

PROPOSED CIVIL WORKS OF SEWAGE PIPE-LINE AND STP AT LOCAL HEAD OFFICE, BHOPAL

S.NO.	Description	NO.	L	B	H/D	QTY.	UNIT	RATE	AMOUNT
A1. Civil work for the laying of Sewage lines and construction of pit for installation of STP tank									
1	Excavation for Sewage pipe line laying, chamber, water tanks, pits, etc., in all types of soil including soft or hard moorum, boulders (upto 0.10 cum) shoring the sides wherever necessary, bailing out of water and keeping the foundation trenches and pits dry including filling back the trenches by selected earth in layers not exceeding 25 cm., watered and consolidated, spreading the surplus material within plot and carting away the surplus materials out of site, all complete as directed upto 2.00 m. (Mode of measurement are P.C.C. area)								
a.	Soft Rock/B.C. SOIL excavation upto 2.0m depth					137.13	Cum		
b.	Beyond 2.00 meter upto any Depth					28.6	Cum		
2	FILLING- STONE DUST Providing and Laying, Filling in plinth and plinth protection with selected earth including Stone crusher Dust as per sample approved brought from outside (at contractor's cost) in layers not exceeding 20 cm. thick, including watering and consolidating complete as directed.					29.11	Cum		
3	P.C.C. Providing and laying P.C.C. 1:3:6 level ling course with 25/30 mm down gauge aggregate, in foundations, pits, raft etc. below plinth including consolidation, curing etc., complete.					6.94	Cum		
4	R.C.C. Providing and laying in position specified grade of reinforced cement concrete, Including the cost of centering, shuttering but excluding the cost of finishing and reinforcement - All work up to plinth level :								
	1:1.5:3 (1 cement : 1.5 coarse sand (zone-III) derived from natural sources : 3 graded stone aggregate 20 mm nominal size de rived from natural sources)					25.65	Cum		
5	Reinforced cement concrete work in walls (any thickness), including attached pilasters, buttresses, plinth and string courses, filets, columns, pillars, piers, abutments, posts and struts etc. up to floor five level, including cost of centering, shuttering, but excluding the cost of finishing and reinforcement.:								
	1:1.5:3 (1 cement : 1.5 coarse sand/(zone-III) derived from natural sources : 3 graded stone aggregate 20 mm nominal size derived from natural sources)					1.8	CUM		
6	STEEL REINFORCEMENT Supplying and placing in position Tested Quality TMT reinforcement bars of all diameter as per structural drawing including cutting, bending & fabricating including tying using good quality binding wire and/or welding at all heights and locations for R.C.C. work, including dowels of required diameters and lengths as per design & as directed, providing required cover with concrete briquets, spacer pieces, chairs, etc. as required complete.								
	R.C.C. WORK QUANTITY Mild steel and Medium Tensile steel bars @ 100 kgs per cum of concrete volume					2745.00	KG		
7	6 mm cement plaster of mix : 1:3 (1 cement : 3 fine sand) Screen Chamber					8.40	SQM		
8	Provide site services for Chamber Invert level by Total station theodolite(TST) instrument. Including required manpower, tools & tackles etc. all levels provide by instrument as well as drawing provide in autocad format. During laying of pipe line and chamber all position given by TST instrument. All documents hand over the Architects or Engg. In-Charge. Note NGL. and chamber invert level mention on drawing, checked and approved by architect office.					1.00	LUMSUM		
9	Providing and constructing Inspection Chambers of approx Internal size 1200mm(W) x 1500mm(L) x 1800mm(D) in 100/110mm thk. R.C.C.- M-20 Grade walls(100/110mm thk.) & Raft(100/110mm thk.), including centering & shuttering, internal plaster 1:4 cement sand mix in single coat about 12mm and with heavy duty FRP Cover with Frame (Size:- 600mm x 900mm)(Bearing capacity minimum 2.50 Tons) as per sample approved. The rate should include Chamber Raft Slab(M-20 Concrete grade) 100mm thk. and necessary earthwork in excavation, disposal of surplus material as directed, laying P.C.C. 1:3:6, 100mm thick leveling course, making neat cement finish smooth benching, hunches, channels etc. in CC 1:2:4 complete for smooth flow as required. Rate to include for making connections to stone ware/PVC pipes etc. complete in all respect.					3.00	EACH		

19	FLOORING FOR MACHINE ROOM								
	IPS FLOORING 1:2:4					3.2	SQM		
20	Providing and Fixing M.S.Truss, Steel Column, base plate, Purlin other frame work etc. made out of MS (square pipes, Round Pipes, Rectangle Pipes, Plates, round pipes, square bars, channels, ISMB etc.) as per the design and details, supported on Concrete Bed Blocks casted over Brick Walls as specified in the Drawings/Details. The structure shall be Welded by Arc Welding of superior quality using best quality Electrodes and Standard Welding Equipment, Chisel cutting, bending, grinding, drilling etc. hammering excess deposits and then finishing with surface grinders including erection. The Rates includes Cost of Anchor Bolts with thread, Washers, Nuts, Cost of Scaffolding, Powder Coating(60 to 60 Microns thickness) by chemical process with Superior Quality, color shade any as per approved, all work as per approved by the Architect and the Cost of All Material, Wastages, Labour, Cost of T&P etc Complete. Note:- Provide crane for erection and all safety parameters in vendor scope. NOTE:- MAKE OF MATERIAL ARE :- TATA STRUCTURE PIPE, TATA BLUSCOPE STEEL, JINDAL PIPE, APL APOLLOW PIPES, ERW PIPES.								
						110	KG		
21	Galvanised Panels for Roofing, Providing & Fixing Color Coated Galvanised roofing sheet including vertical/curved surface fixed with polymer coated self screw with waterproof washer, J or L hooks, bolts and nuts 8 mm diameter with bitumen and G.I. limpet washers or with G.I. limpet washers filled with white lead, including a coat of approved steel primer and two coats of approved paint on overlapping of sheets complete (up to any pitch in horizontal/ vertical or curved surfaces), excluding the cost of purlins, rafters and trusses and including cutting to size and shape wherever required. Note:- Profile & Color approved by Engineer In Charge or Architect. MAKE OF MATERIAL:- JSW, TATA BLUSCOPE STEEL OR APPROVED BY ENGINEER INCHARGE					11.25	SQM		
22	GRILL FOR WINDOW Providing and fixing at site M.S. grills of required pattern to be fixed in brick wall to be grouted including concreting work, frames of windows etc. with M.S. flats, square or round bars etc. including 2 coats of steel primer, and two coats of approved shade of synthetic enamel, the cost shall include all labour, materials, contingencies etc complete.					86.4	KG		
23	M.S. DOOR FOR MACHINE ROOM WITH ANGLE FRAME					73.5	KG		
	PAINING WORK								
24	INTERNAL PAINTING Internal Wall painting work with acrylic emulsion paint Royale, or EQ over one coat of Water Based cement primer of approved brand and manufacture to give an even shade :					24.7	SQM		
25	EXTERNAL PAINTING Finishing walls with Premium Acrylic Smooth exterior paint of Apex Ultima or Eq. with Silicone additives of required shade .New work (Two or more coats applied @ 1.43 ltr/ 10 sqm over and including priming coat of exterior primer applied @ 2.20 kg/ 10 sqm					26.5	SQM		
						Total Amount for Rs A2			
A	TOTAL AMOUNT FOR CIVIL WORK (IN Rs.)								
B	ELECTRICAL WORK								
1	a). Providing and fixing one light point controlled by one switch.WITH CIRCIUT					8	NOS		
2	SWITCH BOARD WITH CIRCUIT WIRING & 6 AMP POINT ON SAME BOARD With circiut					2	NOS		
3	16 AMP. POWER POINT					4	NOS		
	Supply, fixing, testing and commissioning of 1 No 16 A switch & 1 No. six pin 6/16 Amp. Multi Socket (Modular Type) with cover plate, sheet steel box etc on surface / concealed manner I/c electrical wiring with 2 X 2.5 sqmm + 1 X 2.5 sqmm PVC insulated copper conductor single core multi stranded wire in 16 swg stove enameled rigid steel conduit with 1.6 mm (mms) conduit accessories like bend, junction box etc on surface / recessed manner etc (Wiring from D.B. / Source to Board/destination) and making good all the damages, painting, cleaning the site etc complete as required as per site requirement and as directed.								
4	P/f SURFACE DOWNLIGHTER					12	NOS		
5	P/f BULKHEAD LIGHT					4	NOS		
	TOTAL AMOUNT FOR B (IN Rs.)								
	TOTAL AMOUNT FOR (A+B) (IN Rs.)								

	GRAND TOTAL							-