

PROFORMA FOR PRICE BID of “Refer ANNEXURE-A,SI-1”.

1. Name of the firm :
2. Name of the Proprietor :
3. Address and Contact Numbers:

**PRICE BID FOR MECHANICAL JOBS OF Erection & Commissioning (Mechanical works) of 1 X
20 MW STG at TNPL, Kaghitapuram**

1.01.00 EQUIPMENT ERECTION INCLUDING TESTING, COMMISSIONING, PAINTING AND GROUTING				
S.NO	DESCRIPTION	Qty.	Item Wt. (In Kg)	Total Wt. (In Kg)
1.01.01	Turbine (Without base frame)	1	59930	59930
1.01.02	Bed Plates	1	2030	2030
1.01.03	Input Coupling Assembly	1	175	175
1.01.04	Lube Oil Tank	1	6000	6000
1.01.05	Overhead Lube Oil Tank	1	2100	2100
1.01.06	Lube Oil Pump Assy.	2	1600	3200
1.01.07	Emergency Lube Oil Pump Assy.	1	850	850
1.01.08	Duplex Filters (Set)	1	550	550
1.01.09	Lube Oil Accumulators set 3x55 (Set)	1	550	550
1.01.10	Control Oil Accumulators set 2x55 (Set)	1	350	350
1.01.11	Governing Oil Console	1	700	700
1.01.12	Oil Purification Unit & JOP system	1	1200	1200
1.01.13	JOP system	1	250	250
1.01.14	Acoustic Enclosure	1	9000	9000
1.01.15	Oil Vapour Exhaust fan	2	75	150
1.01.16	LOP Y strainer	2	85	170
1.01.17	EOP Y strainer	1	35	35
1.01.18	Gear Box Assembly	1	10500	10500
1.01.19	Valves (Package)	1	10000	10000
1.01.20	Generator Package	1	50600	50600
1.01.21	CACW Items (Set)	1	1500	1500
1.01.22	Generator foundation items (Set)	1	1000	1000
1.01.23	Gland Steam Condenser	1	1300	1300
1.01.25	Atmospheric Tank	1	1000	1000
1.01.27	Steam Turbine Oil Cooler	2	2000	4000
1.01.28	Generator Air Cooler	6	750	4500
1.01.29	Structural Material (Access Platform etc.) Package	1	10000	10000
Total Weight				181690
Erection Rate per Kg=				
1.01.00 Total Amount				

Note:

1. Turbine and Generator will be supplied in loose condition to site. EOT available at site of capacity 40T.
2. Bidders to note that equipment erection includes the placement of equipment at site in position with proper foundation preparation and grouting with Conbextra GP-2 Cement.
3. Coupling bolt holes reaming shall be in contractor's scope.

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1.02.00 PIPE FIT UP AND WELDING						
S.No	PIPE SIZE	MATL.	TYPE OF WELD	NO. OF WELD JOINTS	Rate	Amount
IBR PIPING						
1.02.01	12" Sch 80	A335 GrP11	TIG+SMAW	66		
1.02.02	8" Sch 40	A335 GrP11	TIG+SMAW	16		
1.02.03	6" Sch 40	A335 GrP11	TIG+SMAW	17		
1.02.04	4" Sch 40	A335 GrP11	TIG+SMAW	12		
1.02.05	3" Sch 40	A335 GrP11	TIG+SMAW	31		
1.02.06	2" Sch 80	A335 GrP11	TIG+SMAW	59		
1.02.07	1.5" Sch 80	A335 GrP11	TIG+SMAW	6		
1.02.08	1" Sch 80	A335 GrP11	TIG+SMAW	208		
1.02.09	0.5" Sch 80	A335 GrP11	TIG+SMAW	10		
1.02.10	24" Sch 40	A106GrB	TIG+SMAW	28		
1.02.11	16" Sch 40	A106GrB	TIG+SMAW	33		
1.02.12	10" Sch 40	A106GrB	TIG+SMAW	74		
1.02.13	8" Sch 40	A106GrB	TIG+SMAW	39		
1.02.14	4" Sch 40	A106GrB	TIG+SMAW	27		
1.02.15	3" Sch 40	A106GrB	TIG+SMAW	32		
1.02.16	1.5" Sch 40	A106GrB	TIG+SMAW	4		
1.02.17	1" Sch 40	A106GrB	TIG+SMAW	197		
1.02.18	0.5" Sch 80	A106GrB	TIG+SMAW	10		
NON- IBR PIPING						
1.02.19	1" Sch 80	A335 GrP11	TIG+SMAW	40		
1.02.20	36" Sch 10	A106GrB	TIG+SMAW	1		
1.02.21	20" Sch 30	A106GrB	TIG+SMAW	11		
1.02.22	20" Sch 10	A106GrB	TIG+SMAW	1		
1.02.23	16" Sch 40	A106GrB	TIG+SMAW	1		
1.02.24	12" Sch 30	A106GrB	TIG+SMAW	79		
1.02.25	10" Sch 30	A106GrB	TIG+SMAW	16		
1.02.26	8" Sch 40	A106GrB	TIG+SMAW	91		
1.02.27	6" Sch 40	A106GrB	TIG+SMAW	222		
1.02.28	4" Sch 40	A106GrB	TIG+SMAW	202		
1.02.29	3" Sch 40	A106GrB	TIG+SMAW	45		
1.02.30	2" Sch 40	A106GrB	TIG+SMAW	36		
1.02.31	1.5" Sch 80	A106GrB	TIG+SMAW	36		
1.02.32	1" Sch 80	A106GrB	TIG+SMAW	187		
1.02.33	0.5" Sch 80	A106GrB	TIG+SMAW	36		

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1.02.34	6" Sch 10S	SS	TIG	6		
1.02.35	4" Sch 10S	SS	TIG	81		
1.02.36	3" Sch 10S	SS	TIG	29		
1.02.37	2" Sch 10S	SS	TIG	42		
1.02.38	1.5" Sch 40S	SS	TIG	6		
1.02.39	1" Sch 40S	SS	TIG	75		
1.02.40	0.75" Sch 40S	SS	TIG	10		
1.02.41	0.5" Sch 40S	SS	TIG	15		
1.02.42	0.375" Sch 40S	SS	TIG	10		
INSTRUMENT AIR						
1.02.43	1" Sch 40S	SS	TIG	171		
1.02.00 TOTAL						

1.03.00 RADIOGRAPHY OF PIPING						
S.No	PIPE SIZE	MATL.	TYPE OF WELD	NO. OF WELD JOINTS	Rate	Amount
IBR PIPING						
1.03.01	12" Sch 80	A335 GrP11	TIG+SMAW	66		
1.03.02	8" Sch 40	A335 GrP11	TIG+SMAW	16		
1.03.03	6" Sch 40	A335 GrP11	TIG+SMAW	17		
1.03.04	4" Sch 40	A335 GrP11	TIG+SMAW	12		
1.03.05	3" Sch 40	A335 GrP11	TIG+SMAW	31		
1.03.06	2" Sch 80	A335 GrP11	TIG+SMAW	59		
1.03.07	1.5" Sch 80	A335 GrP11	TIG+SMAW	6		
1.03.08	1" Sch 80	A335 GrP11	TIG+SMAW	208		
1.03.09	0.5" Sch 80	A335 GrP11	TIG+SMAW	10		
1.03.10	24" Sch 40	A106GrB	TIG+SMAW	3		
1.03.11	16" Sch 40	A106GrB	TIG+SMAW	3		
1.03.12	10" Sch 40	A106GrB	TIG+SMAW	7		
1.03.13	8" Sch 40	A106GrB	TIG+SMAW	4		
1.03.14	4" Sch 40	A106GrB	TIG+SMAW	3		
1.03.15	3" Sch 40	A106GrB	TIG+SMAW	3		
1.03.16	1.5" Sch 40	A106GrB	TIG+SMAW	1		
1.03.17	1" Sch 40	A106GrB	TIG+SMAW	20		
1.03.18	0.5" Sch 80	A106GrB	TIG+SMAW	1		

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NON- IBR PIPING						
1.03.19	1" Sch 80	A335 GrP11	TIG+SMAW	4		
1.03.20	36" Sch 10	A106GrB	TIG+SMAW	1		
1.03.21	20" Sch 30	A106GrB	TIG+SMAW	1		
1.03.22	20" Sch 10	A106GrB	TIG+SMAW	1		
1.03.23	16" Sch 40	A106GrB	TIG+SMAW	1		
1.03.24	12" Sch 30	A106GrB	TIG+SMAW	8		
1.03.25	10" Sch 30	A106GrB	TIG+SMAW	2		
1.03.26	8" Sch 40	A106GrB	TIG+SMAW	9		
1.03.27	6" Sch 40	A106GrB	TIG+SMAW	22		
1.03.28	4" Sch 40	A106GrB	TIG+SMAW	20		
1.03.29	3" Sch 40	A106GrB	TIG+SMAW	5		
1.03.30	2" Sch 40	A106GrB	TIG+SMAW	4		
1.03.31	1.5" Sch 80	A106GrB	TIG+SMAW	4		
1.03.32	1" Sch 80	A106GrB	TIG+SMAW	19		
1.03.33	0.5" Sch 80	A106GrB	TIG+SMAW	4		
1.03.34	6" Sch 10S	SS	TIG	1		
1.03.35	4" Sch 10S	SS	TIG	8		
1.03.36	3" Sch 10S	SS	TIG	3		
1.03.37	2" Sch 10S	SS	TIG	4		
1.03.38	1.5" Sch 40S	SS	TIG	1		
1.03.39	1" Sch 40S	SS	TIG	8		
1.03.40	0.75" Sch 40S	SS	TIG	1		
1.03.41	0.5" Sch 40S	SS	TIG	2		
1.03.42	0.375" Sch 40S	SS	TIG	1		
INSTRUMET AIR						
1.03.43	1" Sch 40S	SS	TIG	17		
1.03.00 TOTAL						

1.04.00 PIPING ERECTION INCLUDING SPRING HANGERS, SUPPORTS, HYDRAULIC TESTING AND PAINTING					
SL.NO.	PIPE SIZE	PIPE MATERIAL	Erection Length (in Mtrs.)	Rate	Amount
IBR PIPING					
1.04.01	12" Sch 80	A335 GrP11	60		
1.04.02	8" Sch 40	A335 GrP11	12		
1.04.03	6" Sch 40	A335 GrP11	18		
1.04.04	4" Sch 40	A335 GrP11	18		
1.04.05	3" Sch 40	A335 GrP11	39		
1.04.06	2" Sch 80	A335 GrP11	43		
1.04.07	1.5" Sch 80	A335 GrP11	12		
1.04.08	1" Sch 80	A335 GrP11	324		

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1.04.09	0.5" Sch 80	A335 GrP11	24		
1.04.10	24" Sch 40	A106GrB	30		
1.04.11	16" Sch 40	A106GrB	40		
1.04.12	10" Sch 40	A106GrB	78		
1.04.13	8" Sch 40	A106GrB	31		
1.04.14	4" Sch 40	A106GrB	36.5		
1.04.15	3" Sch 40	A106GrB	48		
1.04.16	1.5" Sch 40	A106GrB	6		
1.04.17	1" Sch 40	A106GrB	204		
1.04.18	0.5" Sch 80	A106GrB	12		
NON IBR					
1.04.19	1" Sch 80	A335 GrP11	48		
1.04.20	36" Sch 10	A106GrB	2		
1.04.21	20" Sch 30	A106GrB	15		
1.04.22	20" Sch 10	A106GrB	3		
1.04.23	16" Sch 40	A106GrB	4.5		
1.04.24	12" Sch 30	A106GrB	93		
1.04.25	10" Sch 30	A106GrB	24		
1.04.26	8" Sch 40	A106GrB	109		
1.04.27	6" Sch 40	A106GrB	222		
1.04.28	4" Sch 40	A106GrB	160		
1.04.29	3" Sch 40	A106GrB	60		
1.04.30	2" Sch 40	A106GrB	60		
1.04.31	1.5" Sch 80	A106GrB	36		
1.04.32	1" Sch 80	A106GrB	204		
1.04.33	0.5" Sch 80	A106GrB	36		
1.04.34	6" Sch 10S	SS	6		
1.04.35	4" Sch 10S	SS	84		
1.04.36	3" Sch 10S	SS	36		
1.04.37	2" Sch 10S	SS	36		
1.04.38	1.5" Sch 40S	SS	6		
1.04.39	1" Sch 40S	SS	150		
1.04.40	0.75" Sch 40S	SS	12		
1.04.41	0.5" Sch 40S	SS	30		
1.04.42	0.375" Sch 40S	SS	12		
INSTRUMET AIR					
1.04.43	1" Sch 40S	SS	96		
1.04.00 TOTAL					

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1.05.00 THERMAL INSULATION (APPLICATION) INCLUDING CLADDING, FIXING ARRANGEMENTS ETC.					
Sl. No.	PIPE SIZE (in inches)	INSULATION THICKNESS (in mm)	PIPE LENGTH (in Mtrs.)	Rate	Amount
1.05.01	12" Sch 80-P11	145	60		
1.05.02	8" Sch 40-P11	100	12		
1.05.03	6" Sch 40-P11	110	18		
1.05.04	4" Sch 40-P11	115	18		
1.05.05	3" Sch 40-P11	115	39		
1.05.06	2" Sch 80-P11	100	43		
1.05.07	1.5" Sch 80-P11	25	12		
1.05.08	1" Sch 80-P11	90	324		
1.05.09	0.5" Sch 80-P11	70	24		
1.05.10	24" Sch 40-CS	80	30		
1.05.11	16" Sch 40-CS	45	40		
1.05.12	10" Sch 40-CS	45	78		
1.05.13	8" Sch 40-CS	100	31		
1.05.14	4" Sch 40-CS	60	36.5		
1.05.15	3" Sch 40-CS	70	48		
1.05.16	1.5" Sch 40-CS	65	6		
1.05.17	1" Sch 40-CS	50	204		
1.05.18	0.5" Sch 80-CS	45	12		
1.05.19	1" Sch 80-P11	80	48		
1.05.20	36" Sch 10-CS	75	2		
1.05.21	20" Sch 30-CS	45	15		
1.05.22	20" Sch 10-CS	95	3		
1.05.23	16" Sch 40-CS	75	4.5		
	HEAT EXCHANGER DESCRIPTION		SURFACE AREA (in sq.Mtrs)		
1.05.24	HE Equipment (Gland steam condenser etc.), 75 mm Insulation thickness with 20G Aluminum sheet cladding		8		
1.05.00 TOTAL					

Note:

- All the material required for temporary piping , scaffolding, cleaning, hydro-test, NDT shall be contractor's scope**
- Obtaining statutory approvals from IBR or any other Governing Agencies shall be in contractor's scope**

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1.06.00 MATERIAL UNLOADING AND STACKING AT SITE				
SL. NO.	DESCRIPTION	WEIGHT (in Tons)	Rate	Amount
1.06.01	Mechanical Items	218		
1.06.02	Instrumentation and electrical, panel, cable drums etc.	21		
1.06.00 TOTAL				

- The actual quantity of material at site may vary. Contractor has to handle the material.

<u>PRICE BID SUMMARY</u>		
1.01.00	EQUIPMENT ERECTION INCLUDING COST OF GROUTING (1.01.01 TO 1.01.29)	
1.02.00	PIPE FIT UP AND WELDING (1.02.01 TO 1.02.43)	
1.03.00	RADIOGRAPHY OF PIPING JOINTS (1.03.01 TO 1.03.43)	
1.04.00	PIPING ERECTION INCLUDING SPRING HANGERS SUPPORTS & PAINTING (1.04.01 TO 1.04.43)	
1.05.00	THERMAL INSULATION (APPL) INCLUDING CLADDING, FIXING ARRANGEMENTS ETC (1.05.01 TO 1.05.24)	
1.06.00	MATERIAL HANDLING AND STAKING (1.06.01 TO 1.06.02)	
Grand Total		

Note: The above rates are exclusive of GST, which is to be paid extra as applicable

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