Ductile Iron Pipes Of Class K-9 Conforming To IS-8329 <u>200mm dia Ductile iron double flanged</u>	meter	0.000012676		46.71		0.059	
94	Providing & Laying Double Flanged (PN10 Screwed) Centrifugally Spun Ductile Iron Pipes Of Class K-9 Conforming To IS-8329 <u>250mm dia Ductile iron double flanged</u>	meter	0.000017997		19.46		0.035	
95	Providing & Laying Double Flanged (PN10 Screwed) Centrifugally Spun Ductile Iron Pipes Of Class K-9 Conforming To IS-8329 <u>300mm dia Ductile iron double flanged</u>	meter	0.000023119		99.28		0.230	
96	Providing & Laying Double Flanged (PN10 Screwed) Centrifugally Spun Ductile Iron Pipes Of Class K-9 Conforming To IS-8329 <u>350mm dia Ductile iron double flanged</u>	meter	0.000029126		94.41		0.275	
97	Providing & Laying Socket & Spigot End Centrifugally Spun Ductile Iron Pipes Of Class K-9 Conforming To IS-8329 <u>100mm dia Ductile Iron class K-9 Pipes</u>	meter	0.000004665		975.25		0.455	
98	Providing & Laying Socket & Spigot End Centrifugally Spun Ductile Iron Pipes Of Class K-9 Conforming To IS-8329 <u>150mm dia Ductile Iron class K-9 Pipes</u>	meter	0.000006998		357.20		0.250	
99	Providing & Laying Socket & Spigot End Centrifugally Spun Ductile Iron Pipes Of Class K-9 Conforming To IS-8329 <u>200mm dia Ductile Iron class K-9 Pipes</u>	meter	0.000009627		148.91		0.143	
100	Providing & Laying Socket & Spigot End Centrifugally Spun Ductile Iron Pipes Of Class K-9 Conforming To IS-8329 <u>250mm dia Ductile Iron class K-9 Pipes</u>	meter	0.000013403		72.02		0.097	
101	Providing & Laying Socket & Spigot End Centrifugally Spun Ductile Iron Pipes Of Class K-9 Conforming To IS-8329 <u>300mm dia Ductile Iron class K-9 Pipes</u>	meter	0.000016672		374.72		0.625	
102	Providing & Laying Socket & Spigot End Centrifugally Spun Ductile Iron Pipes Of Class K-9 Conforming To IS-8329 <u>350mm dia Ductile Iron class K-9 Pipes</u>	meter	0.000020512		351.36		0.721	
103	Providing & laying the ductile iron specials including elbows, tees, tapers, reducers, expanders, flanged spigots, flanges, caps etc, for various pipe sizes as per IS:9523 and as per approved drawings							
a	For STP-1	lot	0.001914952		1.00		0.191	
b	For STP-2	lot	0.001964068		1.00		0.196	
c	For STP-3	lot	0.002667613		1.00		0.267	

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PROJECT: STP, RDA, RAIPUR, CHHATTISGARH					Grand Total of all STP's		% allocation of overall amount	Remarks
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d	For STP-4	lot	0.000755983		1.00		0.076	
e	For STP-5	lot	0.000591080		1.00		0.059	
f	For STP-6	lot	0.001600056		1.00		0.160	
104	Providing & laying of PPFRP/HDPE 300mm pipe	meter	0.000023868		95.38		0.228	
105	Providing & laying of PPFRP/HDPE 250mm pipe	meter	0.000015038		13.63		0.020	
106	Providing & laying of PPFRP/HDPE 200mm pipe	meter	0.000009531		63.27		0.060	
107	Providing & laying of PPFRP/HDPE 150mm pipe	meter	0.000006091		54.50		0.033	
108	Providing & laying of PPFRP/HDPE 100mm pipe	meter	0.000002851		18.49		0.005	
109	Providing & laying of PPFRP/HDPE pipe fittings upto 300mm size including elbows, reducers, tees, reducing tees, couplings & HDPE to metal transition fittings required for completing the piping system erection as per approved drawings							
a	For STP-1	lot	0.000646275		1.00		0.065	
b	For STP-2	lot	0.000975708		1.00		0.098	
c	For STP-3	lot	0.000859472		1.00		0.086	
d	For STP-4	lot	0.000379367		1.00		0.038	
e	For STP-5	lot	0.000239192		1.00		0.024	
f	For STP-6	lot	0.000389607		1.00		0.039	
110	Providing of Structural steel material including ISA angles, ISMC channels, ISMB beams and IS2062 GRE250(FE410W) plates (1 quintal = 100 Kg)	Quintal	0.000018365		42.67		0.078	
111	Providing & fixing of Anchor fastners.Hilti bolts : HST M12	nos	0.000001187		129.00		0.015	
112	Providing & fixing of Anchor fastners.Hilti bolts : HST M16	nos	0.000002306		129.00		0.030	
113	Providing & fixing of Anchor fastners.Hilti bolts : HST M20	nos	0.000004500		129.00		0.058	
114	Providing & fixing of Anchor fastners.Hilti bolts : HST M24	nos	0.000006373		129.00		0.082	
115	Providing & laying of Flexible metallic hoses up to sizes 150 NB along with hose clips and accessories	nos	0.000000973		540.00		0.053	
116	Providing and fixing on wall face or under floor UV stabilized Unplasticised Rigid PVC pipes (single socketed) having 3.2mm wall thickness conforming to IS : 13592 (4kg/sqcm) including required couplers, jointing with seal ring conforming to IS : 5382 leaving 10 mm gap for thermal expansion etc complete. 110 mm dia pipe	RM	0.000001299		916.85		0.119	
117	Providing and injecting Epoxy injection grout in concrete/RCC work of approved make in proportion recommended by the manufacturer into cracks/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 Engineerin- Charge. (The payment shall be made on the basis of actual weight of approved grout injected.)	kg	0.000003135		185.93		0.058	
118	Supplying and laying ISI marked double wall HDPE pipe (IS 14930 Part II) having corrugation on the outer wall and plan surface on inner wall in ground below road, path etc at a depth not less than 40 cm and upto 90 cm including excavation, dismantling of road if required and refilling the trench with excavated material, ramming and making the surface good etc. as required. 90 mm outer dia	RM	0.000001124		39.90		0.004	
119	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 or coke and salt) as required.	set	0.000012026		24.00		0.029	

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120	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 and salt as required.	set	0.000016804		84.00		0.141	
121	Providing and fixing brass/ gun metal gate valve with C.I. wheel of approved quality (screwed end): 80 mm nominal bore	each	0.000009414		20.00		0.019	
122	Providing and fixing ball valve (brass) of approved quality, High or low pressure, with plastic floats complete : 25 mm nominal bore	each	0.000002102		20.00		0.004	
123	Providing and fixing gun metal non- return valve (horizontal type) of approved quality (screwed end) : 80 mm nominal bore	each	0.000012226		20.00		0.024	
124	Supplying and spreading hard stone aggregate 25mm size in out door switch yards/transformer as per direction of Engineer-in-charge.	cum	0.000007327		20.00		0.015	
125	Providing & fixing UV stabilized fibreglass reinforced plastic (FRP) sheet roofing upto any pitch including fixing with polymer coated 'J' or 'L' hooks, bolts & nuts 8mm dia. G.I plain/bitumen washers complete but excluding the cost of purlins, rafters, trusses etc. The sheets shall be manufactured out of 2400 TEX panel rovings incorporating minimum 0.3% Ultra-violet stabiliser in resin system under approximately 2400 psi and hot cured. They shall be of uniform pigmentation and thickness without air pockets and shall conform to IS 10192 and IS 12866.The sheets shall be opaque or translucent, clear or pigmented, textured or smooth as specified. 2mm thick corrugated (2.5" or 4.2" or 6") or step-down (2"or 3"or 4")	sqm	0.000003727		38.80		0.014	
126	Providing and Filling below foundations/floor with random rubble stone chipping in layers including breaking of stone boulders to required sizes, filling the interstices with selected sand and compacting to 85 % of original volume of stone stack for all lifts etc. all complete. Payment shall be made for the measurement of the volume of the compacted fill.	cum	0.000007507		1,870.54		1.404	
127	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 100kg)	each	0.000092323		39.00		0.360	
128	Compacting Original Ground supporting sub-grade Loosening of the ground upto a level of 500 mm below the subgrade level , watered, graded and compacted in layers	cum	0.000000243		1,529.81		0.037	
129	Supplying & laying WBM in 150mm consolidated (with 80 mm metal and murum casing)	sqm	0.000007049		3,057.58		2.155	
130	Supplying & laying WBM in 100mm consolidated (with 40 mm gravel and murum casing)	sqm	0.000007181		3,057.58		2.196	
131	Tack coat Providing and applying tack coat with bitumen emulsion (RS-1, grade conforming to IS:8887) using emulsion pressure distributor on the prepared bituminous/granular surface cleaned with mechanical broom and as per clause 503. Granular surfaces treated with primes @ 0.30 kg /Sqm	sqm	0.000000073		36,282.18		0.265	
132	Dense Bituminous Macadam (Providing and laying dense bituminous macadam with minimum 40-60 TPH capacity HMP using crushed aggregates of specified grading, premixed with bituminous binder @ 4.0 to 4.5% by weight of total mix of mix and filler, transporting the hot mix to work site, laying with a hydrostatic paver finisher to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MORTH specification clause No.505 complete in all respects.) for Grading-I (37.5 mm nominal size, bitumen content 4.0%)	cum	0.000036429		229.25		0.835	
133	Supplying & laying 40mm thick AC carpet (6.25% bitumen content).	sqm	0.000002486		3,057.58		0.760	
134	Supply and fixing of 30thk FRP grating including all fixtures supported on RCC/steel members	sqm	0.000020011		57.77		0.116	
135	Providing & laying precast interlocking concrete blocks of minimum compressive strength of 300 kg/sq.cm and approved size , shape/ pattern over coarse sand bed of thickness upto 40 mm and joints thick filled with fine sand including leveling with surface vibrator, temping and sweeping etc. complete as per IRC-SP-63-2004. 80mm thick Polymer coated coloured precast interlock concrete blocks	sqm	0.000003561		443.15		0.158	
136	Supply and fixing of PVC encapsulated rungs in concrete/brickwork at all levels etc all complete as per drawings/directions of site incharge	kg	0.000000392		369.14		0.014	

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137	Conducting electrical Resistivity Test (ERT) by Wenner's method as indicated in IS: 1892 in all ERT locations, as per IS: 3043 at the location shown in the drawing or as instructed by the Engineer, to study the resistivity characteristics of soil at different depths up to 10m from existing ground level all including detailed report by agency conducting the test.	nos	0.000082705		24.00		0.198	
138	Supplying and laying 50 micron thick polyethylene sheet below floor slabs	sqm	0.000001558		736.49		0.115	
139	Supplying and erecting chain link mesh fencing for electric sub-station switch yard / transformer yard of 2.5 m approx. height from ground level using angle iron size 50 X 50 X 6 mm erected in C.C. foundation 15 X 15 X 40 cm deep at every 2 metre fitted with flat iron support of size 25 X 6 mm on top, bottom and mid way and chain link mesh 50 x 50 mm aperture and 4 mm dia G.I. hard wire securing and screwing with 2mm dia G.I. wire, G.I. staples, G.I.U-nails or steel pins to the angle iron at every distance of 30 cms, by iron studs complete duly painted with one coats of red oxide and two coats of approved colour paint. (Area of fencing i.e. height x length is to be measured)	sqm	0.000002467		699.45		0.173	
140	Steel work welded in built up sections/ framed work including cutting, hoisting, fixing in position and applying a priming coat of red oxide zinc chromate primer. In gratings, frames, guard bar, ladder, railings, brackets, gates and similar works.	Kg	0.000000331		5,415.24		0.179	
141	19.5 Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply including all CPVC plain & brass threaded fittings i/c fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and the cost of cutting chases and making good the same including testing of joints complete as per direction of Engineer in Charge. EXTERNAL WORK	meter	0.000000589		75.92		0.004	
142	Providing and fixing concealed in wall G.I. pipes medium class complete with G.I. fittings and clamps, including painting with anti corrosive bitumastic paint, cutting chases, making good the walls etc. and testing of joints complete: 15 mm dia. nominal bore	meter	0.000000915		221.91		0.020	
143	Providing and fixing concealed in wall G.I. pipes medium class complete with G.I. fittings and clamps, including painting with anti corrosive bitumastic paint, cutting chases, making good the walls etc. and testing of joints complete: 20 mm dia. nominal bore	meter	0.000001075		221.91		0.024	
144	Providing and laying in trenches G.I. pipes medium class complete with G.I. fittings including excavation of trenches, refilling the same and testing of joints complete: 20 mm dia. nominal bore	meter	0.000000774		367.90		0.028	
145	Providing and laying in trenches G.I. pipes medium class complete with G.I. fittings including excavation of trenches, refilling the same and testing of joints complete: 25 mm dia. nominal bore	meter	0.000001080		367.90		0.040	
146	Providing and laying in trenches G.I. pipes medium class complete with G.I. fittings including excavation of trenches, refilling the same and testing of joints complete: 50 mm dia. nominal bore	meter	0.000001936		367.90		0.071	
147	Providing and fixing on wall surface G.I. pipes medium class complete with G.I. fittings and clamps, including cutting, making good the walls etc. and testing of joints complete: 20 mm dia. nominal bore	meter	0.000000900		148.92		0.013	
148	Providing and fixing on wall surface G.I. pipes medium class complete with G.I. fittings and clamps, including cutting, making good the walls etc. and testing of joints complete: 25 mm dia. nominal bore	meter	0.000001255		148.92		0.019	
149	Providing and fixing on wall surface G.I. pipes medium class complete with G.I. fittings and clamps, including cutting, making good the walls etc. and testing of joints complete: 50 mm dia. nominal bore	meter	0.000002291		148.92		0.034	
150	Providing and fixing 15 mm nominal bore Brass bib/stop cock of approved quality: Bib cock (250 grams)	Nos	0.000000900		38.00		0.003	

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151	Providing and fixing 15 mm nominal bore Brass bib/stop cock of approved quality: Stop cock (350 grams)	Nos	0.000001153		38.00		0.004	
152	Providing and fixing on wall face UV stabilized Unplasticised - PVC moulded fittings/ accessories having 3.2mm wall thickness for Rigid PVC pipes conforming to IS : 13592 (heavy) jointing with seal ring conforming to IS : 5382 leaving 10 mm gap for thermal expansion. Nahani trap 110x75mm	Nos	0.000000440		72.00		0.003	
153	Providing and fixing 15 mm nominal bore C.P. brass fittings of approved make and conforming to IS:8931 including C.P. brass extension if required: Towel rail (600mm long x 20mm dia) + Towel ring (150 mm dia)	Nos	0.000002880		38.00		0.011	
154	Providing and fixing sand cast iron S&S pipe as per IS: 1729 for soil, waste and vent pipes: 100 mm dia. metre	meter	0.000003809		366.93		0.140	
155	Providing and fixing M.S. holder-bat clamps of approved design to Sand Cast iron/cast iron (spun) pipe embedded in and including cement concrete blocks 10x10x10cm of 1:2:4 mix (1 cement : 2 coarse sand : 4 graded stone aggregate 20mm nominal size) including cost of cutting holes and making good the walls etc. : For 100 mm dia pipe	each	0.000000416		48.00		0.002	
156	Providing and fixing sand cast iron S&S bend with access door of required degree as per IS : 1729, insertion rubber washer 3 mm thick, bolts and nuts: 100 mm dia	each	0.000002034		48.00		0.010	
157	Providing and fixing sand cast iron S&S plain bend of required degree as per IS : 1729: 100 mm dia	each	0.000001659		48.00		0.008	
158	Providing and fixing sand cast iron S&S heel rest sanitary bend as per IS : 1729: 100 mm dia	each	0.000001873		48.00		0.009	
159	Providing and fixing sand cast iron S&S double equal junction with access door of required degree as per IS : 1729, insertion rubber washer 3 mm thick bolts and nuts: 100x100x100x100mm	each	0.000003503		48.00		0.017	
160	Providing and fixing Stainless Steel A ISI 304 (18/8) kitchen sink with drain board as per IS 13983 with C.I. brackets and stainless steel plug 40 mm including painting of fittings and brackets, cutting and making good the walls wherever required : 1040x510 mm bowl size 460x410x200 mm	Nos	0.000041542		10.00		0.042	
161	Providing and fixing stainless steel AISI-304(18/8) wash basin with C.I. brackets, 32 mm C.P. brass waste of standard pattern, including painting of brackets, cutting and making good the walls wherever required : Size 510x410 mm	Nos	0.000019922		28.00		0.056	
162	Providing and fixing 600x450 mm beveled edge 4mm 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.	Nos	0.000002914		28.00		0.008	
163	Providing and fixing vitreous china water closet (European type W.C. pan) with white ISI marked plastic seat and lid, 10 litre low level white P.V.C. flushing cistern (same colour), conforming to IS : 7231, with all fittings and fixtures complete including cutting and making good the walls and floors wherever required : White pedestal type	Nos	0.000014021		28.00		0.039	
164	Providing and fixing white vitreous china urinal basin with waste fitting as per IS : 2556, and other couplings in C.P. brass complete: Flat back half stall urinal of size 460x380x250mm	Nos	0.000008640		28.00		0.024	
165	Providing and fixing 15 mm nominal bore C.P. brass fittings of approved make and conforming to IS:8931 including C.P. brass extension if required: Toilet paper holder	Nos	0.000001207		29.00		0.003	
166	Providing and constructing brick masonry road gully chamber 50x45x60 cm with well burnt modular clay bricks crushing strength not less than 35kg/cm2 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.	Nos	0.000013972		70.00		0.098	
167	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	Ltr	0.000000036		27,076.26		0.096	

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Item. NO.	DESCRIPTION	UNIT	Multiplying factor for deriving rate (Total price quoted by the bidder will be multiplied with this factor to determine rate)	Rate Rs	Quantity	Amount in Rs.		
A	B	C	D	E	F	G	H	I
168	Making 50mm thick plinth protection of plain cement concrete 1:3:6 (1 cement : 3 coarse sand : 6 graded crushed stone aggregate 20mm nominal size) over 75mm bed of dry brick ballast 40mm nominal size well rammed and consolidated and grouted with sand including finishing the top smooth.	sqm	0.000001328		677.80		0.090	
169	Providing and fixing on wall face or under floor UV stabilized Unplasticised Rigid PVC pipes (single socketed) having 3.2mm wall thickness conforming to IS : 13592 (4kg/sqcm) including required couplers, jointing with seal ring conforming to IS : 5382 leaving 10 mm gap for thermal expansion etc complete. 150 mm dia pipe	meter	0.000002141		293.94		0.063	
170	Constructing brick masonry manhole with well burnt modular clay bricks crushing strength not less than 35kg/cm2 in cement mortar 1:4 (1 cement : 4 coarse sand), R.C.C. top slab with 1:2:4 mix (1 cement : 2 coarse sand: 4 graded stone aggregate 20 mm nominal size), foundation in cement concrete 1:4:8 mix (1 cement : 4 coarse sand : 8 graded stone aggregate 40mm nominal size) inside plastering 12mm 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 20mm nominal size) finished with a floating coat of neat cement complete as per standard design : 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) :	Nos	0.000032610		30.00		0.098	
171	Extra for depth for manholes: Size 90x80 cm	meter	0.000018268		38.92		0.071	
172	Constructing brick masonry manhole with well burnt modular clay bricks crushing strength not less than 35kg/cm2 in cement mortar 1:4 (1 cement : 4 coarse sand), R.C.C. top slab with 1:2:4 mix (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size), foundation in cement concrete 1:4:8 mix (1 cement : 4 coarse sand : 8 graded stone aggregate 40mm nominal size) inside plastering 12mm 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 20mm nominal size) finished with a floating coat of neat cement complete as per standard design : 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) :	Nos	0.000070289		18.00		0.127	
173	Extra for depth for manholes: Size 120x90 cm	meter	0.000021761		15.58		0.034	
174	Constructing brick masonry manhole with well burnt modular clay bricks crushing strength not less than 35kg/cm2 in cement mortar 1:4 (1 cement : 4 coarse sand), R.C.C. top slab with 1:2:4 mix (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size), foundation in cement concrete 1:4:8 mix (1 cement : 4 coarse sand : 8 graded stone aggregate 40mm nominal size) inside plastering 12mm 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 20mm nominal size) finished with a floating coat of neat cement complete as per standard design : 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) :	Nos	0.000092323		18.00		0.166	
175	Providing and constructing extra depth for circular type manhole 0.91m internal dia (at bottom) beyond 0.91m and upto 1.67m	meter	0.000014726		16.55		0.024	
176	Providing and fixing white vitreous china laboratory sink with C.I. brackets, C.P. brass chain with rubber plug 40mm C.P brass waste and 40mm C.P. brass trap with necessary C.P. brass unions complete including painting of brackets, cutting and making good the wall wherever required : Size 600x450x200mm	Nos	0.000021902		16.55		0.036	

PRICE BID FORMAT

Tender Ref No.T7D1Q13632

Volume-II of NIT

Name of the Work: Civil, Structural & Architectural works for Six (6) Nos. Sewage Treatment Plant for Raipur Development Authority, Raipur Chhattisgarh.

Item. NO.	DESCRIPTION	UNIT	Multiplying factor for deriving rate (Total price quoted by the bidder will be multiplied with this factor to determine rate)	Rate Rs	Grand Total of all STP's		% allocation of overall amount	Remarks
					Quantity	Amount in Rs.		
A	B	C	D	E	F	G	H	I
177	Providing and laying Reinforced Cement Concrete pipe NP 3 / prestressed concrete pipe. (Laying Reinforced cement concrete pipe NP3 /prestressed concrete pipe for culverts including fixing collar with cement mortar 1:2 but excluding bedding below pipes, excavation, protection works, backfilling, concrete and masonry works in head walls and parapets .)							
a	450 mm dia	meter	0.000008606		183.96		0.158	
b	600 mm dia	meter	0.000011963		1,468.70		1.757	
178	Providing and fixing 15mm thick Granite (machine cut, table rubbed & mirror polished on both sides) for partition curtain in toilets or similar locations of required size in wall with cement mortar 1:4 (1 cement : 4 coarse sand) including cutting chase in wall and joint with wall treated with white cement mixed with matching pigment including rubbing and polishing to edge moulding to give high gloss finish. Granite stone black	Sqm	0.000014225		19.86		0.028	
179	Providing and fixing square-mouth S.W. gully trap grade 'A' complete with C.I. grating brick masonry chamber with well burnt modular clay bricks crushing strength not less than 35kg/cm2, water tight C.I. cover with frame of 300 x300 mm size (inside) the weight of cover to be not less than 4.50 kg and frame to be not less than 2.70 kg as per standard design -							
a	100x100 mm size P type	each	0.000006514		10.00		0.007	
b	150 x 100 mm size P type.	each	0.000006796		10.00		0.007	
c	180x150 mm size P type	each	0.000007317		10.00		0.007	
180	Providing and fixing M.S. structural work fabricated from standard sections, (MS rounds, angles, channels etc.) including cutting to size, drilling welding including cost of steel fasteners, clamp in RCC structural members as directed, including two coat of enamel painting over one coat of red oxide primer complete	kg	0.000000321		83,822.40		2.691	
181	Steel work welded in built up sections/ framed work including cutting, hoisting, fixing in position and applying a priming coat of red oxide zinc chromate primer: In gratings, frames, guard bar, ladder, railings, brackets, gates and similar works.	Kg	0.000000331		5,000.00		0.165	
182	Providing and fixing approved pipe hand rail by welding to iron railing including applying a priming coat of red oxide zinc chromate primer: E.R.W. pipe & Painting G.I. pipes and fittings with synthetic enamel white paint over a red oxide zinc chromate priming coat, both of approved quality for new work: 32 mm diameter pipe	kg	0.000000508		27,550.95		1.401	
183	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	0.000000559		1,793.34		0.100	
184	Uprooting weeds from the trenched area after 10 to 15 days of its flooding with water including disposal of uprooted vegetation.	sqm	0.000000008		1,624.58		0.001	
185	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	0.000001333		33.00		0.004	
b	Holes 60 cm dia, and 60 cm deep	each	0.000000161		33.00		0.001	
186	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	0.000000032		812.28		0.003	
187	Providing and planting following herbs in garden including preparation of soil, base plantation, providing and spreading different fertilizers, soil and sand: Carnet grass (well developed)	sqm	0.000001279		812.28		0.104	

PRICE BID FORMAT

Tender Ref No.T7D1Q13632

Volume-II of NIT

Name of the Work: Civil, Structural & Architectural works for Six (6) Nos. Sewage Treatment Plant for Raipur Development Authority, Raipur Chhattisgarh.

PROJECT: STP, RDA, RAIPUR, CHHATTISGARH		Grand Total of all STP's					% allocation of overall amount	Remarks
Item. NO.	DESCRIPTION	UNIT	Multiplying factor for deriving rate (Total price quoted by the bidder will be multiplied with this factor to determine rate)	Rate Rs	Quantity	Amount in Rs.		
A	B	C	D	E	F	G	H	I
188	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	0.000000139		1,195.20		0.017	
189	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	0.000000068		1,195.00		0.008	
b	Hibiscus (Flower)/ Rose	each	0.000000129		150.00		0.002	
190	Providing and mixing water proofing material in PCC/ RCC work in the proportion recommended by the manufacturer.	kg	0.000000212		89,972.52		1.904	
191	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	0.0000006037		32.00		0.019	
192	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	0.000001148		32.50		0.004	
193	Providing and fixing form work including centring, shuttering, strutting, staging, propping bracing etc. complete and including its removal at all levels, for: Window sills, anchor blocks, string course, bends, copings, bed plates and like	sqm	0.000000895		153.44		0.014	
Total of %age allocation							100.00	
Grand Total Amount(in Rs, in figures)=								Bidder to fill Grand Total amount here in figures
Grand Total Amount(in Rs, in words)=								Bidder to fill Grand Total amount here in words

Note:	
1	Bidder Should Fill Grand Total Amount only after adding prices for all items of all Six (6) nos. STP's put together.
2	Bidder need not fill any value in rate & amount column,unit prices shall be worked out from the Grand Total amount multiplied by the Multiflying factor of respective item indicated in column D.
3	Evaluation Shall be based on Grand total amount quoted by bidder for complete BOQs for all STP's put together.
4	Work will be split among three packages Block-A, B & C on L-1 rates as per the Award methodology described in clause 1.0 xv of NIT. Block A package will comprise of STP-1,2 & 5, Block-B Package will comprise of STP-3 & 4 and Block-C package will comprise of STP-6 respectively.
5	The rate and amount are inclusive of all applicable taxes, except for the GST (SAC code:995424). For details of taxes, clause no. 8.0 of the TCC will be applicable.
6	Bidders should quote only the (Grand Total Amount) both in figures & words in the specified place. They should not fill/quote/write anything in col. (E), (G) & (I) . The rates will be derived from the Grand Total amount quoted multiplied by the Multiflying factor of respective item indicated in col. D. amount of each item will be worked out by multiplying derived rate with respective BOQs quantity of each item.
7	Percentage allocation against each item for all six (6) nos. of STPs are indicated for bidder's reference. Further BOQs of all items for each STP are also provided for information to all bidders (Refer BOQ of each STP attached at annexure-I of Volume-II of NIT) .