



ANNEXURE- I (GROUP - A) - TO NITREF NO-PE/PG/RTC/E-5703/2017, DTD-12.09.2017

RATE CONTRACT

PRICE SCHEDULE FOR BUTTERFLY VALVES STEAM SERVICES (WITH CIF)

NAME OF VENDOR-

													INDIGENOUS SUPPLIER							FOREIGN SUPPLIER			
SL NO.	TYPE OF VALVE	SIZE mm (NB)	DESIGN PRESSURE KG/CM2(G)	DESIGN TEMP (DEG OC)	OPERATION	SERVICE	RATING,DESIGN CODE	BODY & DISC MATERIAL	END CONN	SPECIAL FEATURES		QTY	UNIT EX-WORKS PRICE (DULY PACKED) IN PERCENTAGE OF TOTAL EXWORKS PRICE OF Butterfly Valve (Steam Service) GIVEN AT SL NO-D OF COUNMN 17	UNIT EX-WORKS PRICE (DULY PACKED) (INR)	TOTAL EX-WORKS PRICE (DULY PACKED) IN PERCENTAGE OF TOTAL EXWORKS PRICE OF Butterfly Valve (Steam Service) GIVEN AT SL NO-D OF COUNMN 17	TOTAL EX-WORKS PRICE (DULY PACKED) (INR)	FREIGHT CHARGES %OF TOTAL EXWORKS (INR)	GST @ %OF TOTAL EXWORKS + FREIGHT (INR)	TOTAL F.O.R SITE PRICE (INR)	UNIT C & F PRICE (DULY PACKED) IN PERCENTAGE OF TOTAL PRICE OF VALVES GIVEN AT SL NO-D OF COUNMN 24 INDIAN SEA PORT (MUMBAI)	UNIT C & F PRICE (DULY PACKED) INDIAN SEA PORT (MUMBAI) (CURRENCY)	TOTAL C & F PRICE (DULY PACKED) IN PERCENTAGE OF TOTAL PRICE OF VALVES GIVEN AT SL NO-D OF COUNMN 24 INDIAN SEA PORT (MUMBAI)	TOTAL C & F PRICE (DULY PACKED) INDIAN SEA PORT (MUMBAI) (CURRENCY)
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
A	MAIN VALVES (ALONG WITH ACTUATOR) WITHOUT COMMISSIONING SPARES																						
A.1	BUTTERFLY VALVES (STEAM SERVICE)	1600	Full vacuum and 2 kg/sq. cm	100	MOTOR OPERATE D	STEAM	CL. 75B (MINIMUM) OF AWWA C504-2010	CCS (ASTM A216 GR. WCB)	BWAS PER ASME B16.25	SG, MO, OT = 50 ~ 70 SEC, SHAFT AXIS ORIENTATION HORIZONTAL/VERTICAL SUITABLE FOR BOTH DIRECTIONS; ELECTRIC ACTUATOR WITH INTEGRAL STARTER.	MAIN VALVES (ALONG WITH ACTUATOR) WITHOUT COMMISSIONING SPARES (NOS.)	2	1.91650000%	Derived	3.833000%	Derived	%TO BE QUOTED	%TO BE QUOTED	Derived	1.91650000%	Derived	3.833000%	Derived
A.2	BUTTERFLY VALVES (STEAM SERVICE)	1800	Full vacuum and 2 kg/sq. cm	100	MOTOR OPERATE D	STEAM	CL. 75B (MINIMUM) OF AWWA C504-2010	CCS (ASTM A216 GR. WCB)	BWAS PER ASME B16.25	SG, MO, OT = 50 ~ 90 SEC, SHAFT AXIS ORIENTATION HORIZONTAL/VERTICAL SUITABLE FOR BOTH DIRECTIONS; ELECTRIC ACTUATOR WITH INTEGRAL STARTER.	MAIN VALVES (ALONG WITH ACTUATOR) WITHOUT COMMISSIONING SPARES (NOS.)	4	2.49250000%	Derived	9.970000%	Derived	%TO BE QUOTED	%TO BE QUOTED	Derived	2.49250000%	Derived	9.970000%	Derived
A.3	BUTTERFLY VALVES (STEAM SERVICE)	2000	Full vacuum and 2 kg/sq. cm	100	MOTOR OPERATE D	STEAM	CL. 75 (MINIMUM) OF AWWA C516-2010	CCS (ASTM A216 GR. WCB)	BWAS PER ASME B16.25	SG, MO, OT = 50 ~ 90 , SHAFT AXIS ORIENTATION HORIZONTAL/VERTICAL SUITABLE FOR BOTH DIRECTIONS; ELECTRIC ACTUATOR WITH INTEGRAL STARTER	MAIN VALVES (ALONG WITH ACTUATOR) WITHOUT COMMISSIONING SPARES (NOS.)	28	2.95625000%	Derived	82.775000%	Derived	%TO BE QUOTED	%TO BE QUOTED	Derived	2.95625000%	Derived	82.775000%	Derived
B	COMMISSIONING SPARES																						
B.1	BUTTERFLY VALVES (STEAM SERVICE)	1600	Full vacuum and 2 kg/sq. cm	100	MOTOR OPERATE D	STEAM	CL. 75B (MINIMUM) OF AWWA C504-2010	CCS (ASTM A216 GR. WCB)	BWAS PER ASME B16.25	SG, MO, OT = 50 ~ 70 SEC, SHAFT AXIS ORIENTATION HORIZONTAL/VERTICAL SUITABLE FOR BOTH DIRECTIONS; ELECTRIC ACTUATOR WITH INTEGRAL STARTER.	GLAND PACKING (VALVES) (SETS)	2	0.00700000%	Derived	0.014000%	Derived	%TO BE QUOTED	%TO BE QUOTED	Derived	0.00700000%	Derived	0.014000%	Derived
											BOTTOM GASKET (VALVES) (SETS)	2	0.00650000%	Derived	0.013000%	Derived	%TO BE QUOTED	%TO BE QUOTED	Derived	0.00650000%	Derived	0.013000%	Derived
											O'RING AND SEALS FOR ELECTRIC ACTUATORS (SETS)	2	0.00550000%	Derived	0.011000%	Derived	%TO BE QUOTED	%TO BE QUOTED	Derived	0.00550000%	Derived	0.011000%	Derived
											DISC SEAL (SETS)	2	0.02200000%	Derived	0.044000%	Derived	%TO BE QUOTED	%TO BE QUOTED	Derived	0.02200000%	Derived	0.044000%	Derived
B.2	BUTTERFLY VALVES (STEAM SERVICE)	1800	Full vacuum and 2 kg/sq. cm	100	MOTOR OPERATE D	STEAM	CL. 75B (MINIMUM) OF AWWA C504-2010	CCS (ASTM A216 GR. WCB)	BWAS PER ASME B16.25	SG, MO, OT = 50 ~ 90 SEC, SHAFT AXIS ORIENTATION HORIZONTAL/VERTICAL SUITABLE FOR BOTH DIRECTIONS; ELECTRIC ACTUATOR WITH INTEGRAL STARTER.	GLAND PACKING (VALVES) (SETS)	4	0.00850000%	Derived	0.034000%	Derived	%TO BE QUOTED	%TO BE QUOTED	Derived	0.00850000%	Derived	0.034000%	Derived
											BOTTOM GASKET (VALVES) (SETS)	4	0.00750000%	Derived	0.030000%	Derived	%TO BE QUOTED	%TO BE QUOTED	Derived	0.00750000%	Derived	0.030000%	Derived
											O'RING AND SEALS FOR ELECTRIC ACTUATORS (SETS)	4	0.00800000%	Derived	0.032000%	Derived	%TO BE QUOTED	%TO BE QUOTED	Derived	0.00800000%	Derived	0.032000%	Derived
											DISC SEAL (SETS)	4	0.02950000%	Derived	0.118000%	Derived	%TO BE QUOTED	%TO BE QUOTED	Derived	0.02950000%	Derived	0.118000%	Derived

SL NO.	TYPE OF VALVE	SIZE mm (NB)	DESIGN PRESSURE KG/CM2(G)	DESIGN TEMP (DEG OC)	OPERATION	SERVICE	RATING, DESIGN CODE	BODY & DISC MATERIAL	END CONN	SPECIAL FEATURES		QTY	UNIT EX-WORKS PRICE (DULY PACKED) IN PERCENTAGE OF TOTAL EX WORKS PRICE OF Butterfly Valve (Steam Service) GIVEN AT SL NO-D OF COLUMN 17	UNIT EX- WORKS PRICE (DULY PACKED) (INR)	TOTAL EX-WORKS PRICE (DULY PACKED) IN PERCENTAGE OF TOTAL EX WORKS PRICE OF Butterfly Valve (Steam Service) GIVEN AT SL NO-D OF COLUMN 17	TOTAL EX- WORKS PRICE (DULY PACKED) (INR)	FREIGHT CHARGES %OF TOTAL EX WORKS (INR)	GST @ %OF TOTAL EX WORKS + FREIGHT (INR)	TOTAL F.O.R SITE PRICE (INR)	UNIT C & F PRICE (DULY PACKED) IN PERCENTAGE OF TOTAL PRICE OF VALVES GIVEN AT SL NO-D OF COLUMN 24 INDIAN SEA PORT (MUMBAI)	UNIT C & F PRICE (DULY PACKED) INDIAN SEA PORT (MUMBAI) (CURRENCY)	TOTAL C & F PRICE (DULY PACKED) IN PERCENTAGE OF TOTAL PRICE OF VALVES GIVEN AT SL NO-D OF COLUMN 24 INDIAN SEA PORT (MUMBAI)	TOTAL C & F PRICE (DULY PACKED) INDIAN SEA PORT (MUMBAI) (CURRENCY)
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
B.3	BUTTERFLY VALVES (STEAM SERVICE)	2000	Full vacuum and 2 kg/sq.cm	100	MOTOR OPERATE D	STEAM	CL. 75 (MINIMUM) OF AWWA C516-2010	CCS (ASTM A216 GR. WCB)	BW AS PER ASME B16.25	SG, MO, OT = 50 ~ 90, SHAFT AXIS ORIENTATION HORIZONTAL / VERTICAL SUITABLE FOR BOTH DIRECTIONS; ELECTRIC ACTUATOR WITH INTEGRAL STARTER	GLAND PACKING (VALVES) (SETS)	20	0.00920000%	Derived	0.1840000%	Derived	%TO BE QUOTED	%TO BE QUOTED	Derived	0.00920000%	Derived	0.1840000%	Derived
											BOTTOM GASKET (VALVES) (SETS)	20	0.00840000%	Derived	0.1680000%	Derived	%TO BE QUOTED	%TO BE QUOTED	Derived	0.00840000%	Derived	0.1680000%	Derived
											O' RING AND SEALS FOR ELECTRIC ACTUATORS (SETS)	20	0.00995000%	Derived	0.1990000%	Derived	%TO BE QUOTED	%TO BE QUOTED	Derived	0.00995000%	Derived	0.1990000%	Derived
											DISC SEAL (SETS)	20	0.03060000%	Derived	0.6120000%	Derived	%TO BE QUOTED	%TO BE QUOTED	Derived	0.03060000%	Derived	0.6120000%	Derived
C	MANDATORY SPARES																						
C.1	BUTTERFLY VALVES (STEAM SERVICE)	1600	Full vacuum and 2 kg/sq.cm	100	MOTOR OPERATE D	STEAM	CL. 75B (MINIMUM) OF AWWA C504-2010	CCS (ASTM A216 GR. WCB)	BW AS PER ASME B16.25	SG, MO, OT = 50 ~ 70 SEC, SHAFT AXIS ORIENTATION HORIZONTAL / VERTICAL SUITABLE FOR BOTH DIRECTIONS; ELECTRIC ACTUATOR WITH INTEGRAL STARTER.	COMPLETE ACTUATOR (NOS)	1	0.18000000%	Derived	0.1800000%	Derived	%TO BE QUOTED	%TO BE QUOTED	Derived	0.18000000%	Derived	0.1800000%	Derived
											LIMIT SWITCH (Nos)	1	0.00700000%	Derived	0.0070000%	Derived	%TO BE QUOTED	%TO BE QUOTED	Derived	0.00700000%	Derived	0.0070000%	Derived
											TORQUE SWITCH (Nos.)	1	0.00700000%	Derived	0.0070000%	Derived	%TO BE QUOTED	%TO BE QUOTED	Derived	0.00700000%	Derived	0.0070000%	Derived
											AUXILIARY CONTACT (Nos)	1	0.00700000%	Derived	0.0070000%	Derived	%TO BE QUOTED	%TO BE QUOTED	Derived	0.00700000%	Derived	0.0070000%	Derived
											COMPLETE MOTOR USED IN ACTUATOR (Nos)	1	0.04600000%	Derived	0.0460000%	Derived	%TO BE QUOTED	%TO BE QUOTED	Derived	0.04600000%	Derived	0.0460000%	Derived
											COMPLETE SEALKIT (SET)	1	0.00400000%	Derived	0.0040000%	Derived	%TO BE QUOTED	%TO BE QUOTED	Derived	0.00400000%	Derived	0.0040000%	Derived
											COMPLETE O' RING (SET)	1	0.00400000%	Derived	0.0040000%	Derived	%TO BE QUOTED	%TO BE QUOTED	Derived	0.00400000%	Derived	0.0040000%	Derived
											ELECTRONIC CARD (Nos)	1	0.03000000%	Derived	0.0300000%	Derived	%TO BE QUOTED	%TO BE QUOTED	Derived	0.03000000%	Derived	0.0300000%	Derived
C.2	BUTTERFLY VALVES (STEAM SERVICE)	1800	Full vacuum and 2 kg/sq.cm	100	MOTOR OPERATE D	STEAM	CL. 75B (MINIMUM) OF AWWA C504-2010	CCS (ASTM A216 GR. WCB)	BW AS PER ASME B16.25	SG, MO, OT = 50 ~ 90 SEC, SHAFT AXIS ORIENTATION HORIZONTAL / VERTICAL SUITABLE FOR BOTH DIRECTIONS; ELECTRIC ACTUATOR WITH INTEGRAL STARTER.	COMPLETE ACTUATOR (NOS)	1	0.18000000%	Derived	0.1800000%	Derived	%TO BE QUOTED	%TO BE QUOTED	Derived	0.18000000%	Derived	0.1800000%	Derived
											LIMIT SWITCH (Nos)	1	0.00700000%	Derived	0.0070000%	Derived	%TO BE QUOTED	%TO BE QUOTED	Derived	0.00700000%	Derived	0.0070000%	Derived
											TORQUE SWITCH (Nos.)	1	0.00700000%	Derived	0.0070000%	Derived	%TO BE QUOTED	%TO BE QUOTED	Derived	0.00700000%	Derived	0.0070000%	Derived
											AUXILIARY CONTACT (Nos)	1	0.00700000%	Derived	0.0070000%	Derived	%TO BE QUOTED	%TO BE QUOTED	Derived	0.00700000%	Derived	0.0070000%	Derived
											COMPLETE MOTOR USED IN ACTUATOR (Nos)	1	0.04600000%	Derived	0.0460000%	Derived	%TO BE QUOTED	%TO BE QUOTED	Derived	0.04600000%	Derived	0.0460000%	Derived
											COMPLETE SEALKIT (SET)	1	0.00400000%	Derived	0.0040000%	Derived	%TO BE QUOTED	%TO BE QUOTED	Derived	0.00400000%	Derived	0.0040000%	Derived
											COMPLETE O' RING (SET)	1	0.00400000%	Derived	0.0040000%	Derived	%TO BE QUOTED	%TO BE QUOTED	Derived	0.00400000%	Derived	0.0040000%	Derived
											ELECTRONIC CARD (Nos)	1	0.02900000%	Derived	0.0290000%	Derived	%TO BE QUOTED	%TO BE QUOTED	Derived	0.02900000%	Derived	0.0290000%	Derived

SL NO.	TYPE OF VALVE	SIZE mm (NB)	DESIGN PRESSURE KG/CM2(G)	DESIGN TEMP (DEG 0C)	OPERATION	SERVICE	RATING,DESIGN CODE	BODY & DISC MATERIAL	END CONN	SPECIAL FEATURES		QTY	UNIT EX-WORKS PRICE (DULY PACKED) IN PERCENTAGE OF TOTAL EXWORKS PRICE OF Butterfly Valve (Steam Service) GIVEN AT SL NO-D OF COUNM 17	UNIT EX- WORKS PRICE (DULY PACKED) (INR)	TOTAL EX-WORKS PRICE (DULY PACKED) IN PERCENTAGE OF TOTAL EXWORKS PRICE OF Butterfly Valve (Steam Service) GIVEN AT SL NO-D OF COUNM 17	TOTAL EX- WORKS PRICE (DULY PACKED) (INR)	FREIGHT CHARGES %OF TOTAL EXWORKS (INR)	GST @ %OF TOTAL EX WORKS + FREIGHT (INR)	TOTAL F.O.R SITE PRICE (INR)	UNIT C & F PRICE (DULY PACKED) IN PERCENTAGE OF TOTAL PRICE OF VALVES GIVEN AT SL NO-D OF COUNM 24 INDIAN SEA PORT (MUMBAI)	UNIT C & F PRICE (DULY PACKED) INDIAN SEA PORT (MUMBAI) (CURRENCY)	TOTAL C & F PRICE (DULY PACKED) IN PERCENTAGE OF TOTAL PRICE OF VALVES GIVEN AT SL NO-D OF COUNM 24 INDIAN SEA PORT (MUMBAI)	TOTAL C & F PRICE (DULY PACKED) INDIAN SEA PORT (MUMBAI) (CURRENCY)
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C.3	BUTTERFLY VALVES (STEAM SERVICE)	2000	Full vacuum and 2 kg/sq.cm	100	MOTOR OPERATE D	STEAM	CL. 75 (MINIMUM) OF AWWA C516-2010	CCS (ASTM A216 GR. WCB)	BWAS PER ASME B16.25	SG, MO, OT = 50 ~ 90 , SHAFT AXIS ORIENTATION HORIZONTAL / VERTICAL SUITABLE FOR BOTH DIRECTIONS; ELECTRIC ACTUATOR WITH INTEGRAL STARTER	COMPLETE ACTUATOR (NOS)	4	0.19125000%	Derived	0.765000%	Derived	% TO BE QUOTED	% TO BE QUOTED	Derived	0.19125000%	Derived	0.765000%	Derived
											LIMIT SWITCH (Nos)	12	0.00766667%	Derived	0.092000%	Derived	% TO BE QUOTED	% TO BE QUOTED	Derived	0.00766667%	Derived	0.092000%	Derived
											TORQUE SWITCH (Nos.)	12	0.00766667%	Derived	0.092000%	Derived	% TO BE QUOTED	% TO BE QUOTED	Derived	0.00766667%	Derived	0.092000%	Derived
											AUXILIARY CONTACT (Nos)	4	0.00775000%	Derived	0.031000%	Derived	% TO BE QUOTED	% TO BE QUOTED	Derived	0.00775000%	Derived	0.031000%	Derived
											COMPLETE MOTOR USED IN ACTUATOR (Nos)	4	0.06125000%	Derived	0.245000%	Derived	% TO BE QUOTED	% TO BE QUOTED	Derived	0.06125000%	Derived	0.245000%	Derived
											COMPLETE SEALKIT (SET)	4	0.00300000%	Derived	0.012000%	Derived	% TO BE QUOTED	% TO BE QUOTED	Derived	0.00300000%	Derived	0.012000%	Derived
											COMPLETE 'O' RING (SET)	4	0.00100000%	Derived	0.004000%	Derived	% TO BE QUOTED	% TO BE QUOTED	Derived	0.00100000%	Derived	0.004000%	Derived
											ELECTRONIC CARD (Nos)	4	0.03825000%	Derived	0.153000%	Derived	% TO BE QUOTED	% TO BE QUOTED	Derived	0.03825000%	Derived	0.153000%	Derived
D	TOTAL												Derived	100.00%	TO BE QUOTED = Rs X	Derived	Derived	Derived=Y		Derived	100.00%	TO BE QUOTED=Z	

Note:-

ABBREVIATIONS: BW- BUTT WELDED, CCS- CAST CARBON STEEL, SG - SEALED GLAND, MO - MOTORISED ELECTRIC ACTUATOR OT - OPENING/CLOSING TIME OF VALVE WITH ELECTRIC ACTUATOR OPERATION

1. Valve POD , Gear box POD & Actuator POD test, if already carried out by bidder for similar model/type/size/rating for any NTPC/BHEL/REPUTED CUSTOMER project within the last 5 years from the date of placement of Purchase order for respective project (the same will be informed during detail engineering), shall be considered applicable for respective project, if found satisfactory by BHEL/CUSTOMER.
2. Valve POD , Gear box POD & Actuator POD test, if required, as per technical specification & AWWA C504-10/ AWWA C516-10, 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 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 & mandatory spares separately & individually i.e. prices of all commissioning spares, mandatory spares shall not be clubbed/ included in the unit price of Main valves.
5. Commissioning spares --> One set each of Disc Seal, 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. Valve design rating shall be as per Col. no. 8**
7. Bidder to indicate freight charges separately. Freight charges shall not be included in Ex-works price

8. Bidder to note that evaluation shall be on Grand Total FOR site price to BHEL, however, Bidder to quote grand total Ex works value (Rs X)/ C&F value (Z) of the complete package only as per the BOQ above. The item wise break up of Ex works/C&F prices (unit as well as total) shall be derived as per the formulae indicated above by BHEL. Indigenous bidder also need to indicate taxes percentage in the respective column and freight percentage of Ex works value considering delivery anywhere in India in the freight column.

9. Rate contract shall be decided on the basis of grand Total FOR site price of Total BOQ.

10. Value is to be filled only where "to be quoted" is mentioned and for other columns where "derived" is mentioned same shall be derived by BHEL as per % allocation fixed against each item

11. Bidder to note that total price indicated above at SI no-D shall be considered for evaluation and hence should be complete in all respect for the full scope defined and considering all terms and conditions agreed.

12. The unit price quoted by bidder shall be binding for quantity variation which is at discretion of purchaser.

13. Prices shall remain firm during contract execution.

14. For any clarification please refer Technical Specification No-PE-TS-020-100-M016

15. Indigenous vendors having CIF are required to indicate CIF @ ____% of their total ex-works supply value

16. Price of all accessories, commissioning spares, special Tools & tackle and other accessories not listed above shall be included in the price of Butterfly Valve-Steam Service & shall be supplied with the Butterfly Valve-Steam Service.

17. In case of spares, any item indicated as "Not Applicable" by bidder but actually found applicable for Butterfly Valve (Steam Service), shall be supplied by bidder at cost based on cost percentage break-up for spares furnished along with NIT.

18. Bidder shall furnish this price Schedule indicating "Quoted/Not-Quoted" along with technical offer and actual prices in his price offer.

Michael



RATE CONTRACT

PRICE SCHEDULE FOR BUTTERFLY VALVES STEAM SERVICES (WITHOUT CIF)

NAME OF VENDOR-

													INDIGENOUS SUPPLIER							FOREIGN SUPPLIER			
SL NO.	TYPE OF VALVE	SIZE mm (NB)	DESIGN PRESSURE KG/CM2(G)	DESIGN TEMP (DEG OC)	OPERATION	SERVICE	RATING,DESIGN CODE	BODY & DISC MATERIAL	END CONN	SPECIAL FEATURES		QTY	UNIT EX-WORKS PRICE (DULY PACKED) IN PERCENTAGE OF TOTAL EXWORKS PRICE OF Butterfly Valve (Steam Service) GIVEN AT SL NO-D OF COUNMN 17	UNIT EX-WORKS PRICE (DULY PACKED) (INR)	TOTAL EX-WORKS PRICE (DULY PACKED) IN PERCENTAGE OF TOTAL EXWORKS PRICE OF Butterfly Valve (Steam Service) GIVEN AT SL NO-D OF COUNMN 17	TOTAL EX-WORKS PRICE (DULY PACKED) (INR)	FREIGHT CHARGES %OF TOTAL EXWORKS (INR)	GST @ %OF TOTAL EXWORKS + FREIGHT (INR)	TOTAL F.O.R SITE PRICE (INR)	UNIT C & F PRICE (DULY PACKED) IN PERCENTAGE OF TOTAL PRICE OF VALVES GIVEN AT SL NO-D OF COUNMN 24 INDIAN SEA PORT (MUMBAI)	UNIT C & F PRICE (DULY PACKED) INDIAN SEA PORT (MUMBAI) (CURRENCY)	TOTAL C & F PRICE (DULY PACKED) IN PERCENTAGE OF TOTAL PRICE OF VALVES GIVEN AT SL NO-D OF COUNMN 24 INDIAN SEA PORT (MUMBAI)	TOTAL C & F PRICE (DULY PACKED) INDIAN SEA PORT (MUMBAI) (CURRENCY)
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
A	MAIN VALVES (ALONG WITH ACTUATOR) WITHOUT COMMISSIONING SPARES																						
A.1	BUTTERFLY VALVES (STEAM SERVICE)	1600	Full vacuum and 2 kg/sq. cm	100	MOTOR OPERATE D	STEAM	CL. 75B (MINIMUM) OF AWWA C504-2010	CCS (ASTM A216 GR. WCB)	BWAS PER ASME B16.25	SG, MO, OT = 50 ~ 70 SEC, SHAFT AXIS ORIENTATION HORIZONTAL/VERTICAL SUITABLE FOR BOTH DIRECTIONS; ELECTRIC ACTUATOR WITH INTEGRAL STARTER.	MAIN VALVES (ALONG WITH ACTUATOR) WITHOUT COMMISSIONING SPARES (NOS.)	2	1.91650000%	Derived	3.833000%	Derived	%TO BE QUOTED	%TO BE QUOTED	Derived	1.91650000%	Derived	3.833000%	Derived
A.2	BUTTERFLY VALVES (STEAM SERVICE)	1800	Full vacuum and 2 kg/sq. cm	100	MOTOR OPERATE D	STEAM	CL. 75B (MINIMUM) OF AWWA C504-2010	CCS (ASTM A216 GR. WCB)	BWAS PER ASME B16.25	SG, MO, OT = 50 ~ 90 SEC, SHAFT AXIS ORIENTATION HORIZONTAL/VERTICAL SUITABLE FOR BOTH DIRECTIONS; ELECTRIC ACTUATOR WITH INTEGRAL STARTER.	MAIN VALVES (ALONG WITH ACTUATOR) WITHOUT COMMISSIONING SPARES (NOS.)	4	2.49250000%	Derived	9.970000%	Derived	%TO BE QUOTED	%TO BE QUOTED	Derived	2.49250000%	Derived	9.970000%	Derived
A.3	BUTTERFLY VALVES (STEAM SERVICE)	2000	Full vacuum and 2 kg/sq. cm	100	MOTOR OPERATE D	STEAM	CL. 75 (MINIMUM) OF AWWA C516-2010	CCS (ASTM A216 GR. WCB)	BWAS PER ASME B16.25	SG, MO, OT = 50 ~ 90 , SHAFT AXIS ORIENTATION HORIZONTAL/VERTICAL SUITABLE FOR BOTH DIRECTIONS; ELECTRIC ACTUATOR WITH INTEGRAL STARTER	MAIN VALVES (ALONG WITH ACTUATOR) WITHOUT COMMISSIONING SPARES (NOS.)	28	2.95625000%	Derived	82.775000%	Derived	%TO BE QUOTED	%TO BE QUOTED	Derived	2.95625000%	Derived	82.775000%	Derived
B	COMMISSIONING SPARES																						
B.1	BUTTERFLY VALVES (STEAM SERVICE)	1600	Full vacuum and 2 kg/sq. cm	100	MOTOR OPERATE D	STEAM	CL. 75B (MINIMUM) OF AWWA C504-2010	CCS (ASTM A216 GR. WCB)	BWAS PER ASME B16.25	SG, MO, OT = 50 ~ 70 SEC, SHAFT AXIS ORIENTATION HORIZONTAL/VERTICAL SUITABLE FOR BOTH DIRECTIONS; ELECTRIC ACTUATOR WITH INTEGRAL STARTER.	GLAND PACKING (VALVES) (SETS)	2	0.00700000%	Derived	0.014000%	Derived	%TO BE QUOTED	%TO BE QUOTED	Derived	0.00700000%	Derived	0.014000%	Derived
											BOTTOM GASKET (VALVES) (SETS)	2	0.00650000%	Derived	0.013000%	Derived	%TO BE QUOTED	%TO BE QUOTED	Derived	0.00650000%	Derived	0.013000%	Derived
											O'RING AND SEALS FOR ELECTRIC ACTUATORS (SETS)	2	0.00550000%	Derived	0.011000%	Derived	%TO BE QUOTED	%TO BE QUOTED	Derived	0.00550000%	Derived	0.011000%	Derived
											DISC SEAL (SETS)	2	0.02200000%	Derived	0.044000%	Derived	%TO BE QUOTED	%TO BE QUOTED	Derived	0.02200000%	Derived	0.044000%	Derived
B.2	BUTTERFLY VALVES (STEAM SERVICE)	1800	Full vacuum and 2 kg/sq. cm	100	MOTOR OPERATE D	STEAM	CL. 75B (MINIMUM) OF AWWA C504-2010	CCS (ASTM A216 GR. WCB)	BWAS PER ASME B16.25	SG, MO, OT = 50 ~ 90 SEC, SHAFT AXIS ORIENTATION HORIZONTAL/VERTICAL SUITABLE FOR BOTH DIRECTIONS; ELECTRIC ACTUATOR WITH INTEGRAL STARTER.	GLAND PACKING (VALVES) (SETS)	4	0.00850000%	Derived	0.034000%	Derived	%TO BE QUOTED	%TO BE QUOTED	Derived	0.00850000%	Derived	0.034000%	Derived
											BOTTOM GASKET (VALVES) (SETS)	4	0.00750000%	Derived	0.030000%	Derived	%TO BE QUOTED	%TO BE QUOTED	Derived	0.00750000%	Derived	0.030000%	Derived
											O'RING AND SEALS FOR ELECTRIC ACTUATORS (SETS)	4	0.00800000%	Derived	0.032000%	Derived	%TO BE QUOTED	%TO BE QUOTED	Derived	0.00800000%	Derived	0.032000%	Derived
											DISC SEAL (SETS)	4	0.02950000%	Derived	0.118000%	Derived	%TO BE QUOTED	%TO BE QUOTED	Derived	0.02950000%	Derived	0.118000%	Derived

SL NO.	TYPE OF VALVE	SIZE mm (NB)	DESIGN PRESSURE KG/CM2(G)	DESIGN TEMP (DEG OC)	OPERATION	SERVICE	RATING, DESIGN CODE	BODY & DISC MATERIAL	END CONN	SPECIAL FEATURES		QTY	UNIT EX-WORKS PRICE (DULY PACKED) IN PERCENTAGE OF TOTAL EX WORKS PRICE OF Butterfly Valve (Steam Service) GIVEN AT SL NO-D OF COUNMN 17	UNIT EX- WORKS PRICE (DULY PACKED) (INR)	TOTAL EX-WORKS PRICE (DULY PACKED) IN PERCENTAGE OF TOTAL EX WORKS PRICE OF Butterfly Valve (Steam Service) GIVEN AT SL NO-D OF COUNMN 17	TOTAL EX- WORKS PRICE (DULY PACKED) (INR)	FREIGHT CHARGES %OF TOTAL EX WORKS (INR)	GST @ %OF TOTAL EX WORKS + FREIGHT (INR)	TOTAL F.O.R SITE PRICE (INR)	UNITC & F PRICE (DULY PACKED) IN PERCENTAGE OF TOTAL PRICE OF VALVES GIVEN AT SL NO-D OF COUNMN 24 INDIAN SEA PORT (MUMBAI)	UNITC & F PRICE (DULY PACKED) INDIAN SEA PORT (MUMBAI) (CURRENCY)	TOTAL C & F PRICE (DULY PACKED) IN PERCENTAGE OF TOTAL PRICE OF VALVES GIVEN AT SL NO-D OF COUNMN 24 INDIAN SEA PORT (MUMBAI)	TOTAL C & F PRICE (DULY PACKED) INDIAN SEA PORT (MUMBAI) (CURRENCY)
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
B.3	BUTTERFLY VALVES (STEAM SERVICE)	2000	Full vacuum and 2 kg/sq.cm	100	MOTOR OPERATE D	STEAM	CL. 75 (MINIMUM) OF AWWA C516-2010	CCS (ASTM A216 GR. WCB)	BWAS PER ASME B16.25	SG, MO, OT = 50 ~ 90, SHAFT AXIS ORIENTATION HORIZONTAL/VERTICAL SUITABLE FOR BOTH DIRECTIONS; ELECTRIC ACTUATOR WITH INTEGRAL STARTER	GLAND PACKING (VALVES) (SETS)	20	0.00920000%	Derived	0.184000%	Derived	%TO BE QUOTED	%TO BE QUOTED	Derived	0.00920000%	Derived	0.184000%	Derived
											BOTTOM GASKET (VALVES) (SETS)	20	0.00840000%	Derived	0.168000%	Derived	%TO BE QUOTED	%TO BE QUOTED	Derived	0.00840000%	Derived	0.168000%	Derived
											O' RING AND SEALS FOR ELECTRIC ACTUATORS (SETS)	20	0.00995000%	Derived	0.199000%	Derived	%TO BE QUOTED	%TO BE QUOTED	Derived	0.00995000%	Derived	0.199000%	Derived
											DISC SEAL (SETS)	20	0.03060000%	Derived	0.612000%	Derived	%TO BE QUOTED	%TO BE QUOTED	Derived	0.03060000%	Derived	0.612000%	Derived
C	MANDATORY SPARES																						
C.1	BUTTERFLY VALVES (STEAM SERVICE)	1600	Full vacuum and 2 kg/sq.cm	100	MOTOR OPERATE D	STEAM	CL. 75B (MINIMUM) OF AWWA C504-2010	CCS (ASTM A216 GR. WCB)	BWAS PER ASME B16.25	SG, MO, OT = 50 ~ 70 SEC, SHAFT AXIS ORIENTATION HORIZONTAL/VERTICAL SUITABLE FOR BOTH DIRECTIONS; ELECTRIC ACTUATOR WITH INTEGRAL STARTER.	COMPLETE ACTUATOR (NOS)	1	0.18000000%	Derived	0.180000%	Derived	%TO BE QUOTED	%TO BE QUOTED	Derived	0.18000000%	Derived	0.180000%	Derived
											LIMIT SWITCH (Nos)	1	0.00700000%	Derived	0.007000%	Derived	%TO BE QUOTED	%TO BE QUOTED	Derived	0.00700000%	Derived	0.007000%	Derived
											TORQUE SWITCH (Nos.)	1	0.00700000%	Derived	0.007000%	Derived	%TO BE QUOTED	%TO BE QUOTED	Derived	0.00700000%	Derived	0.007000%	Derived
											AUXILIARY CONTACT (Nos)	1	0.00700000%	Derived	0.007000%	Derived	%TO BE QUOTED	%TO BE QUOTED	Derived	0.00700000%	Derived	0.007000%	Derived
											COMPLETE MOTOR USED IN ACTUATOR (Nos)	1	0.04600000%	Derived	0.046000%	Derived	%TO BE QUOTED	%TO BE QUOTED	Derived	0.04600000%	Derived	0.046000%	Derived
											COMPLETE SEALKIT (SET)	1	0.00400000%	Derived	0.004000%	Derived	%TO BE QUOTED	%TO BE QUOTED	Derived	0.00400000%	Derived	0.004000%	Derived
											COMPLETE 'O' RING (SET)	1	0.00400000%	Derived	0.004000%	Derived	%TO BE QUOTED	%TO BE QUOTED	Derived	0.00400000%	Derived	0.004000%	Derived
											ELECTRONIC CARD (Nos)	1	0.03000000%	Derived	0.030000%	Derived	%TO BE QUOTED	%TO BE QUOTED	Derived	0.03000000%	Derived	0.030000%	Derived
C.2	BUTTERFLY VALVES (STEAM SERVICE)	1800	Full vacuum and 2 kg/sq.cm	100	MOTOR OPERATE D	STEAM	CL. 75B (MINIMUM) OF AWWA C504-2010	CCS (ASTM A216 GR. WCB)	BWAS PER ASME B16.25	SG, MO, OT = 50 ~ 90 SEC, SHAFT AXIS ORIENTATION HORIZONTAL/VERTICAL SUITABLE FOR BOTH DIRECTIONS; ELECTRIC ACTUATOR WITH INTEGRAL STARTER.	COMPLETE ACTUATOR (NOS)	1	0.18000000%	Derived	0.180000%	Derived	%TO BE QUOTED	%TO BE QUOTED	Derived	0.18000000%	Derived	0.180000%	Derived
											LIMIT SWITCH (Nos)	1	0.00700000%	Derived	0.007000%	Derived	%TO BE QUOTED	%TO BE QUOTED	Derived	0.00700000%	Derived	0.007000%	Derived
											TORQUE SWITCH (Nos.)	1	0.00700000%	Derived	0.007000%	Derived	%TO BE QUOTED	%TO BE QUOTED	Derived	0.00700000%	Derived	0.007000%	Derived
											AUXILIARY CONTACT (Nos)	1	0.00700000%	Derived	0.007000%	Derived	%TO BE QUOTED	%TO BE QUOTED	Derived	0.00700000%	Derived	0.007000%	Derived
											COMPLETE MOTOR USED IN ACTUATOR (Nos)	1	0.04600000%	Derived	0.046000%	Derived	%TO BE QUOTED	%TO BE QUOTED	Derived	0.04600000%	Derived	0.046000%	Derived
											COMPLETE SEALKIT (SET)	1	0.00400000%	Derived	0.004000%	Derived	%TO BE QUOTED	%TO BE QUOTED	Derived	0.00400000%	Derived	0.004000%	Derived
											COMPLETE 'O' RING (SET)	1	0.00400000%	Derived	0.004000%	Derived	%TO BE QUOTED	%TO BE QUOTED	Derived	0.00400000%	Derived	0.004000%	Derived
											ELECTRONIC CARD (Nos)	1	0.02900000%	Derived	0.029000%	Derived	%TO BE QUOTED	%TO BE QUOTED	Derived	0.02900000%	Derived	0.029000%	Derived

SL NO.	TYPE OF VALVE	SIZE mm (NB)	DESIGN PRESSURE KG/CM2(G)	DESIGN TEMP (DEG OC)	OPERATION	SERVICE	RATING, DESIGN CODE	BODY & DISC MATERIAL	END CONN	SPECIAL FEATURES		QTY	UNIT EX-WORKS PRICE (DULY PACKED) IN PERCENTAGE OF TOTAL EX WORKS PRICE OF Butterfly Valve (Steam Service) GIVEN AT SL NO-D OF COUNMN 17	UNIT EX- WORKS PRICE (DULY PACKED) (INR)	TOTAL EX-WORKS PRICE (DULY PACKED) IN PERCENTAGE OF TOTAL EX WORKS PRICE OF Butterfly Valve (Steam Service) GIVEN AT SL NO-D OF COUNMN 17	TOTAL EX- WORKS PRICE (DULY PACKED) (INR)	FREIGHT CHARGES % OF TOTAL EX WORKS (INR)	GST @ % OF TOTAL EX WORKS + FREIGHT (INR)	TOTAL F.O.R SITE PRICE (INR)	UNIT C & F PRICE (DULY PACKED) IN PERCENTAGE OF TOTAL PRICE OF VALVES GIVEN AT SL NO-D OF COUNMN 24 INDIAN SEA PORT (MUMBAI)	UNIT C & F PRICE (DULY PACKED) INDIAN SEA PORT (MUMBAI) (CURRENCY)	TOTAL C & F PRICE (DULY PACKED) IN PERCENTAGE OF TOTAL PRICE OF VALVES GIVEN AT SL NO-D OF COUNMN 24 INDIAN SEA PORT (MUMBAI)	TOTAL C & F PRICE (DULY PACKED) INDIAN SEA PORT (MUMBAI) (CURRENCY)
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
C.3	BUTTERFLY VALVES (STEAM SERVICE)	2000	Full vacuum and 2 kg/sq. cm	100	MOTOR OPERATE D	STEAM	CL. 75 (MINIMUM) OF AWWA C516-2010	CCS (ASTM A216 GR. WCB)	BW AS PER ASME B16.25	SG, MO, OT = 50 ~ 90 , SHAFT AXIS ORIENTATION HORIZONTAL / VERTICAL SUITABLE FOR BOTH DIRECTIONS; ELECTRIC ACTUATOR WITH INTEGRAL STARTER	COMPLETE ACTUATOR (NOS)	4	0.19125000%	Derived	0.765000%	Derived	% TO BE QUOTED	% TO BE QUOTED	Derived	0.19125000%	Derived	0.765000%	Derived
											LIMIT SWITCH (Nos)	12	0.00766667%	Derived	0.092000%	Derived	% TO BE QUOTED	% TO BE QUOTED	Derived	0.00766667%	Derived	0.092000%	Derived
											TORQUE SWITCH (Nos.)	12	0.00766667%	Derived	0.092000%	Derived	% TO BE QUOTED	% TO BE QUOTED	Derived	0.00766667%	Derived	0.092000%	Derived
											AUXILIARY CONTACT (Nos)	4	0.00775000%	Derived	0.031000%	Derived	% TO BE QUOTED	% TO BE QUOTED	Derived	0.00775000%	Derived	0.031000%	Derived
											COMPLETE MOTOR USED IN ACTUATOR (Nos)	4	0.06125000%	Derived	0.245000%	Derived	% TO BE QUOTED	% TO BE QUOTED	Derived	0.06125000%	Derived	0.245000%	Derived
											COMPLETE SEALKIT (SET)	4	0.00300000%	Derived	0.012000%	Derived	% TO BE QUOTED	% TO BE QUOTED	Derived	0.00300000%	Derived	0.012000%	Derived
											COMPLETE 'O' RING (SET)	4	0.00100000%	Derived	0.004000%	Derived	% TO BE QUOTED	% TO BE QUOTED	Derived	0.00100000%	Derived	0.004000%	Derived
											ELECTRONIC CARD (Nos)	4	0.03825000%	Derived	0.153000%	Derived	% TO BE QUOTED	% TO BE QUOTED	Derived	0.03825000%	Derived	0.153000%	Derived
D	TOTAL													Derived	100.00%	TO BE QUOTED = Rs X	Derived	Derived	Derived=Y		Derived	100.00%	TO BE QUOTED=Z
Note:-																							
ABBREVIATIONS:BW- BUTT WELDED, CCS - CAST CARBON STEEL, SG - SEALED GLAND, MO - MOTORISED ELECTRIC ACTUATOR OT - OPENING/CLOSING TIME OF VALVE WITH ELECTRIC ACTUATOR OPERATION 1. Valve POD , Gear box POD & Actuator POD test, if already carried out by bidder for similar model/ type/ size/ rating for any NTPC/BHEL/REPUTED CUSTOMER project within the last 5 years from the date of placement of Purchase order for respective project (the same will be informed during detail engineering), shall be considered applicable for respective project, if found satisfactory by BHEL/CUSTOMER. 2. Valve POD, Gear box POD & Actuator POD test, if required, as per technical specification & AWWA C504-10/ AWWA C516-10, 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 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 & mandatory spares separately & individually i.e. prices of all commissioning spares, mandatory spares shall not be clubbed/ included in the unit price of Main valves. 5. Commissioning spares--> One set each of Disc Seal, 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. Valve design rating shall be as per Col. no. 8 7. Bidder to indicate freight charges separately. Freight charges shall not be included in Ex-works price.																							
8. Bidder to note that evaluation shall be on Grand Total FOR site price to BHEL, however, Bidder to quote grand total Ex works value (Rs X)/ C&F value (Z) of the complete package only as per the BOQ above. The item wise break up of Ex works/C&F prices (unit as well as total) shall be derived as per the formulae indicated above by BHEL. Indigenous bidder also need to indicate taxes percentage in the respective column and freight percentage of Ex works value considering delivery anywhere in India in the freight column.																							
9. Rate contract shall be decided on the basis of grand Total FOR site price of Total BOQ																							
10. Value is to be filled only where "to be quoted" is mentioned and for other columns where "derived" is mentioned same shall be derived by BHEL as per % allocation fixed against each item																							
11. Bidder to note that total price indicated above at Sl no-D shall be considered for evaluation and hence should be complete in all respect for the full scope defined and considering all terms and conditions agreed.																							
12. The unit price quoted by bidder shall be binding for quantity variation which is at discretion of purchaser.																							
13. Prices shall remain firm during contract execution.																							
14. For any clarification please refer Technical Specification No-PE-TS-020-100-M016																							
15. Price of all accessories, commissioning spares, special Tools & tackle and other accessories not listed above shall be included in the price of Butterfly Valve-Steam Service & shall be supplied with the Butterfly Valve-Steam Service.																							
16. In case of spares, any item indicated as "Not Applicable" by bidder but actually found applicable for Butterfly Valve (Steam Service) , shall be supplied by bidder at cost based on cost percentage break-up for spares furnished along with NIT.																							
17. Bidder shall furnish this price Schedule indicating "Quoted/Not-Quoted" along with technical offer and actual prices in his price offer.																							