"Un-price bid format" cum "Schedule of quantity and rates" Volume-II of NIT

Project Name: IOCL Paradip-Standby SRU (525TPD) Train project, Odisha

Works & Services Name: "Piping, Controtrace and Insulation works"

Tender En	quiry No.:							
Section No	Description	UOM	Qty	Amount in Rs.		Weightage %	Remarks	
A 1	Piping Fabrication & Erection (Above Gruond Piping)	Set	1	₹	44,092,193.08	98.8717416%	Refer Section-A1 for detailed BOQ	
A 3	Contro Trace Works	Set	1	₹	118,269.10	0.26520504%	Refer Section-A 3 for detailed BOQ	
A 4	Insulation Works	Set	1	₹	384,881.60	0.8630533%	Refer Section-A 4 for detailed BOQ	
	Total (Excluding Taxes)	%		₹	44,595,343.78	100.00%		
	Bidder to confirm having quoted their price in BHEL NIC portal https://eprocurebhel.co.in in the manner described in Note: 1 below, by writing "QUOTED" here							

Note:

- Bidders should quote only the percentage excess or less, wrt to the estimated value of Rs.4,45,95,343.78/- in the specified place in BHEL NIC Portal. They should not fill/quote/write anything in col. of Abstract sheet as well as abstract & individual sub sheets of Section- A1,A3 & A4. 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 https://eprocurebhel.co.in)
 - 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.

SL NO	ITEM DESCRIPTION					
	PIPING FABRICATION & ERECTION (ABOVE GROUND PIPING)	иом	Unti Rate(in Rs.)	QUANTITY	Amount (in Rs.)	Weightage %
1	FABRICATION					
1.1	NIBR Piping					
1.1.1	CS Piping Fabrication (Butt Weld), Thickness < 10MM,					
i	Pipe size 2" upto 6"	Inch Dia	₹ 1,057.27	1,984.50	₹ 2,098,152.32	4.7585574%
ii	Pipe size 8" upto 14"	Inch Dia	₹ 1,057.27	1,624.00	₹ 1,717,006.48	3.8941281%
iii	Pipe size 16" upto 24"	Inch Dia	₹ 1,057.27	663.50	₹ 701,498.65	1.5909815%
1.1.2	CS Piping Fabrication (Fillet Weld), Thickness < 10MM,					
i	Less than < 2"	Inch Dia	₹ 851.97	873.00	₹ 743,769.81	1.6868515%
ii	Slip-on / Socket Welded Flanges	Inch Dia	₹ 851.97	9.50	₹ 8,093.72	0.0183563%
1.1.3	CS Piping Fabrication (Butt Weld), Thickness > 10 mm & <= 20 mm					
i	Pipe size 2" upto 6"	Inch Dia	₹ 1,253.07	200.50	₹ 251,240.54	0.5698073%
ii	Pipe size 8" upto 14"	Inch Dia	₹ 1,253.07	53.50	₹ 67,039.25	0.1520433%
iii	Pipe size 16" upto 24"	Inch Dia	₹ 1,253.07	318.50	₹ 399,102.80	0.9051552%
iv	Pipe size > 24"	Inch Dia	₹ 1,299.20	3,315.50	₹ 4,307,497.60	9.7692977%
1.1.4	SS Piping Fabrication (Butt Weld), Thickness < 10MM	Inch Dia				0.0000000%
i	Pipe size 2" upto 6"	Inch Dia	₹ 2,530.68	4.50	₹ 11,388.06	0.0258278%
ii	Pipe size 8" upto 14"	Inch Dia	₹ 2,530.68	150.00	₹ 379,602.00	0.8609279%
1.1.5	SS Piping Fabrication (Fillet Weld), Thickness < 10MM	Inch Dia				
i	Less than < 2"	Inch Dia	₹ 2,024.54	15.50	₹ 31,380.37	0.0711699%
ii	Slip-on / Socket Welded Flanges	Inch Dia	₹ 2,024.54	1.00	₹ 2,024.54	0.0045916%
1.2	IBR Piping					
1.2.1	Alloy Steel Piping Fabrication (Butt Weld), Thickness < 10MM,					
i	Pipe size 2" upto 6"	Inch Dia	₹ 2,774.59	10.50	₹ 29,133.20	0.0660734%
1.2.2	Alloy Steel Piping Fabrication (Fillet Weld), Thickness < 10MM					
i	Less than < 2"	Inch Dia	₹ 2,219.67	10.50	₹ 23,306.54	0.0528586%
ii	Slip-on / Socket Welded Flanges	Inch Dia	₹ 2,219.67	1.00	₹ 2,219.67	0.0050342%
1.2.3	Alloy Steel Piping Fabrication (Butt Weld), Thickness > 10 mm & < = 20 mm					0.0000000%
i	Pipe size 8" upto 14"	Inch Dia	₹ 3,232.20	84.00	₹ 271,504.80	0.6157662%

SL NO	ITEM DESCRIPTION					
1.2.4	CS Piping Fabrication (Butt Weld), Thickness < 10MM,	Inch Dia				
i	Pipe size 2" upto 6"	Inch Dia	₹ 1,182.16	642.50	₹ 759,537.80	1.7226129%
ii	Pipe size 8" upto 14"	Inch Dia	₹ 1,182.16	767.50	₹ 907,307.80	2.0577516%
iii	Pipe size 16" upto 24"	Inch Dia	₹ 1,182.16	625.25	₹ 739,145.54	1.6763637%
1.2.5	CS Piping Fabrication (Fillet Weld), Thickness < 10MM,					
i	Less than < 2"	Inch Dia	₹ 945.73	315.50	₹ 298,377.82	0.6767135%
ii	Slip-on / Socket Welded Flanges	Inch Dia	₹ 945.73	5.50	₹ 5,201.52	0.0117969%
1.2.6	CS Piping Fabrication (Butt Weld), Thickness > 10 mm & < = 20 mm					
i	Pipe size 2" upto 6"	Inch Dia	₹ 1,509.76	621.00	₹ 937,560.96	2.1263650%
ii	Pipe size 8" upto 14"	Inch Dia	₹ 1,509.76	561.00	₹ 846,975.36	1.9209191%
iii	Pipe size 16" upto 24"	Inch Dia	₹ 1,509.76	379.00	₹ 572,199.04	1.2977332%
	ERECTION	Inch Meter				
1.3	Erection of Pipes for various types of material and thickness					
i	Less than < 2"	Inch Meter	₹ 385.85	4,697.00	₹ 1,812,337.45	4.1103364%
ii	2" upto 6"	Inch Meter	₹ 385.85	12,347.00	₹ 4,764,089.95	10.8048378%
iii	8" upto 14"	Inch Meter	₹ 377.63	11,473.50	₹ 4,332,737.81	9.8265418%
iv	16" upto 24"	Inch Meter	₹ 377.63	10,102.50	₹ 3,815,007.08	8.6523414%

SL NO	ITEM DESCRIPTION					
v	More than > 24"	Inch Meter	₹ 375.15	11,741.25	₹ 4,404,729.94	9.9898182%
2	Valve Erection: all Types					
2.1	Size- Less than 2"	Nos	₹ 857.92	1,118.50	₹ 959,583.52	2.1763116%
2.2	Size-2"	Nos	₹ 1,335.68	253.00	₹ 337,927.04	0.7664101%
2.3	Size-3"	Nos	₹ 1,629.84	151.00	₹ 246,105.84	0.5581619%
2.4	Size-4"	Nos	₹ 1,927.42	98.00	₹ 188,887.16	0.4283914%
2.5	Size-6"	Nos	₹ 2,519.24	83.00	₹ 209,096.92	0.4742266%
2.6	Size-8"	Nos	₹ 3,982.80	24.00	₹ 95,587.20	0.2167894%
2.7	Size-10"	Nos	₹ 4,828.26	29.00	₹ 140,019.54	0.3175608%
2.8	Size-12"	Nos	₹ 5,470.74	4.00	₹ 21,882.96	0.0496300%
2.9	Size-14"	Nos	₹ 7,415.08	0.50	₹ 3,707.54	0.0084086%
2.10	Size-16"	Nos	₹ 7,830.26	6.50	₹ 50,896.69	0.1154324%
2.11	Size-18"	Nos	₹ 7,830.26	2.00	₹ 15,660.52	0.0355177%
2.12	Size-20"	Nos	₹ 8,245.44	4.00	₹ 32,981.76	0.0748018%
2.13	Size-24"	Nos	₹ 8,619.11	2.00	₹ 17,238.22	0.0390959%
2.14	Size-28"	Nos	₹ 15,152.84	0.50	₹ 7,576.42	0.0171831%
2.15	Size-30"	Nos	₹ 15,442.27	1.00	₹ 15,442.27	0.0350227%
2.16	Size-36"	Nos	₹ 15,939.61	4.00	₹ 63,758.44	0.1446026%
1.7	Size-44"	Nos	₹ 20,937.64	0.50	₹ 10,468.82	0.0237430%
2.18	Size-48"	Nos	₹ 16,486.69	4.00	₹ 65,946.76	0.1495656%

SL NO	ITEM DESCRIPTION					
3	NDT Works					
1 1 1	Radiography for pipe joints as per specification of various sizees and material	Inch Dia	₹ 293.25	1,784.10	₹ 523,187.33	1.1865759%
3.2	Stress Relieving (PWHT) for pipe joints as per specification	Inch Dia	₹ 334.23	11,666.00	₹ 3,899,127.18	8.8431237%
3.3	Ultrasonic Texstig/ MP for pipe joints as per specification	Inch Dia	₹ 309.17	50.00	₹ 15,458.50	0.0350595%
4	Erection/ Installation of Hangers and supports etc. Note: material supplied by BHEL	MT	₹ 24,628.34	60.00	₹ 1,477,700.40	3.3513878%
5	Erection/ Installation of Temporary Piping for chemcal cleaning including supply of materials	MT	₹ 22,437.60	10.00	₹ 224,376.00	0.5088792%
6	Erection/ Installation of Temporary Piping for steam blowing including supply of materials	MT	₹ 23,040.77	10.00	₹ 230,407.70	0.5225589%
	Total (Excl. Taxes)				₹ 44,092,193.08	100.00%

	Schedule of Quantities & Rates -Section A3 Contro Trace Works								
SI No	Description	UOM	Qty	Unit Rate(in Rs.)	Total Amount(in Rs.)	Weightage %			
1	Installation, testing, and commissioning of Contro Trace® bolt on heating system as per BHEL approved drawings, instructions of BHEL site engineer and under supervision of contro trace material supplier	Inch Meter	1500	78.8460655	118269.1	100%			

	Schedule of Quantities & Rates -Section A4 Insulation Works									
Sl No	Description	UOM	Qty	Unit Rate(in Rs.)	Total Amount(in Rs.)	Weightage %				
1	Installation, testing and commissioning of Insulation and disma	ntling of exist	ting insulation	ı, steam tracing pipeli	nes.					
	Installation of insulation (This is inclusive of the mineral wool, , insulation auxiliaries and consumables)	MT	12	₹ 16,287.24	₹ 195,446.88	50.7810350%				
1.2	Installation of Aluminium cladding including all hardware	MT	8	₹ 23,679.34	₹ 189,434.72	49.2189650%				
	Total (Excl taxes)				₹ 384,881.60	100.00%				