

Name of work : Construction of proposed sewerage network system by Re-routing / re-aligning of all existing sewerage / water supply lines, through the ground floor ceiling level with the help of hanging trays / hanging ducts, duly camouflaged by providing a suitable decorative cladding with painted Multipurpose 8 mm thick cement fibre board as per IS : 14862 with suitable fibre cement screw, in the existing A.O Building, Jabalpur, Madhya Pradesh.

**: SCHEDULE OF WORK :**

Srl.no	Breif Description of works	Unit	Qty	Rate	Amount
1	<b>Dismantling of Brick walls of Existing Duct :</b> Demolishing brick work manually/ by mechanical means including stacking of serviceable material and disposal of unserviceable material within 50 metres lead as per direction of Engineer-in-charge. In cement mortar	Cum	1		
2	<b>Laying of New PVC soil pipe :</b> Providing and fixing 160mm dia PVC (Polyvinyl Chloride) pipes, having Specification as per standard Technocore soil pipes, tested to BS 4514; EN 1453-1:2000, including fixing the pipe with Hanging Tray made from MS Hallow sections by using clamps at 1.00 m spacing. New PVC pipes shall be connected with existing CI pipes using the specially designed SP140 connector and jointing between PVC pipes & fittings using Rubber Ring Joints. Cost of SP140 connector, Bend, Socket etc fittings shall be paid seperately. Note : The rubber ring joint is integrally moulded on one end of the pipe. The joint incorporates a factory fitted rubber sealing ring which is retained in position by a polypropylene lock ring. The opposite (spigot) end of the pipe is chamfered and has a "depth of entry" mark near the end. Each joint is capable of handling some expansion and contraction as well as angular deflection. The seal ring is designed to provide a watertight joint at high and low pressures.	Rmtr	116		
3	<b>Connecting New PVC pipe with existing C.I. Soil pipe :</b> Providing and fixing specially designed SP140 connector or making connections of New PVC soil pipes with existing C.I. soil pipes.	Each	6		
4	<b>PVC Fittings.:[ All 160mm dia.]</b>				
4.1	Providing and fixing PVC Bends (90 degree) :				
4.1.1	a) Door Bend	Each	8		
4.1.2	b) Without Door Bend	Each	4		
4.2	Providing and fixing PVC Tees :				
4.2.1	a) T-With Door	Each	4		
4.2.2	b) T- Without Door Bend	Each	4		
5	<b>Steelworks for Hanging Trays.:</b> Steel work in built up tubular (round, square or rectangular hollow tubes etc.) trusses etc., including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer, including welding and bolted with special shaped washers etc. complete. Hot finished seamless type tubes.	Kg	3095		

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Srl.no	Breif Description of works	Unit	Qty	Rate	Amount
6	<p><b><u>Encasing Hanging Trays with Multipurpose 8 mm thick cement fibre board cladding :</u></b>            Providing and fixing, in position concealed G.I. section for wall paneling using Multipurpose 8 mm thick cement fibre board as per IS : 14862 with suitable fibre cement screw. fixed on the 'W' profile (0.55 mm thick) having a knurled web of 51.55 mm and two flanges of 26 mm each with lips of 10.55 mm, placed @ 610 mm C/C in perimeter channel having one flange of 20 mm and another flange of 30 mm with thickness of 0.55 mm and web of length 27 mm. Perimeter channel is fixed on the floor and the ceiling with the nylon sleeves @ 610 mm C/C with fully threaded self-tapping dry wall screws. Board is fixed to the 'W' profile with 25 mm countersunk ribbed head screws @ 200 mm C/C., all complete as per the drawing &amp; directions of engineer-in-charge, the joints of the boards are finished with specially formulated jointing compound and 48mm wide jointing tape to provide seamless finish.</p>	Sqm	83		
7	<p><b><u>Construction of Soil Pits.:</u></b>            Constructing brick masonry manhole in cement mortar 1:4 ( 1 cement : 4 coarse sand ) with R.C.C. top slab with 1:1.5:3 mix (1 cement : 1.5 coarse sand (zone-III) : 3 graded stone aggregate 20 mm nominal size), foundation concrete 1:4:8 mix (1 cement : 4 coarse sand (zone-III) : 8 graded stone aggregate 40 mm nominal size), inside plastering 12 mm thick with cement mortar 1:3 (1 cement : 3 coarse sand) finished with floating coat of neat cement and making channels in cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) finished with a floating coat of neat cement complete as per standard design :            Inside size 90x80 cm and 45 cm deep including C.I. cover with frame (light duty) 455x610 mm internal dimensions, total weight of cover and frame to be not less than 38 kg (weight of cover 23 kg and weight of frame 15 kg) :            With common burnt clay F.P.S. (non modular) bricks of class designation 7.5</p>	Each	9		
8	<p><b><u>Connection of New Sewer line with Existing Soil Pits.:</u></b>            Making connection of drain or sewer line with existing manhole including breaking into and making good the walls, floors with cement concrete 1:2:4 mix (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) cement plastered on both sides with cement mortar 1:3 (1 cement : 3 coarse sand), finished with a floating coat of neat cement and making necessary channels for the drain etc. complete For pipes 100 to 250 mm diameter.</p>	Each	8		
9	<p><b><u>Dismantling of Concrete :</u></b>            Demolishing Nominal concrete 1:3:6 or richer mix (i/c equivalent design mix) manually/ by mechanical means including disposal of material within 50 metres lead as per direction of Engineer - in - charge.</p>	Cum	18		

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10	<b>Earthwork in excavation :</b> Excavating trenches of required width for pipes, cables, etc including excavation for sockets, and dressing of sides, ramming of bottoms, depth upto 1.5 m, including getting out the excavated soil, and then returning the soil as required, in layers not exceeding 20 cm in depth, including consolidating each deposited layer by ramming, watering, etc. and disposing of surplus excavated soil as directed, within a lead of 50 m : for Pipes, cables etc. exceeding 80 mm dia. but not exceeding 300 mm dia.	Rmtr	77		
11	<b>Earthwork in Filling :</b> Filling available excavated earth (excluding rock) in trenches, plinth, sides of foundations etc. in layers not exceeding 20cm in depth, consolidating each deposited layer by ramming and watering, lead up to 50 m and lift up to 1.5 m.	Cum	69		
12	Providing & laying Single Brick Flat Soling.	Sqm	58		
13	<b>PLAIN CEMENT CONCRETE WORK (CAST-IN-SITU) :</b>				
13.1	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level : 1:4:8 (1 Cement : 4 coarse sand (zone-III) derived from natural sources : 8 graded stone aggregate 40 mm nominal size derived from natural sources).	Cum	6		
13.2	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level : 1:1½:3 (1 Cement: 1½ coarse sand(zone-III) derived from natural sources : 3 graded stone aggregate 20 mm nominal size derived from natural sources).	Cum	6		
14.0	<b>BRICK WORK :</b>				
14.1	Brick work with clay flyash F.P.S. (non modular) brick of class designation 7.5 in superstructure above plinth level up to floor five level in : Cement mortar 1:6 (1 cement : 6 coarse sand)	Cum	2		
15.0	<b>PLASTERING WORKS :</b>				
15.1	15 mm cement plaster on the rough side of single or half brick wall of mix : 1:4 (1 cement: 4 fine sand)	Sqm	6		

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Srl.no	Breif Description of works	Unit	Qty	Rate	Amount
16	<b>Painting &amp; Putty works :</b>				
16.1	Providing and applying white cement based putty of average thickness 1 mm, of approved brand and manufacturer, over the plastered wall surface to prepare the surface even and smooth complete.	Sqm	83		
16.2	Distempering with 1st quality acrylic distemper (ready mixed) having VOC content less than 50 gram/litre, of approved manufacturer, of required shade and colour all complete : New work (two or more coats) over and including water thinnable priming coat with cement primer having VOC content less than 50 gram/litre	Sqm	83		
	Total =			Rs	
	Net Amount :			Rs	