

PRICE BID FORMAT

Volume-II of NIT

Name of the Work: "Civil, Structural & Architectural works of Block-C Package (STP No. -6, 3.9 MLD) for Raipur Development Authority, Raipur Chhattisgarh"

PROJECT: STP RDA, CHHATISGARH		STP-6					% 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	TOTAL QTY (3.98 MLD)	Total 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	0.000005414		4663.43		2.525	
2	Extra for every additional lift of 1.5 m or part thereof. All types of soils	Cum	0.000000776		4394.47		0.341	
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	0.000007814		12.63		0.010	
4	Extra for every additional lift of 1.5 m or part thereof. Ordinary or hard rocks	Cum	0.000001390		49.64		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	0.000001902		305.96		0.058	
6	Carriage by mechanical transport upto 5 km lead: Earth	Cum	0.000003249		135.39		0.044	
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	0.000026859		3200.41		8.596	
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-VII)	Cum	0.000007083		979.26		0.694	
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	0.000077820		25.27		0.197	
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	0.000086922		18.95		0.165	
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	0.000103955		49.64		0.516	
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	0.000168945		30.69		0.518	
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	0.000125788		171.49		2.157	

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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	0.000128641		195.85		2.519			
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	0.000139514		12.63		0.176			
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	0.000127661		771.67		9.851			
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	0.000130514		331.23		4.323			
18	Demolishing R.C.C. work including stacking of steel bars and disposal of unserviceable material within 50 metre lead.	cum	0.000022477		9.93		0.022			
19	Extra over Sl. No. 20 for cutting reinforcement bars in R.C.C. or R.B work. (Crosssectional area of RCC/RB work to be measured)	sqm	0.000013082		18.95		0.025			
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	0.000119203		122.74		1.463			
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	0.000004068		245.5		0.100			
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	0.000006673		2447.69		1.633			
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	0.000006878		917.88		0.631			
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	0.000005912		245.5		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	0.000008692		245.5		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	0.000006731		122.74		0.083			
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	0.000001595		172562.25		27.524			

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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 m 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. All above operations to be done in order.	sqm	0.000017882		245.5		0.439			
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	0.000022477		12.63		0.028			
30	Providing and filling in position, blown bitumen in expansion joints per cm. depth and per cm width.	meter	0.000000149		61.38		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	0.000013316		305.96		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	0.000002093		6320		1.322			
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	0.000002093		910		0.190			
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	0.000002093		910		0.190			
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	0.000012877		6.32		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	0.000000600		224		0.013			
b	Dash fastener 10x75mm	each	0.000000805		224		0.018			
c	Dash fastener 12x100mm	each	0.000001141		224		0.026			

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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.				0			-		
a	32 mm long	each	0.000000615		224			0.014		
b	40 mm long	each	0.000000805		224			0.018		
c	50 mm long	each	0.000000878		224			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	0.000021043		30.69			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	0.000157760		0.91			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	0.003358569		1.8			0.605		
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	0.000058679		54.15			0.318		
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	0.000002019		2			0.000		
43	Providing and fixing bright finished brass tower bolts (barrel type) with brass polished MS screws complete:				0			-		
a	250x10mm	each	0.000008078		7			0.006		
b	150x10mm	each	0.000005151		12			0.006		
44	Providing and fixing brass door latch with brass polished MS screws complete:				0			-		
a	300x16x5 mm	each	0.000011648		7			0.008		
b	250x16x5 mm	each	0.000007843		12			0.009		
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	0.000028418		12			0.034		
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	0.000003044		7			0.002		
47	Providing and fixing antique/ SS finished brass handles with antique/ SS polished MS screw complete:				0			-		
a	125 mm	each	0.000001712		12			0.002		
b	100 mm	each	0.000001522		7			0.001		
c	75 mm	each	0.000000907		7			0.001		

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48	Providing and fixing bright finished brass hanging door stopper with necessary brass finished MS steel screws complete.	each	0.000001288		12		0.002	
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:				0		-	
a	For fixed portion	kg	0.000009687		153.43		0.149	
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	0.000009892		184.12		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 conforming 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	0.000026515		25.27		0.067	
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	0.000042436		5		0.021	
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	0.000030818		5		0.015	
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. 80x1.25mm M.S. Laths	sqm	0.000049490		8.13		0.040	
54	Providing and fixing 27.5cm long wire spring for rolling shutters.	each	0.000010594		3		0.003	
55	Providing and fixing M.S. sheet top cover for rolling shutter 1.25mm thick	sqm	0.000015804		8		0.013	
56	Providing and fixing ball bearing for rolling shutters.	each	0.000012380		22		0.027	
57	Providing and fixing mechanical device chain and crank operation for operating rolling shutters	set	0.000166000		15		0.249	
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	0.000023530		61.38		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	0.000023530		30.69		0.072	
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 joined at the corners by means of M.S. galvanized/ 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	0.000070210		12.63		0.089	

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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 \pm 1mm) with wall thickness 2.0mm \pm 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 \pm 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	0.000005590		6.81		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	0.000117359		148.02		1.737	
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	0.000003541		311.38		0.110	
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	0.000009629		111.01		0.107	
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	0.000000351		111.01		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	0.000000658		1.8		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	0.000124002		15.34		0.190	
68	Providing and mixing water proofing material in PCC/ RCC work in the proportion recommended by the manufacturer.	kg	0.000001273		45.13		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	0.000002736		25.27		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	0.000005431		1413.38		0.768	
71	Providing and making 12mm thick cement plaster of mix in Cement Mortar 1:4 (1 cement : 4 fine sand)	sqm	0.000003014		917.88		0.277	
72	Providing and making 6mm thick cement plaster of mix: In Cement mortar 1:4 (1 cement : 4 fine sand)	sqm	0.000002546		367.33		0.094	
73	White washing with lime to give an even shade. On new work (Three or more coats)	sqm	0.000000275		917.88		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	0.000002742		305.96		0.084	
75	Distemping with acrylic washable distemper to give an even shade. On new work (Two or more coats)	sqm	0.000001112		305.96		0.034	
76	Painting on new work (two or more coats) to give an even shade with: Black anti-corrosive bitumastic paint	sqm	0.000001127		2447.69		0.276	
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	0.000001200		2447.69		0.294	
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)	sqm	0.000001639		305.96		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	0.000012907		245.5		0.317	
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	0.000026252		30.69		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	0.000025111		122.74		0.308	
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 (1cement : 4 coarse sand) including grouting the joints with white cement and matching pigments etc. complete.	SQM	0.000028184		30.69		0.086	
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.				0		-	
84	Granite stone grey/pink	sqm	0.000072171		6.32		0.046	
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	0.000017179		30.69		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 liping along all four sides. 24 gauge GI sheet is to be provided on the other side of particle board. Height of flase floor shall be 600mm.	sqm	0.000132469		49.64		0.658	
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	0.000046936		12.63		0.059	
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	0.000046936		12.63		0.059	
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	0.000055606		184.12		1.024	

		PROJECT: STP RDA, CHHATISGARH			STP-6		% 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	TOTAL QTY (3.98 MLD)	Total Amount in Rs		
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 0.55mm 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	0.000019257		25.27		0.049	
91	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	0.000040313		44.77		0.180	
92	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			0		-	
93	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	0.000076257		9.73		0.074	
94	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			0		-	
95	Providing & Laying Double Flanged (PN10 Screwed) Centrifugally Spun Ductile Iron Pipes Of Class K-9 Conforming To IS-8329 3000mm dia Ductile iron double flanged	meter	0.000139076		45.75		0.636	
96	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			0		-	
97	Providing & Laying Socket & Spigot End Centrifugally Spun Ductile Iron Pipes Of Class K-9 Conforming To IS-8329 100mm dia Ductile Iron class K-9 Pipes	meter	0.000028065		171.3		0.481	
98	Providing & Laying Socket & Spigot End Centrifugally Spun Ductile Iron Pipes Of Class K-9 Conforming To IS-8329 150mm dia Ductile Iron class K-9 Pipes	meter			0		-	
99	Providing & Laying Socket & Spigot End Centrifugally Spun Ductile Iron Pipes Of Class K-9 Conforming To IS-8329 200mm dia Ductile Iron class K-9 Pipes	meter	0.000057914		27.25		0.158	
100	Providing & Laying Socket & Spigot End Centrifugally Spun Ductile Iron Pipes Of Class K-9 Conforming To IS-8329 250mm dia Ductile Iron class K-9 Pipes	meter			0		-	
101	Providing & Laying Socket & Spigot End Centrifugally Spun Ductile Iron Pipes Of Class K-9 Conforming To IS-8329 300mm dia Ductile Iron class K-9 Pipes	meter	0.000100292		167.41		1.679	
102	Providing & Laying Socket & Spigot End Centrifugally Spun Ductile Iron Pipes Of Class K-9 Conforming To IS-8329 350mm dia Ductile Iron class K-9 Pipes	meter			0		-	
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-6	lot	0.009625540		1		0.963	

PROJECT: STP RDA, CHHATISGARH		STP-6					% 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	TOTAL QTY (3.98 MLD)	Total Amount in Rs		
104	Providing & laying of PPFRP/HDPE 300mm pipe	meter			0		-	
105	Providing & laying of PPFRP/HDPE 250mm pipe	meter			0		-	
106	Providing & laying of PPFRP/HDPE 200mm pipe	meter	0.000057333		40.88		0.234	
107	Providing & laying of PPFRP/HDPE 150mm pipe	meter			0		-	
108	Providing & laying of PPFRP/HDPE 100mm pipe	meter			0		-	
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-6	lot	0.002343779		1		0.234	
110	Providing of Structural steel material including ISA angles, ISMC channels, ISMB beams and IS2062 GRE250(FE410W) plates (1 quintal = 100 Kg)	Quintal	0.000110481		7		0.077	
111	Providing & fixing of Anchor fastners.Hilti bolts : HST M12	nos	0.000007141		21		0.015	
112	Providing & fixing of Anchor fastners.Hilti bolts : HST M16	nos	0.000013872		21		0.029	
113	Providing & fixing of Anchor fastners.Hilti bolts : HST M20	nos	0.000027072		21		0.057	
114	Providing & fixing of Anchor fastners.Hilti bolts : HST M24	nos	0.000038339		21		0.081	
115	Providing & laying of Flexible metallic hoses up to sizes 150 NB along with hose clips and accessories	nos	0.000005853		90		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	0.000007814		152.81		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	0.000018861		30.69		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	0.000006761		6.81		0.005	
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	0.000072347		4		0.029	
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	0.000101087		14		0.142	
121	Providing and fixing brass/ gun metal gate valve with C.I. wheel of approved quality (screwed end): 80 mm nominal bore	each	0.000056631		4		0.023	
122	Providing and fixing ball valve (brass) of approved quality, High or low pressure, with plastic floats complete 25 mm nominal bore	each	0.000012643		4		0.005	
123	Providing and fixing gun metal non- return valve (horizontal type) of approved quality (screwed end) : 80 mm nominal bore	each	0.000073547		4		0.029	
124	Supplying and spreading hard stone aggregate 25mm size in out door switch yards/transformer as per direction of Engineer-in-charge.	cum	0.000044075		4		0.018	

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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 6") as specified.	sqm	0.000022418		6.32		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	0.000045158		311.38		1.406			
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	0.000555391		7		0.389			
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	0.000001463		216.61		0.032			
129	Supplying & laying WBM in 150mm consolidated (with 80 mm metal and murum casing)	sqm	0.000042407		433.22		1.837			
130	Supplying & laying WBM in 100mm consolidated (with 40 mm gravel and murum casing)	sqm	0.000043197		433.22		1.871			
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	0.000000439		6047.03		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	0.000219148		32.49		0.712			
133	Supplying & laying 40mm thick AC carpet (6.25% bitumen content).	sqm	0.000014955		433.22		0.648			
134	Supply and fixing of 30thk FRP grating including all fixtures supported on RCC/steel members	sqm	0.000120383		9.93		0.120			
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	0.000021423		74.01		0.159			
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	0.000002356		61.38		0.014			
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	0.000497531		4		0.199			
138	Supplying and laying 50 micron thick polyethylene sheet below floor slabs	sqm	0.000009373		122.74		0.115			

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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	TOTAL QTY (3.98 MLD)	Total Amount in Rs		
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	0.000014838		119.13		0.177	
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	0.000001990		902.54		0.180	
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 20 mm nominal outer dia .Pipes.	meter	0.000003541		12.65		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	0.000005502		36.99		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	0.000006468		36.99		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	0.000004653		61.32		0.029	
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	0.000006497		61.32		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	0.000011648		61.32		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	0.000005414		25.31		0.014	
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	0.000007551		25.31		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	0.000013785		25.31		0.035	
150	Providing and fixing 15 mm nominal bore Brass bib/stop cock of approved quality: Bib cock (250 grams)	Nos	0.000005414		6		0.003	
151	Providing and fixing 15 mm nominal bore Brass bib/stop cock of approved quality: Stop cock (350 grams)	Nos	0.000006936		6		0.004	

PROJECT: STP RDA, CHHATISGARH		STP-6					% 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	TOTAL QTY (3.98 MLD)	Total Amount in Rs		
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	0.000002649		12		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	0.000017326		6		0.010	
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	0.000022916		61.32		0.141	
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	0.000002502		8		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	0.000012233		8		0.010	
157	Providing and fixing sand cast iron S&S plain bend of required degree as per IS : 1729: 100 mm dia	each	0.000009980		8		0.008	
158	Providing and fixing sand cast iron S&S heel rest sanitary bend as per IS : 1729: 100 mm dia	each	0.000011268		8		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	0.000021072		8		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	0.000249907		2		0.050	
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	0.000119846		4		0.048	
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	0.000017531		4		0.007	
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	0.000084346		4		0.034	
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	0.000051977		4		0.021	
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	0.000007258		5		0.004	
166	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.	Nos	0.000084053		12		0.101	
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	0.000000214		4512.71		0.096	

		PROJECT: STP RDA, CHHATISGARH			STP-6		% allocation of overall amount	Remarks
Item. NO.	DESCRIPTION	UNIT	Multiplied factor for deriving rate (Total price quoted by the bidder will be multiplied with this factor to determine rate)	Rate Rs	TOTAL QTY (3.98 MLD)	Total Amount in Rs		
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	0.000007990		112.82		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	0.000012877		49.64		0.064	
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	0.000196174		4		0.078	
171	Extra for depth for manholes: Size 90x80 cm	meter	0.000109896		6.81		0.075	
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	0.000422843		3		0.127	
173	Extra for depth for manholes: Size 120x90 cm	meter	0.000130909		2.92		0.038	
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	0.000555391		3		0.167	
175	Providing and constructing extra depth for circular type manhole 0.91m internal dia (at bottom) beyond 0.91m and upto 1.67m	meter	0.000088590		2.92		0.026	
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	0.000131758		2.92		0.038	
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 .)		#DIV/0!		0		-	

		PROJECT: STP RDA, CHHATISGARH				STP-6		% 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	TOTAL QTY (3.98 MLD)	Total Amount in Rs			
a	450 mm dia	meter	0.000051772		30.17		0.156		
b	600 mm dia	meter	0.000071966		245.27		1.765		
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	0.000085575		3.61		0.031		
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 :				0		-		
a	100x100 mm size P type	EACH	0.000039188		2		0.008		
b	150 x 100 mm size P type.	EACH	0.000040885		2		0.008		
c	180x150 mm size P type	EACH	0.000044017		2		0.009		
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	0.000001932		15298.08		2.955		
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	0.000001990		910		0.181		
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	0.000003058		4589.42		1.404		
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	0.000003366		367.33		0.124		
184	Uprooting weeds from the trenched area after 10 to 15 days of its flooding with water including disposal of uprooted vegetation.	sqm	0.000000047		361.02		0.002		
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) :				0		-		
a	Holes 1.2 m dia and 1.2 m deep	each	0.000008019		7		0.006		
b	Holes 60 cm dia, and 60 cm deep	each	0.000000966		7		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	0.000000193		180.51		0.003		
187	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	0.000007697		180.51		0.139		
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	0.000000834		245.27		0.020		
189	Providing and planting following herbs in garden including preparation of soil, base plantation, providing and spreading different fertilizers, soil and sand:				0		-		
a	Hedges like Alife, Dorenta, Tikoma etc	each	0.000000410		245		0.010		

PROJECT: STP RDA, CHHATISGARH				STP-6			% 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	TOTAL QTY (3.98 MLD)	Total Amount in Rs		
b	Hibiscus (Flower)/ Rose	each	0.000000776		31		0.002	
190	Providing and mixing water proofing material in PCC/ RCC work in the proportion recommended by the manufacturer.	kg	0.000001273		14999.33		1.910	
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	0.000036320		6		0.022	
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	0.000006907		7.22		0.005	
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	0.000005385		27.08		0.015	
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	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), (G) & (1) . These rates & amount will be derived from the Grand Total amount quoted multiplied by the Multiplying factor of respective item indicated in col. D. The rate of each BOQ item shall be rounded off to the next 1(one) paise.
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. 8.0 of the TCC will be applicable.