

MUNICIPAL CORPORATION OF BHILAI

NIT

जोन-03 अंतर्गत जी.आई पाईप लाईन एम.डी.पी.ई. पाईप लाईन एवं डी.आई. पाईप लाईन इंटरकनेक्शन एवं संधारण कार्य सामग्री सहित ।

DI to DI Pipe Line Interconnection & Maintenance Work

(AS PER PWD BUILDING SOR 01.01.2015, AS PER PHED SOR W.E.F. 01.06.2020 & NON SOR ITEM)

S.N.	PARTICULERS OF ITEMS	Quantity	UOM	Rate	Amount
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.	63.7	Cum		
2	Demolishing cement concrete including disposal of material within 50 metre lead.1:3:6 or richer mix 40% of Excavation	25.18	Cum		
3	Carriage by mechanical transport upto 5 km lead:Earth 40% of Excavation	25.48	Cum		
4	Providing and filling in plinth with sand/ Crusher dust and hard moorum under floor in layers not exceeding 20cm in depth consolidating each deposited layer by ramming and watering, including dressing etc. complete.	13.65	Cum		
5	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).	9.1	Cum		
6	Pumping out water caused by springs tidal or river seepage, broken water main or drains and like during Excavation or during Excavation and laying of base concrete (volume to be calculated taking height from water level to bottom of pit and to be measured and paid) .	22.75	Cum		
7	Providing & Laying Ductile Iron Double Socket branch flange Tee Conforming to IS-9523/ 2000 having dimension as per table 21 of IS-9523 /2000 in the nominal diameter /sizes with external bitumen coating and internal cement mortar lining with finishing as per clause13 of IS-9523/2000. (laying Conforming to IS 12288 : 1987) (All sizes in mm)100x100	3	Each		
8	Providing & laying Ductile iron Mechanical joint collar with follower glands Conforming to IS-9523/2000 having dimension as per table24 of IS-9523/2000 in the nominal diameter/sizes with external bitumen coating and internal cement mortar lining. (laying Conforming to IS 12288 : 1987)100mm	9	Each		
9	Providing, laying and jointing socket & spigot centrifugally cast (Spun) Ductile Iron pressure pipes with inside cement mortar lining (classK-7) Conforming to IS 8329/2000 with suitable Rubber Gasket (Pushon) joints as per IS:5382/85 including testing of joint (laying Conforming to IS 12288 : 1987)100mm diameter	6	Rm		
150 to 100 Interconnection					

S.N.	PARTICULARS OF ITEMS	Quantity	UOM	Rate	Am
10	Providing & Laying Ductile Iron Double Socket branch flange Tee Conforming to IS-9523/2000 having dimension as per table 21 of IS-9523/2000 in the nominal diameter /sizes with external bitumen coating and internal cement mortar lining with finishing as per clause13 of IS-9523/2000. (laying Conforming to IS 12288 : 1987) (All sizes in mm)150x100	2	Each		
11	Providing & laying Ductile iron Mechanical joint collar with follower glands Conforming to IS-9523/2000 having dimension as per table24 of IS-9523/2000 in the nominal diameter/sizes with external bitumen coating and internal cement mortar lining. (laying Conforming to IS 12288 : 1987)				
	150mm	4	Each		
	100mm	2	Each		
12	Providing, laying and jointing socket & spigot centrifugally cast (Spun) Ductile Iron pressure pipes with inside cement mortar lining (classK-7) Conforming to IS 8329/2000 with suitable Rubber Gasket (Pushon) joints as per IS:5382/85 including testing of joint (laying Conforming to IS 12288 : 1987)				
	150mm diameter	2.00			
	100mm diameter	2.00			

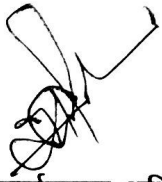
150 to 150 Interconnection

13	Providing & Laying Ductile Iron Double Socket branch flange Tee Conforming to IS-9523/2000 having dimension as per table 21 of IS-9523/2000 in the nominal diameter /sizes with external bitumen coating and internal cement mortar lining with finishing as per clause13 of IS-9523/2000. (laying Conforming to IS 12288 : 1987) (All sizes in mm)150x150	2	Each		
14	Providing & laying Ductile iron Mechanical joint collar with follower glands Conforming to IS-9523/2000 having dimension as per table24 of IS-9523/2000 in the nominal diameter/sizes with external bitumen coating and internal cement mortar lining. (laying Conforming to IS 12288 : 1987)150mm	6	Each		
15	Providing, laying and jointing socket & spigot centrifugally cast (Spun) Ductile Iron pressure pipes with inside cement mortar lining (classK-7) Conforming to IS 8329/2000 with suitable Rubber Gasket (Pushon) joints as per IS:5382/85 including testing of joint (laying Conforming to IS 12288 : 1987)	4	Rm		

200 to 100 Interconnection

16	Providing & Laying Ductile Iron Double Socket branch flange Tee Conforming to IS-9523/2000 having dimension as per table 21 of IS-9523/2000 in the nominal diameter /sizes with external bitumen coating and internal cement mortar lining with finishing as per clause13 of IS-9523/2000. (laying Conforming to IS 12288 : 1987) (All sizes in mm)	2	Each		
17	Providing & laying Ductile iron Mechanical joint collar with follower glands Conforming to IS-9523/2000 having dimension as per table24 of IS-9523/2000 in the nominal diameter/sizes with external bitumen coating and internal cement mortar lining. (laying Conforming to IS 12288 : 1987)				
	200mm	4	Each		
	100mm	2	Each		
18	Providing, laying and jointing socket & spigot centrifugally cast (Spun) Ductile Iron pressure pipes with inside cement mortar lining (classK-7) Conforming to IS 8329/2000 with suitable Rubber Gasket (Pushon) joints as per IS:5382/85 including testing of joint (laying Conforming to IS 12288 : 1987)				

S.N.	PARTICULARS OF ITEMS	Quantity	UOM	Rate	Amount
	200mm diameter	2.00	Rm		
	100mm diameter	2.00	Rm		
200 to 150 Interconnection					
19	Providing & Laying Ductile Iron Double Socket branch flange Tee Conforming to IS-9523/ 2000 having dimension as per table 21 of IS-9523 /2000 in the nominal diameter /sizes with external bitumen coating and internal cement mortar lining with finishing as per clause13 of IS-9523/2000. (laying Conforming to IS 12288 : 1987) (All sizes in mm)200x150	2	Each		
20	Providing & laying Ductile iron Mechanical joint collar with follower glands Conforming to IS-9523/2000 having dimension as per table24 of IS-9523/2000 in the nominal diameter/sizes with external bitumen coating and internal cement mortar lining. (laying Conforming to IS 12288 : 1987)				
	200mm	2	Each		
	150mm	2	Each		
21	Providing, laying and jointing socket & spigot centrifugally cast (Spun) Ductile Iron pressure pipes with inside cement mortar lining (classK-7) Conforming to IS 8329/2000 with suitable Rubber Gasket (Pushon) joints as per IS:5382/85 including testing of joint (laying Conforming to IS 12288 : 1987)				
	200mm diameter	2.00			
	150mm diameter	2.00	Rm		
200 to 200 Interconnection					
22	Providing & Laying Ductile Iron Double Socket branch flange Tee Conforming to IS-9523/ 2000 having dimension as per table 21 of IS-9523 /2000 in the nominal diameter /sizes with external bitumen coating and internal cement mortar lining with finishing as per clause13 of IS-9523/2000. (laying Conforming to IS 12288 : 1987) (All sizes in mm)200x200	2	Each		
23	Providing & laying Ductile iron Mechanical joint collar with follower glands Conforming to IS-9523/2000 having dimension as per table24 of IS-9523/2000 in the nominal diameter/sizes with external bitumen coating and internal cement mortar lining. (laying Conforming to IS 12288 : 1987)200mm	3	Each		
24	Providing, laying and jointing socket & spigot centrifugally cast (Spun) Ductile Iron pressure pipes with inside cement mortar lining (classK-7) Conforming to IS 8329/2000 with suitable Rubber Gasket (Pushon) joints as per IS:5382/85 including testing of joint (laying Conforming to IS 12288 : 1987)	2	Rm		



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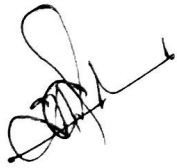
MUNICIPAL CORPORATION OF BHILAI NIT

DI to MDPE Pipe Line Interconnection & Maintenance Work

(AS PER PWD BUILDING SOR 01.01.2015, AS PER PHED SOR W.E.F. 01.06.2020 & NON SOR ITEM)

S.N.	PARTICULARS OF ITEMS	Quantity	UOM	Rate	Amount
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.	10.8	Cum		
2	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.	10.8	Cum		
3	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).	2.7	Cum		
(B) AS PER PHE SOR W.E.F. 01.06.2020					
4	Providing & Supply of Compression fittings, PN1.6 rate din Conformation to ISO:14236 2000 and shall be tested as per ISO:3459, ISO:3501&ISO:3503, suitable for drinking water & approved by WRAS,UKIKIWA etc., in food grade polypropylene and shall be inusive of all cost such as testing, all taxes related to central,state&municipal, n spection charges, transportation up to site, transitinsurance, loading, unloading, stacking etc. complete. Metal inserted Compression male Threaded Adaptor with SS 304 63x50mm	30	Each		
(C) NON SOR ITEM					
5	Providing & Supply of Clamp Saddle (DI Strap Saddle) for House Service connections from metal pipe Water Distribution mains shall be of fastened strap type with threaded outlet for service connect--- using aprofiled elastomeric seal matching to the curvature of the pipe. These all shall be of elastomeric type, suitable for all potable water application. Thematerial of construction of the body, straps, fasteners etc, shall be of non corrosive material such as engineering plastic (PE/PP) or stainlesssteel or a combination of both. Including All Fittings				

S.N.	PARTICULARS OF ITEMS	Quantity	UOM	Rate	Amount
	(A) 100x(50 to 90 mm)	20	Each		
	(B) 150x(50 to 90 mm)	20	Each		
	(C) 200x(50 to 90 mm)	10	Each		
	(D) 250x(50 to 90 mm)	8	Each		
	(E) 300x(50 to 90 mm)	10	Each		
6	MDPE REDUCER				
	(A) 63X50 MM	10	Each		
	(B) 90X63 MM	15	Each		
	(C) 90X75 MM	10	Each		
	(D) 90X110 MM	10	Each		
7	Compression 90 Deg. Elbow				
	(A) 63mm	10	Each		
	(B) 75 mm	10	Each		
	(C) 90 mm	10	Each		
8	Providing and Supplying Blue MDPE pipes Conforming to ISO 4427:1996 manufactured from virgin resin PE80 Food grade compounded Raw Material having Blue Colour only with quality assurance certificate from -----all taxes Central, State, Municipal, Inspection charges, transportation up to site, transitinsurance, loading, unloading, stacking etc. complete.				
	(A) 63 mm	20.00	Rm		
	(B) 75 mm	20.00	Rm		
	(C) 90 mm	20.00	Rm		
	(D) 110 mm	20.00	Rm		



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MAINTAINCE OF PIPE LINE AT ZONE-03

(AS PER PWD Building SOR 1.1.2015 & NON SOR ITEM)

S.N.	PARTICULERS OF ITEMS	Quantity	UOM	Rate	Amount
1	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:				
(a)	25 mm dia. nominal bore	10.00	Mtr		
(b)	32 mm dia. nominal bore	10.00	Mtr		
(c)	40 mm dia. nominal bore	10.00	Mtr		
(d)	50 mm dia. nominal bore	10.00	Mtr		
2	Making connection of G.I. distribution branch in G.I. main of following sizes by providing and fixing tee, including cutting and threading the pipe etc. complete: (Dia of main line to be measured) 50 mm nominal bore (Page- 178, Item-19.10.4)	4.00	Nos		
4	Providing and fixing brass/gun metal gate valve with C.I. wheel of approved quality (screwed end): 50mm nominal bore. (Page- 179, Item-19.16.4)	4.00	Nos		
5	Providing and fixing 15mm nominal bore Brass bib/stop cock of approved quality : Bib cock (350gram) (Page-179, Item-19.13.1)	4.00	Nos		
NON SOR ITEM					
6	Reparing Of MDPE Pipe Line Leakage i/e Excavation in all tipes of soil/ concrete/ tar raod, labour, accessories complete all				
(a)	MDPE Pipe				
(b)	MDPE Pipe				
(c)	MDPE Pipe				

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