

VOLUME - II

PRICE BID SPECIFICATION

PROJECT: E&C works for Mechanical, Piping, Electrical, C&I, Material handling including site storage facility and site office for 1x30 MW STG & Auxiliaries for TNPL, Mannaparai, Trichy

BHARAT HEAVY ELECTRICALS LIMITED

	TENDER NO.: HY/PE&SD/E&C/ TNPL//MECH-ELECT-INFRA/001 Project :: E&C works for Mechanical, Piping, Electrical, C&I, Material handling including site storage facility and site office for 1x30 MW STG & Auxiliaries for TNPL,Mannaparai, Trichy	REV00
	PRICE SCHEDULE FOR E&C works for Mechanical, Piping, Electrical, C&I, Material handling including site storage facility and site office for 1x30 MW STG & Auxiliaries for TNPL,Mannaparai, Trichy	
	Name of the Bidder ::	Price offer no and Date :
	NOTES ::	
1	This document details the price/payment schedule format for the enquiry. No other format will be entertained and evaluated.	
2	Duly signed & stamped unpriced price schedule format shall be submitted along with Technical offer by bidder as a token of his concurrence that his price schedule is to be submitted in this format & prices shall be offered for all the items appearing in this price format .	
3	Bidder shall fill up prices of all items and submit to BHEL in separate sealed cover. All prices shall be submitted including of all taxes, (except service tax, which is payable seperately. Please refer, chapter: VII, Part - I of TCC for details)	
4	For payment purpose,final contract value will be as per clause 2.14 of GCC	
5	All the bills will be settled from BHEL, PE&SD, -Hyderabad only.	

Volume-II Price Schedule (Abstract of Cost)

TENDER NO.: HY/PE&SD/E&C/ TNPL//MECH-ELECT-INFRA/001

REV00

PROJECT ::E&C works for Mechanical, Piping, Electrical, C&I, Material handling including site storage facility and site office for 1x30 MW STG & Auxiliaries for TNPL,Mannaparai, Trichy

NAME OF THE BIDDER ::

PRICE OFFER No. & DATE ::

Part A:: Hiring of Porta cabin & site development/fencing

Item No	Description	Unit Price(in Rs.) for 1(one)	Unit Price(in Rs.) for 1 (one) set in words	No. of Sets (ii)	Total Price (in Rs.(iii)=(i)x(ii))	Total Price(iii) in Words (Rs.)
A1	HIRING CHARGES OF ONE NO. PORTA CABIN & ONE CONTAINER TILL CONTRACT PERIOD PAYABLE ON SUPPLY & FIXING OF PORTA CABIN & CONTAINER ALONGWITH ALL FURNITURES, FIXTURES, ETC. FENCING WORK AND SITE DEVELOPMENT			1		
Total price for store shed cum office (A) =A1						

Part B:: Erection, Testing,Insulation, Painting & Commissioning of Mechanical, Piping, Electrical, C& I, Material Handling works

Ref. Sheet	Description	Unit Price(in Rs.) for 1STG UNIT (i)	Unit Price(in Rs.) in words	No. of TB Units (ii)	Total Price (in Rs.(iii)=(i)x(ii))	Total Price(iii) in Words (Rs.)
B1	E&C* Price for Mechanical items			1		
B2	Pipe Fitup and Welding			1		
B3	Radiography of Piping			1		
B4	Piping Erection including Hangers and Support			1		
B5	Thermal Insulation Application			1		
B6	E & C of Electrical and C & I Items			1		
B7	Material Handling and Stacking			1		
Total E&C price for project(B)						

* E&C: Erection & Commissioning

Total Store/ office, E&C+ MH price till complete hand over to customer C= (A) + (B)(In Figures)	Rs
Total Store/ office, E&C & MH Price in Words	Rupees

Notes:

1 Bidders shall quote for all items

2 Total price (C) = (A)+(B) shall be considered for price evaluation on lumpsum basis i.e for finalising the L1 bidder.

Volume-II Price Schedule (B1 ERECTION, TESTING COMMISSIONING AND PAINTING APPLICATION)

TENDER NO.: HY/PE&SD/E&C/ TNPL//MECH-ELECT-INFRA/001

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NAME OF THE BIDDER ::

PRICE OFFER No. & DATE ::

B1 ERECTION, TESTING COMMISSIONING AND PAINTING APPLICATION

S.NO	Description	QUANTITY		TOTAL WT
		NO OF ITEMS	WT	
B1.1	Turbine Assembly	1	70000	70000
B1.2	Gear Box Assembly	1	15200	15200
B1.3	Generator Assembly	1	63300	63300
B1.4	Generator Foundation + Duct items	1 set	7000	6000
B1.5	Generator Air cooler	8	960	7680
B1.6	Lub oil tank	1	5810	5810
B1.7	Overhead Lube Oil tank	1	2340	2340
B1.8	Duplex filters	1	350	350
B1.9	Main / Aux. Lube Oil Pump Assembly	2	1200	2400
B1.10	Emergency Oil Pump Assembly	1	650	650
B1.11	Jacking Oil Pump Assembly	1	600	600
B1.12	Lube Oil Accumulators	1 set	500	500
B1.13	Oil Vapour Extn Fan	2	100	200
B1.14	Lube Oil Centrifuge	1	1000	1000
B1.15	Transfer Oil Pump	1	100	100
B1.16	Drain Oil Tank	1	1150	1150
B1.17	Gov. Oil Console	1	1200	1200
B1.18	Lube Oil Cooler	2	4000	8000
B1.19	Valves	1 Set	11000	11000
B1.20	Gland Steam Condenser	1	1000	1000
B1.21	Structurals	1 Set	5000	5000
B1.22	Flash Tank	1	1150	2300
B1.23	Warm Up vent Silencer	1	500	500
B1.24	LP Steam Vent Silencer	1	1300	1300
B1.25	MP Steam Vent Silencer	1	950	950
Total Weight				208530
Rate / Kg				
Total Amount (in figures)				
Total Amount(in words)				

Notes:

- 1 Bidders shall quote for all items
- 2 The item rates will be used for Billing Purpose .

Volume-II Price Schedule (B2 Pipe fit up and welding)

TENDER NO.: HY/PE&SD/E&C/ TNPL//MECH-ELECT-INFRA/001

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NAME OF THE BIDDER ::

PRICE OFFER No. & DATE ::

B2 Pipe fit up and welding

S.No	PIPE SIZE	MATL.	TYPE OF WELD	No. of Joints	Unit Rate(in Rs.)	Amount (in Rs.)
IBR PIPING-Alloy Steel						
B2.01	0.5" Sch 80	P11	TIG+SMAW	10		
B2.02	1" Sch 80	P11	TIG+SMAW	85		
B2.03	1.5" Sch 80	P11	TIG+SMAW	20		
B2.04	2" Sch 40	P11	TIG+SMAW	45		
B2.05	3" Sch 40	P11	TIG+SMAW	15		
B2.06	4" Sch 40	P11	TIG+SMAW	40		
B2.07	6" Sch 40	P11	TIG+SMAW	45		
B2.08	0.5 " Thk. 7.47	P22	TIG+SMAW	55		
B2.09	1 " Thk. 4.55	P22	TIG+SMAW	14		
B2.10	1 " Thk. 5.08	P22	TIG+SMAW	8		
B2.11	1 " Thk. 6.35	P22	TIG+SMAW	68		
B2.12	1 " Thk. XXS	P22	TIG+SMAW	78		
B2.13	1.5 " Thk. 5.08	P22	TIG+SMAW	2		
B2.14	1.5 " Thk. 5.54	P22	TIG+SMAW	10		
B2.15	1.5 " Thk. 7.14	P22	TIG+SMAW	74		
B2.16	2 " Thk. 12.75	P22	TIG+SMAW	3		
B2.17	2 " Thk. STD	P22	TIG+SMAW	12		
B2.18	3 " Thk. 5.49	P22	TIG+SMAW	27		
B2.19	3 " Thk. 15.24	P22	TIG+SMAW	11		
B2.20	4 " Thk. 7.14	P22	TIG+SMAW	2		
B2.21	4 " Thk. 17.12	P22	TIG+SMAW	4		
B2.22	4 " Thk. STD	P22	TIG+SMAW	4		
B2.23	8 " Thk. 25.4	P22	TIG+SMAW	16		
B2.24	12 " Thk. 7.14	P22	TIG+SMAW	6		
B2.25	12 " Thk. 12.75	P22	TIG+SMAW	2		
B2.26	12 " Thk. 15.24	P22	TIG+SMAW	2		
B2.27	12 " Thk. 35	P22	TIG+SMAW	54		
B2.28	12 " Thk. XXS	P22	TIG+SMAW	32		
IBR PIPING-Carbon Steel						
B2.29	0.5" Sch 80	A106GRB	TIG+SMAW	124		
B2.30	1" Sch 80	A106GRB	TIG+SMAW	371		
B2.31	1.5" Sch 80	A106GRB	TIG+SMAW	68		
B2.32	3" Sch 160	A106GRB	TIG+SMAW	36		
B2.33	4" Sch 40	A106GRB	TIG+SMAW	7		
B2.34	6" Sch 40	A106GRB	TIG+SMAW	34		
B2.35	8" Sch 20	A106GRB	TIG+SMAW	50		
B2.36	8" Sch STD	A106GRB	TIG+SMAW	11		
B2.37	8" Sch 80	A106GRB	TIG+SMAW	20		
B2.38	10" Sch 40	A106GRB	TIG+SMAW	37		
B2.39	12" Sch 20	A106GRB	TIG+SMAW	32		
B2.40	24" Sch 20	A106GRB	TIG+SMAW	24		
NON-IBR PIPING						
B2.41	0.25" Sch 80	A106GRB	TIG+SMAW	15		
B2.42	0.5" Sch 80	A106GRB	TIG+SMAW	149		
B2.43	0.75" Sch 80	A106GRB	TIG+SMAW	35		
B2.44	1" Sch 80	A106GRB	TIG+SMAW	255		
B2.45	1.5" Sch 80	A106GRB	TIG+SMAW	63		
B2.46	2" Sch 40	A106GRB	TIG+SMAW	142		
B2.47	3" Sch 40	A106GRB	TIG+SMAW	114		
B2.48	4" Sch 40	A106GRB	TIG+SMAW	110		
B2.49	6" Sch 40	A106GRB	TIG+SMAW	311		
B2.50	6" Sch 80	A106GRB	TIG+SMAW	3		
B2.51	8" Sch 20	A106GRB	TIG+SMAW	30		
B2.52	8" Sch 80	A106GRB	TIG+SMAW	4		
B2.53	10" Sch 20	A106GRB	TIG+SMAW	50		
B2.54	10" Sch 30	A106GRB	TIG+SMAW	6		
B2.55	10" Sch 40	A106GRB	TIG+SMAW	8		
B2.56	12" Sch 20	A106GRB	TIG+SMAW	20		
B2.57	20" Sch 30	A106GRB	TIG+SMAW	1		
B2.58	4" Sch 10S	SS321	TIG	115		
B2.59	3" Sch 10S	SS321	TIG	60		
B2.60	2" Sch 20S	SS321	TIG	90		
B2.61	1.5" Sch 40S	SS321	TIG	35		
B2.62	1" Sch 40S	SS321	TIG	315		
B2.63	0.75" Sch 40S	SS321	TIG	50		
B2.64	1/2" Sch 40S	SS321	TIG	103		
B2.65	0.25" Sch 40S	SS321	TIG	25		
Total Amount (in figures)						
Total Amount (in words)						

Notes:

- 1 Bidders shall quote for all items
- 2 The item rates will be used for Billing Purpose .

Volume-II Price Schedule (B3 Radiography of piping)

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NAME OF THE BIDDER ::

PRICE OFFER No. & DATE ::

B3 Radiography of piping

S.No	PIPE SIZE	MATL.	TYPE OF WELD	No. of Joints	Unit Rate(in Rs.)	Amount (in Rs.)
IBR PIPING-Alloy Steel						
B3.01	0.5" Sch 80	P11	TIG+SMAW	10		
B3.02	1" Sch 80	P11	TIG+SMAW	85		
B3.03	1.5" Sch 80	P11	TIG+SMAW	20		
B3.04	2" Sch 40	P11	TIG+SMAW	45		
B3.05	3" Sch 40	P11	TIG+SMAW	15		
B3.06	4" Sch 40	P11	TIG+SMAW	40		
B3.07	6" Sch 40	P11	TIG+SMAW	45		
B3.08	0.5 " Thk. 7.47	P22	TIG+SMAW	55		
B3.09	1 " Thk. 4.55	P22	TIG+SMAW	14		
B3.10	1 " Thk. 5.08	P22	TIG+SMAW	8		
B3.11	1 " Thk. 6.35	P22	TIG+SMAW	68		
B3.12	1 " Thk. XXS	P22	TIG+SMAW	74		
B3.13	1.5 " Thk. 5.08	P22	TIG+SMAW	2		
B3.14	1.5 " Thk. 5.54	P22	TIG+SMAW	2		
B3.15	1.5 " Thk. 7.14	P22	TIG+SMAW	74		
B3.16	2 " Thk. 12.75	P22	TIG+SMAW	3		
B3.17	2 " Thk. STD	P22	TIG+SMAW	4		
B3.18	3 " Thk. 5.49	P22	TIG+SMAW	27		
B3.19	3 " Thk. 15.24	P22	TIG+SMAW	11		
B3.20	4 " Thk. 7.14	P22	TIG+SMAW	2		
B3.21	4 " Thk. 17.12	P22	TIG+SMAW	4		
B3.22	4 " Thk. STD	P22	TIG+SMAW	4		
B3.23	8 " Thk. 25.4	P22	TIG+SMAW	16		
B3.24	12 " Thk. 7.14	P22	TIG+SMAW	4		
B3.25	12 " Thk. 12.75	P22	TIG+SMAW	2		
B3.26	12 " Thk. 15.24	P22	TIG+SMAW	2		
B3.27	12 " Thk. 35	P22	TIG+SMAW	54		
B3.28	12 " Thk. XXS	P22	TIG+SMAW	32		
IBR PIPING-Carbon Steel						
B3.29	0.5" Sch 80	A106GRB	TIG+SMAW	13		
B3.30	1" Sch 80	A106GRB	TIG+SMAW	38		
B3.31	1.5" Sch 80	A106GRB	TIG+SMAW	7		
B3.32	3" Sch 160	A106GRB	TIG+SMAW	4		
B3.33	4" Sch 40	A106GRB	TIG+SMAW	2		
B3.34	6" Sch 40	A106GRB	TIG+SMAW	4		
B3.35	8" Sch 20	A106GRB	TIG+SMAW	5		
B3.36	8" Sch STD	A106GRB	TIG+SMAW	2		
B3.37	8" Sch 80	A106GRB	TIG+SMAW	2		
B3.38	10" Sch 40	A106GRB	TIG+SMAW	4		
B3.39	12" Sch 20	A106GRB	TIG+SMAW	3		
B3.40	24" Sch 20	A106GRB	TIG+SMAW	3		
NON-IBR PIPING						
B3.41	0.25" Sch 80	A106GRB	TIG+SMAW	2		
B3.42	0.5" Sch 80	A106GRB	TIG+SMAW	15		
B3.43	0.75" Sch 80	A106GRB	TIG+SMAW	4		
B3.44	1" Sch 80	A106GRB	TIG+SMAW	26		
B3.45	1.5" Sch 80	A106GRB	TIG+SMAW	7		
B3.46	2" Sch 40	A106GRB	TIG+SMAW	15		
B3.47	3" Sch 40	A106GRB	TIG+SMAW	12		
B3.48	4" Sch 40	A106GRB	TIG+SMAW	11		
B3.49	6" Sch 40	A106GRB	TIG+SMAW	32		
B3.50	6" Sch 80	A106GRB	TIG+SMAW	2		
B3.51	8" Sch 20	A106GRB	TIG+SMAW	3		
B3.52	8" Sch 80	A106GRB	TIG+SMAW	2		
B3.53	10" Sch 20	A106GRB	TIG+SMAW	5		
B3.54	10" Sch 30	A106GRB	TIG+SMAW	2		
B3.55	10" Sch 40	A106GRB	TIG+SMAW	2		

S.No	PIPE SIZE	MATL.	TYPE OF WELD	No. of Joints	Unit Rate(in Rs.)	Amount (in Rs.)
B3.56	12" Sch 20	A106GRB	TIG+SMAW	2		
B3.57	20" Sch 30	A106GRB	TIG+SMAW	1		
B3.58	4" Sch 10S	SS321	TIG	12		
B3.59	3" Sch 10S	SS321	TIG	6		
B3.60	2" Sch 20S	SS321	TIG	9		
B3.61	1.5" Sch 40S	SS321	TIG	4		
B3.62	1" Sch 40S	SS321	TIG	32		
B3.63	0.75" Sch 40S	SS321	TIG	5		
B3.64	1/2" Sch 40S	SS321	TIG	10		
B3.65	0.25" Sch 40S	SS321	TIG	3		
Total Amount (in figures)						
Total Amount (in words)						

Notes:

- 1 Bidders shall quote for all items
- 2 The item rates will be used for Billing Purpose .

Volume-II Price Schedule (B4 PIPING ERECTION INCLUDING SPRING HANGERS, SUPPORTS, HYDRAULIC TESTING AND PAINTING)

TENDER NO.: HY/PE&SD/E&C/ TNPL//MECH-ELECT-INFRA/001

REV00

PROJECT ::E&C works for Mechanical, Piping, Electrical, C&I, Material handling including site storage facility and site office for 1x30 MW STG & Auxiliaries for TNPL,Mannaparai, Trichy

NAME OF THE BIDDER ::

PRICE OFFER No. & DATE ::

B4. PIPING ERECTION INCLUDING SPRING HANGERS, SUPPORTS, HYDRAULIC TESTING AND PAINTING

S.No	PIPE SIZE	MATL.	Length	Unit Rate(in Rs.)	Amount(in Rs.)
IBR PIPING-Alloy Steel					
B4.01	0.5" Sch 80	P11	6		
B4.02	1" Sch 80	P11	66		
B4.03	1.5" Sch 80	P11	12		
B4.04	2" Sch 40	P11	36		
B4.05	3" Sch 40	P11	12		
B4.06	4" Sch 40	P11	33		
B4.07	6" Sch 40	P11	30		
B4.08	0.5 " Thk. 7.47	P22	18		
B4.09	1 " Thk. 4.55	P22	6		
B4.10	1 " Thk. 6.35	P22	97		
B4.11	1.5 " Thk. 5.08	P22	12		
B4.12	1.5 " Thk. 5.54	P22	12		
B4.13	1.5 " Thk. 7.14	P22	72		
B4.14	2 " Thk. 12.75	P22	18		
B4.15	3 " Thk. 5.49	P22	36		
B4.16	3 " Thk. 15.24	P22	6		
B4.17	4 " Thk. 17.12	P22	0.6		
B4.18	8 " Thk. 25.4	P22	12		
B4.19	12 " Thk. 7.14	P22	96		
IBR PIPING-Carbon Steel					
B4.20	0.5" Sch 80	A106GRB	42		
B4.21	1" Sch 80	A106GRB	306		
B4.22	1.5" Sch 80	A106GRB	48		
B4.23	3" Sch 160	A106GRB	54		
B4.24	4" Sch 40	A106GRB	7		
B4.25	6" Sch 40	A106GRB	24		
B4.26	8" Sch 20	A106GRB	54		
B4.27	8" Sch STD	A106GRB	18		
B4.28	10" Sch 40	A106GRB	42		
B4.29	12" Sch 20	A106GRB	42		
B4.30	24" Sch 20	A106GRB	36		
NON-IBR PIPING					
B4.31	0.5" Sch 80	A106GRB	63		
B4.32	0.75" Sch 80	A106GRB	30		
B4.33	1" Sch 80	A106GRB	120		
B4.34	1.5" Sch 80	A106GRB	44		
B4.35	2" Sch 40	A106GRB	87		
B4.36	3" Sch 40	A106GRB	72		
B4.37	4" Sch 40	A106GRB	72		
B4.38	6" Sch 40	A106GRB	270		
B4.39	6" Sch 80	A106GRB	6		
B4.40	8" Sch 20	A106GRB	18		
B4.41	8" Sch 80	A106GRB	12		
B4.42	10" Sch 20	A106GRB	60		
B4.43	10" Sch 30	A106GRB	18		
B4.44	12" Sch 20	A106GRB	18		
B4.45	20" Sch 30	A106GRB	6		
B4.46	4" Sch 10S	SS321	69		
B4.47	3" Sch 10S	SS321	36		
B4.48	2" Sch 20S	SS321	51		
B4.49	1.5" Sch 40S	SS321	27		
B4.50	1" Sch 40S	SS321	198		
B4.51	0.75" Sch 40S	SS321	30		
B4.52	1/2" Sch 40S	SS321	54		
B4.53	0.25" Sch 40S	SS321	66		
Total Amount(in figures)					
Total Amount(in words)					

Notes:

- 1 Bidders shall quote for all items
- 2 The item rates will be used for Billing Purpose .

Volume-II Price Schedule (B5. Thermal Insulation Application)

TENDER NO.: HY/PE&SD/E&C/ TNPL//MECH-ELECT-INFRA/001

REV00

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NAME OF THE BIDDER ::

PRICE OFFER No. & DATE ::

B5. Thermal Insulation Application

Sl. No.	Pipe OD in mm	Area(Sq.m)	Unit Rate(in Rs.)	Amount(in Rs.)
B5.01	30mm thick Mattress. (Piping)	11.14		
B5.02	40mm thick Mattress. (Piping)	72.614		
B5.03	45mm thick Mattress. (Piping)	464.08		
B5.04	50mm thick Mattress.(Piping)	246.45		
B5.05	60mm thick Mattress.(Piping)	11.966		
B5.06	65mm thick Mattress.(Piping)	13.867		
B5.07	70mm thick Mattress.(Piping)	147.21		
B5.08	75mm thick Mattress.(Piping)	347.44		
B5.09	90mm thick Mattress.(Piping)	23.93		
B5.10	100mm thick Mattress.(Piping)	14.96		
B5.11	115mm thick Mattress.(Piping)	14.188		
B5.12	125mm thick Mattress.(Piping)	16.33		
B5.13	150mm thick Mattress.(Piping)	18.76		
B5.14	HE Equipment (75 MM THICKNESS)	17		
Total Amount(in figures)				
Total Amount(in words)				

Notes:

- 1 Bidders shall quote for all items
- 2 The item rates will be used for Billing Purpose .

Volume-II Price Schedule (B6. Electrical, Control & Instrumentation Items)

TENDER NO.: HY/PE&SD/E&C/ TNPL//MECH-ELECT-INFRA/001

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NAME OF THE BIDDER ::

PRICE OFFER No. & DATE ::

B6. Electrical, Control & Instrumentation Items

Sl.no	Description of items	UOM	Quantity	Unit Rate(in Rs.)	Amount(in Rs.)
ELECTRICAL ITEMS					
SECTION-E1A: CABLE TRAYS AND ACCESSORIES					
E1A.1	PERFORATED TYPE 50 MM (W)x 50 (H) mm	MTRS	1450		
E1A.2	PERFORATED TYPE 150 MM (W)x 75 (H) mm	MTRS	750		
SECTION-E2A: LT POWER/ CONTROL CABLES					
E2A.1	5Cx2.5 SQ MM	MTRS	2000		
E2A.2	10CX2.5 SQMM	MTRS	1000		
E2A.3	12C X 2.5 SQ MM	MTRS	1000		
E2A.4	3CX4 SQMM	MTRS	500		
E2A.5	3CX6 SQMM	MTRS	300		
SECTION-E3A: EARTHING MATERIALS					
E3A.1	75x10 MM GI STRIP	MTRS	300		
E3A.2	35x6 MM GI STRIP	MTRS	900		
E3A.3	25x6 MM GI STRIP	MTRS	600		
E3A.4	8 SWG GI WIRE	MTRS	1500		
E3A.5	16SWG GI WIRE	MTRS	1000		
E3A.6	1Cx70SQMM EARTHING CABLE	MTRS	500		
SECTION-E4A: JUNCTION BOXES					
E4A.1	INSTRUMENT JUNCTION BOX (300X150X350)MM,WEIGHT 15KGS EACH	NOS.	21		
E4A.2	PROXIMETER HOUSING (150X100X50)MM, WEIGHT 5KGS EACH	NOS.	11		
E4A.3	LOCAL CONTROL STATION (300 x 150 x 400)MM,WEIGHT 10KGS EACH	NOS.	20		
SECTION-E5A: STRUCTURAL STEEL					
E5A.1	STRUCTURAL STEEL FABRICATION & ERECTION(M S ANGLE ,CHANNEL,PLATE ETC.)	KG	3100		
E5A.2	2" CS PIPE FOR TRANSMITTER & JB MOUNTING	MTRS	150		
SECTION-E6A:GENERATOR CONTROL & PROTECTION PANELS					
E6A.1	GENERATOR CONTROL AND RELAY PANELS(1000 X1000 X2200) APPX WEIGHT 600KGS	NOS.	3		
E6A.2	LAVT CUBICLE(2250 X 2100 X 2400)APPX WEIGHT 2400KGS	NOS.	1		
E6A.3	NGR CUBICLE(1200X1200X1800) APPX WEIGHT 2000 KGS	NOS.	1		
E6A.4	DAVR PANEL (1200x1150x2295) APPX WEIGHT 1200 KGS	NOS.	1		
E6A.5	11kV, 3000 AMPS, SP BUS DUCT, LOOSE ITEMS LIKE SILICAGEL BREATHER, GI CHANNELS SUPPORT AND ASSOCIATED ACCESSORIES TYPICAL SECTION 20000X1350X450 MM APPX WEIGHT 3500 KGS.	SET	1		
SECTION-E7A : STARTER PANEL/ BOXES/ POWER DISTRIBUTION BOX/ MARSHALLING BOXES					
E7A.1	DC MOTOR STARTER PANEL INCLUDING RESISTANCE BOX	NOS.	1		
C&I Items					
SECTION-C1A:CONDUITS/ PIPES/ TUBES					
C1A.1	AIR DISTRIBUTION POT	NOS.	12		
C1A.2	IM PULSE PIPE AS 21.3X3.73	MTRS	300		
C1A.3	IM PULSE PIPE CS 21.3x3.73mm SCH80	MTRS	132		
C1A.4	IM PULSE PIPE CS 21.3x4.78mm SCH160	MTRS	78		
C1A.5	IM PULSE PIPE SS 21.3X2.8	MTRS	30		
C1A.6	IM PULSE PIPE SS 12.7X2.1MM THK	MTRS	930		
C1A.7	IM PULSE PIPE SS 6X1.5MM THK	MTRS	84		
C1A.8	METAL WITH PVC SHEATHED CONDUITS	MTRS	200		
SECTION-C2A: SIGNAL & INSTRUMENT CABLES					
C2A.1	1P x 1.5 SQ MM	MTRS	2300		
C2A.2	1T x 1.5 SQ MM	MTRS	100		
C2A.3	2TX1.5 SQMM	MTRS	2200		
C2A.4	10TX1.5 SQMM	MTRS	500		
C2A.5	2P x 0.5 SQMM CR-AL EXTENTION CABLE	MTRS	150		

Sl.no	Description of items	UOM	Quantity	Unit Rate(in Rs.)	Amount(in Rs.)
C2A.6	3Cx1.5 SQMM CABLE	MTRS	1200		
SECTION-C3A: FIELD INSTRUMENTS					
C3A.1	DIFFERENTIAL PRESSURE TRANSMITTER	NOS.	8		
C3A.2	PRESSURE TRANSMITTER	NOS.	26		
C3A.3	TEMPERATURE TRANSMITTER	NOS.	46		
C3A.4	LEVEL TRANSMITTERS	NOS.	1		
C3A.5	LEVEL GAUGES	NOS.	4		
C3A.6	LEVEL SWITCHES	NOS.	6		
C3A.7	PRESSURE GAUGES	NOS.	58		
C3A.8	DIFFERENTIAL PRESSURE GAUGES	NOS.	1		
C3A.9	TEMPERATURE GAUGES	NOS.	34		
C3A.10	PRESSURE SWITCH	NOS.	29		
C3A.11	TEMPERATURE ELEMENT (THERMOCOUPLE)	NOS.	6		
C3A.12	TEMPERATURE ELEMENT (RTD)	NOS.	22		
C3A.13	POSITION TRANSMITTER	NOS.	3		
C3A.14	SPEED PROBE	NOS.	2		
C3A.15	VIBRATION, AXIAL AND SPEED PROBE	NOS.	19		
C3A.16	LIMIT SWITCHES	NOS.	6		
C3A.17	SOLENOID VALVES	NOS.	6		
C3A.18	PROXIMETERS	NOS.	19		
C3A.19	VIBRATION MONITOR	NOS.	1		
C3A.20	WOODWARD GOVERNOR	NOS.	1		
SECTION-C4A: CONTROL PANELS					
C4A.1	TURBINE CONTROL PANEL(1000x800x2100)Appx. Weight 500kgs each	NOS.	1		
C4A.2	TURBINE LOCAL GAUGE BOARD(1700x1200x500) Appx weight 400kgs	NOS.	2		
TOTAL PRICE(IN FIGURES)					
TOTAL PRICE(IN WORDS)					

Notes:

- 1 Bidders shall quote for all items
- 2 The item rates will be used for Billing Purpose .

Volume-II Price Schedule (B7. MATERIAL UNLOADING AND STACKING)	
TENDER NO.: HY/PE&SD/E&C/ TNPL//MECH-ELECT-INFRA/001	REV00
PROJECT :: E&C works for Mechanical, Piping, Electrical, C&I, Material handling including site storage facility and site office for 1x30 MW STG & Auxiliaries for TNPL,Mannaparai, Trichy	
NAME OF THE BIDDER ::	PRICE OFFER No. & DATE ::

B7. MATERIAL UNLOADING AND STACKING

Sl no	Description	Weight (Tons)	Unit Rate(in Rs.)	Amount (in Rs.)
B7	Material Handling and Stacking	439.63		
Total(in figures)				
Total(in words)				

Notes:

- 1 Bidders shall quote for all items
- 2 The item rates will be used for Billing Purpose .