



An ISO 9001
Company

Bharat Heavy Electricals Limited

(High Pressure Boiler Plant)

Tiruchirappalli – 620014, TAMIL NADU, INDIA

MATERIALS MANAGEMENT

TITLE	Phone: +91 431 2577096 Fax : +91 431 252 0383 Email : sivabala@bheltry.co.in
CORRIGENDUM for NIT_33230	

	Reference Number: Enquiry ENSFV00169	Enquiry Date: 15.06.2017	Due date for submission of quotation: 27.07.17
You are requested to quote the Enquiry number date and due date in all your correspondences. This is only a request for quotation and not an order			

CORRIGENDUM

Details of Corrigendum
1. The Tender Due date is extended from 27/07/17 to 10/08/17 2. The Annexures Annex-1 & Annex-1A have been changed
All other terms and conditions as published in the NIT 33230 remain unaltered.

BHEL commercial terms & conditions with Price Bid formats and all annexure can be downloaded from BHEL web site http://www.bhel.com or from the Government tender website http://tenders.gov.in (public sector units) Bharat Heavy Electricals Limited) under enquiry reference " ENSFV00169 "	
Tenders should reach us before 14:00 hours on the due date Technical bid will be opened at 14:30 hours on the due date Tenders would be opened in presence of the tenderers who have submitted their offers and who may like to be present.	Yours faithfully, For Bharat Heavy Electricals Limited S.SIVABALA

Scope of Supply

Sl.no.	PGr	Matl Group	Material	Matl Desc	Open Qty	Specifications
1	SFV	BOERV	974611360000	SHERV & CTRL ACCESSORIES-TNEB-1818-1821	4	SPEC:ERV:014/05
2	SFV	BOERV	974611380000	HRHERV1 & CTRL ACCESSORY-TNEB-1818-1821	2	SPEC:ERV:014/05
3	SFV	BOERV	974611390000	HRHERV2 & CTRL ACCESSORY-TNEB-1818-1821	4	SPEC:ERV:014/05
4	SFV	BOERV	974611360000	SHERV & CTRL ACCESSORIES-TNEB-1818-1821	2	SPEC:ERV:014/05
5	SFV	BOERV	974611380000	HRHERV1 & CTRL ACCESSORY-TNEB-1818-1821	1	SPEC:ERV:014/05
6	SFV	BOERV	974611390000	HRHERV2 & CTRL ACCESSORY-TNEB-1818-1821	2	SPEC:ERV:014/05
					15	

 Bharat Heavy Electricals Ltd., Trichy-14, Valves Engineering 365-003/A			DATA SHEET ELECTROMATIC RELIEF VALVE VDS:ER:1818 Rev: 01		Sheet: 1 of 4 Date: 18.07.2017 Cust no: 1818, 1821 & 1822 Pre: Rabin R Appd: E.Athiannavi
Customer:			M/s TANGEDCO A/c. North Chennai 1x800MW & Uppur 2x800MW		
1	Serial no.		1	2	3
2	Tag no.		10LBA11-AA701, 10LBA12-AA701	10LBB11-AA706	10LBB11-AA702, 10LBB12-AA702
3	Location		SUPERHEATER OUTLET	REHEATER OUTLET	REHEATER OUTLET
4	Required quantity	nos.	2 nos. / Unit	1 no. / Unit	2 nos. / Unit
5	Fluid to be handled		STEAM	STEAM	STEAM
6	Required Capacity	kg/h	372750 (for 2 valves)	391064 (for 3 valves)	
7	Set Pressure	kg/cm ² (g)	292.7	65.8	66.5
8	Relieving Temperature	°C	603±5° C	603±5° C	603±5° C
9	Valve Type		Power Control-Pneumatic Actuator	Power Control-Pneumatic Actuator	Power Control-Pneumatic Actuator
10	Orifice Designation		*	*	*
11	Calculated Orifice Area	mm ²	*	*	*
12	Selected Orifice Area	mm ²	*	*	*
13	Rated Capacity per Valve	kg/h	*	*	*
14	System Design Temperature	°C	608.0	608.0	608.0
15	System Operating Pressure	kg/cm ² (g)	276.9	59.98	59.98
16	System Design Pressure	kg/cm ² (g)	299.0	68.04	68.04
17	Imposed Back Pr.		Atmosphere	Atmosphere	Atmosphere
18	Allowable Over Pr.		As per ASME Sec-I	As per ASME Sec-I	As per ASME Sec-I
19	Blowdown	%	As per ASME Sec-I	As per ASME Sec-I	As per ASME Sec-I
20	Applicable Code		ASME Sec-I / IBR	ASME Sec-I / IBR	ASME Sec-I / IBR
21	Valve Model		*	*	*
22	Inlet Size & Rating		*	*	*
23	Inlet Type/Standard		Butt Weld/ASME B16.25	Butt Weld/ASME B16.25	Butt Weld/ASME B16.25
24	Outlet Size & Rating		*	*	*
25	Outlet Type/Standard		Flanged/ASME B16.5	Flanged/ASME B16.5	Flanged/ASME B16.5
26	Body Material		SA182 F92 (or) Equivalent	SA182 F92 (or) Equivalent	SA182 F92 (or) Equivalent
27	Disc Material		*	*	*
28	Nozzle/Seat Material		*	*	*
29	Inlet Neck Material		SA182 F92	SA182 F92	SA182 F92
30	Guide Material		*	*	*
31	Spindle Material		*	*	*
32	Spring Material		*	*	*
33	Lift	mm	*	*	*
34	Weight	kg	*	*	*
35	Reaction Force	kgf	*	*	*
36	Opening/Raising Time	Seconds	*	*	*
37	Noise generated at source	dBA	*	*	*
38	Inspection/Certification		Hyd.Test (Form-IIIC as per IBR regulation 269)	Hyd.Test (Form-IIIC as per IBR regulation 269)	Hyd.Test (Form-IIIC as per IBR regulation 269)
39	Required Accessories		All control accessories (Air Pr. available = 4.0 to 7.0 kg/cm ² g, Electrical supply = 220V DC)	All control accessories (Air Pr. available = 4.0 to 7.0 kg/cm ² g, Electrical supply = 220V DC)	All control accessories (Air Pr. available = 4.0 to 7.0 kg/cm ² g, Electrical supply = 220V DC)
Notes: * means Vendor to specify 1. Offers received from vendor shall include the spares indicated in Annexure - I also. Offers without spares will be summarily rejected. 2. BHEL reserves the right to change the spares requirements based on the customer need on PO. 3. Valve inlet edge preparation style shall be as per Annexure - III.					

GENERAL NOTES for Power Assisted Relief Valves

1. Selected Valve model should be the same for one particular location.
2. Tag nos. are given for one unit only, for other units will be furnished later.
3. BHEL approved procedures should be followed for inspection, testing and certification.
4. Test certificates should be in line with IBR form-IIIC.
5. Site Information given in Annexure –II should also be considered in the ERV design offered

ANNEXURE - I

The details of spares components and required quantity for a given material code are given below.

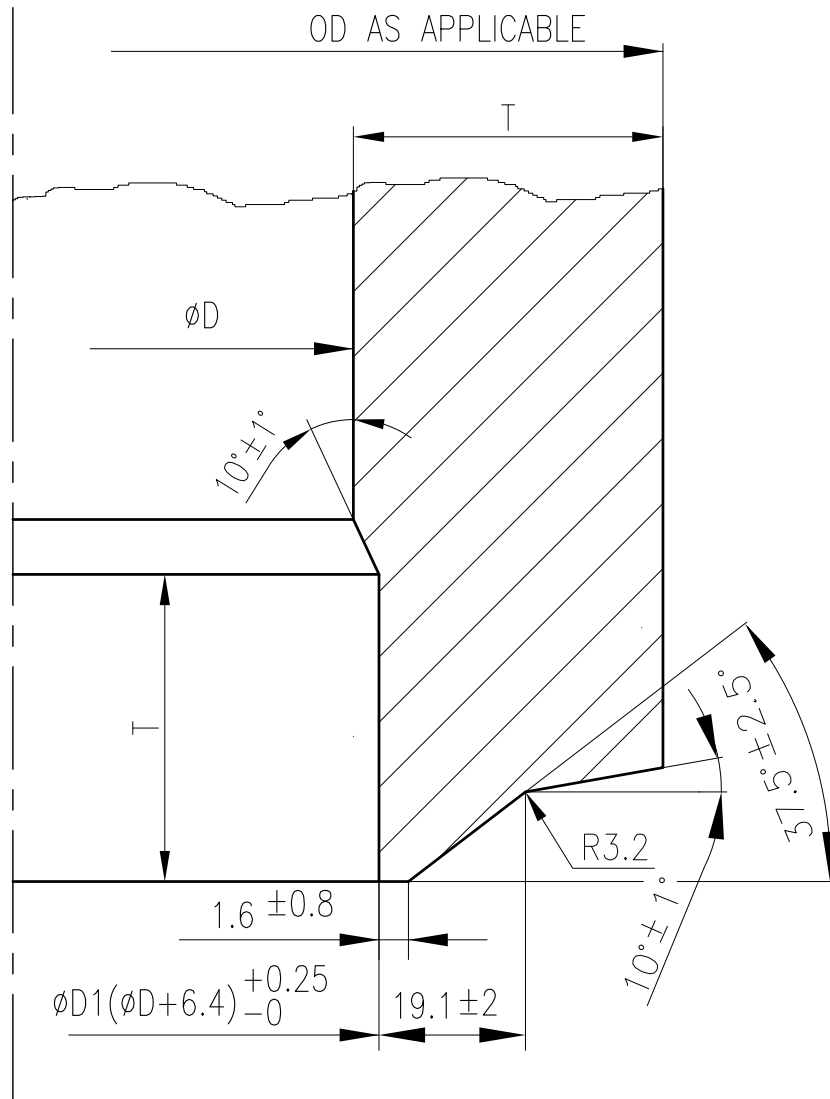
A) Material Code for operational Spares of SHERV for TANGEDCO North Chennai & Uppur Projects			
Sl no	Material Code	Description	Quantity
1	974611360010	Body Seal (SH ERV)	1 no.
2	974611360020	Spring (SH ERV)	1 no.
3	974611360030	Gland Springs (SH ERV)	24 nos.
4	974611360040	Packing (SH ERV)	1 no.
5	974611360050	Seat (SH ERV)	1 no.
6	974611360060	Ball (SH ERV)	1 no.
7	974611360070	End Cap (SH ERV)	1 no.
8	974611360080	Pressure Transmitter (SH ERV)	1 no.
9	974611360090	Solenoid Valve (SH ERV)	1 no.
B) Material Code for operational spare of HRHERV for TANGEDCO North Chennai & Uppur Projects			
Sl no	Material Code	Description	Quantity
1	974611380010	Body Seal (HRH ERV)	1 no.
2	974611380020	Spring (HRH ERV)	1 no.
3	974611380030	Gland Springs (HRH ERV)	24 nos.
4	974611380040	Packing (HRH ERV)	1 no.
5	974611380050	Seat (HRH ERV)	1 no.
6	974611380060	Ball (HRH ERV)	1 no.
7	974611380070	End Cap (HRH ERV)	1 no.
8	974611380080	Pressure Transmitter (HRH ERV)	1 no.
9	974611380090	Solenoid Valve (HRH ERV)	1 no.
C) Material Code: 974611370000 - Complete Power Assisted Relief Valve without Actuator and Controls (SH ERV) for TANGEDCO North Chennai & Uppur Projects			
D) Material Code: 974611400000 - Complete Power Assisted Relief Valve without Actuator and Controls (HRH ERV) for TANGEDCO North Chennai & Uppur Projects			

ANNEXURE - II

SITE INFORMATION

1. Ambient Temperature (Min) : 15°C
Ambient Temperature (Max) : 50°C
2. Relative Humidity : 75%
3. Height above MSL : 10 m
4. Seismic Zone : Zone III as defined in IS1893-2002
 - a. Zone Factor : 0.16
 - b. Importance Factor : 1.75
5. Wind Data - Calculations for wind effect shall be in accordance with IS 875 (Part 3):1987
 - a. Basic Wind Speed : 50m/sec

ANNEXURE – III



GIVEN DIMENSIONS ARE IN MILLIMETERS

VALVE INLET EDGE PREPARATION STYLE