



Bharat Heavy Electricals Limited
(A Govt. Of India Undertaking)
Project Engineering Management

Ref. Enquiry No.: PE/PG/TAN/E-5583/2017 Dated: 12.04.2017

DUE DATE
05.05.2017
BY 02:00 P.M.

CORRIGENDUM-1

Date: 15.04.2017

Project:- 1X800MW TANGEDCO NORTH CHENNAI (STAGE-III) BTG
Package:- STEEL GATE/GLOBE/NR VALVES (WATER SYSTEM)
Enquiry No.:- PE/PG/TAN/E-5583/2017 Dated: 12.04.2017

Regarding above details, please note that BOQ CUM PRICE SCHEDULE FORMAT has been revised as Annexure-1. Please submit the offer on/before 05.05.2017 (02:00 PM).

With Regards,
For & on behalf of BHEL

(Jitesh Kumar)
Sr. Engineer/PG-II-1
BHEL-PEM

Jitesh Kumar
Sr. ENGINEER/PG-II-1,
BHEL/PS-PEM
POWER PROJECT ENGINEERING INSTITUTE,
PLOT NO. 25, SECTOR - 16A, NOIDA (UP)

Regd. Office:
BHEL House
Siri Fort
New Delhi-110049

**PROJECT- 1X800MW TANGEDCO NORTH CHENNAI (STAGE-III) BTG
PACKAGE- STEEL GATE/GLOBE/NR VALVES (WATER SYSTEM)
ENQUIRY No.- PE/PG/TAN/E-5583/2017 Dated: 12.04.2017**

ANNEXURE-1

BOQ CUM PRICE SCHEDULE FORMAT (REV.01)

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	23	24					
SL NO.	TAG NUMBER.	TYPE OF VALVE	SIZE mm (NB)	OPERATION	DESIGN		SERVICE	RATING, DESIGN & TESTING CODE	BODY, BONNET & DISC MATERIAL	HINGE PIN MATERIAL	BODY & DISC SEAT AND OTHER TRIM MATERIAL	END CONN	SPECIAL FEATURES	MATCHING PIPE OD X THK		VALVES QUANTITY	COMMISSIONING SPARES				REMARKS	FOR INDIAN BIDDERS						FOR FOREIGN BIDDERS	
					PRESSURE KG/CM2(G)	TEMP(DEG°C)								BONNET/COVER GASKET (NOS)	GLAND PACKING (SETS)		ACTUATOR O-RING AND SEAL (SETS)	UNIT PRICE EX-WORKS (DULY PACKED) (Rs.)	TOTAL PRICE EX-WORKS (DULY PACKED) (Rs.)	ED WITH CESS @ %(Rs.)		CST against Form C/E1&E2@ _____% (Rs.)	Freight including service tax @ _____% (Rs.)	Total F.O.R site (Rs.)	UNIT C&F PRICE (Currency)	TOTAL C&F PRICE (Currency)			
DMCW SYSTEM																													
1	DMCW40, DMCW42	GLV	200	MAN	10	60	DMCW SERVICE	Class 150 of BS 1873	Equivalent casting grade of SS 316L grade	-	Equivalent casting grade of SS 316L grade	FLANGED as per Class 150 of ASME B16.5 R/F	-	219.10	6.40	2	2	2	0										
2	DMCW17, DMCW19, DMCW48, DMCW50	GLV	150	MAN	10	60	DMCW SERVICE	Class 150 of BS 1873	Equivalent casting grade of SS 316L grade	-	Equivalent casting grade of SS 316L grade	FLANGED as per Class 150 of ASME B16.5 R/F	-	166.50	5.40	4	4	4	0										
3	DMCW123	GLV	150	MO	12	60	DMCW SERVICE	Class 150 of BS 1873	Equivalent casting grade of SS 316L grade	-	Equivalent casting grade of SS 316L grade	FLANGED as per Class 150 of ASME B16.5 R/F	1. OPEN /CLOSE TIME SHALL BE 40-60 SEC. 2. INCHING TYPE	166.50	5.40	1	1	1	1	VALVE TO BE SUPPLIED WITH INTEGRAL STARTER									
4	DMCW58	GLV	100	MAN	10	60	DMCW SERVICE	Class 150 of BS 1873	Equivalent casting grade of SS 316L grade	-	Equivalent casting grade of SS 316L grade	FLANGED as per Class 150 of ASME B16.5 R/F	-	115.00	5.40	1	1	1	0										
5	DMCW44, DMCW46, DMCW116	GLV	80	MAN	12	60	DMCW SERVICE	Class 150 of BS 1873	Equivalent casting grade of SS 316L grade	-	Equivalent casting grade of SS 316L grade	FLANGED as per Class 150 of ASME B16.5 R/F	-	89.50	4.80	3	3	3	0										
6	DMCW20, DMCW21, DMCW22, DMCW23, DMCW171-DMCW190, DMCW111, DMCW112, DMCW113, DMCW114, DMCW119, DMCW120, DMCW70	GLV	50	MAN	12	60	DMCW SERVICE	Class 800 of BSEN ISO 15761	SS 316L	-	SS 316L	SOCKET WELDED as per ASME B16.11	-	60.80	4.50	31	31	31	0										
														60.3	3.9														
7	DMCW62, DMCW63	GLV	50	MO	10	60	DMCW SERVICE	Class 800 of BSEN ISO 15761	SS 316L	-	SS 316L	SOCKET WELDED as per ASME B16.11	1. OPEN /CLOSE TIME SHALL BE 40-60 SEC. 2. INCHING TYPE	60.3	3.9	2	2	2	2	VALVE TO BE SUPPLIED WITH INTEGRAL STARTER									
														60.8	4.5														
8	DMCW32, DMCW33, DMCW34, DMCW35, DMCW36, DMCW37	GLV	40	MAN	10	60	DMCW SERVICE	Class 800 of BSEN ISO 15761	SS 316L	-	SS 316L	SOCKET WELDED as per ASME B16.11	-	48.80	4.00	6	6	6	0										
9	DMCW65, DMCW56, DMCW64, DMCW69, DMCW125, DMCW54, DMCW55, DMCW61, DMCW71, DMCW72, DMCW73, DMCW74, DMCW121, DMCW122, DMCW151-DMCW170, 22 as per layout	GLV	25	MAN	12	60	DMCW SERVICE	Class 800 of BSEN ISO 15761	SS 316L	-	SS 316L	SOCKET WELDED as per ASME B16.11	-	33.40	3.40	5	5	5	0										
														34.20	4.00	51	51	51	0										
10	DMCW39, DMCW41	GV	200	MAN	10	60	DMCW SERVICE	Class 150 of BSEN 10434	Equivalent casting grade of SS 316L grade	-	Equivalent casting grade of SS 316L grade	FLANGED as per Class 150 of ASME B16.5 R/F	-	219.10	6.40	2	2	2	0										
11	DMCW16, DMCW18, DMCW47, DMCW49	GV	150	MAN	10	60	DMCW SERVICE	Class 150 of BSEN 10434	Equivalent casting grade of SS 316L grade	-	Equivalent casting grade of SS 316L grade	FLANGED as per Class 150 of ASME B16.5 R/F	-	166.50	5.40	4	4	4	0										
12	DMCW57, DMCW66, DMCW67, DMCW124	GV	100	MAN	12	60	DMCW SERVICE	Class 150 of BSEN 10434	Equivalent casting grade of SS 316L grade	-	Equivalent casting grade of SS 316L grade	FLANGED as per Class 150 of ASME B16.5 R/F	-	115.00	5.40	4	4	4	0										
13	DMCW43, DMCW45, DMCW115	GV	80	MAN	12	60	DMCW SERVICE	Class 150 of BSEN 10434	Equivalent casting grade of SS 316L grade	-	Equivalent casting grade of SS 316L grade	FLANGED as per Class 150 of ASME B16.5 R/F	-	89.50	4.80	3	3	3	0										
14	DMCW04, DMCW05, DMCW06	NRV	500	-	10	60	DMCW SERVICE	Class 150 of BS 1868	Equivalent casting grade of SS 316L grade	Equivalent casting grade of SS 316L grade	Equivalent casting grade of SS 316L grade	FLANGED as per Class 150 of ASME B16.5 R/F	-	508.00	8.00	3	3	0	0										
15	DMCW103, DMCW104	NRV	300	-	12	60	DMCW SERVICE	Class 150 of BS 1868	Equivalent casting grade of SS 316L grade	Equivalent casting grade of SS 316L grade	Equivalent casting grade of SS 316L grade	FLANGED as per Class 150 of ASME B16.5 R/F	-	323.90	6.40	2	2	0	0										
16	DMCW68, DMCW126	NRV	25	-	12	60	DMCW SERVICE	Class 800 of BSEN ISO 15761	SS 316L	SS 316L	SS 316L	SOCKET WELDED as per ASME B16.11	-	33.40	3.40	2	2	0	0										
CW & ACW SYSTEM																													
17	ACW-24-27	GV	25	MAN	10	60	ACW SERVICE	Class 800 of ASME B16.34	DUPLSEX SS	-	DUPLSEX SS	SOCKET WELDED as per ASME B16.11	-	33.4	3.38	4	4	4	0										
18	ACW-28-33	GV	50	MAN	10	60	ACW SERVICE	Class 800 of ASME B16.34	DUPLSEX SS	-	DUPLSEX SS	SOCKET WELDED as per ASME B16.11	-	60.3	3.91	6	6	6	0										
19	ACW-15, 17, 19, 21, CW-06, 08, 10, 12, CW-18, 20, 23, 24	GV	150	MAN	10	60	ACW SERVICE	Class 150 of BSEN 10434	DUPLSEX SS	-	DUPLSEX SS	FLANGED as per Class 150 of ASME B16.5 R/F	-	168.3	3.40	12	12	12	0										
20	CW-13, 14, 15, 16	GV	200	MAN	5	60	CW SERVICE	Class 150 of BSEN 10434	DUPLSEX SS	-	DUPLSEX SS	FLANGED as per Class 150 of ASME B16.5 R/F	-	219.1	6.40	4	4	4	0										
21	ACW-16, 18, 20, 22	GLV	150	MAN	10	60	ACW SERVICE	Class 150 of BS 1873	DUPLSEX SS	-	DUPLSEX SS	FLANGED as per Class 150 of ASME B16.5 R/F	-	168.3	3.40	4	4	4	0										
TOTAL																156	156	149	3										

NOTES

- LEGENDS: MAN=MANUAL, MO=MOTORIZED, GV=GATE VALVE, GLV=GLOBE VALVE, NRV=NON RETURN VALVE
- COMMISSIONING SPARES: ONE SET OF GLAND PACKING & 1 NO. BONNET GASKET FOR EACH GATE VALVE, ONE NO. OF COVER GASKET FOR SWING CHECK NON RETURN VALVE
- MAIN VALVE PRICES SHALL BE EXCLUSIVE OF COST OF COMMISSIONING SPARES PRICES.
- IN THE UNPRICED SCHEDULE:
 - BIDDER TO INDICATE/FILL ALL PRICES OF COMMISSIONING SPARES, ITEM WISE. PRICES SHALL NOT BE CLUBBED OR INCLUDED IN MAIN VALVE OR ANY OTHER ITEM(S).
 - BIDDER TO INDICATE FREIGHT CHARGES SEPARATELY. FREIGHT CHARGES SHALL NOT BE INCLUDED IN EX-WORKS PRICE.

Handwritten signature and date: 15.04.17