

OFFICE OF THE MUNICIPAL CORPORATION, KORBA (C.G.)

DETAILED ESTIMATE

Work Name :- Providing , laying and Extention of PVC pipeLine at ward no. 33 Manikpur Diprapara


(CG PHE SOR Amendment No 7/ 2022-23;


S.N.	ITEM DESCRIPTION	N	L	W	D	QTY	UNIT	RATE	AMOUNT
1	Demolishing cement concrete manually / by mechanical means including disposal of material within 50 m lead as per direction of engineer-in-charge. Dismantling of Cement Concrete Pavment by mechanical means using pneumatic tools, cutter breaking to pieces not exceeding 0.02 cum in volume and stock piling at designated locations and disposal of dismantled materials up to a lead of 1000 metres, stacking serviceable and								
		1	400.00	0.70	0.20	56.00			
						56.00	Cum	1227.00	68712.00
2	Earth work in excavation for pipe trench in ordinary soil areas including dressing, watering, ramming and disposal of excavated earth lead up to 50m and lift up to 1.5m, disposal earth to be levelled, neatly dressed.								
		1	1200.00	0.70	1.00	840.00			
						840.00	Cum	201.00	168840.00
3	Earth work in excavation for pipe trench in all kinds of rocks in areas including dressing, stacking of useful material and disposal of unservice able material up to lead up to 50m and lift up to 1.5m.								
	Soft rock with or without blasting or bituminous pavement / cement concrete road	1	950.00	0.70	0.30	199.50			
						199.50	Cum	465.00	92767.50
4	Supply & Filling moorum/river sand for pipe bedding or over the pipe (including supply)								
		1	1200.00	0.70	0.20	168.00			
						168.00	Cum	864.00	145152.00
5	Providing, laying and jointing following P.V.C. pipes with solvent cement joint for 6, 8 and 10 kg/ sq. cm. pressures including testing of joints, cost of jointing materials etc. complete in all respect								
A	For pipeline of 110mm Dia. PVC Pipe 6Kg/cmsq								
						700.00			
						700.00	Mtr.	331.00	231700.00
3	For pipeline of 160mm Dia. PVC Pipe 6Kg/cmsq								
						500.00			
						500.00	Mtr.	570.00	285000.00

	Providing, Solvent Cement Joints to PVC Pipes and fittings of 6, 8 and 10 Kg/Sq cm. Pressure including testing of joints and cost of joining materials (i.e. socket, coupler & solvent cement)								
	110 mm dia					60.00			
						60.00	Each	34.00	2040.00
	160 mm dia					40.00			
						40.00	Each	42.00	1680.00
7	Providing and laying in position including testing following PVC bends suitable for 6, 8 and 10 Kg/Sq. cm. pressure pipes								
	110 mm dia					30.00			
						30.00	Each	427.00	12810.00
	160 mm dia					17.00			
						17.00	Each	1408.00	23936.00
8	Providing and laying in position including testing following PVC Tee suitable for 6, 8 and 10 Kg/Sq. cm. pressure pipes								
	110 mm dia					10.00			
						10.00	Each	267.00	2670.00
	160 mm dia					5.00			
						5.00	Each	420.00	2100.00
9	Providing and laying in position including testing following PVC end Cap (plugs) suitable for 6, 8 and 10 Kg/Sq cm. Pressure pipes.								
	pipe line 110 m diameter					10.00			
						10.00	Each	80.00	800.00
	160 mm dia					5.00			
						5.00	Each	212.00	1060.00
10	Providing and laying in position including testing PVC coupler suitable for 6, 8 and 10 Kg/Sq. cm. Pressure pipes								
	pipe line 110 m diameter					55.00			
						55.00	Each	120.00	6600.00
	pipe line 160 m diameter					35.00			
						35.00	Each	399.00	13965.00

	Provision for inter connection of old to new pipe line with excavation of trench as per requirement of any diameter & type of pipe in muddy area i/c dewatering the trench laying & jointing of pipe and specials, back filling the trench i/c testing of joints cost of labour & specials such as D-Joints couplers, solvent cement etc, complete job work as per approved specification and as directed by Engineer in charge.								
	110/110 mm dia					5.00			
						5.00	Each	2854.00	14270.00
12	Pumping out water caused by springs, tides or river seepage, broken water mains or drains or well or the like.								
						450.00			
						450.00	KL	71.00	31950.00
13	Construction of Brick masonry valve chamber with 20 cm thick wall in 1:6 C.M. with 12mm thick 1:4 Cement Plaster and base course 10 cm. thick in M-15. Inside Dimensions 10x80x100cm M-20 RCC chamber cover size 130x100cmx120cm including cost of materials, labour etc. complete								
						3.00			
						3.00	Each	7886.00	23658.00
14	Providing and fixing PVC Djoint (Detachable joint) in PVC pipe line suitable for classes up to 10kg/sqcm Pressure pipes. i/c nut bolt, cutting of pipe, testing of joints etc complete.								
	pipe line 110 m diameter					20.00	Each	157.00	3140.00
	pipe line 160 m diameter					12.00	Each	244.00	2928.00
15	Providing & laying mechanically mixed cement concrete 20mm nominal size graded crushed stone excluding cost of centering & shuttering.								
	Reconstruction of road (M-20 Grade)								
	1:31/2:3 (M-20)								
		1	400.00	0.70	0.20	56.00	Cum	6545.00	366520.00
19	Providing and Laying including testing Ductile Iron Double Socket branch flange Tee conforming to IS:9523/2000 having dimension as per table 21 of IS:9523/2000 in the following nominal diameter/sizes with external bitumen coating and internal cement mortar lining with finishing as per clause 13 of IS:9523/2000.								
	150 mm x 100 mm					3.00	Each	3150.00	9450.00

	Providing and Laying including testing Ductile iron Mechanical joint collar with lower glands conforming to IS: 9523/2000 having dimension as per table 24 of IS: 9523/2000 in the following nominal diameter/sizes with external bitumen and internal cement mortar lining								
	100 mm Dia					20.00	Each	2647.00	52940.00
	150 mm Dia					16.00	Each	3896.00	62336.00
21	Providing & fixing of following Cast iron double flanged sluice valves as per I.S.:14846-2000 fitted with cast iron cap including jointing & testing with cost of jointing material such as bolts, nuts, rubber insertions etc. all complete								
	150mm dia					2.00	Each	7559.00	15118.00
	100mm dia					2.00	Each	5090.00	10180.00
22	Providing and Laying including testing ductile iron PN 16 type flanged sockets conforming to IS:9523/2000 having dimension as per table 23 of IS: 9523/2000 in the following nominal diameter/sizes with external bitumen coating and internal cement mortar lining with finishing as per clause 13 of IS:9523/2000.								
	100mm					4.00	Each	1033.00	4132.00
	150mm					4.00	Each	1608.00	6432.00
23	Providing and Laying including testing ductile PN 16 type iron flanged spigot conforming to IS:9523/2000 having dimension as per table 24 of IS: 9523/2000 in the following nominal diameter/sizes with external bitumen coating and internal cement mortar lining with								
	100mm					4.00	Each	1148.00	4592.00
	150mm					4.00	Each	1837.00	7348.00
24	Filling available excavated earth in trenches, lead up to 50m and lift up to 1.5m in all kind of soil excluding Watering and rammin								
						1095.50			
	Deduction Sand				(-)	-168.00			
	Deduction Pipe Volume 110 mm				(-)	-7.00			
	Deduction Pipe Volume 160 mm				(-)	-10.04			
						910.46	Cum	62.00	56448.52
Rs.									1731275.02
Say Rs.									1731300.00


 Sub Engineer
 Municipal Corporation
 Korba (C.G.)


 Asstt. Engineer
 Municipal Corporation
 Korba (C.G.)