## Unpriced Price Bid Format (Schedule of Quantities & Rates\_Price Estimate) Vol. II Rev. 0 dtd. 15.04.2024 Project Name: IOCL Paradip-Standby SRU (525TPD) Train project, Odisha

Name of the Work: "Balance Composite Mechanical, Piping, Equipment & Steel Structure works" Works in IOCL Paradip-Standby SRU (525TPD) Train project, Odisha

1	2	3	4		5	6	8
Section No	Description	UOM	Qty		Amount in Rs.	Weightage %	Remarks
1	Part A: Erection, testing and commissioning of "Mechanical Equipment and Piping" Works (Except painting and Insulation works)	Set	1	₹	123,782,865	95.5401583%	
2	Part B: Painting and Insulation works	Set	1	₹	5,778,219	4.4598417%	
	Total (Excluding Taxes)			₹	129,561,084	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:		•	•	•			•
1	Bidders should quote only the percentage excess or less, wrt to the estimated valufill/quote/write anything in col. of Abstract sheet as well as abstract & individual from the Total amount quoted (percentage excess or less) or weightage factor as BHEL NIC portal https://eprocurebhel.co.in)	sub sheets of	Section- 1	(Part-A)	& 2(Part- B). The	se rates & amount wi	ll be derived
2	The rate and amount are inclusive of all applicable taxes, except for the GST. For	r details of tax	ces, clause	no. 13.0	of the SCC will be	e applicable.	

## Section-1: Part A (Schedule of Quantities & Rates\_Price Estimate): Erection, testing and commissioning of "Mechanical Equipment and Piping" etc Works

Name of the work: "Balance Composite Mechanical, Piping, Equipment & Steel Structure works" Works in IOCL Paradip-Standby SRU (525TPD) Train project, Odisha

Sl No	Description	UOM	Qty	Amount ( in Rs.)	Weightage	Remarks
1	Erection, Testing and Commissioning of Piping system: Receipt from BHEL store, transportation to site, inspection, obtaining statutary approvals/ certificates as applicable, pre-assembly, erection, alignment, welding, NDT, fixing of hangers & supports, chemical cleaning / pickling, oil flushing, water flushing, hydro testing & steam blowing including temporary piping and pumps required for testing, surface finish, supply & application of primer & finish paints of all the pipes including pipe fittings and support structures as per requirement / as given in the drawings including labeling & flow direction on the piping / over insulation & hangers and supports, pre-commissioning, commissioning, trial operation & handing over to customer and supply & application of final painting, etc. for all the piping systems of Standyby Sulphur Recovery Unit (SRU) Train Of 525 TPD along with Incinerator and Waste Heat Exchanger, Stack and Interconnecting works for IOCLI Paradip Refinery, Odisha, India.  Note:  1. The contractor has to execute the entire scope of piping works as mentioned in this item and TCC within the quoted rates and against each line item further split and indicated in subsequent Part A_1. Any activity as mentioned here for which seperate line item is not available in Part A1 is deemed to be included in the quoted price against the available line item and no seperate payment shall be made for such items.  2. Payment for painting works shall be made as per line item no. 2 of Part-B	Set	1	₹ 40,953,504.94	33.0849548%	As per respective line items of "Unprice Bid Format" Part A-1to5
2	Equipment Erection: Erection, Testing, commissioning, trial operation and handing over to customer including receipt, unloading, handling of materials at BHEL strores and transportation to site, supply and application of touch up painting, obtaining statutary approvals/ certificates as applicable of; Reaction furnace package, Incinerator package, Heat exchangers, Vessels, Drums and all other BOS (Balance of Supplies) equipment of Standyby Sulphur Recovery Unit (SRU) Train Of 525 TPD along with Incinerator and Waste Heat Exchanger, Stack and Interconnecting works for IOCLI Paradip Refinery, Odisha, India.as per technical specifications and approved drawings  1. The contractor has to execute the entire scope of Equipment erection works as mentioned in this item and TCC within the quoted rates and against each line item further split and indicated in subsequent Part A_2. Any activity as mentioned here for which seperate line item is not available in Part A2 is deemed to be included in the quoted price against the available line item and no seperate payment shall be made for such items.	Set	1	₹ 57,164,227.89	46.1810509%	As per respective line items of "Unprice Bid Format" Part A-1to5
3	Contro® Trace Works	Lot	1	₹ 1,064,421.86	0.8599105%	As per respective line items of "Unprice Bid Format" Part A- 1to5

SI No	Description	UOM	Qty	Amount ( in Rs.)	Weightage	Remarks
4	Structural Steel Works: Erection, Testing and commissioning of all structural steel works.	Lot	1	21620367.198		As per respective line items of "Unprice Bid Format" Part A- 1to5
5	Extra Works	Lot		2980343.226	2.4077187%	As per respective line items of "Unprice Bid Format" Part A- 1to5
	Total			₹ 123,782,865.11	100.00%	

## Part-A\_1to5 (Schedule of Quantities & Rates\_Price Estimate): Erection, testing and commissioning of "Mechanical Equipment and Piping" etc Works: Piping, Equipment Erection, Structural Steel, Contro-tract & Extra Works

Item No.	Description of Item	Unit	Quantity in contract of original contractor	Quantity executed by original contractor	Quantity to be executed by bidder in the new Tender	Estimated Rate ( in Rs.) of new Tender		Weightage %
1	2	3	4	5	6	7	8	9
	Section A-1: PIPING FABRICATION & ERECTION (ABOVE GROUND PIPING):	1			1		•	
1	FABRICATION	Inch-Dia						
1.1	Non IBR Piping	mon Bia					-	
1.1.1	CS Piping Fabrication (Butt Weld), Thickness < 10MM,						_	
i	Pipe size 2" upto 6"							
a	After fabrication, erection, NDT touchup painting, Testing	Inch-Dia	1984.50	844.000	1140.50	898.68	985.588.08	2%
b	After pre-commissioning, commissioning	Inch-Dia	1984.50	0.000	1984.50	105.73	,	0.49265314%
C	After punch point completion and handing over	Inch-Dia	1984.50	0.000	1984.50	52.86	,	0.24632657%
ii	Pipe size 8" upto 14"	mon bia	1007.00	0.000	1007.00	32.00	-	0.00000000%
a	After fabrication, erection, NDT touchup painting, Testing	Inch-Dia	1624.00	339.000	1285.00	898.68	1 110 /60 93	2.71151621%
b	After pre-commissioning, commissioning	Inch-Dia	1624.00	0.000	1624.00	105.73	, ,	0.40315883%
C	After punch point completion and handing over	Inch-Dia	1624.00	0.000	1624.00	52.86	,	0.20157942%
iii	Pipe size 16" upto 24"	mon bia	1024.00	0.000	1024.00	02.00	02,000.04	0.00000000%
a	After fabrication, erection, NDT touchup painting, Testing	Inch-Dia	1990.50	1420.000	570.50	898.68	/Q3 010 08	1.20382879%
b b	After pre-commissioning, commissioning	Inch-Dia	1990.50	0.000	1990.50	105.73		0.49414264%
C	After punch point completion and handing over	Inch-Dia	1990.50	0.000	1990.50	52.86	,	0.24707132%
1.1.2	CS Piping Fabrication (Fillet Weld), Thickness < 10MM,	IIICII-Dia	1990.50	0.000	1990.50	32.00	101,104.37	0.2470713270
i.i.z	Less than < 2"							
a	After fabrication, erection, NDT touchup painting, Testing	Inch-Dia	873.00	253.500	619.50	724.17	421 200 70	1.05338901%
b	After pre-commissioning, commissioning	Inch-Dia	873.00	0.000	873.00	85.20	,	0.17463962%
C	After punch point completion and handing over		873.00	0.000	873.00	42.60	,	
ii ii		Inch-Dia	873.00	0.000	873.00	42.00	35,760.52	0.08731981%
	Slip-on / Socket Welded Flanges	lasta Dia	0.50	0.000	0.50	704.47	0.045.40	0.040450070/
a	After fabrication, erection, NDT touchup painting, Testing	Inch-Dia	9.50	0.000	9.50	724.17	,	0.01615367%
b	After pre-commissioning, commissioning	Inch-Dia	9.50	0.000	9.50	85.20		0.00190043%
C	After punch point completion and handing over	Inch-Dia	9.50	0.000	9.50	42.60	389.15	0.00095022%
1.1.3	CS Piping Fabrication (Butt Weld), Thickness > 10 mm & <= 20 mm					1		
i	Pipe size 2" upto 6"	Inch Die	000.50	147,000	F0 F0	1.005.11	E4 705 04	0.100700000/
a	After rap commissioning, commissioning	Inch-Dia	200.50	147.000	53.50	1,065.11	- ,	0.13379882%
b	After pre-commissioning, commissioning	Inch-Dia	200.50	0.000	200.50	125.31		0.05899211%
C	After punch point completion and handing over	Inch-Dia	200.50	0.000	200.50	62.65	12,079.67	0.02949606%
ii .	Pipe size 8" upto 14"	lasta Dis	50.50	0.000	50.50	1.005.11	E4 705 04	0.400700000/
a	After fabrication, erection, NDT touchup painting, Testing	Inch-Dia	53.50	0.000	53.50	1,065.11		0.13379882%
b	After pre-commissioning, commissioning	Inch-Dia	53.50	0.000	53.50	125.31	,	0.01574104%
C	After punch point completion and handing over	Inch-Dia	53.50	0.000	53.50	62.65	3,223.25	0.00787052%
iii	Pipe size 16" upto 24"		242.52	10.000	272.52	4.005.11	0== 0 (0 )=	0.000.404
a	After fabrication, erection, NDT touchup painting, Testing	Inch-Dia	318.50	48.000	270.50	1,065.11	,	0.67649684%
b	After pre-commissioning, commissioning	Inch-Dia	318.50	0.000	318.50	125.31	,	0.09371066%
С	After punch point completion and handing over	Inch-Dia	318.50	0.000	318.50	62.65	19,188.90	0.04685533%
iv	Pipe size > 24"	Inch-Dia	9946.50	7439.000	2507.50	1,104.32		6.50189755%

Item No.	Description of Item	Unit	Quantity in contract of original contractor	Quantity executed by original contractor	Quantity to be executed by bidder in the new Tender	Estimated Rate ( in Rs.) of new Tender	Estimated Amount(in Rs.) of the new tender	Weightage %
b	After pre-commisioning, commisioning	Inch-Dia	9946.50	0.000	9946.50	129.92	1,242,629.38	3.03424428%
С	After punch point completion and handing over	Inch-Dia	9946.50	0.000	9946.50	64.96	621,314.69	1.51712214%
1.1.4	SS Piping Fabrication (Butt Weld), Thickness < 10MM							
i	Pipe size 2" upto 6"							
а	After fabrication, erection, NDT touchup painting, Testing	Inch-Dia	4.50	0.000	4.50	2,151.08	9,308.16	0.02272861%
b	After pre-commisioning, commisioning	Inch-Dia	4.50	0.000	4.50	253.07	1,095.08	0.00267395%
С	After punch point completion and handing over	Inch-Dia	4.50	0.000	4.50	126.53	547.54	0.00133698%
ii	Pipe size 8" upto 14"		1100					
a	After fabrication, erection, NDT touchup painting, Testing	Inch-Dia	150.00	0.000	150.00	2.151.08	310.272.11	0.75762040%
b	After pre-commisioning, commisioning	Inch-Dia	150.00	0.000	150.00	253.07	36,502.60	
C	After punch point completion and handing over	Inch-Dia	150.00	0.000	150.00	126.53		0.04456591%
1.1.5	SS Piping Fabrication (Fillet Weld), Thickness < 10MM			0.000		.23.00	. 5,251.00	
i	Less than < 2"							
a	After fabrication, erection, NDT touchup painting, Testing	Inch-Dia	15.50	0.750	14.75	1,720.86	24 408 02	0.05959935%
b	After pre-commissioning, commissioning	Inch-Dia	15.50	0.000	15.50	202.45	3.017.54	
c	After punch point completion and handing over	Inch-Dia	15.50	0.000	15.50	101.23	- /	0.00368411%
ii	Slip-on / Socket Welded Flanges	IIIdi-Dia	10.00	0.000	10.00	101.20	1,500.77	0.0000041170
a	After fabrication, erection, NDT touchup painting, Testing	Inch-Dia	1.00	0.000	1.00	1,720.86	1 65/1 79	0.00404063%
b b	After pre-commisioning, commisioning	Inch-Dia	1.00	0.000	1.00	202.45	194.68	
С	After punch point completion and handing over	Inch-Dia	1.00	0.000	1.00	101.23		0.00047337%
1.2	IBR Piping	IIICII-Dia	1.00	0.000	1.00	101.23	37.04	0.0002370070
1.2.1	Alloy Steel Pipe Fabrication (Butt Weld), Thickness < 10MM							
i.z.1	Pipe size 2" upto 6"							
a	After fabrication, erection, NDT touchup painting, Testing	Inch-Dia	10.50	0.000	10.50	2,358.40	22 012 26	0.05814485%
b b	After pre-commissioning, commissioning	Inch-Dia	10.50	0.000	10.50	2,336.40		0.00684057%
C	After punch point completion and handing over	Inch-Dia	10.50	0.000	10.50	138.73	,	0.00342029%
1.2.2	Alloy Steel Piping Fabrication (Fillet Weld), Thickness < 10MM	IIICII-DIA	10.50	0.000	10.50	130.73	1,400.73	0.00342029%
i i	Less than < 2"							
•		Inch Die	10.50	0.000	10.50	1,886.72	10.040.07	0.040545040/
a	After fabrication, erection, NDT touchup painting, Testing	Inch-Dia Inch-Dia	10.50	0.000	10.50 10.50	221.97		0.04651584% 0.00547245%
b c	After pre-commisioning, commisioning  After punch point completion and handing over			0.000	10.50	110.98		
ii ii	· · · · · · · · · · · · · · · · · · ·	Inch-Dia	10.50	0.000	10.50	110.98	1,120.58	0.00273623%
a a	Slip-on / Socket Welded Flanges  After fabrication, execution, NDT tauchus pointing, Tecting	Inch Dic	1.00	0.000	1.00	1,886.72	1 014 07	0.00443008%
a b	After fabrication, erection, NDT touchup painting, Testing  After pre-commisioning, commisioning	Inch-Dia Inch-Dia	1.00	0.000	1.00	221.97	,	0.00443008%
	After pre-commissioning, commissioning  After punch point completion and handing over		1.00	0.000	1.00			0.00052119%
1.2.3	· · · · · · · · · · · · · · · · · · ·	Inch-Dia	1.00	0.000	1.00	110.98	100.72	U.UUUZ0U39%
1.2.3	Alloy Steel Piping Fabrication (Butt Weld), Thickness > 10 mm & < = 20 mm  Pipe size 8" upto 14"		+					1
1	<u> </u>	Inch Di-	04.00	0.000	04.00	0.747.07	001.017.00	0.541070050/
a	After fabrication, erection, NDT touchup painting, Testing	Inch-Dia	84.00	0.000	84.00	2,747.37		0.54187695%
b	After pre-commissioning, commissioning	Inch-Dia	84.00	0.000	84.00	323.22	,	0.06375023%
C	After punch point completion and handing over	Inch-Dia	84.00	0.000	84.00	161.61	13,053.98	0.03187511%
1.2.4	CS Piping Fabrication (Butt Weld), Thickness < 10MM,					1		-
i	Pipe size 2" upto 6"		0.40.50	2 222	0.40.50	1.00:5:	000 04= ==	4.545000404
a	After fabrication, erection, NDT touchup painting, Testing	Inch-Dia	642.50	0.000	642.50	1,004.84	,	1.51590701%
b	After pre-commisioning, commisioning	Inch-Dia	642.50	0.000	642.50	118.22	73.037.30	0.17834200%

ltem No.	Description of Item	Unit	Quantity in contract of original contractor	Quantity executed by original contractor	Quantity to be executed by bidder in the new Tender	Estimated Rate ( in Rs.) of new Tender		Weightage %
ii	Pipe size 8" upto 14"							
а	After fabrication, erection, NDT touchup painting, Testing	Inch-Dia	767.50	0.000	767.50	1,004.84	741,598.58	1.81083055%
b	After pre-commissioning, commissioning	Inch-Dia	767.50	0.000	767.50	118.22	87,246.89	0.21303889%
С	After punch point completion and handing over	Inch-Dia	767.50	0.000	767.50	59.11	43,623.45	0.10651944%
iii	Pipe size 16" upto 24"							
а	After fabrication, erection, NDT touchup painting, Testing	Inch-Dia	1875.75	0.000	1875.75	1,004.84	1,812,447.60	4.42562268%
b	After pre-commissioning, commissioning	Inch-Dia	1875.75	0.000	1875.75	118.22		0.52066149%
С	After punch point completion and handing over	Inch-Dia	1875.75	0.000	1875.75	59.11	106,614.56	0.26033075%
1.2.5	CS Piping Fabrication (Fillet Weld), Thickness < 10MM,							
i	Less than < 2"							
а	After fabrication, erection, NDT touchup painting, Testing	Inch-Dia	315.50	0.000	315.50	803.87	243,882.58	0.59551088%
b	After pre-commisioning, commisioning	Inch-Dia	315.50	0.000	315.50	94.57	28,692.07	0.07006010%
С	After punch point completion and handing over	Inch-Dia	315.50	0.000	315.50	47.29	14,346.03	0.03503005%
ii	Slip-on / Socket Welded Flanges							
а	After fabrication, erection, NDT touchup painting, Testing	Inch-Dia	5.50	0.000	5.50	803.87	4,251.52	0.01038133%
b	After pre-commisioning, commisioning	Inch-Dia	5.50	0.000	5.50	94.57		0.00122133%
С	After punch point completion and handing over	Inch-Dia	5.50	0.000	5.50	47.29	250.09	0.00061067%
1.2.6	CS Piping Fabrication (Butt Weld), Thickness > 10 mm & < = 20 mm							
i	Pipe size 2" upto 6"							
a	After fabrication, erection, NDT touchup painting, Testing	Inch-Dia	621.00	0.000	621.00	1,283.30	766.326.35	1.87121066%
b	After pre-commissioning, commissioning	Inch-Dia	621.00	0.000	621.00	150.98	,-	
С	After punch point completion and handing over	Inch-Dia	621.00	0.000	621.00	75.49	,	0.11007122%
ii	Pipe size 8" upto 14"						,	
a	After fabrication, erection, NDT touchup painting, Testing	Inch-Dia	561.00	0.000	561.00	1,283.30	692,285,16	1.69041736%
b	After pre-commissioning, commissioning	Inch-Dia	561.00	0.000	561.00	150.98	81,445.31	
С	After punch point completion and handing over	Inch-Dia	561.00	0.000	561.00	75.49	40,722.66	
iii	Pipe size 16" upto 24"						,.=	
a	After fabrication, erection, NDT touchup painting, Testing	Inch-Dia	379.00	0.000	379.00	1,283.30	467.693.54	1.14201102%
b	After pre-commisioning, commisioning	Inch-Dia	379.00	0.000	379.00	150.98		0.13435424%
С	After punch point completion and handing over	Inch-Dia	379.00	0.000	379.00	75.49		0.06717712%
1.3	Erection of Pipes for various types of material and thickness					15.10		1272
i	Less than < 2"							
a	After fabrication, erection, NDT touchup painting, Testing	Inch-meter	4697.00	1.793	4695.21	327.97	1,480.769.61	3.61573353%
b	After pre-commisioning, commisioning	Inch-meter	4697.00	0.000	4697.00	38.59		0.42554286%
С	After punch point completion and handing over	Inch-meter	4697.00	0.000	4697.00	19.29		0.21277143%
ii	2" upto 6"					15.20	21,121,100	12,1
a	After fabrication, erection, NDT touchup painting, Testing	Inch-meter	12347.00	4621.623	7725.38	327.97	2,436,421,54	5.94923816%
b	After pre-commissioning, commissioning	Inch-meter	12347.00	0.000	12347.00	38.59		1.11862416%
C	After punch point completion and handing over	Inch-meter	12347.00	0.000	12347.00	19.29		0.55931208%
iii	8" upto 14"			5.300		.5.20		. , , , , , , , , , , , , , , , , , , ,
a	After fabrication, erection, NDT touchup painting, Testing	Inch-meter	11473.50	3670.454	7803.05	320.99	2,408,490,29	5.88103581%
b	After pre-commissioning, commissioning	Inch-meter	11473.50	0.000	11473.50	37.76		1.01734124%
c	After punch point completion and handing over	Inch-meter	11473.50	0.000	11473.50	18.88		0.50867062%
iv	16" upto 24"	mon motel	11170.00	0.000	11770.00	10.00	200,010.40	5.50001 00L /0
a	After fabrication, erection, NDT touchup painting, Testing	Inch-meter	10102.50	6137.168	3965.33	320.99	1 222 040 45	2.98860977%

Item No.	Description of Item	Unit	Quantity in contract of original contractor	Quantity executed by original contractor	Quantity to be executed by bidder in the new Tender	Estimated Rate ( in Rs.) of new Tender		Weightage %
b	After pre-commisioning, commisioning	Inch-meter	10102.50	0.000	10102.50	37.76	366,851.81	0.89577635%
С	After punch point completion and handing over	Inch-meter	10102.50	0.000	10102.50	18.88	183,425.91	0.44788817%
٧	More than > 24"							
a	After fabrication, erection, NDT touchup painting, Testing	Inch-meter	35223.75	30100.604	5123.15	315.32	1,553,416.83	3.79312305%
b	After pre-commisioning, commisioning	Inch-meter	35223.75	0.000	35223.75	37.52	1,270,679.02	3.10273570%
С	After punch point completion and handing over	Inch-meter	35223.75	0.000	35223.75	18.76	635,339.51	1.55136785%
2	Valve Erection: all Types						,	
2.1	Size- Less than 2"							
a	After fabrication, erection, NDT touchup painting, Testing	Nos	1118.50	13.000	1105.50	729.23	775,210.74	1.89290452%
b	After pre-commissioning, commissioning	Nos	1118.50	0.000	1118.50	85.79	92,273.73	0.22531340%
С	After punch point completion and handing over	Nos	1118.50	0.000	1118.50	42.90		0.11265670%
2.2	Size-2"						,	
a	After fabrication, erection, NDT touchup painting, Testing	Nos	253.00	0.000	253.00	1,135.33	276,208.59	0.67444434%
b	After pre-commisioning, commisioning	Nos	253.00	0.000	253.00	133.57	32,495.13	0.07934639%
С	After punch point completion and handing over	Nos	253.00	0.000	253.00	66.78	16,247.56	0.03967320%
2.3	Size-3"						,	
a	After fabrication, erection, NDT touchup painting, Testing	Nos	151.00	0.000	151.00	1,385.36	201,157.47	0.49118499%
b	After pre-commisioning, commisioning	Nos	151.00	0.000	151.00	162.98	23,665.58	0.05778647%
С	After punch point completion and handing over	Nos	151.00	0.000	151.00	81.49	11,832.79	0.02889323%
2.4	Size-4"						,	
a	After fabrication, erection, NDT touchup painting, Testing	Nos	98.00	0.000	98.00	1,638.31	154,389.12	0.37698633%
b	After pre-commisioning, commisioning	Nos	98.00	0.000	98.00	192.74	18,163.43	0.04435133%
С	After punch point completion and handing over	Nos	98.00	0.000	98.00	96.37	9,081.71	0.02217567%
2.5	Size-6"						,	
a	After fabrication, erection, NDT touchup painting, Testing	Nos	83.00	0.000	83.00	2,141.35	170,907.80	0.41732154%
b	After pre-commisioning, commisioning	Nos	83.00	0.000	83.00	251.92	20,106.80	0.04909665%
C	After punch point completion and handing over	Nos	83.00	0.000	83.00	125.96	10,053.40	
2.6	Size-8"							
a	After fabrication, erection, NDT touchup painting, Testing	Nos	24.00	3.000	21.00	3,385.38	68,363.15	0.16692868%
b	After pre-commissioning, commissioning	Nos	24.00	0.000	24.00	398.28		0.02244419%
С	After punch point completion and handing over	Nos	24.00	0.000	24.00	199.14	· · · · · · · · · · · · · · · · · · ·	0.01122210%
2.7	Size-10"						,	
a	After fabrication, erection, NDT touchup painting, Testing	Nos	29.00	0.000	29.00	4,104.02	114,446.60	0.27945496%
b	After pre-commissioning, commissioning	Nos	29.00	0.000	29.00	482.83	· · · · · · · · · · · · · · · · · · ·	0.03287705%
С	After punch point completion and handing over	Nos	29.00	0.000	29.00	241.41	-,	0.01643853%
2.8	Size-12"						.,	
a	After fabrication, erection, NDT touchup painting, Testing	Nos	4.00	0.000	4.00	4,650.13	17.886.29	0.04367463%
b	After pre-commissioning, commissioning	Nos	4.00	0.000	4.00	547.07	2,104.27	0.00513819%
С	After punch point completion and handing over	Nos	4.00	0.000	4.00	273.54	, -	0.00256910%
2.9	Size-14"		1.00				.,	
a	After fabrication, erection, NDT touchup painting, Testing	Nos	0.50	0.000	0.50	6,302.82	3.030.40	0.00739961%
b	After pre-commissioning, commissioning	Nos	0.50	0.000	0.50	741.51	356.52	0.00087054%
c	After punch point completion and handing over	Nos	0.50	0.000	0.50	370.75	178.26	0.00043527%
2.10	Size-16"	1100	0.00	0.000	0.00	0.0.70	170.20	5.550 100E7 70
a a	After fabrication, erection, NDT touchup painting, Testing	Nos	6.50	2.000	4.50	6,655.72	00 000 00	0.07032534%

Item No.	Description of Item	Unit	Quantity in contract of original contractor	Quantity executed by original contractor	Quantity to be executed by bidder in the new Tender	Estimated Rate ( in Rs.) of new Tender		Weightage %
b	After pre-commisioning, commisioning	Nos	6.50	0.000	6.50	783.03	4.894.24	0.01195071%
С	After punch point completion and handing over	Nos	6.50	0.000	6.50	391.51	2,447.12	0.00597536%
2.11	Size-18"						ŕ	
а	After fabrication, erection, NDT touchup painting, Testing	Nos	2.00	0.000	2.00	6,655.72	12,800.31	0.03125571%
b	After pre-commissioning, commissioning	Nos	2.00	0.000	2.00	783.03	1,505.92	0.00367714%
С	After punch point completion and handing over	Nos	2.00	0.000	2.00	391.51	752.96	0.00183857%
2.12	Size-20"							
а	After fabrication, erection, NDT touchup painting, Testing	Nos	4.00	0.000	4.00	7,008.62	26,958.02	0.06582593%
b	After pre-commissioning, commissioning	Nos	4.00	0.000	4.00	824.54	3,171.53	
С	After punch point completion and handing over	Nos	4.00	0.000	4.00	412.27	1,585.77	0.00387211%
2.13	Size-24"						,	
a	After fabrication, erection, NDT touchup painting, Testing	Nos	2.00	0.000	2.00	7,326.24	14,089.86	0.03440453%
b	After pre-commissioning, commissioning	Nos	2.00	0.000	2.00	861.91	1,657.63	0.00404759%
С	After punch point completion and handing over	Nos	2.00	0.000	2.00	430.96	828.82	0.00202380%
2.14	Size-28"							
а	After fabrication, erection, NDT touchup painting, Testing	Nos	0.50	0.000	0.50	12,879.91	6,192.67	0.01512123%
b	After pre-commissioning, commissioning	Nos	0.50	0.000	0.50	1,515.28	728.55	0.00177897%
С	After punch point completion and handing over	Nos	0.50	0.000	0.50	757.64	364.27	0.00088948%
2.15	Size-30"							
а	After fabrication, erection, NDT touchup painting, Testing	Nos	1.00	0.000	1.00	13,125.93	12,621.92	0.03082012%
b	After pre-commisioning, commisioning	Nos	1.00	0.000	1.00	1,544.23	1,484.93	0.00362590%
С	After punch point completion and handing over	Nos	1.00	0.000	1.00	772.11	742.47	0.00181295%
2.16	Size-36"							
а	After fabrication, erection, NDT touchup painting, Testing	Nos	4.00	1.000	3.00	13,548.67	39,085.28	0.09543817%
b	After pre-commissioning, commissioning	Nos	4.00	0.000	4.00	1,593.96	6,131.02	0.01497069%
С	After punch point completion and handing over	Nos	4.00	0.000	4.00	796.98	3,065.51	0.00748535%
2.17	Size-44"						,	
а	After fabrication, erection, NDT touchup painting, Testing	Nos	0.50	0.000	0.50	17,796.99	8.556.81	0.02089397%
b	After pre-commissioning, commissioning	Nos	0.50	0.000	0.50	2,093.76	1,006.68	0.00245811%
С	After punch point completion and handing over	Nos	0.50	0.000	0.50	1,046.88	,	0.00122906%
2.18	Size-48"					,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		
а	After fabrication, erection, NDT touchup painting, Testing	Nos	4.00	2.000	2.00	14,013.69	26,951.18	0.06580920%
b	After pre-commissioning, commissioning	Nos	4.00	0.000	4.00	1,648.67	6,341.45	
С	After punch point completion and handing over	Nos	4.00	0.000	4.00	824.33	,	0.00774226%
3	NDT Works						.,	
3.1	Radiography for pipe joints as per specification of various sizees and material							
а	After fabrication, erection, NDT touchup painting, Testing	Inch-Dia	1784.10	4106.250	0.00	249.26	0.00	0.00000000%
b	After pre-commissioning, commissioning	Inch-Dia	1784.10	0.000	4106.25	29.33	120415.78	0.29403047%
С	After punch point completion and handing over	Inch-Dia	1784.10	0.000	4106.25	14.66	60207.89	0.14701523%
3.2	Stress Relieving (PWHT) for pipe joints as per specification					100		
a	After fabrication, erection, NDT touchup painting, Testing	Inch-Dia	23334.00	5147.000	18187.00	284.10	4,968,447.90	12.13192353%
b	After pre-commissioning, commissioning	Inch-Dia	23334.00	0.000	23334.00	33.42	749,945.91	
c	After punch point completion and handing over	Inch-Dia	23334.00	0.000	23334.00	16.71	374,972.96	
3.3	Ultrasonic Texstig/ MP for pipe joints as per specification	mon blu	20001.00	0.000	2000 1.00	13.71	07 1,07 2.00	5.5.00000070
a a	After fabrication, erection, NDT touchup painting, Testing	Inch-Dia	50.00	0.000	50.00	262.79	10 605 10	0.03085251%

Item No.	Description of Item	Unit	Quantity in contract of original contractor	Quantity executed by original contractor	Quantity to be executed by bidder in the new Tender	Estimated Rate ( in Rs.) of new Tender	Estimated Amount(in Rs.) of the new tender	Weightage %
b	After pre-commissioning, commissioning	Inch-Dia	50.00	0.000	50.00	30.92	1,486.49	0.00362971%
С	After punch point completion and handing over	Inch-Dia	50.00	0.000	50.00	15.46	743.25	0.00181485%
4	Erection/ Installation of Hangers and supports etc. Note: material supplied by BHEL							
a	After fabrication, erection, NDT touchup painting, Testing	MT	120.00	4.800	115.20	20,934.09	2,319,005.96	5.66253355%
b	After pre-commissioning, commissioning	MT	120.00	0.000	120.00	2,462.83	284,191.91	0.69393793%
С	After punch point completion and handing over	MT	120.00	0.000	120.00	1,231.42	142,095.95	0.34696897%
5	Erection/ Installation of Temporary Piping for chemcal cleaning including supply of materials							
a	After fabrication, erection, NDT touchup painting, Testing	MT	10.00	0.000	10.00	20,465.63	196,797.89	0.48053980%
b	After pre-commisioning, commisioning	MT	10.00	0.000	10.00	2,243.76		0.05268423%
С	After punch point completion and handing over	MT	10.00	0.000	10.00	1,121.88		0.02634212%
6	Erection/ Installation of Temporary Piping for steam blowing including supply of materials							
a	After fabrication, erection, NDT touchup painting, Testing	MT	10.00	0.000	10.00	19,584.65	188,326.41	0.45985420%
b	After pre-commisioning, commisioning	MT	10.00	0.000	10.00	2,304.08		0.05410049%
С	After punch point completion and handing over	MT	10.00	0.000	10.00	1,152.04	11,078.02	0.02705025%
	Total for Section A-1					,	40.953.504.94	100.00000000%
1	Reaction Furnace Package: Erection, Testing, commissioning, trial operation and handing over to customer including receipt, unloading, handling of materials at BHEL strores and transportation to site, Steam Drum, Waste Heat Exchanger 1st Pass, Waste Heat Exchanger 2nd Pass, TSP Dosing skid Notes:							
a	Preparation of Foundation , within Site transportation & Placement on Foundation	MT	550.00	343.953	206.05	23,770.33	4,897,804.98	17.23281075%
b	Alignment , Welding / Jointing , Gouting , Bolting , NDT	MT	550.00	308.570	241.43	12,965.63	3,130,293.02	11.01386180%
С	Interface Support , Touch Paint , Precommissioning & Commissioning	MT	550.00	0.000	550.00	4,321.88	2,377,032.90	8.36353393%
d	Punch point Completion & Hand over	MT	550.00	0.000	550.00	2,160.94		4.18176696%
2	Incinerator Package (Except Stack fabrication and welding): Erection, Testing, commissioning, trial operation and handing over to customer including receipt, unloading,							
a	Preparation of Foundation, within Site transportation & Placement on Foundation	MT	768.00	499.194	268.81	23,770.33	6,389,607.06	22.48168101%
b	Alignment , Welding / Jointing , Gouting , NDT	MT	768.00	346.938	421.06	12,965.63		19.20854358%
С	Interface Support , Touch Paint , Precommissioning & Commissioning	MT	768.00	0.000	768.00	4,321.88		11.67853465%
d	Punch point Completion & Hand over	MT	768.00	0.000	768.00	2,160.94	1,659,601.15	
	Total for Section A2					,		100.00000000%
	Total for Section A2						20,721,000.07	100.0000000070

Item No.	Description of Item	Unit	Quantity in contract of original contractor	Quantity executed by original contractor	Quantity to be executed by bidder in the new Tender	Estimated Rate ( in Rs.) of new Tender	Estimated Amount(in Rs.) of the new tender	Weightage %
1 Equipmer	nt Erection-Static						-	
Owner's s (ii) Equipr	and transportation of Rotating Equipment & miscellaneous items of equipment package from storage points to						-	
	nt weighing less than 100 MT but 50 MT and above							
	on of Foundation, within Site transportation & Placement on Foundation	MT	112.30	0.000	112.30	26,543.01	2.980.779.52	11.21914076%
	t , Welding / Jointing , Gouting , Bolting , NDT	MT	112.30	0.000	112.30	14,478.00	1,625,879.74	
-	Support , Touch Paint , Precommissioning & Commissioning	MT	112.30	0.000	112.30	4,826.00		2.03984377%
	int Completion & Hand over	MT	112.30	0.000	112.30	2,413.00		1.01992189%
	nt weighing less than 50 MT but 30 MT and above	14/1	1.12.00	0.000	112.00	2,410.00	210,010.00	
	on of Foundation , within Site transportation & Placement on Foundation	MT	60.00	0.000	60.00	20,919.50	1,255,170.18	4.72424439%
	t , Welding / Jointing , Gouting , Bolting , NDT	MT	60.00	0.000	60.00	11.410.64		2.57686058%
	Support , Touch Paint , Precommissioning & Commissioning	MT	60.00	0.000	60.00	3,803.55		0.85895353%
	int Completion & Hand over	MT	60.00	0.000	60.00	1,901.77		0.42947676%
	nt weighing less than 30 MT but 10 MT and above	1411	00.00	0.000	00.00	1,001.77	114,100.00	0.4204707070
	on of Foundation ,within Site transportation & Placement on Foundation	MT	79.70	34.179	45.52	18,776.32	854 716 77	3.21700673%
	t , Welding / Jointing , Gouting , Bolting , NDT	MT	79.70	34.179	45.52	10,241.63		1.75473094%
	Support , Touch Paint , Precommissioning & Commissioning	MT	79.70	0.000	79.70	3,413.88		1.02408453%
	int Completion & Hand over	MT	79.70	0.000	79.70	1,706.94	,	0.51204227%
	nt weighing less than 10 MT	IVII	75.70	0.000	13.10	1,700.54	100,042.30	0.5120422170
	on of Foundation, within Site transportation & Placement on Foundation	MT	108.55	34.096	74.45	15,736.01	1,171,609.00	4.40073450%
	t , Welding / Jointing , Gouting , Bolting , NDT	MT	108.55	34.096	74.45	8,583.28		2.40530973%
	Support , Touch Paint , Precommissioning & Commissioning	MT	108.55	0.000	108.55	2,861.09		1.16893819%
	int Completion & Hand over	MT	108.55	0.000	108.55	1,430.55		0.58446909%
	nt Erection- Rotating	IVII	100.00	0.000	100.00	1,400.00	100,200.02	0.3044030370
Handling Owner's s	and transportation of Rotating Equipment & miscellaneous items of equipment package from storage points to work site / contractor's stores, assembly of (as applicable), & dressing of ns, grouting							
10 All Types	of Pumps (Electric Motor Driven) along with driver, auxiliaries and accessories (Single Skid).							
a Preparation	on of Foundation, within Site transportation & Placement on Foundation	MT	29.00	18.972	10.03	20,845.42	209,037.91	0.78678268%
b Alignmen	t , Welding / Jointing , Gouting , Bolting , NDT	MT	29.00	9.402	19.60	11,370.23	,	0.83870800%
c Interface	Support , Touch Paint , Precommissioning & Commissioning	MT	29.00	0.000	29.00	3,790.08	109,912.23	0.41369072%
d Punch po	int Completion & Hand over	MT	29.00	0.000	29.00	1,895.04	54,956.12	0.20684536%
11 Equipmer	nt Erection-Critical							
	tation of equipment/equipment internals from owner's storage point to work site, the Engineer- ≀ supervision of Equipment supplier							
13 Erection/I	nstallation of Reactor and Internals of (088-R-001)							
a Preparation	on of Foundation, within Site transportation & Placement on Foundation	MT	85.00	54.400	30.60	68,639.55	2,100,370.37	
b Alignmen	t , Welding / Jointing , Gouting , Bolting , NDT	MT	85.00	54.400	30.60	37,439.76	1,145,656.56	
c Interface	Support , Touch Paint , Precommissioning & Commissioning	MT	85.00	0.000	85.00	12,479.92	1,060,793.12	3.99264260%
d Punch po	int Completion & Hand over	MT	85.00	0.000	85.00	6,239.96	530,396.56	1.99632130%
14 Erection/I	nstallation of Reactor and Internals of Reactor (088-R-002)							
a Preparation	on of Foundation, within Site transportation & Placement on Foundation	MT	85.00	54.400	30.60	68,639.55		7.90543234%
b Alignmen	t , Welding / Jointing , Gouting , Bolting , NDT	MT	85.00	54.400	30.60	37,439.76	1.145.656.56	4.31205400%

Item No.	Description of Item	Unit	Quantity in contract of original contractor	Quantity executed by original contractor	Quantity to be executed by bidder in the new Tender	Estimated Rate ( in Rs.) of new Tender		Weightage %
С	Interface Support , Touch Paint , Precommissioning & Commissioning	MT	85.00	0.000	85.00	12,479.92	1,060,793.12	3.99264260%
d	Punch point Completion & Hand over	MT	85.00	0.000	85.00	6,239.96	530,396.56	1.99632130%
15	Erection/Installation of Degassing Contactot Column and Internals of Column (088-C-001)							
а	Preparation of Foundation, within Site transportation & Placement on Foundation	MT	35.00	27.000	8.00	68,639.55	549,116.44	2.06677970%
b	Alignment , Welding / Jointing , Gouting , Bolting , NDT	MT	35.00	27.000	8.00	37,439.76	299,518.06	1.12733438%
С	Interface Support , Touch Paint , Precommissioning & Commissioning	MT	35.00	0.000	35.00	12,479.92	436,797.17	1.64402930%
d	Punch point Completion & Hand over	MT	35.00	0.000	35.00	6,239.96	218,398.58	0.82201465%
16	Erection/Installation Amine Acid Gas preheater (088-E-001)					·	ŕ	
a	Preparation of Foundation, within Site transportation & Placement on Foundation	MT	16.00	16.000	0.00	21,353.15	-	0.00000000%
b	Alignment , Welding / Jointing , Gouting , Bolting , NDT	MT	16.00	16.000	0.00	11,647.17	-	0.00000000%
С	Interface Support , Touch Paint , Precommissioning & Commissioning	MT	16.00	0.000	16.00	3,882.39	62.118.24	0.23380236%
d	Punch point Completion & Hand over	MT	16.00	0.000	16.00	1.941.20		0.11690118%
17	Erection/Installation Air Preheater (088-E-002)		10.00	0.000	10.00	.,	0.,000.12	0.1100011070
a	Preparation of Foundation, within Site transportation & Placement on Foundation	MT	25.00	22.000	3.00	21,353.15	64 059 44	0.24110868%
b	Alignment , Welding / Jointing , Gouting , Bolting , NDT	MT	25.00	22.000	3.00	11.647.17	,	0.13151383%
c	Interface Support , Touch Paint , Precommissioning & Commissioning	MT	25.00	0.000	25.00	3.882.39	- /	0.36531618%
d	Punch point Completion & Hand over	MT	25.00	0.000	25.00	1.941.20		0.18265809%
18	Erection/Installation 1st Condenser (088-E-003)	IVII	20.00	0.000	20.00	1,341.20	40,020.00	0.1020300370
a	Preparation of Foundation , within Site transportation & Placement on Foundation	MT	40.00	47.055	0.00	21,353.15	0.00	0.0000000%
b	Alignment , Welding / Jointing , Gouting , Bolting , NDT	MT	40.00	47.055	0.00	11.647.17	0.00	0.00000000%
С	Interface Support , Touch Paint , Precommissioning & Commissioning	MT	40.00	0.000	47.06	3,882.39	182705.27	0.68767118%
d	Punch point Completion & Hand over	MT	40.00	0.000	47.06	1,941.20	91352.64	0.34383559%
19	Erection/Installation 1st Reheater (088-E-004)	IVII	40.00	0.000	47.00	1,941.20	91332.04	0.3436333976
a	Preparation of Foundation , within Site transportation & Placement on Foundation	MT	42.00	29.730	12.27	21,353.15	262 002 00	0.98613451%
-	The second secon	MT	42.00	29.730	12.27	11.647.17		0.53789155%
b	Alignment , Welding / Jointing , Gouting , Bolting , NDT				42.00	,-	,	
C	Interface Support , Touch Paint , Precommissioning & Commissioning	MT	42.00	0.000		3,882.39	,	0.61373119%
d	Punch point Completion & Hand over	MT	42.00	0.000	42.00	1,941.20	81,530.19	0.30686559%
20	Erection/Installation 2nd Condenser (088-E-005)	147	40.00	40.000	0.00	04.050.45	0.00	0.00000000/
a	Preparation of Foundation , within Site transportation & Placement on Foundation	MT	40.00	46.000	0.00	21,353.15	0.00	0.0000000%
b	Alignment , Welding / Jointing , Gouting , Bolting , NDT	MT	40.00	46.000	0.00	11,647.17	0.00	0.00000000%
C	Interface Support , Touch Paint , Precommissioning & Commissioning	MT	40.00	0.000	46.00	3,882.39	178589.94	0.67218178%
d	Punch point Completion & Hand over	MT	40.00	0.000	46.00	1,941.20	89294.97	0.33609089%
21	Erection/Installation 2nd Reheater (088-E-006)		40.00	00.700	10.07	04.050.45	000 050 00	1.0005040707
a	Preparation of Foundation , within Site transportation & Placement on Foundation	MT	43.00	29.730	13.27	21,353.15	,	1.06650407%
b	Alignment , Welding / Jointing , Gouting , Bolting , NDT	MT	43.00	29.730	13.27	11,647.17	,	0.58172949%
C	Interface Support , Touch Paint , Precommissioning & Commissioning	MT	43.00	0.000	43.00	3,882.39	,	0.62834384%
d	Punch point Completion & Hand over	MT	43.00	0.000	43.00	1,941.20	83,471.39	0.31417192%
22	Erection/Installation Final Condenser (088-E-007)							
a	Preparation of Foundation, within Site transportation & Placement on Foundation	MT	50.00	92.000	0.00	21,353.15	0.00	0.00000000%
b	Alignment , Welding / Jointing , Gouting , Bolting , NDT	MT	50.00	92.000	0.00	11,647.17	0.00	0.00000000%
С	Interface Support , Touch Paint , Precommissioning & Commissioning	MT	50.00	0.000	92.00	3,882.39	357179.88	1.34436355%
d	Punch point Completion & Hand over	MT	50.00	0.000	92.00	1,941.20	178589.94	0.67218178%
23	Erection/Installation BFW Preheater (088-E-008)							
а	Preparation of Foundation, within Site transportation & Placement on Foundation	MT	1.50	2.200	0.00	21,353.15	0.00	0.00000000%
b	Alignment , Welding / Jointing , Gouting , Bolting , NDT	MT	1.50	2.200	0.00	11,647.17	0.00	0.0000000%

Item No.	Description of Item	Unit	Quantity in contract of original contractor	Quantity executed by original contractor	Quantity to be executed by bidder in the new Tender	Estimated Rate ( in Rs.) of new Tender	Estimated Amount(in Rs.) of the new tender	Weightage %
С	Interface Support , Touch Paint , Precommissioning & Commissioning	MT	1.50	0.000	2.20	3.882.39	8541.26	0.03214782%
d	Punch point Completion & Hand over	MT	1.50	0.000	2.20	1,941,20	4270.63	0.01607391%
24	Erection/Installation Sulphur Cooler (088-E-009)				-	, , , , , , ,		
а	Preparation of Foundation, within Site transportation & Placement on Foundation	MT	2.50	4.030	0.00	21,310.90	0.00	0.00000000%
b	Alignment , Welding / Jointing , Gouting , Bolting , NDT	MT	2.50	4.030	0.00	11,624.13	0.00	0.00000000%
С	Interface Support , Touch Paint , Precommissioning & Commissioning	MT	2.50	0.000	4.03	3,874.71	15615.08	0.05877246%
d	Punch point Completion & Hand over	MT	2.50	0.000	4.03	1,937.35	7807.54	0.02938623%
25	Erection/Installation Condensate Drum Vent Condenser (088-AC-001)					,		
а	Preparation of Foundation, within Site transportation & Placement on Foundation	MT	12.50	14.000	0.00	21,353.15	0.00	0.00000000%
b	Alignment , Welding / Jointing , Gouting , Bolting , NDT	MT	12.50	14.000	0.00	11,647.17	0.00	0.00000000%
С	Interface Support , Touch Paint , Precommissioning & Commissioning	MT	12.50	0.000	14.00	3,882.39	54353.46	0.20457706%
d	Punch point Completion & Hand over	MT	12.50	0.000	14.00	1,941.20	27176.73	0.10228853%
26	Erection/Installation Blowdown Cooler (088-AC-002)		.=.,,	*****		1,01112		
а	Preparation of Foundation, within Site transportation & Placement on Foundation	MT	8.50	15.000	0.00	21,310.90	0.00	0.00000000%
b	Alignment , Welding / Jointing , Gouting , Bolting , NDT	MT	8.50	15.000	0.00	11,624.13	0.00	0.00000000%
С	Interface Support , Touch Paint , Precommissioning & Commissioning	MT	8.50	0.000	15.00	3,874.71	58120.64	0.21875606%
d	Punch point Completion & Hand over	MT	8.50	0.000	15.00	1.937.35	29060.32	0.10937803%
27	Erection/Installation SULFUR PIT EJECTORS (088-EJ-01A/B		0.00	*****		1,000.000		
а	Preparation of Foundation, within Site transportation & Placement on Foundation	MT	1.80	2.360		21,310.90	0.00	0.00000000%
b	Alignment , Welding / Jointing , Gouting , Bolting , NDT	MT	1.80	0.000	2.36	11,624.13	27432.94	0.10325286%
С	Interface Support , Touch Paint , Precommissioning & Commissioning	MT	1.80	0.000	2.36	3,874.71	9144.31	0.03441762%
d	Punch point Completion & Hand over	MT	1.80	0.000	2.36	1.937.35	4572.16	0.01720881%
28	Installation of Hook Mounted Chain Pulley Block			*****		1,000.000		
29	Transportation of Equipment from Owner's store/Contractor's store to work site. Assembly of							
30	Chain Pulley Block Capacity- Upto 10 MT							
а	Preparation of Foundation, within Site transportation & Placement on Foundation	Nos	9.00	0.000	9.00	5,315.30	47,837.74	0.18005302%
b	Alignment , Welding / Jointing , Gouting , Bolting , NDT	Nos	9.00	0.000	9.00	2,899.26		0.09821074%
С	Interface Support , Touch Paint , Precommissioning & Commissioning	Nos	9.00	0.000	9.00	966.42		0.03273691%
d	Punch point Completion & Hand over	Nos	9.00	0.000	9.00	483.21	4,348.89	0.01636846%
	Total A2(a)						26,568,697.04	100.00000000%
4	Incinerator Stack Fabrication, welding, radiography, PWHT at site: Testing and commissioning of Incinerator stack including Fabrication, welding, radiography, touch up painting (Approx 71Mtr Height) as per TCC							
1	Preparation of Foundation, within Site transportation & Placement on Foundation	Nos	200.00	166.400	33.60	20,419.66	686,100.68	31.55737705%
а	Alignment , Welding / Jointing , Gouting , Bolting , NDT	Nos	200.00	166.400	33.60	11,138.00	,	17.21311475%
b	Interface Support , Touch Paint , Precommissioning & Commissioning	Nos	200.00	0.000	200.00	3,712.67		34.15300546%
С	Punch point Completion & Hand over	Nos	200.00	0.000	200.00	1,856.33	371,266.60	17.07650273%
	Total					,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	,	100.00000000%

ltem No.	Description of Item	Unit	Quantity in contract of original contractor	Quantity executed by original contractor	Quantity to be executed by bidder in the new Tender	Estimated Rate ( in Rs.) of new Tender		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							
a	After fabrication, erection, NDT touchup painting, Testing	Inch-meter	13499.33	0.000	13499.33	67.02	904,758.58	85.00000000%
b	After pre-commissioning, commissioning	Inch-meter	13499.33	0.000	13499.33	7.89		10.00000000%
С	After punch point completion and handing over	Inch-meter	13499.33	0.000	13499.33	3.94	53,221.09	5.00000000%
	Total						1,064,421.86	100.00000000%
	Section-A4_Price:: Structural steel and associated works		•		•	•		
1	Dismantling concrete work for all types of structures at all levels including stacking of servicable material to a lead of 500 m and disposal of unservicable material upto a lead of 2 km,							
1.1	Plain cement concrete of all grades							
а	After fabrication, erection, NDT touchup painting, Testing	CUM	10.00	0.000	10.00	1,204.60	12,046.03	0.05571612%
b	After pre-commissioning, commissioning	CUM	10.00	0.000	10.00	141.72	1,417.18	0.00655484%
С	After punch point completion and handing over	CUM	10.00	0.000	10.00	70.86	708.59	0.00327742%
1.2	Reinforced cement concrete of all grades							
а	After fabrication, erection, NDT touchup painting, Testing	CUM	50.00	0.000	50.00	1,746.84		0.40398100%
b	After pre-commissioning, commissioning	CUM	50.00	0.000	50.00	205.51	10,275.55	0.04752718%
С	After punch point completion and handing over	CUM	50.00	0.000	50.00	102.76	5,137.78	0.02376359%
2	GROUTING: Grouting including all labour, material (unless otherwise specified in BOQ/contract specification),							
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.							
а	After fabrication, erection, NDT touchup painting, Testing	CUM	1.00	0.000	1.00	17,482.90	17,482.90	0.08086311%
b	After pre-commissioning, commissioning	CUM	1.00	0.000	1.00	2,056.81	2,056.81	0.00951331%
С	After punch point completion and handing over	CUM	1.00	0.000	1.00	1,028.41	,	0.00475665%
2.2	Providing & grouting of pocket holes, pipe sleeves and under base plate of structural steel work/ machinery/ pipe supporting structures including roughening of surface, cleaning, ramming,							
а	After fabrication, erection, NDT touchup painting, Testing	CUM	1.00	0.000	1.00	16,396.94	16,396.94	0.07584026%
b	After pre-commissioning, commissioning	CUM	1.00	0.000	1.00	1,929.05	,	0.00892238%
С	After punch point completion and handing over	CUM	1.00	0.000	1.00	964.53	964.53	0.00446119%
2.3	Providing & grouting of pocket holes, pipe sleeves and under base plates of structural steel work/ machinery/							
a	After fabrication, erection, NDT touchup painting, Testing	CUM	4.00	0.000	4.00	39,339.67		0.72782620%
b	After pre-commissioning, commissioning	CUM	4.00	0.000	4.00	4,628.20	18,512.79	0.08562661%
С	After punch point completion and handing over	CUM	4.00	0.000	4.00	2,314.10	9,256.39	0.04281331%
2.4	Providing & grouting of pocket holes, pipe sleeves and under base plates of structural steel work/ machineny/							
а	After fabrication, erection, NDT touchup painting, Testing	CUM	2.00	15.681	0.00	42,385.28	0.00	0.00000000%
b	After pre-commissioning, commissioning	CUM	2.00	0.000	15.68	4,986.50		0.36164225%
С	After punch point completion and handing over	CUM	2.00	0.000	15.68	2,493.25	39,094.19	0.18082113%
3	ROOFING / SIDE CLADDING: Roofing / side cladding work including all labour, material (unless otherwise specified in							

Item No.	Description of Item	Unit	Quantity in contract of original contractor	Quantity executed by original contractor	Quantity to be executed by bidder in the new Tender	Estimated Rate ( in Rs.) of new Tender		Weightage %
3.1 Desi	signing, providing and fixing External sheet of Permanent colour coated metal cladding with troughed M.S. bets of 0.8mm bare metal thickness having minimum yield strength 250 MPa							
a After	er fabrication, erection, NDT touchup painting, Testing	Sqm	20.00	0.000	20.00	1,122.15	22,443.06	0.10380517%
b After	er pre-commisioning, commisioning	Sqm	20.00	0.000	20.00	132.02	2,640.36	0.01221237%
c After	er punch point completion and handing over	Sqm	20.00	0.000	20.00	66.01	1,320.18	0.00610619%
	RUCTURAL WORKS: Structural steel works including all labour, material (unless otherwise specified in Q/contract specification), equipments unless otherwise specified, transportation, handling etc. at all							
4.1 Supp	oply, Fabrication, erection and alignment of structural steel of Grade E250 quality BR / B0 rolled section /							
a After	er fabrication, erection, NDT touchup painting, Testing	MT	50.00	17.695	0.00	101,215.96	-	0.0000000%
b After	er pre-commisioning, commisioning	MT	50.00	0.000	17.70	11,907.76	210,767.35	0.97485556%
c After	er punch point completion and handing over	MT	50.00	0.000	17.70	5,953.88	105,383.68	0.48742778%
	pply, Fabrication, erection and alignment of structural steel of tubular/ hollow steel sections shall be of de yst 310 conforming to is:1161 (for circular hollow sections (chs) (shs)							
a After	er fabrication, erection, NDT touchup painting, Testing	MT	20.00	0.000	20.00	101,215.96	2,024,319.20	9.36301952%
b After	er pre-commisioning, commisioning	MT	20.00	0.000	20.00	11,907.76	238,155.20	1.10153171%
c After	er punch point completion and handing over	MT	20.00	0.000	20.00	5,953.88	119,077.60	0.55076585%
	king delivery of structural elements from BHEL stores / store yard, loading, transportation, unloading, sction and alignment of structural steel of Grade E250 quality BR / B0 rolled							
a After	er fabrication, erection, NDT touchup painting, Testing	MT	1236.00	1494.812	150.00	22,163.07	3,324,460.50	15.37652191%
b After	er pre-commisioning, commisioning	MT	1236.00	0.000	1644.81	2,607.42	4,288,710.49	19.83643687%
c After	er punch point completion and handing over	MT	1236.00	0.000	1644.81	1,303.71	2,144,355.25	9.91821843%
	ra over ST NO. 2301-A & 2301-B for blast cleaning of steel structures to near white metal surface (Sa 2 ) and Two component Inorganic Zinc Silicate coating of miniumm 75 micron (DFT) at shop,							
a After	er fabrication, erection, NDT touchup painting, Testing	MT	70.00	14.878		6,720.41	-	0.0000000%
b After	er pre-commisioning, commisioning	MT	70.00	0.000	14.88	790.64	11,764.68	0.05441480%
c After	er punch point completion and handing over	MT	70.00	0.000	14.88	395.32		0.02720740%
	widing and applying High Build Epoxy finish coating cured with polyamine hardener of 150 micron at shop t two component Acrylic – Polyurethane finish paint (35 micron at shop & 40 micron at field)							
a After	er fabrication, erection, NDT touchup painting, Testing	MT	70.00	14.878	0.00	3,827.03	-	0.0000000%
b After	er pre-commisioning, commisioning	MT	70.00	0.000	14.88	450.24	6,699.56	0.03098725%
c After	er punch point completion and handing over	MT	70.00	0.000	14.88	225.12	3,349.78	0.01549362%
	viding and applying two component Acrylic – Polyurethane finish paint (40 micron at field) over already nted surface			_			_	
a After	er fabrication, erection, NDT touchup painting, Testing	MT	1300.00	0.000	1645.00	2,041.09	3,357,589.76	15.52975363%
b After	er pre-commisioning, commisioning	MT	1300.00	0.000	1645.00	240.13	395,010.56	1.82702984%
c After	er punch point completion and handing over	MT	1300.00	0.000	1645.00	120.06	197,505.28	0.91351492%
	pplying, fabrication, erection and alignment of factory made electroforged galvanised grating units with d steel having minimum galvanisation conforming to IS:2062 in							
4.7.1 Mini	nimum galvanisation of 900 g/sqm							
a Supp	oply ( Receipt at Site )	MT	21.00	20.125	3.00	90,528.69	271,586.07	1.25615845%
b Fabr	prication & Erection	MT	21.00	16.271	6.86	37,720.29	258,723.45	1.19666539%

Item No.	Description of Item	Unit	Quantity in contract of original contractor	Quantity executed by original contractor	Quantity to be executed by bidder in the new Tender	Estimated Rate ( in Rs.) of new Tender	Estimated Amount(in Rs.) of the new tender	Weightage %
С	Touch up paint , Precommissioning & Commissioning	MT	21.00	0.000	6.86	15,088.12	103,489.38	0.47866616%
d	Punch Point Completion & Hand over	MT	21.00	0.000	6.86	7,544.06	51,744.69	0.23933308%
4.8	Providing and fixing in positing of High Strength Structural Steel Bolts of Property Class 8.8 (minimum) conforming to IS:3757 & IS:4000 up to and inclusive of 39 mm diameter and upto 300 mm long.							
a	After fabrication, erection, NDT touchup painting, Testing	KG	1000.00	4945.000	1500.00	148.27	222411.00	1.02871056%
b	After pre-commissioning, commissioning	KG	1000.00	0.000	6445.00	17.44	112426.58	0.52000310%
С	After punch point completion and handing over	KG	1000.00	0.000	6445.00	8.72	56213.29	0.26000155%
4.9	Providing and fixing in positing of High Strength Structural Steel Bolts of Property Class 10.9 conforming to IS:3757 &							
а	After fabrication, erection, NDT touchup painting, Testing	KG	10.00	0.000	1.00	163.11		0.00075441%
b	After pre-commissioning, commissioning	KG	10.00	0.000	1.00	19.19		0.00088754%
С	After punch point completion and handing over	KG	10.00	0.000	1.00	9.59	95.95	0.00044377%
4.10	Dismantling of steel structure, lowering of material and carriage of the dismantled material up to field fabrication shop / projects storage including temporary dismantling, cutting,							
а	After fabrication, erection, NDT touchup painting, Testing	MT	50.00	1.558		8,495.21	-	0.00000000%
b	After pre-commissioning, commissioning	MT	50.00	0.000	1.56	999.44	1,559.12	0.00721136%
С	After punch point completion and handing over	MT	50.00	0.000	1.56	499.72	779.56	0.00360568%
4.11	Dismantling Gl/asbestos/translucent sheets, ridges, gutters etc. (taking all necessary safety precautions) in barricading,							
а	After fabrication, erection, NDT touchup painting, Testing	SQM	2950.00	0.000		139.57	-	0.00000000%
b	After pre-commissioning, commissioning	SQM	2950.00	0.000		16.42	-	0.00000000%
С	After punch point completion and handing over	SQM	2950.00	0.000		8.21	-	0.00000000%
4.12	Addition to, alterations in and/or modifiction of "Erection Marks" including cutting of parts, gauging of welds, cutting, grinding, fabrication, welding, drilling holes, straightening, removal of bends,							
4.12.1	In erected position							
а	After fabrication, erection, NDT touchup painting, Testing	MT	50.00	0.000		20,274.94	-	0.0000000%
b	After pre-commissioning, commissioning	MT	50.00	0.000		2,385.29	-	0.0000000%
С	After punch point completion and handing over	MT	50.00	0.000		1,192.64	-	0.00000000%
4.12.2	In fabrication yard							
а	After fabrication, erection, NDT touchup painting, Testing	MT	25.00	14.436	15.00	17,276.70	,	1.19864064%
b	After pre-commissioning, commissioning	MT	25.00	0.000	29.44	2,032.55	,	0.27676847%
С	After punch point completion and handing over	MT	25.00	0.000	29.44	1,016.28	29,919.18	0.13838424%
4.13	Supply, fabrication and fixing of GI pipe hand railing (1000 mm high) of 32 mm/40 mm dia (Medium Grade) including transportation,							
а	Supply ( Receipt at Site )	MT	50.00	18.777	12.00	78,303.47	,	4.34609462%
b	Fabrication & Erection	MT	50.00	8.469	22.31	32,626.45	, ,	6.26727971%
С	Touch up paint , Precommissioning & Commissioning	MT	50.00	0.000	30.78	13,050.58	,	3.01812127%
d	Punch Point Completion & Hand over	MT	50.00	0.000	30.78	6,525.29	,	1.50906063%
	Total for section A-4						21,620,367.20	100.00000000%

Item No.	Description of Item	Unit	Quantity in contract of original contractor	Quantity executed by original contractor	Quantity to be executed by bidder in the new Tender	Estimated Rate ( in Rs.) of new Tender	Estimated Amount(in Rs.) of the new tender	Weightage %
Extra Item-1	Extra over SOQRitem no. 4.3 for cutting of BHEL supplied plates (Cut to Sizes as per Engineering requirement/ Suit to Site) and welding (fillet size 8mm) of same, fitted cut to size plates for "Structural strengthenning work" to fit on columns/ beam/ channels etc. as per BHEL site engineer instruction.							
a	85% after fabrication, erection, NDT touchup painting, Testing	MT	130.00	88.172	41.83	14,325.90	599.223.75	20.10586364%
b	10% after pre-commisioning, commisioning	MT	130.00	0.000	130.00	1,685.40		7.35156938%
С	5% after punch point completion and handing over	MT	130.00	0.000	130.00	842.70	,	3.67578469%
Extra Item-2	Providing and applying two component Acrlic- Polyurethane finish paint (40 micron at fiend) on one side of plate and providing and applying High Build Epoxy coating c						,	
а	85% after fabrication, erection, NDT touchup painting, Testing	MT	130.00	0.000	130.00	1,115.85	145,061.09	4.86726105%
b	10% after pre-commisioning, commisioning	MT	130.00	0.000	130.00	131.28		0.57261895%
С	5% after punch point completion and handing over	MT	130.00	0.000	130.00	65.64	8,533.01	0.28630947%
Extra Item-3	Fabrication of pipe saddles, (from free issue supply of raw materials by BHEL) the job includes development of drawing from line item no as per IOCL specification, approval from BHEL, TPI and delivery at site. (without blasting and painting)							
а	After fabrication, erection, NDT touchup painting, Testing	MT	30	0.000	30.00	28,804.80	864,144.00	28.99478128%
b	After pre-commissioning, commissioning	MT	30	0.000	30.00	3,388.80		3.41115074%
С	After punch point completion and handing over	MT	30	0.000	30.00	1,694.40	50,832.00	1.70557537%
Extra Item-4	Modification/Rectification of Shoe Pad on Parent Pipe ( IBR & Non-IBR) by cutting, Welding, etc. as per drawings and instruction of Eingineer-in-charge : UOM: Length of welding converted into INCH DIA							
a	After fabrication, erection, NDT touchup painting, Testing	MT	1000	883.670	116.33	648.51	75,440.68	2.53127489%
b	After pre-commissioning, commissioning	MT	1000	0.000	1000.00	76.29	76,294.80	2.55993334%
С	After punch point completion and handing over	MT	1000	0.000	1000.00	38.15	38,147.40	1.27996667%
Extra Item-5	Removal of paints from flange raised serrated surface (size varying from 1 inch to 48 inch, in both IBR and Non-IBR category)  UOM: Unit rate per flange							
5.1	0 to less than or equal to 6 inch dia.							
а	After fabrication, erection, NDT touchup painting, Testing	Per Flange	132	109.000	23.00	510.00		0.39357883%
b	After pre-commisioning, commisioning	Per Flange	132	0.000	132.00	60.00	7,920.00	0.26574120%
С	After punch point completion and handing over	Per Flange	132	0.000	132.00	30.00	3,960.00	0.13287060%
5.2	More than 6 inch and less than or equal to 18 inch dia.							
а	After fabrication, erection, NDT touchup painting, Testing	Per Flange	25	25.000	0.00	1,530.00	-	0.00000000%
b	After pre-commissioning, commissioning	Per Flange	25	0.000	25.00	180.00		0.15098932%
C	After punch point completion and handing over	Per Flange	25	0.000	25.00	90.00	2,250.00	0.07549466%
5.3	More than 18 inch dia.			= 4 C				0.0000000000
a .	After fabrication, erection, NDT touchup painting, Testing	Per Flange	25	54.000	0.00	2,550.00	0.00	0.00000000%
b	After pre-commissioning, commissioning	Per Flange	25	0.000	25.00	300.00		0.25164887%
С	After punch point completion and handing over	Per Flange	25	0.000	25.00	150.00	3,750.00	0.12582443%
Extra Item-6	Dismantling & removal of erected valves and re-erection, alignment and bolting with temporary gaskets before flusing (Steam, water, chemicals, etc.) of pipes including supply of temporary gasket, scaffolding, supports & re-erecting, re-alignment and re-bolting with permanent gasketafter successful completion of flushing requirements using crane (if required) as per instruction of Engineer-in-charge.							0.0000000%
6.1	Size-2"					1		
V. I	After fabrication, erection, NDT touchup painting, Testing	Nos	1	0.000	1.00	1,016.69		0.03411330%

Item No.	Description of Item	Unit	Quantity in contract of original contractor	Quantity executed by original contractor	Quantity to be executed by bidder in the new Tender	Estimated Rate ( in Rs.) of new Tender		Weightage %
b	After pre-commisioning, commisioning	Nos	1	0.000	1.00	119.61	119.61	0.00401333%
С	After punch point completion and handing over	Nos	1	0.000	1.00	59.81	59.81	
6.2	Size-3"							
a	After fabrication, erection, NDT touchup painting, Testing	Nos	1	0.000	1.00	1,240.60	1.240.60	0.04162609%
b	After pre-commisioning, commisioning	Nos	1	0.000	1.00	145.95		0.00489719%
С	After punch point completion and handing over	Nos	1	0.000	1.00	72.98		0.00244859%
6.3	Size-4"							
a	After fabrication, erection, NDT touchup painting, Testing	Nos	1	0.000	1.00	1,467.11	1,467,11	0.04922616%
b	After pre-commissioning, commissioning	Nos	1	0.000	1.00	172.60	172.60	**********
c	After punch point completion and handing over	Nos	1	0.000	1.00	86.30		0.00289566%
6.4	Size-6"			0.000		23.00	30.00	
a	After fabrication, erection, NDT touchup painting, Testing	Nos	1	0.000	1.00	1,917.59	1 917 59	0.06434130%
b	After pre-commissioning, commissioning	Nos	1	0.000	1.00	225.60	225.60	
c	After punch point completion and handing over	Nos	1	0.000	1.00	112.80	112.80	
6.5	Size-8"	1400	'	0.000	1.00	112.00	112.00	0.0007047070
a a	After fabrication, erection, NDT touchup painting, Testing	Nos	1	0.000	1.00	3,031.63	3 031 63	0.10172073%
b	After pre-commisioning, commisioning	Nos	1	0.000	1.00	356.66		0.01196715%
C	After punch point completion and handing over	Nos	1	0.000	1.00	178.33		0.00598357%
6.6	Size-16"	1403	'	0.000	1.00	170.55	170.00	0.00390337 /0
	After fabrication, erection, NDT touchup painting, Testing	Nos	1	0.000	1.00	5,960.23	E 060 00	0.19998482%
a b	After pre-commissioning, commissioning	Nos	1	0.000	1.00	701.20	,	0.02352763%
	After punch point completion and handing over	Nos	1	0.000	1.00	350.60	350.60	
6.7	Size-20"	INUS	1	0.000	1.00	330.60	330.00	0.01170301%
		N	1	0.000	1.00	0.070.00	0.070.00	0.010500050/
a b	After fabrication, erection, NDT touchup painting, Testing	Nos Nos	1	0.000	1.00	6,276.26 738.38		0.21058835% 0.02477510%
	After pre-commisioning, commisioning				1.00			
c Extra Item-7	After punch point completion and handing over  Incinerator chamber saddle base hole enlargement in set of one round hole and one slotted hole(One round hole & one slotted hole to be measured as one no. unit) from 62 mm to 66 mm	Nos	1	0.000	1.00	369.19	369.19	0.01238755%
a	After fabrication, erection, NDT touchup painting, Testing	Nos	8	8.000	0.00	2,164.10	-	0.0000000%
b	After pre-commissioning, commissioning	Nos	8	0.000	8.00	113.90		0.03057366%
Extra Item-8	Sulphur Pit insert Plate welding ( 8 inch pipe) pipe supplied by BHEL, plate supplied by ETPL, which is claimed in A6_4.1			0.000	0.00		011120	0.0000700070
a	After fabrication, erection, NDT touchup painting, Testing	Nos	75	72.000	3.00	3,796.60	11,389.80	0.38216394%
b	After pre-commisioning, commisioning	Nos	75	0.000	75.00	199.82	14,986.58	0.50284729%
Extra Item-9	Fabrication of pipe saddles,(from supply of raw materials by Contractor) the job includes development of drawing from line item no as per IOCL specification, approval from BHEL, TPI and delivery at site. (without blasting and painting)							
а	After fabrication, erection, NDT touchup painting, Testing	MT	7	1.747	5.25	83,887.35	440,660.25	14.78555375%
b	After pre-commissioning, commissioning	MT	7	0.000	7.00	9,869.10	69,083.70	2.31797799%
С	After punch point completion and handing over	MT	7	0.000	7.00	4,934.55	34,541.85	1.15898899%
Extra Item-10	Taking delivery of V-type SS Anchors from BHEL stores at site, doing surface preparation of inside converter surface of carbon steel, marking, positioning and doing fillet weld through "Shielded Metal Arc Welding (SMAW)" process, testing as per approved Welding as per approved drawing which will be issued by BHEL).							
a	After fabrication, erection, NDT touchup painting, Testing	LS	1	1.000	0.00	712,500.00	-	0.00000000%

ltem No.	Description of Item	Unit	Quantity in contract of original contractor	Quantity executed by original contractor	Quantity to be executed by bidder in the new Tender	Estimated Rate ( in Rs.) of new Tender	Estimated Amount(in Rs.) of the new tender	Weightage %
b	After pre-commissioning, commissioning and handling over	LS	1	0.000	1.00	37,500.00	37,500.00	1.25824434%
	Total for extra items, A5						2,980,343.23	100.0000000%
	Total (Excluding GST)						₹ 123,782,865	

	Section-2: Part-B:(Schedule of Quantities & Rates_Price Estimate): Erection, testing and commissioning of "Mechanical Equipment and Piping" etc Works: Insulation, and Painting Works										
Item No	Description	UOM	Quantity in contract of original contractor	Quantity executed by original contractor	Quantity to be executed by bidder in the new Tender	Rate (in Rs.)	Amount (in Rs.)	Weightage %	Remark		
1	2	3	4	5	6	7	8	9	10		
1	1 Installation, testing and commissioning of Insulation and dismantling of existing insulation, steam tracing pipelines.										
1.1	Installation of insulation (This is inclusive of the mineral wool, , insulation auxiliaries and consumables)	MT	108	0	127	₹ 16,287.40	₹ 2,068,499.80	69.1345790%	Payment Terms: Payment shall be made as per following methodology: 1. 85% after fabrication, erection, NDT 2. 10% After touch up painting, testing, pre-		
1.2	Installation of Aluminium cladding including all hardware	MT	72	0	39	₹ 23,679.24	₹ 923,490.36	30.8654210%	commissioning, commissioning 3. 5% after punch point completion and handing over.		
2	Total (Excl taxes)						₹ 2,991,990	100.00%			

Supply of paint, preparation of surfaces, and application of paint (As per the painting specification/scheme), identification (Line numbering), lettering, colour bands, colour coding etc. as specified including rubdown and touch up wherever required, providing scaffolding for all heights, labour, material, tools & tackles, consumables, supervision etc. to complete the work in all respects as per BHEL painting spec, drawings and direction of Engineer-in-Charge for all types of uninsulated piping and insulated piping as specified including all pipes, fittings, flanges, etc. The identification marks of the piping & joints shall be noted before final painting with Polyurethane paint (F2) or as per the instructions of Engineer-in-Charge.

Item No	Description	UOM	Quantity in contract of original contractor	Quantity executed by original contractor	Balance Quantity to be executed by bidder in the new Tender	Rate (in Rs.)	Amount (in Rs.)	Weightage %	Remark
2.1	Painting of un-insulated CS & AS surfaces for Design Temperature Group: -14 TO 100 (DEG C).	SQM	943.94	0.00	943.94	₹ 675.81	₹ 637,920.65		Payment Terms: Payment shall be as per following methodology: 1. 50% after supply
2.2	Painting of un-insulated CS & AS surfaces for Design Temperature Group: 101 TO 400 (DEG C)	SQM	318.07	0.00	318.07	₹ 446.04	₹ 141,870.46	5.09184%	2. 35 % after application 3. 10% After pre-
2.3	Painting under insulated CS & AS surfaces for Design Temperature Group: -45 TO 200 (DEG C)	SQM	2506.91	0.00	2506.91	₹ 681.57	₹ 1,708,637.17	61.32436%	commissioning, commissioning

Painting under insulated CS & AS surfaces for Design Temperature Group: 121 to 540 (DEG C)	SQM	507.20	0.00	507.20	₹	406.86	₹	206,357.49		completion and handing
Insulated SS Pipes Design Temperature Group: -180 to 600 (DEG C)	SQM	28.04	0.00	28.04	₹	2,420.08	₹	67,870.03		
Uninsulated SS Pipes Design Temperature Group: 0 to 120 (DEG C)	SQM	10.60	0.00	10.60	₹	2,223.44	₹	23,573.33	0.84607%	
Total (Excl taxes)							₹	2,786,229	100.00%	
Total for Part-B							₹	5,778,219		
	Temperature Group: 121 to 540 (DEG C) Insulated SS Pipes Design Temperature Group: -180 to 600 (DEG C) Uninsulated SS Pipes Design Temperature Group: 0 to 120 (DEG C) Total (Excl taxes)	Temperature Group: 121 to 540 (DEG C)  Insulated SS Pipes Design Temperature Group: -180 to 600 (DEG C)  Uninsulated SS Pipes Design Temperature Group: 0 to 120 (DEG C)  Total (Excl taxes)	Temperature Group: 121 to 540 (DEG C)  Insulated SS Pipes Design Temperature Group: -180 to 600 (DEG C)  Uninsulated SS Pipes Design Temperature Group: 0 to 120 (DEG C)  Total (Excl taxes)	Temperature Group: 121 to 540 (DEG C)  Insulated SS Pipes Design Temperature Group: -180 to 600 (DEG C)  Uninsulated SS Pipes Design Temperature Group: 0 to 120 (DEG C)  Total (Excl taxes)  SQM  28.04  0.00  28.04  0.00  0.00	Temperature Group: 121 to 540 (DEG C)   SQM   S07.20   0.00   S07.20	Temperature Group: 121 to 540 (DEG C)       SQM       507.20       0.00       507.20       ₹         Insulated SS Pipes       SQM       28.04       0.00       28.04       ₹         Design Temperature Group: -180 to 600 (DEG C)       SQM       10.60       0.00       10.60       ₹         Uninsulated SS Pipes       SQM       10.60       0.00       10.60       ₹         Design Temperature Group: 0 to 120 (DEG C)       Total (Excl taxes)       10.60       10.60       ₹	Temperature Group: 121 to 540 (DEG C)       SQM       507.20       € 0.00       507.20       ₹ 406.86         Insulated SS Pipes       SQM       28.04       0.00       28.04       ₹ 2,420.08         Uninsulated SS Pipes       SQM       10.60       0.00       10.60       ₹ 2,223.44         Design Temperature Group: 0 to 120 (DEG C)       SQM       10.60       0.00       10.60       ₹ 2,223.44	Temperature Group: 121 to 540 (DEG C)         SQM         507.20         0.00         507.20         ₹         406.86         ₹           Insulated SS Pipes         SQM         28.04         0.00         28.04         ₹         2,420.08         ₹           Uninsulated SS Pipes         SQM         10.60         0.00         10.60         ₹         2,223.44         ₹           Design Temperature Group: 0 to 120 (DEG C)         SQM         10.60         0.00         10.60         ₹         2,223.44         ₹	Temperature Group: 121 to 540 (DEG C)       SQM       507.20       0.00       507.20       ₹       406.86       ₹       206,557.49         Insulated SS Pipes       Design Temperature Group: -180 to 600 (DEG C)       SQM       28.04       0.00       28.04       ₹       2,420.08       ₹       67,870.03         Uninsulated SS Pipes       Design Temperature Group: 0 to 120 (DEG C)       SQM       10.60       0.00       10.60       ₹       2,223.44       ₹       23,573.33         Total (Excl taxes)       ▼       2,786,229	Painting under insulated CS & AS surfaces for Design Temperature Group: 121 to 540 (DEG C)  SQM  SQM  SQM  SQM  SQM  SQM  SQM  SQ