

Ref No. : PE/PG/RTC/E-5703/2017/CORRIGENDA/02

Date: 07.10.2017

CORRIGENDA / ADDENDUM-02

OUR REF: TENDER ENQUIRY NO: PE/PG/RTC/E-5703/2017, DTD-12.09.2017

DUE DATE
13.10.2017
BY 02:00PM

1. Price schedule has been revised. Bidders to follow Revised Price Schedule Rev 01 while quoting. Bidders already submitted or sent their offers have to submit fresh offer inline with Revised Price Schedule Rev 01.
2. All bidders to submit separate price envelopes for Group A & Group B clearly mentioning the Enquiry Number & Group in BOLD on price envelopes.
3. Bidders to note that for Group A BOQ CIF benefit is applicable against Project Import/Power Certificate. Bidders to quote accordingly.
4. Point No-(iii) (a) of NIT shall be read as-

Rate contract shall be decided on the basis of grand Total FOR site price (excluding GST) of Total BOQ of Butterfly valve-steam service as listed in Annexure-I Group-A and Annexure-II Group-B separately. For foreign bidders evaluation shall be done on quoted C&F value converted into equivalent FOR site price in Indian Rupees excluding GST.

5. Point No-(iii) (b) of NIT shall be read as-

b) Though evaluation is proposed on Grand Total FOR site excluding GST, but there is % allocation weightage against BOQ quantity of each item which shall be used for arriving at price break up. Indigenous Bidders need to give only their total ex works price for Total tender BOQ for Group A at sl. no. D column no. 17 at Annexure I and for Total tender BOQ for Group B at sl. no. D column no. 17 at Annexure II in separate price bids. Foreign bidders need to give only their total C&F price for Total tender BOQ for group A at sl. no. D column no. 24 at Annexure I and for Total tender BOQ for Group B at sl. D column no. 24 at Annexure-II in separate price bids.

6. Point No-9 of NIT shall be read as-

BHEL reserves the right to go for Reverse Auction (RA) (Guidelines as available on www.bhel.com) instead of opening the sealed envelope price bid, submitted by the bidder. This will be decided after techno-commercial evaluation. Bidders to give their acceptance with the offer for participation in RA. Non-acceptance to participate in RA may result in non-consideration of their bids, in case BHEL decides to go for RA.



Please reply to:

Mazhar Wahab, Sr. Engineer

CMM

Power Project Engineering Institute Building
HRD & ESI Complex Plot No. 25, Sector -16 A,
BHEL-PEM,Noida-201301 (U.P.)

Tel No.0120-4213532, 09999498202

Ref No. : PE/PG/RTC/E-5703/2017/CORRIGENDA/02

Date: 07.10.2017

Those bidders who have given their acceptance to participate in Reverse Auction will have to necessarily submit 'Process compliance form' (to the designated service provider) as well as 'Online sealed bid' in the Reverse Auction. Non-submission of 'Process compliance form' or 'Online sealed bid' by the agreed bidder(s) will be considered as tampering of the tender process and will invite action by BHEL as per extant guidelines for suspension of business dealings with suppliers/ contractors (as available on www.bhel.com).

The bidders have to necessarily submit online sealed bid less than or equal to their envelope sealed price bid already submitted to BHEL along with the offer. **The envelope sealed price bid of successful L1 bidder in RA, if conducted, shall also be opened after RA and the order will be placed on lower of the two bids (RA closing price & envelope sealed price) thus obtained. The bidder having submitted this offer specifically agrees to this condition and undertakes to execute the contract on thus awarded rates.**

If it is found that L1 bidder has quoted higher in online sealed bid in comparison to envelope sealed bid for any item(s), the bidder will be issued a warning letter to this effect. However, if the same bidder again defaults on this count in any subsequent tender in the unit, it will be considered as fraud and will invite action by BHEL as per extant guidelines for suspension of business dealings with suppliers/ contractors (as available on www.bhel.com).

As a reminder to the bidders, system will flash following message (in RED Color) during the course of 'online sealed bid':

"Bidders to submit online sealed bid less than or equal to their envelope sealed bid already submitted to BHEL"

Detailed guidelines of **reverse auction 2016** are available in "information section" of www.bhelpem.com, same are applicable for subject tender.

Indigenous Bidders has to quote the Single Price (i.e. Total Cost to BHEL excluding GST) in Reverse Auction i. e. Price mentioned at sl. no. D column no. 17 + Price mentioned at sl. No. D column no.18 for Annexure I Group-A and at sl. D column no. 17 + Price mentioned at sl. No. D column no.18 for Annexure-II Group-B separately with loading/de loading (if any).

Foreign Bidders has to quote the Single Price (i.e. Total Cost to BHEL which consists of bidders quoted C&F value + applicable loading communicated by BHEL) in Reverse Auction i. e. Price mentioned in at sl. no. D column no. 24 for Annexure I Group-A and at sl. D column no. 24 for Annexure-II Group-B separately with loading/de loading (if any).

Price are to be inclusive of Packing & Forwarding charges and freight charges, all the routine & type tests as per tender scope including loading (if any). De-loading (if any) shall be done in line with NIT terms.

Thanking You,

With Regards,

For & on behalf of BHEL



MAZHAR WAHAB
SR ENGINEER/CMM

Please reply to:

Mazhar Wahab, Sr. Engineer
CMM

Power Project Engineering Institute Building
HRD & ESI Complex Plot No. 25, Sector -16 A,
BHEL-PEM,Noida-201301 (U.P.)
Tel No.0120-4213532, 09999498202



RATE CONTRACT

REVISED PRICE SCHEDULE FOR BUTTERFLY VALVES STEAM SERVICES (WITH CIF) REV 01

NAME OF VENDOR-													INDIGENOUS SUPPLIER								FOREIGN SUPPLIER				
SL NO.	TYPE OF VALVE	SIZE(mm)(NB)	DESIGN PRESSURE K G/CM2(G)	DESIGN TEMP (DEG OC)	OPERATION	SERVICE	RATING,DESIGN CODE	BODY & DISC MATERIAL	END CONN	SPECIAL FEATURES		HSN CODE	QTY	UNITEX-WORKSPRICE (DULY PACKED) IN PERCENTAGE OF TOTAL EX WORKS PRICE OF Butterfly Valve (Steam Service) GIVEN AT SL NO-D OF COUNMN 17	UNITEX-WORKS PRICE (DULY PACKED) (INR)	TOTAL EX-WORKSPRICE (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	
A	MAIN VALVES (ALONG WITH ACTUATOR) WITHOUT COMMISSIONING SPARES																								
A.1	BUTTERLY VALVES (STEAM SERVICE)	2000	Full vacuum and 2 kg/sq.cm	100	MOTOR OPERATED	STEAM	CL75 (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	MAIN VALVES (ALONG WITH ACTUATOR) WITHOUT COMMISSIONING SPARES (NOS.)	TO BE QUOTED	6	15.83700000%	Derived	95.0220000%	Derived	% TO BE QUOTED	% TO BE QUOTED	Derived	15.837000000%	Derived	95.0220000%	Derived	
B	COMMISSIONING SPARES																								
B.1	BUTTERFLY VALVES (STEAM SERVICE)	2000	Full vacuum and 2 kg/sq.cm	100	MOTOR OPERATED	STEAM	CL75 (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)	TO BE QUOTED	4	0.049250000%	Derived	0.197000%	Derived	% TO BE QUOTED	% TO BE QUOTED	Derived	0.049250000%	Derived	0.1970000%	Derived	
											BOTTOM GASKET (VALVES) (SETS)	TO BE QUOTED	4	0.045000000%	Derived	0.1800000%	Derived	% TO BE QUOTED	% TO BE QUOTED	Derived	0.045000000%	Derived	0.1800000%	Derived	
											O' RING AND SEALS FOR ELECTRIC ACTUATORS (SETS)	TO BE QUOTED	4	0.053250000%	Derived	0.2130000%	Derived	% TO BE QUOTED	% TO BE QUOTED	Derived	0.053250000%	Derived	0.2130000%	Derived	
											DISC SEAL (SETS)	TO BE QUOTED	4	0.164000000%	Derived	0.6560000%	Derived	% TO BE QUOTED	% TO BE QUOTED	Derived	0.164000000%	Derived	0.6560000%	Derived	
C	MANDATORY SPARES																								
C.1	BUTTERLY VALVES (STEAM SERVICE)	2000	Full vacuum and 2 kg/sq.cm	100	MOTOR OPERATED	STEAM	CL75 (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)	TO BE QUOTED	2	1.025000000%	Derived	2.0500000%	Derived	% TO BE QUOTED	% TO BE QUOTED	Derived	1.025000000%	Derived	2.0500000%	Derived	
											LIMIT SWITCH (Nos)	TO BE QUOTED	6	0.041000000%	Derived	0.2460000%	Derived	% TO BE QUOTED	% TO BE QUOTED	Derived	0.041000000%	Derived	0.2460000%	Derived	
											TORQUE SWITCH (Nos.)	TO BE QUOTED	6	0.041000000%	Derived	0.2460000%	Derived	% TO BE QUOTED	% TO BE QUOTED	Derived	0.041000000%	Derived	0.2460000%	Derived	
											AUXILIARY CONTACT (Nos)	TO BE QUOTED	2	0.041000000%	Derived	0.0820000%	Derived	% TO BE QUOTED	% TO BE QUOTED	Derived	0.041000000%	Derived	0.0820000%	Derived	
											COMPLETE MOTOR USED IN ACTUATOR (Nos)	TO BE QUOTED	2	0.328000000%	Derived	0.6560000%	Derived	% TO BE QUOTED	% TO BE QUOTED	Derived	0.328000000%	Derived	0.6560000%	Derived	
											COMPLETE SEAL KIT (SET)	TO BE QUOTED	2	0.016000000%	Derived	0.0320000%	Derived	% TO BE QUOTED	% TO BE QUOTED	Derived	0.016000000%	Derived	0.0320000%	Derived	
											COMPLETE O' RING (SET)	TO BE QUOTED	2	0.005000000%	Derived	0.0100000%	Derived	% TO BE QUOTED	% TO BE QUOTED	Derived	0.005000000%	Derived	0.0100000%	Derived	
											ELECTRONIC CARD (Nos)	TO BE QUOTED	2	0.205000000%	Derived	0.4100000%	Derived	% TO BE QUOTED	% TO BE QUOTED	Derived	0.205000000%	Derived	0.4100000%	Derived	
D	TOTAL														Derived	100.00%	TO BE QUOTED = Rs X (both in figures & words)	Derived	Derived	Derived=Y		Derived	100.00%	TO BE QUOTED=Z (both in figures & words)	

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 be 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 ratings 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 excluding GST 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 excluding GST

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		HSN CODE	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 COUNM 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 COUNM 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 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)
1	2	3	4	5	6	7	8	9	10	11	12		13	14	15	16	17	18	19	20	21	22	23	24
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-MD16																								
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.																								

[Handwritten Signature]



RATE CONTRACT

REVISED 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 0C)	OPERATION	SERVICE	RATING/DESIGN CODE	BODY & DISC MATERIAL	END CONN	SPECIAL FEATURES		HSN CODE	QTY	UNITEX-WORKS PRICE (DULY PACKED) IN PERCENTAGE OF TOTAL EX WORKS PRICE OF Butterfly Valve (Steam Service) GIVEN AT SL NO-D OF COUNMN 17	UNITEX-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		
A	MAIN VALVES (ALONG WITH ACTUATOR) WITHOUT COMMISSIONING SPARES																									
A.1	BUTTERLY VALVES (STEAM SERVICE)	1600	Full vacuum and 2 kg/sq.cm	100	MOTOR OPERATED	STEAM	CL75B (MINIMUM) OF AWWA C504-2010	CCS (ASTM A216 GR. WCB)	BWASPER 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.)	TO BE QUOTED	2	2.35650000%	Derived	4.713000%	Derived	% TO BE QUOTED	% TO BE QUOTED	Derived	2.35650000%	Derived	4.713000%	Derived		
A.2	BUTTERLY VALVES (STEAM SERVICE)	1800	Full vacuum and 2 kg/sq.cm	100	MOTOR OPERATED	STEAM	CL75B (MINIMUM) OF AWWA C504-2010	CCS (ASTM A216 GR. WCB)	BWASPER 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.)	TO BE QUOTED	4	3.06450000%	Derived	12.258000%	Derived	% TO BE QUOTED	% TO BE QUOTED	Derived	3.06450000%	Derived	12.258000%	Derived		
A.3	BUTTERLY VALVES (STEAM SERVICE)	2000	Full vacuum and 2 kg/sq.cm	100	MOTOR OPERATED	STEAM	CL75 (MINIMUM) OF AWWA C516-2010	CCS (ASTM A216 GR. WCB)	BWASPER 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.)	TO BE QUOTED	22	3.63477273%	Derived	79.965000%	Derived	% TO BE QUOTED	% TO BE QUOTED	Derived	3.63477273%	Derived	79.965000%	Derived		
B	COMMISSIONING SPARES																									
B.1	BUTTERLY VALVES (STEAM SERVICE)	1600	Full vacuum and 2 kg/sq.cm	100	MOTOR OPERATED	STEAM	CL75B (MINIMUM) OF AWWA C504-2010	CCS (ASTM A216 GR. WCB)	BWASPER 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)	TO BE QUOTED	2	0.00900000%	Derived	0.018000%	Derived	% TO BE QUOTED	% TO BE QUOTED	Derived	0.00900000%	Derived	0.018000%	Derived		
											BOTTOM GASKET (VALVES) (SETS)	TO BE QUOTED	2	0.00800000%	Derived	0.016000%	Derived	% TO BE QUOTED	% TO BE QUOTED	Derived	0.00800000%	Derived	0.016000%	Derived		
											O' RING AND SEALS FOR ELECTRIC ACTUATORS (SETS)	TO BE QUOTED	2	0.00700000%	Derived	0.014000%	Derived	% TO BE QUOTED	% TO BE QUOTED	Derived	0.00700000%	Derived	0.014000%	Derived		
											DISC SEAL (SETS)	TO BE QUOTED	2	0.02700000%	Derived	0.054000%	Derived	% TO BE QUOTED	% TO BE QUOTED	Derived	0.02700000%	Derived	0.054000%	Derived		
B.2	BUTTERLY VALVES (STEAM SERVICE)	1800	Full vacuum and 2 kg/sq.cm	100	MOTOR OPERATED	STEAM	CL75B (MINIMUM) OF AWWA C504-2010	CCS (ASTM A216 GR. WCB)	BWASPER 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)	TO BE QUOTED	4	0.01025000%	Derived	0.041000%	Derived	% TO BE QUOTED	% TO BE QUOTED	Derived	0.01025000%	Derived	0.041000%	Derived		
											BOTTOM GASKET (VALVES) (SETS)	TO BE QUOTED	4	0.00925000%	Derived	0.037000%	Derived	% TO BE QUOTED	% TO BE QUOTED	Derived	0.00925000%	Derived	0.037000%	Derived		
											O' RING AND SEALS FOR ELECTRIC ACTUATORS (SETS)	TO BE QUOTED	4	0.01000000%	Derived	0.040000%	Derived	% TO BE QUOTED	% TO BE QUOTED	Derived	0.01000000%	Derived	0.040000%	Derived		
											DISC SEAL (SETS)	TO BE QUOTED	4	0.03625000%	Derived	0.145000%	Derived	% TO BE QUOTED	% TO BE QUOTED	Derived	0.03625000%	Derived	0.145000%	Derived		
B.3	BUTTERLY VALVES (STEAM SERVICE)	2000	Full vacuum and 2 kg/sq.cm	100	MOTOR OPERATED	STEAM	CL75 (MINIMUM) OF AWWA C516-2010	CCS (ASTM A216 GR. WCB)	BWASPER 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)	TO BE QUOTED	16	0.01131250%	Derived	0.181000%	Derived	% TO BE QUOTED	% TO BE QUOTED	Derived	0.01131250%	Derived	0.181000%	Derived		
											BOTTOM GASKET (VALVES) (SETS)	TO BE QUOTED	16	0.01037500%	Derived	0.166000%	Derived	% TO BE QUOTED	% TO BE QUOTED	Derived	0.01037500%	Derived	0.166000%	Derived		
											O' RING AND SEALS FOR ELECTRIC ACTUATORS (SETS)	TO BE QUOTED	16	0.01225000%	Derived	0.196000%	Derived	% TO BE QUOTED	% TO BE QUOTED	Derived	0.01225000%	Derived	0.196000%	Derived		
											DISC SEAL (SETS)	TO BE QUOTED	16	0.03762500%	Derived	0.602000%	Derived	% TO BE QUOTED	% TO BE QUOTED	Derived	0.03762500%	Derived	0.602000%	Derived		
C	MANDATORY SPARES																									

SL NO.	TYPE OF VALVE	SIZE mm (NB)	DESIGN PRESSURE K G/C M2 (G)	DESIGN TEMP (DEG OC)	OPERATION	SERVICE	RATING/DESIGN CODE	BODY & DISC MATERIAL	END CONN	SPECIAL FEATURES		HSN CODE	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.1	BUTTERFLY VALVES (STEAM SERVICE)	1600	Full vacuum and 2 kg/sq.cm	100	MOTOR OPERATED	STEAM	CL75B (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)	TO BE QUOTED	1	0.22200000%	Derived	0.222000%	Derived	% TO BE QUOTED	% TO BE QUOTED	Derived	0.22200000%	Derived	0.222000%	Derived
											LIMIT SWITCH (Nos)	TO BE QUOTED	1	0.00800000%	Derived	0.008000%	Derived	% TO BE QUOTED	% TO BE QUOTED	Derived	0.00800000%	Derived	0.008000%	Derived
											TORQUE SWITCH (Nos.)	TO BE QUOTED	1	0.00800000%	Derived	0.008000%	Derived	% TO BE QUOTED	% TO BE QUOTED	Derived	0.00800000%	Derived	0.008000%	Derived
											AUXILIARY CONTACT (Nos)	TO BE QUOTED	1	0.00800000%	Derived	0.008000%	Derived	% TO BE QUOTED	% TO BE QUOTED	Derived	0.00800000%	Derived	0.008000%	Derived
											COMPLETE MOTOR USED IN ACTUATOR (Nos)	TO BE QUOTED	1	0.05700000%	Derived	0.057000%	Derived	% TO BE QUOTED	% TO BE QUOTED	Derived	0.05700000%	Derived	0.057000%	Derived
											COMPLETE SEALKIT (SET)	TO BE QUOTED	1	0.00500000%	Derived	0.005000%	Derived	% TO BE QUOTED	% TO BE QUOTED	Derived	0.00500000%	Derived	0.005000%	Derived
											COMPLETE 'O' RING (SET)	TO BE QUOTED	1	0.00500000%	Derived	0.005000%	Derived	% TO BE QUOTED	% TO BE QUOTED	Derived	0.00500000%	Derived	0.005000%	Derived
											ELECTRONIC CARD (Nos)	TO BE QUOTED	1	0.03600000%	Derived	0.036000%	Derived	% TO BE QUOTED	% TO BE QUOTED	Derived	0.03600000%	Derived	0.036000%	Derived
C.2	BUTTERFLY VALVES (STEAM SERVICE)	1800	Full vacuum and 2 kg/sq.cm	100	MOTOR OPERATED	STEAM	CL75B (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)	TO BE QUOTED	1	0.22200000%	Derived	0.222000%	Derived	% TO BE QUOTED	% TO BE QUOTED	Derived	0.22200000%	Derived	0.222000%	Derived
											LIMIT SWITCH (Nos)	TO BE QUOTED	1	0.00800000%	Derived	0.008000%	Derived	% TO BE QUOTED	% TO BE QUOTED	Derived	0.00800000%	Derived	0.008000%	Derived
											TORQUE SWITCH (Nos.)	TO BE QUOTED	1	0.00800000%	Derived	0.008000%	Derived	% TO BE QUOTED	% TO BE QUOTED	Derived	0.00800000%	Derived	0.008000%	Derived
											AUXILIARY CONTACT (Nos)	TO BE QUOTED	1	0.00800000%	Derived	0.008000%	Derived	% TO BE QUOTED	% TO BE QUOTED	Derived	0.00800000%	Derived	0.008000%	Derived
											COMPLETE MOTOR USED IN ACTUATOR (Nos)	TO BE QUOTED	1	0.05700000%	Derived	0.057000%	Derived	% TO BE QUOTED	% TO BE QUOTED	Derived	0.05700000%	Derived	0.057000%	Derived
											COMPLETE SEALKIT (SET)	TO BE QUOTED	1	0.00500000%	Derived	0.005000%	Derived	% TO BE QUOTED	% TO BE QUOTED	Derived	0.00500000%	Derived	0.005000%	Derived
											COMPLETE 'O' RING (SET)	TO BE QUOTED	1	0.00500000%	Derived	0.005000%	Derived	% TO BE QUOTED	% TO BE QUOTED	Derived	0.00500000%	Derived	0.005000%	Derived
											ELECTRONIC CARD (Nos)	TO BE QUOTED	1	0.03600000%	Derived	0.036000%	Derived	% TO BE QUOTED	% TO BE QUOTED	Derived	0.03600000%	Derived	0.036000%	Derived
C.3	BUTTERFLY VALVES (STEAM SERVICE)	2000	Full vacuum and 2 kg/sq.cm	100	MOTOR OPERATED	STEAM	CL75 (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)	TO BE QUOTED	2	0.23500000%	Derived	0.470000%	Derived	% TO BE QUOTED	% TO BE QUOTED	Derived	0.23500000%	Derived	0.470000%	Derived
											LIMIT SWITCH (Nos)	TO BE QUOTED	6	0.00933333%	Derived	0.056000%	Derived	% TO BE QUOTED	% TO BE QUOTED	Derived	0.00933333%	Derived	0.056000%	Derived
											TORQUE SWITCH (Nos.)	TO BE QUOTED	6	0.00933333%	Derived	0.056000%	Derived	% TO BE QUOTED	% TO BE QUOTED	Derived	0.00933333%	Derived	0.056000%	Derived
											AUXILIARY CONTACT (Nos)	TO BE QUOTED	2	0.00950000%	Derived	0.019000%	Derived	% TO BE QUOTED	% TO BE QUOTED	Derived	0.00950000%	Derived	0.019000%	Derived
											COMPLETE MOTOR USED IN ACTUATOR (Nos)	TO BE QUOTED	2	0.07550000%	Derived	0.151000%	Derived	% TO BE QUOTED	% TO BE QUOTED	Derived	0.07550000%	Derived	0.151000%	Derived
											COMPLETE SEALKIT (SET)	TO BE QUOTED	2	0.00400000%	Derived	0.008000%	Derived	% TO BE QUOTED	% TO BE QUOTED	Derived	0.00400000%	Derived	0.008000%	Derived
											COMPLETE 'O' RING (SET)	TO BE QUOTED	2	0.00100000%	Derived	0.002000%	Derived	% TO BE QUOTED	% TO BE QUOTED	Derived	0.00100000%	Derived	0.002000%	Derived
											ELECTRONIC CARD (Nos)	TO BE QUOTED	2	0.04700000%	Derived	0.094000%	Derived	% TO BE QUOTED	% TO BE QUOTED	Derived	0.04700000%	Derived	0.094000%	Derived
D	TOTAL													Derived	100.00%	TO BE QUOTED = Rs X	Derived	Derived	Derived=Y		Derived	100.00%	TO BE QUOTED=Z	
Note:-																								

