

BOQ FOR CONTROL VALVE PACKAGE  
Project-1 x 660 MW BHUSAWAL TPS

Price Bid Format

Enquiry No.- PE/PG/BHU/E-6682/2021 Dtd. 06.07.2021

Note-Bidders to quote value in highlighted box only.

VENDOR												
S. No.	Tag No.	Item Description	HSN/SAC CODE	Quantity	Unit	Unit Ex-Works Price (Rs.)	Total Ex-Works Price (Rs.)	Freight % of Total Ex-works Price (in %)	Freight Charges (Rs.)	Rate of GST (%)	GST Amount ON Total Ex-works Price & Freight (Rs.)	Total FOR Site Price (Rs.)
A		<b>CONTROL VALVES COMPLETE WITH POSITIONER AND ALL ACCESSORIES MOUNTED,TUBED AND TERMINATED ON JB</b>										
1	ASV-8	D/A Pegging from Aux. Steam Header	8481000	1	NOS		0		0		0	0
2	CRHV-6	D/A Pegging from CRH Line	8481000	1	NOS		0		0		0	0
3	CDV-22	Main Condensate Control	8481000	1	NOS		0		0		0	0
4	CDV-25	Main Condensate Control	8481000	1	NOS		0		0		0	0
5	CDV-39	GSC & CEP min. flow recirculation	8481000	1	NOS		0		0		0	0
6	CDV-43	Excess Dump Control	8481000	1	NOS		0		0		0	0
7	CDV-72	Condensate for Valve Gland Sealing	8481000	1	NOS		0		0		0	0
8	DRV-8	HPH-7 Drain to HPH-6	8481	1	NOS		0		0		0	0
9	DRV-11	HPH-7 ALT Drain to Flash tank B	8481	1	NOS		0		0		0	0
10	DRV-15	HPH-6 Drain to Deaerator	8481000	1	NOS		0		0		0	0
11	DRV-18	HPH-6 Drain to Flash tank-A	8481000	1	NOS		0		0		0	0
12	DRV-28	LPH-3 Drain to LPH-2	8481000	1	NOS		0		0		0	0
13	DRV-31	LPH-3 Drain to Flash tank-B	8481000	1	NOS		0		0		0	0
14	DRV-34	LPH-2 Drain to LPH-1	8481000	1	NOS		0		0		0	0
15	DRV-37	LPH-2 Drain to Flash Tank-B	84819090	1	NOS		0		0		0	0
16	DRV-48	Deaerator overflow to Flash tank-B	8481000	1	NOS		0		0		0	0
17	DRV-2	HPH-8 drain to HPH-7	8481000	1	NOS		0		0		0	0
18	DRV-5	HPH-8 alternate drain to Flash Tank-A	8481000	1	NOS		0		0		0	0
19	DRV-65	LPH-4 Drain to LPH-3	8481000	1	NOS		0		0		0	0
20	DRV-68	LPH-4 Alternate drain to Flash Tank-B	8481000	1	NOS		0		0		0	0

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21	DMV-50	DM MU to Hotwell High Capacity	8481000	1	NOS		0		0		0	0
22	DMV-47	DM MU to Hotwell Low Capacity	8481000	1	NOS		0		0		0	0
23	FDV-14	Low Load Feed Control	84819090	1	NOS		0		0		0	0
24	ASV-2	Aux. Steam to BFPTs	8481000	1	NOS		0		0		0	0
25	CRHV-2	CRH Steam to BFPTs	8481000	1	NOS		0		0		0	0
B		<b>1/4 " SS TUBING( 12 METER FOR EACH TAG)</b>	8481000	300	MTR		0		0		0	0
C		<b>SS FITTINGS- FOR EACH TAG (1 Lot)</b>	84819090									
1		SS FITTINGS for connection to Air Filter Regulator- FOR EACH TAG	84819090	1	LOT		0		0		0	0
2		SS FITTINGS for connection to Air Lock Relay- FOR EACH TAG	84819090	1	LOT		0		0		0	0
3		SS FITTINGS for connection to IA Header Isolation Valve - FOR EACH TAG	84819090	1	LOT		0		0		0	0
4		SS EQUAL TEE - FOR EACH TAG	84819090	1	LOT		0		0		0	0
5		SS 1/2 " NPT(M) X 1/4 " OD TUBE CONNECTOR- FOR EACH TAG	84819090	1	LOT		0		0		0	0
D		<b>VALVE DIAGNOSTIC AND CONFIGURATION SOFTWARE (FOR ALL TAGS)</b>	8481	1	LOT		0		0		0	0
E		<b>HAND HELD CALIBRATOR</b>	84819090	1	NOS.		0		0		0	0
F		<b>CV TEST CHARGES ( Applicable for each Tag)</b>	998346									
1	ASV-8	D/A Pegging from Aux. Steam Header	998346	1	NOS.		0				0	0
2	CRHV-6	D/A Pegging from CRH Line	998346	1	NOS.		0				0	0
3	CDV-22	Main Condensate Control	998346	1	NOS.		0				0	0
4	CDV-25	Main Condensate Control	998346	1	NOS.		0				0	0
5	CDV-39	GSC & CEP min. flow recirculation	998346	1	NOS.		0				0	0
6	CDV-43	Excess Dump Control	998346	1	NOS.		0				0	0
7	CDV-72	Condensate for Valve Gland Sealing	998346	1	NOS.		0				0	0
8	DRV-8	HPH-7 Drain to HPH-6	998346	1	NOS.		0				0	0
9	DRV-11	HPH-7 ALT Drain to Flash tank B	998346	1	NOS.		0				0	0

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10	DRV-15	HPH-6 Drain to Deaerator	998346	1	NOS.		0				0	0
11	DRV-18	HPH-6 Drain to Flash tank-A	998346	1	NOS.		0				0	0
12	DRV-28	LPH-3 Drain to LPH-2	998346	1	NOS.		0				0	0
13	DRV-31	LPH-3 Drain to Flash tank-B	998346	1	NOS.		0				0	0
14	DRV-34	LPH-2 Drain to LPH-1	998346	1	NOS.		0				0	0
15	DRV-37	LPH-2 Drain to Flash Tank-B	998346	1	NOS.		0				0	0
16	DRV-48	Deaerator overflow to Flash tank-B	998346	1	NOS.		0				0	0
17	DRV-2	HPH-8 drain to HPH-7	998346	1	NOS.		0				0	0
18	DRV-5	HPH-8 alternate drain to Flash Tank-A	998346	1	NOS.		0				0	0
19	DRV-65	LPH-4 Drain to LPH-3	998346	1	NOS.		0				0	0
20	DRV-68	LPH-4 Alternate drain to Flash Tank-B	998346	1	NOS.		0				0	0
21	DMV-50	DM MU to Hotwell High Capacity	998346	1	NOS.		0				0	0
22	DMV-47	DM MU to Hotwell Low Capacity	998346	1	NOS.		0				0	0
23	FDV-14	Low Load Feed Control	998346	1	NOS.		0				0	0
24	ASV-2	Aux. Steam to BFPTs	998346	1	NOS.		0				0	0
25	CRHV-2	CRH Steam to BFPTs	998346	1	NOS.		0				0	0
<b>G</b>		<b>COMMISSIONING SPARES (1 SET)</b>										
1		Gaskets	8481	One(1) set with each control valve tag	Refer qty Colomn				0		0	0
2		Gland Packing	8481	One(1) set with each control valve tag	Refer qty Colomn				0		0	0
<b>H</b>		<b>MANDATORY SPARES</b>	8481000									
<b>H1</b>		<b>MANDATORY SPARES FOR NON CRITICAL CONTROL VALVES (EXCEPT FDV 14) (1 SETS)</b>	8481000									
1		Complete actuator for each type and model	8481000	1 complete actuator of each type/size/model or min 10% of each type/size whichever is more	Refer qty Colomn				0		0	0
2		Diaphragms, O' rings, seals etc. of all types make etc.	8481000	2 nos for each control valve.	Refer qty Colomn				0		0	0
3		Gasket	8481000	2 nos for each type/size of control valve.	Refer qty Colomn				0		0	0
4		Lubricant	8481000	100 % qty of lubricants for gaskets for each control valve on one year consumption basis	Refer qty Colomn				0		0	0
5		Limit Switches	8481000	2 set for each control valve.	Refer qty Colomn				0		0	0

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6		Volume Booster.	8481000	2 nos. of each type and size	Refer qty Colomn				0		0	0
7		Stem Packing	8481000	1 set for each control valve.	Refer qty Colomn				0		0	0
8		Solenoid valves	8481000	10% or 2 nos. of each type whichever is more	Refer qty Colomn				0		0	0
9		Positioner units/smart positioners (complete unit)& accessories (link assembly)	8481000	10% or 2 no. of each type whichever is more	Refer qty Colomn				0		0	0
10		Pneumatic air-filter/Regulator	8481000	2 Nos. of each type, make rating etc.	Refer qty Colomn				0		0	0
11		Air lock relays	8481000	4 nos. of each type	Refer qty Colomn				0		0	0
12		Valve trim (including cage, plug, stem, seat rings, guide bushings, stem lock pins, packing, retaining rings etc.)	8481000	1 set for each control valve.	Refer qty Colomn				0		0	0
H2		<b>MANDATORY SPARES FOR CRITICAL CONTROL VALVE-FDV14 (1 SETS)</b>	8481000									0
1		Complete actuator for each type and model	8481000	1 complete actuator of each type/size/model or min 10% of each type/size whichever is more	Refer qty Colomn				0		0	0
2		Diaphragms, O' rings, seals etc. of all types make etc.	8481000	2 nos for each control valve.	Refer qty Colomn				0		0	0
3		Soft good Kit valve	8481000	1 set for each control valve.	Refer qty Colomn				0		0	0
4		Actuator soft goods kit	8481000	1 set for each control valve.	Refer qty Colomn				0		0	0
5		Metal seat	8481000	1 nos	Refer qty Colomn				0		0	0
6		Volume Booster.	8481000	2 nos. of each type and size	Refer qty Colomn				0		0	0
7		Seat Ring	8481000	1 nos	Refer qty Colomn				0		0	0
8		Solenoid valves	8481000	10% or 2 nos. of each type whichever is more	Refer qty Colomn				0		0	0
9		Spindle	8481000	1 nos	Refer qty Colomn				0		0	0

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10		Positioner units/smart positioners (complete unit)& accessories (link assembly)	8481000	10% or 2 no. of each type whichever is more	Refer qty Column				0		0	0
11		Pneumatic air-filter/Regulator	8481000	2 Nos. of each type, make rating etc.	Refer qty Column				0		0	0
12		Air lock relays	8481000	4 nos. of each type	Refer qty Column				0		0	0
13		Valve trim (including cage, plug, stem, seat rings, guide bushings, stem lock pins, packing, retaining rings etc.)	8481000	1 set for each control valve.	Refer qty Column				0		0	0
<b>I GRAND TOTAL (RS.)(A+B+C+D+E+F+G+H)</b>							0		0		0	0

**NOTES:-**

- Wherever quantity has been specified as percentage (%), the quantity of mandatory spares to be provided by contractor shall be the specified percentage (%)of the total population of the plant. In case the quantity so calculated happens to be a fraction, the same shall be rounded off to next higher whole number.
- Wherever the quantities have been indicated for each type, size, thickness, material, radius, range etc., these shall cover all the items supplied and installed and the breakup for these shall be furnished in the bid. In case spares indicated in the list are not applicable to the particular design offered by the bidder, the bidder should offer spares applicable to offered design with quantities generally in line with the approach followed in the above list.