



**DEVELOPMENT OF ROAD WITH UTILITIES, FROM PENTI NAKA TO GOUR TIRAHA,
JABALPUR**

SUMMARY SHEET

Sr No.	Item Description	Amount (In Rs.)
1	UTILITY DUCT	290656826.10
2	SEWER LINE	20682528.21
3	PEDESTRIAN TRACK	64955324.00
4	ROAD SIGNAGES AND LANDSCAPING	3128818.50
	TOTAL	376294678.31
	SAY	376300000.00
	<i>in words Rs thirty seven crore sixty three lacs</i>	



ESTIMATE OF ELECTRICAL DUCT

S No.	UADD SOR ITEM NO	Descriptions of Item	Quantity	Rate	Revised Reduced Rates as per Order	Unit	Amount
1	2.9.1, Vol II	Excavation					
		Excavation work in foundation trenches or drains not exceeding 1.5 m in width or 10 sqm on plan including dressing of sides and ramming of bottoms lift upto 1.5 m, including getting out the excavated soil and disposal of surplus excavated soils as directed, within a lead of 50m.					
		Ordinary rock					
		Excavation for Duct	89676.00				
			3113.75				
		Total Excavation	92789.75	202.00	181.80	cum	16869176.55
2	2.27.1 Vol II	Filling					
		Supplying and filling in plinth under floors including, watering, ramming consolidating and dressing complete.					
		2.27.1 Crusher Stone Dust					
		Total	7003.00	628.00	565.20	cum	3958095.6
3	4.1.1 Vol II	Cement Concrete M-15(Duct)					
		Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering All work up to plinth level.					
		M 15 with 20mm maxumum size of aggregate.					
		Total	5252.25	4154.00	3738.60	cum	19636061.85
4	5.1.1 Vol II	Providing and laying Plain / Reinorced cement concrete (mixed in concrete mixture) ... RCC Grade					
		M20 with 20mm maxumum size of aggregate.					



		Total quantity of M20 Concrete	25834.10	4728.00	4255.20	cum	109929262.3
5	Vol II 5.10	Providing, hoisting and fixing up to floor two level precast reinforced cement concrete work in string courses, bands, copings, bed plates, anchor blocks, plain window sills and the like including the cost of required centering, shuttering, finishing smooth with 6 mm thick cement plaster 1:3 (1 cement : 3 fine sand) on exposed surfaces complete but excluding cost of reinforcement with Cement concrete grade M-20 (Nominal Mix with 20 mm maximum size of stone aggregate)					
		Total quantity	90.00	6524.00	5871.60	cum	528444
6	5.20.6 Vol II	Reinforcement for Duct					
		Reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete.					
		Taking average weight for estimate (Payable as actual design & weight calculations)					
		Total Quantity	1792746.00	60	54.00	kg	96808284
7	20.1.1 Vol II	Form work for Duct					
		Centering and shuttering including strutting, propping etc.and removal of form for : 20.1.1 Foundations, footings, bases of columns, etc. For mass concrete.					
		Total quantity	150543.00	138.00	124.20	SqM	18697440.6
11	2.27.2 Vol II	Sand Filling					
		Supplying and filling in plinth under floors including, watering, ramming consolidating and dressing complete.					
		Total quantity	5587.50	1201.00	1080.90	cum	6039528.75



12	18.18.1 Vol 1	Providing and fixing APP (Atactic polypropylene Polymer) modified prefabricated five layer 2mm thick water proofing membrane, black finished reinforced with glass fibre matt consisting of a coat of bitumen primer for bitumen membrane @ 0.40 ltr/sq. mtr. by the same membrane manufacture of density at 25°C, 0.87 - 0.89 kg/ ltr and viscosity 70 - 160 cps. Over the primer coat the layer of membrane shall be laid using Butane torch and sealing all joints etc., and repairing the surface complete. The vital physical and chemical parameters of the membrane shall be as under : Joint strength in longitudinal and transverse direction at 23°C as 350/300 N/ 5cm. Tear strength in longitudinal and transverse direction as 60/80N. softening point of membrane not less than 150°C. Cold flexibility shall be upto -2°C when tested in accordance with ASTM, D - 5147. The laying of membrane shall be got done through the authorised applicator of the manufacture of membrane.					
		(18.18.1...) 2mm Sqm					
		Total quantity	67536.50	287	258.30	SQM	17444677.95
13	10.25.1/ pg 11	Steel work welded in built up sections/ framed work including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer using structural steel etc. as required.					
		Providing two L angles 40 by 40 by 3 to conc edge for creating a damage free face profile on a pair lid anda pair bearing surface in notch faces					
		Total quantity	13154.40	63	56.70	Kg	745854.48
TOTAL							290656826.10



ESTIMATE OF SEWER LINE

S.No.	UADD SOR ITEM NO	Descriptions of Item	Quantity	Rate	Revised Reduced Rates as per Order	Unit	Amount in Rs.
		Excavation for Drain pipe					
1	UADD SOR Vol (i) 15.1/P-151	Earth work in Excavation for pipe trench in all kinds of soil and WBM in areas including dressing, watering and ramming and disposal of Excavated earth lead upto 50 meters and lift upto 1.5m, disposal earth to be leveled, neatly dressed.					
			13559.00	129.10	116.19	cum	₹ 15,75,420.21
		REINFORCED CEMENT CONCRETE PIPES					
2	UADD SOR Vol (i) 13.1/P-138	Providing, Laying and jointing non-pressure (NP2) RCC socket & spigot pipes with rubber gasket joint including testing of joints. [Conforming to IS ; 458-1988, ISI marked laying as per IS 783:1985)					
			13720.00	1049.00	944.10	Per m	₹ 1,29,53,052.00
3	UADD SOR Vol (i) 15.9/P-151	Filling with moorum for pipe bedding or over the pipe including supply of moorum					
			3697.20	625.00	562.50	cum	₹ 20,79,675.00
5	UADD SOR Vol (i) 11.43/P-135	Construction of circular type of manhole 1500 mm internal dia. at bottom, 560 mm dia at top, total depth of manhole 2650mm in brick masonry with 1:5 cement mortar (1 cement : 5 fine sand), 12 mm thick Cement plaster 1:3 (1 cement : 3 coarse sand) finished with a floating coat of neat cement. 30 cm thick foundation in Cement concrete grade M-7.5 (Nominal Mix) with stone aggregate 40 mm nominal size, RCC Cement Concrete grade M-20 (Nominal Mix) with 20mm Nominal size on top slab and making channel in cement concrete grade M-15 (Nominal Mix) with stone aggregate 20 mm nominal size neatly finished, curing fixing of ISI marked reinforced concrete heavy duty cover (including transportation of cover) complete. as per standard design (Drawing No. 15)					
			230.00	19683.00	17714.70	EACH	₹ 40,74,381.00
GRAND TOTAL							₹ 2,06,82,528.21



7	11.20 Vol II	Chequerred precast cement concrete tiles 18-20mm thick in footpath & courtyard jointed with neat cement slurry mixed with pigment to match the shade of tiles including rubbing and cleaning etc. complete on 20 mm thick bed of cement mortar 1:4 (1 cement: 4 coarse sand).					
		Along Road					
	11.20.1	Medium Shade Using 50% white Cement & 50% grey cement	43200.00	616.00	840.00	SqM	36288000.00
		At junction					
		Dark shade using ordinary cement.	750.00	616.00	840.00	SqM	630000.00
	11.20.3	Dark shade using ordinary cement.	43200.00	616.00	554.40	SqM	23950080.00
		At junction					
		Dark shade using ordinary cement.	750.00	616.00	554.40	SqM	415800.00
8	8.1, Vol III, pg 69	Kerb Stone					
		Construction of cement concrete kerb with top and bottom width 115 and 165 mm respectively, 250 mm high in M 20 grade PCC on M-10 grade foundation 150 mm thick, foundation having 50 mm projection beyond kerb stone, kerb stone laid with kerb laying machine, foundation concrete laid manually, all complete and as per clause 408 of specifications. A Using Concrete Mixer					
		towards road side	14400.00				
		at Junction	500.00				
		Total Quantity	14900.00	187.00	168.30	meter	2507670.00
TOTAL							71011911.60



ESTIMATE OF ROAD MARKING, STREET FURNITURES & PLANTATION

S No.	UADD SOR ITEM NO	Descriptions of Item	Quantity	Rate	Reduced Rates as per UADD Orders	Unit	Reduced Rates as per UADD Orders
1	Item 8.10 Vol III	Road Marking					
		Solid Lines in White Colour					
		Road Marking with Hot Applied Thermoplastic Compound with Reflectorising Glass Beads on Bituminous Surface (Providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads @ 250 gms per sqm area, thickness of 2.5 mm is exclusive of surface applied glass beads as per IRC:35 .The finished surface to be level, uniform and free from streaks and holes and as per relevant clauses of section-800.					
		Solid Lines in White Colour	1440.00				
		Brocken Lines in White Colour	720.00				
		Stop Lines in White Colour	288.00				
		Applying Zebra Crossing	400.00				
		Total Quantity	2848.00	900.00	810.00	Sqm	2306880.00
2	Item 8.8 Vol III	Painting lines, dashes, arrows etc					
		Painting lines, dashes, arrows etc on roads in two coats on new work with ready mixed road marking paint conforming to IS:164 on bituminous surface, including cleaning the surface of all dirt, dust and other foreign matter, demarcation at site and traffic control as per relevant clauses of section-800 & I.R.C.-67 including cost of paint etc. complete.	3600.00	70.00	63.00	Sqm	226800.00
3	Item No 8.3 Vol III	Signages					
		Providing and fixing of retro- reflectorised cautionary, mandatory and inforatory sign as per IRC :67 made of encapsulated lens type reflective sheeting vide clause 801.3, fixed over aluminium sheeting, 1.5 mm thick supported on a mild steel angle iron post 75 mm x 75 mm x 6 mm (height from crown level of the road and bottom of the sign board shall not be less than 1.5 m.) firmly fixed to the ground by means of properly designed foundation with M15 grade cement concrete 45 cm x 45 cm x 60 cm, 60 cm below ground level as per approved drawing including painting of vertical post as per specification.					
		90 cm equilateral triangle	5.00	3715.00	3343.50	Nos	16717.50
		80 cm x 60 cm rectangular	10.00	4537.00	4083.30	Nos	40833.00



4	8.12 Vol III	Road Delineators (Supplying and installation of delineators (road way indicators, hazard markers, object markers), 80-100 cm high above ground level, painted black and white in 15 cm wide stripes, fitted with 80 x 100 mm rectangular or 75mm dia circular reflectorised panels at the top, buried or pressed into the ground and conforming to RC-79 and the drawings as per relevant clauses of section-800 of specifications.					
			40.00	292.00	262.80	each	10512.00
	8.20 Vol III	Road Markers/Road Stud with Lense Reflector (Providing and fixing of road stud 100x 100 mm, dia cast in aluminium, resistant to corrosive effect of salt and grit, fitted with lense reflectors, installed in concrete or asphaltic surface by drilling hole 30 mm upto a depth of 60 mm and bedded in a suitable bituminous grout or epoxy mortar, all as per BS 873 part 4:1973)					
			40.00	292.00	262.80	each	10512.00
5	11.1 Vol III	Planting Permanent Hedges including Digging of Trenches (Planting permanent hedges including digging of trenches, 60 cm wide and 45 cm deep, refilling the excavated earth mixed with farmyard manure, supplied at the rate of 4.65 cum per 100 meters and supplying and planting hedge plants at 30 cm apart)	1200.00	230.00	207.00	Meter	248400.00
6	11.2 Vol III	Planting of Trees and their Maintenance for one Year (Planting of trees by the road side (Avenue trees) in 0.60 m dia holes, 1 m deep dug in the ground, mixing the soil with decayed farm yard/sludge manure, planting the saplings, backfilling the trench, watering, fixing the tree guard and maintaining the plants for one year)	80.00	488.00	439.20	Nos	35136.00
7	23.15 MP PWD SOR	Providing and planting different variety of plants of approved quality and sizes as mentioned including making pits of required size at site, refilled with B.C. Soil mixture manuring and pesticide etc complete (to be paid separately) including watering and 90 days maintenance from the date of final bill as per direction of engineer in charge complete in all respect (B.C Mixture paid separately).					
	23.15.1	Any of one from Plameriya alba, fycus benjameena. Malkikeya champa. Begnonia plumaric pudoca Plants (1.8 mtrs to 2.10 mtrs height.	80.00	645	580.50	each	46440.00



	23.15.2	Any of one from Lantana VAR Red, Lantana Blue White, Hemelia Mini. lantana varicated, ticoma Redicens, Spi Oala, Golden Dunanta.(height 0.3 m to 0.45m)	1000.00	33	29.70	each	29700.00
8	11.5 vol-3	Tree Guard with MS Angle Iron and Steel Wire (Providing and fixing tree guard 0.60 square meter, 2.00 meter high fabricated with MS angle iron 30 x 30 x 3 mm, MS iron 25 x 3 mm and steel wire 3 mm dia welded and fabricated as per design in two halves bolted together)	80	2179	1961.10	each	156888.00
TOTAL							3128818.50