

Annexure - IV

BOM - E-513/2016 dt. 18/03/16 - INDIAN BIDDER 1X900 MW Dr. NTTPS VIJAYAWADA Butterfly Valves Steam Services														SPECIFICATION NO.: PE-TS-19-100-M016 SECTION: II REV NO.: 00 SHEET 1 OF 1					
SL NO.	TAG NOS	TYPE OF VALVE	SIZE mm (NB)	OPERATION	DESIGN	SERVICE	RATING, DESIGN & TESTING CODE	BODY & DISC MATERIAL	END CONN	SPECIAL FEATURES	OD (MM)	THK (MM)	ITEM DESCRIPTION	Qty	UNIT EX WORKS PRICE (Rs.)	TOTAL EX WORKS PRICES (Rs.)	EXCISE DUTY @ .% FOR SELF MANUFACTURED ITEMS (Rs.)	EST. @ .% AGAINST FOR CEDED OR VAT @ .% AS APPLICABLE (Rs.)	FREIGHT @ .% OF EX WORKS INCLUDING SERVICE TAX (Rs.)
1	EXV-31, EXV-32 (1 EACH)	BFV 2000	MO	Full vacuum and 2 kg/sq cm	100	BEP DRIVE TURBINE EXHAUST T LINE	CL 75 (MINIMUM) CCS (ASTM A216 GR B16.5 WCB) 2010	ISW AS PER ASME B16.5	ISW AS	SG, MO, OT = 50 - 90 SEC. SHAFT AXIS ORIENTATION HORIZONTAL/ VERTICAL SUITABLE FOR BOTH DIRECTIONS, ELECTRIC ACTUATOR WITH INTEGRAL STARTER.	2032	16	MAIN VALVES QTY WITHOUT COMMISSIONING SPARES NOS.	2					
COMMISSIONING SPARES																			
													GLAND PACKING (VALVES) (SETS)	2					
													BOTTOM GASKET (VALVES) (SETS)	2					
													O RING AND SEALS FOR ELECTRIC ACTUATORS (SETS)	2					
													DISC SEAL (SETS)	2					
TOTAL																			
Mandatory Spares														UNIT PRICE TAKE AS MAIN VALVES WITHOUT COMMISSIONING SPARES					
COMPLETE VALVE ASSEMBLY WITH ACTUATOR & GEAR BOX WITHOUT COMMISSIONING SPARES (As per Sino. IV (3.1) & ID No. 779) (No.)														1					
COMPLETE ACTUATOR (As per Sino. 13.1 & ID No. 2388) (No.)														1					
LIMIT SWITCH (As per Sino. 13.2 & ID No. 2389) (No.)														3					
TORQUE SWITCH (As per Sino. 13.3 & ID No. 2390) (No.)														3					
AUXILIARY CONTACT (As per Sino. 13.4 & ID No. 2391) (No.)														1					
COMPLETE MOTOR USED IN ACTUATOR (As per Sino. 13.5 & ID No. 2392) (No.)														1					
COMPLETE SEAL KIT (As per Sino. 13.6 & ID No. 2393) (SET)														1					
COMPLETE O RING SET (As per Sino. 13.7 & ID No. 2394) (SETS)														1					
ELECTRONIC CARD (As per Sino. 13.8 & ID No. 2395) (No.)														1					
TOTAL																			
GRAND TOTAL (Main Valves without commissioning spares, Mandatory Spares & Commissioning Spares)																			

ABBREVIATIONS:- BFW- BUTT WELDED, CCS - CAST CARBON STEEL, SG - SEALED GLAND, MO - MOTORISED ELECTRIC ACTUATOR, OT - OPENING/CLOSING TIME OF VALVE WITH ELECTRIC ACTUATOR OPERATION BR - INDIAN BOILER REGULATION 1. Valve POD, Gear box POD & Actuator POD test, if already carried out by bidder for similar model/ type size/ rating for any BHEL/HTC/REPUTED CUSTOMER project within the last 5 years from the date of bid opening of this project, i.e. 15/12/2015, shall be considered applicable for this project, if found satisfactory by BHEL/ CUSTOMER. 2. Valve POD, Gear box POD & Actuator POD test, if required, as per technical specification & AWWA C516, then the charges for the same shall deemed to be included in the unit quoted prices of main valves. Bidder shall not indicate these charges as a separate head in the price bids. 3. Main valves shall BE EXCLUSIVE of cost of Commissioning Spares prices 4. Bidder is required to quote unit price of each item under commissioning spares separately & individually i.e. prices of all commissioning spares shall not be clubbed/ included in the unit price of Main valves. 5. Commissioning spares -> One set each of Bottom/ Cover Gasket with O Rings & Seals, Gland Packing with O ring & seals in Gland packing area and actuator, O rings and seal as applicable. 6. All the mandatory spares are to be quoted individually & separately.																			
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ABBREVIATIONS-
 BW: BUTT WELDED, CCS - CAST CARBON STEEL, SG - SEALED GLAND, MO - MOTORIZED ELECTRIC ACTUATOR, OT - OPENING/CLOSING TIME OF VALVE WITH ELECTRIC ACTUATOR OPERATION IER - INDIAN BOILER REGULATION
 1. Valve POD : Gear box POD & Actuator POD test, if already carried out by bidder for similar model type/size rating for any BHEL/NTTP/REFUTED CUSTOMER project within the last 5 years from the date of bid opening of this project, i.e. 15/12/2015, shall be considered applicable for this project, if found satisfactory by BHEL/CUSTOMER.
 2. Valve POD, Gear box POD & Actuator POD test, if required, as per technical specification & AWWA C516, then the charges for the same shall be included in the unit quoted prices of main valves. Bidder shall not indicate these charges as a separate head in the price bids.
 3. Main valve prices shall BE EXCLUSIVE of cost of Commissioning Spares prices.
 4. Bidder is required to quote unit price of each item under commissioning spares separately & individually i.e. prices of all commissioning spares shall not be clubbed/ included in the unit price of Main valves.
 5. Commissioning spares -> One set each of Bottom/ Cover Gasket with O Rings & Seals, Gland Packing with O ring & seals in Gland packing area and actuator O rings and seal as applicable.
 6. All the mandatory spares are to be quoted individually & separately.

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 by ASHUTOSH
 SHARMA
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BOM - E-5512516 dt. 19/03/16 - INDIAN BIDDER													SPECIFICATION NO. ANNEXURE-IV			
13800 HW Dr. NTPS VILAYAWADA													SECTION: II			
Butterfly Valve Steam Services													REV NO: 00			
													SHEET 1 OF 1			
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	
SL NO.	TAG NOS.	TYPE OF VALVE	SIZE mm (NB)	OPERATION	DESIGN	SERVICE	RATING, DESIGN & TESTING CODE	BODY & DISC MATERIAL	END CONN	SPECIAL FEATURES	OD (MM)	THK(MM)	ITEM DESCRIPTION	Qty	UNIT EX WORKS PRICE (Rs.)	TOTAL FOR SITE PRICES (Rs.)
1	EXV-31, EXV-32 (1 EACH)	BVF 2000	MO		Full vacuum and 2 kg/sq cm	BFP DRIVE TURBINE EXHAUST T LINE	CL 75 (MINIMUM) CCS MO OF TURBINE AWA C516-2010	BW AS PER ASME B16.5	2032	SG, MO, OT = 50 -90 SEC. SHAFT AXIS ORIENTATION HORIZONTAL/ VERTICAL/ SUITABLE FOR BOTH DIRECTIONS. ELECTRIC ACTUATOR WITH INTEGRAL STARTER.		16	MAIN VALVES QTY WITHOUT COMMISSIONING SPARES NOS.	2		
COMMISSIONING SPARES																
													GLAND PACKING (VALVES) (SETS)	2		
													BOTTOM GASKET (VALVES) (SETS)	2		
													O RING AND SEALS FOR ELECTRIC ACTUATORS (SETS)	2		
													DISC SEAL (SETS)	2		
Mandatory Spares																
													COMPLETE VALVE ASSEMBLY WITH ACTUATOR & GEAR BOX WITHOUT COMMISSIONING SPARES	1		
													COMPLETE ACTUATOR	1		
													LIMIT SWITCH	3		
													TORQUE SWITCH	3		
													AUXILIARY CONTACT	1		
													COMPLETE MOTOR USED IN ACTUATOR	1		
													COMPLETE SEAL KIT	1		
													COMPLETE O RING SET	1		
													ELECTRONIC CARD	1		
													GRAND TOTAL (Main Valves without commissioning spares)			

ABBREVIATIONS:-
 B. Main valve price shall BE EXCLUSIVE of cost of Commissioning Spares prices.
 13. Main valve price shall BE EXCLUSIVE of cost of Commissioning Spares prices.
 14. Bidder is required to quote unit price of each item under commissioning spares separately & individually i.e. prices of all commissioning spares shall not be clubbed/ included in the unit price of Main valves
 15. Commissioning spares → One set each of Bottom/ Cover Gasket with O Rings & Seals, Gland Packing with O ring & seals in Gland packing area and actuator O rings and seal as applicable.
 16. All the mandatory spares are to be quoted individually & separately.

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