

Un-priced bid Format				Volume-II of NIT		
Name of the Work: "Underground civil and piping works" for the project , IOCL Paradip-Standby SRU (525TPD) Train project, Odisha.						
Tender enquiry no. T0AVX00004 dated:20.01.2022						
SL.No.	Item Description in brief	UOM	Qty	Unit Rate in Rs	Amount in Rs.	Weightage %
1	CONCRETE WORK: Providing and placing concrete work including cost of labour, materials (unless otherwise specified in BOQ/contract specification) and equipment for handling, transportation, batching, mixing, placing, vibrating and curing (excluding cost of centering, shuttering and reinforcement) with mechanised equipments like batching plant, transit mixer, concrete pump etc. complete as per drawing, specifications and as per direction of engineer in charge for the following.					
1.1	Providing and laying Design Mix cement concrete as per IS:456 & IS 10262-2009 for reinforced concrete works using graded aggregate for Concrete in precast works like roof slabs/trench covers, fins, lintels, chajas, beams, columns, wall panels, facias etc.at all levels in all kinds of work including formwork/moulds, curing, rendering the top exposed surface with cement sand mortar (1:3), handling, storing, transpoting, all leads, erection without damage, setting in position with cement sand mortar (1:3), filling the gaps between adjacent precast units with M35 grade concrete or cement sand mortar (1:3) and including making of holes for bolts for fixing, welding etc.complete with graded aggregate (20/12.5/10 mm) and as per specification and drawing for following grades.					
1.1.a	M 35 Grade	CUM	2	₹ 8,269.74	₹ 16,539.47	0.2399863%
2	GROUTING: Grouting including all labour, material (unless otherwise specified in BOQ/contract specification), equipment, roughening surface, cleaning, ramming, curing etc. at all level , drawings and as directed by engineer - in - charge.					
2.1	Providing & grouting of pocket holes, pipe sleeves under base plates, machinery, pipe supporting structures etc. with mix 1:1 (1 cement :1 sand ) using non shrink admixture etc. all Complete.	CUM	0.5	₹ 19,641.99	₹ 9,821.00	0.1425018%
3	MISCELLANEOUS: Miscellaneous works including all labour, material (unless otherwise specified in BOQ/contract specification), equipment etc. at all level unless otherwise specified as per specification, drawings and as directed by engineer - in - charge.					
3.1	Providing & Laying polyethene sheet 1 kg/sq.m below the concrete base including materials, labour etc. complete as per drawing / direction of engineer.	SQM	20	₹ 24.33	₹ 486.67	0.0070615%

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4	<b>Laying and commissioning carbon steel pipe line of piping class A17A below GL including coating (3 LAYER POLYETHYLENE COATING - Fusion Bonded Epoxy and Polyethylene Tapes)</b> with all fittings including excavation, back filling, concrete supports, hangers, straps with all materials etc., joint testing, cost of materials etc. all complete as per specification no. 080557C-000-JSD-1300-002, 080557C-000-JSS-1400-001 and drawings. (Earthwork excavation and back filling to be measured separately) including repair of damaged 3LPE coating etc all complete. <b>(3 LAYER POLYETHYLENE COATED pipes shall be free issue to contractor by BHEL)</b>					
4.1	PIPE, B-36.10, ASTM A 106 GR.B , BE, SEAMLESS, 4.0 INCH, S120	INM	2600	₹ 261.04	₹ 678,707.32	9.8479857%
4.2	PIPE, B-36.10, ASTM A 106 GR.B , BE, SEAMLESS, 6.0 INCH, XS	INM	900	₹ 260.99	₹ 234,887.73	3.4082011%
4.3	PIPE, B-36.10, ASTM A 106 GR.B , BE, SEAMLESS, 8.0 INCH, XS	INM	4280	₹ 250.20	₹ 1,070,851.40	15.5379632%
4.4	PIPE, B-36.10, ASTM A 106 GR.B , BE, SEAMLESS, 12.0 INCH, 12.7 MM THK	INM	1020	₹ 250.20	₹ 255,202.90	3.7029725%
4.5	PIPE, B-36.10, API 5L GR.B PSL2, BE, E.FS.W, 16.0 INCH, 12.7 MM THK	INM	2320	₹ 250.20	₹ 580,461.51	8.4224473%
4.6	PIPE, B-36.10, API 5L GR.B PSL2, BE, E.FS.W, 20.0 INCH, 12.7 MM THK	INM	100	₹ 250.20	₹ 25,019.89	0.3630365%
5	<b>Fabrication, field welding and NDT of all UG piping works:</b> Transporting all piping materials (All sizes & thickness) from storage point to work site, fabrication of piping spools (Pipes, Bends, Elbows, Tees, Reducers, funels and strainers etc, all inclusive) by cutting, grinding,bending, edge preparation, fit up & welding, repair of 3 LPE coating at weld joints and as required (BHEL shall supply 3LPE material free of cost) as per drawing / sketches by providing all necessary consumables, tools & tackles, scaffolding, manpower, including welder qualification and establishing WPS / PQR, Quality test plans as per drgs and specification Note: 3 LAYER POLYETHYLENE COATED materials (Pipes, Bends, Elbows, Tees, Reducers, funels and strainers etc.) shall be free issue to contractor by BHEL					
5.1	CS Pipe Size up to 4"	ID	2328	₹ 843.70	₹ 1,964,127.81	28.4993283%
5.2	CS Pipe Size up to 6" and > 4"	ID	612	₹ 843.70	₹ 516,342.88	7.4920915%
5.3	CS Pipe Size up to 8" and > 6"	ID	200	₹ 843.70	₹ 168,739.50	2.4483959%
5.4	CS Pipe Size up to 12" and > 8"	ID	24	₹ 843.70	₹ 20,248.74	0.2938075%
5.5	CS Pipe Size up to 16" and > 12"	ID	224	₹ 843.70	₹ 188,988.24	2.7422034%
5.6	CS Pipe Size up to 20" and > 16"	ID	280	₹ 843.70	₹ 236,235.30	3.4277543%

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6	Radiography of field weld joints as per drawings and specifications	ID	367	₹ 432.04	₹ 158,470.84	2.2993985%
7	Fixing CS Gate valve of 150 lbs rating for piping class A17A of following diameter as per as per specification no. 080557C-000-JSD-1300-002 and drawings.					
7.1	a) 400 mm (16") dia. NB	NOS.	2	₹ 8,927.43	₹ 17,854.86	0.2590725%
7.2	b) 500 mm (20") dia. NB	NOS.	2	₹ 10,515.37	₹ 21,030.75	0.3051543%
8	SANITARY: Sanitary work including all labour, material (unless otherwise specified in BOQ/contract specification), equipment etc. at all level as per specification, drawings and as directed by engineer - in - charge.					
8.1	Supplying and fixing in position heavy duty CI manhole frame with lugs and cover conforming to IS-1726 including breaking of brick masonry or concrete surface to receive frame with lugs and making good the same with CM 1:3 including applying two coats of anticorrosive paint inclusive of all labours and materials etc. complete. circular size 560 mm dia Heavy duty of grade HD-20	NOS	47	₹ 14,434.37	₹ 678,415.42	9.8437503%
9	STRUCTURAL WORKS: Structural steel works including all labour, material (unless otherwise specified in BOQ/contract specification), equipments unless otherwise specified, transportation, handling etc. at all level as per specification, drawings and as directed by engineer - in - charge.					
9.1	Supplying, fabrication, erection and alignment of factory made galvanised welded grating units with mild steel conforming to IS:2062 in flooring, platforms, drain and trench covers, walk-ways, passages, staircases with edge binding strips and anti-skid nosing in treads etc. including 2 coats of redoxide zinc-chromate primer (one coat at shop and one coat after erection), fixing clamps, fittings, fixtures, all taxes, duties, packing, grinding, drilling, welding, edge preparation, etc. all complete.	MT	0.5	₹ 98,813.45	₹ 49,406.73	0.7168874%
	Total (Excluding Taxes)				₹ 6,891,838.95	100.00%
	Bidder to confirm having quoted their price in BHEL NIC portal ( <a href="https://eprocurebhel.co.in">https://eprocurebhel.co.in</a> ) in the manner described in Note: 1 below, by writing "QUOTED" here					
	Note:					
1	Bidders should quote only the percentage excess or less, wrt to the estimated value of <b>Rs.68,91,838.95</b> in the specified place in BHEL NIC Portal . They should not fill/quote/write anything in col. of Rates and Amount. These rates & amount will be derived from the Total amount quoted (percentage excess or less) or weightage factor assigned against respective items indicated in weightage . (Bidder to quote the total price in BHEL NIC portal <a href="https://eprocurebhel.co.in">https://eprocurebhel.co.in</a> )					

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2	The rate and amount are inclusive of all applicable taxes, except for the GST. For details of taxes, clause no. 13.0 of the SCC will be applicable.					
3	Evaluation Shall be based on total amount quoted by bidder.					