



General Note: **BHARAT HEAVY ELECTRICALS LIMITED**

(A Government of India Undertaking)
HIGH PRESSURE BOILER PLANT
PURCHASE DEPARTMENT - FOSSIL BOILERS
THIRUCHIRAPALLI - 620014
TAMILNADU (INDIA)

Page:1/*

PHONE : 0431-2574111
GRAMS : BHARATELEC
FAX NO: 0431-2520719
E-mail :
Web :

429-002/A

OFFICE COPY

Collective No.

1802100217

Enquiry Date

03.12.2021

Due Date For Quotation

06.01.2022

Please quote Enquiry No, Date and due date in all correspondences.
This is only a request for quotation and not an order

Item	Description	Unit	Quantity
10	L172912486701001 SEPERATOR LEVEL CONTROL VALVE ASSEMBLY. Tag Nos. For HWL1 & HWL2 valves are 10HAG15AA301 & 10HAG15AA302 respectively.	SET	4.000
20	L172912486701002 MINIMUM ECONOMISER FLOW CONTROL VALVE ASSY Tag Nos. For MEFCV is 10HAG31AA301.	SET	2.000
30	L172912486701003 COMMON ELECTRO HYDRAULIC CONTROL UNIT. ,,One (1) Common Hydraulic Unit and Electronic Control Unit for the positioning control of the two BOILER SEPARATOR LEVEL CONTROL VALVES (HWL-1, HWL-2 VALVES) and Minimum Economizer Flow Control Valve (MEFCV)	SET	2.000
40	L172912486701004 SPECIAL TOOLS	SET	2.000
50	L172912486701005 TUBINGS AND FITTINGS	SET	2.000
60	L172912486701006 FILLS OF HYDRAULIC FLUID	SET	4.000
70	L172982498802001 COMM SPARES FOR EACH VALVE (START-UP CVS) One lot of commissioning spares for each valve (Two seperator control valves , one Minimum Economiser Flow control valve)and Electro Hydraulic Power and control Kit as per SELLER'S specific recommendation	SET	2.000
80	L1729S2486701017 ELEC.-HYDRAU. ACTUATOR FOR MEFCV	LOT	1.000
90	L1729S2486701018 ELEC.-HYDRAU. ACTUATOR FOR SEP.CV	LOT	1.000

The offers should reach us 30 minutes before the time of opening of tenders.
The offers will be opened at 14.30 hrs on the due date of tender in the presence of tenderers who have submitted their offer and who may like to be present for the tender opening.Late and delayed offers are liable to be rejected.

Yours faithfully,
For **BHARAT HEAVY ELECTRICALS LIMITED**

MANAGER / PURCHASE
(FOSSIL BOILERS)



BHARAT HEAVY ELECTRICALS LIMITED

(A Government of India Undertaking)
HIGH PRESSURE BOILER PLANT
PURCHASE DEPARTMENT - FOSSIL BOILERS
THIRUCHIRAPALLI - 620014
TAMILNADU (INDIA)

Page:2/*

429-002/A

1802100217 / 03.12.2021			23505
100	L1729S2486701019 VALVE TRIM (INCL.CAGE, PLUG, STEM) MEFCV	SET	1.000
110	L1729S2486701020 VALVE TRIM (INCL.CAGE, PLUG, STEM) SEP CV	LOT	1.000
120	L1729S2486701021 DIAPHRAGMS, O' RINGS, SEAL FOR MEFCV	LOT	2.000
130	L1729S2486701022 DIAPHRAGMS, O' RINGS, SEAL FOR SEP CV	LOT	4.000
140	L1729S2486701023 PR GAUGES FOR MEFCV	LOT	2.000
150	L1729S2486701024 PR GAUGES FOR SEP CV	LOT	2.000
160	L1729S2486701025 SOLENOID VALVES FOR MEFCV	LOT	2.000
170	L1729S2486701026 SOLENOID VALVES FOR SEP CONTROL VLV	LOT	2.000
180	L1729S2486701027 POSITIONER UNITS (COMPLETE UNIT) FOR MEFCV	LOT	1.000
190	L1729S2486701028 POSITIONER UNITS (COMPLETE UNIT) FOR SEPCV	LOT	1.000
200	L1729S2486701029 POSITION FEEDBACK TRANSMITTERS FOR MEFCV	LOT	2.000
210	L1729S2486701030 POSITION FEEDBACK TRANSMITTERS FOR SEPCV	LOT	2.000
220	L1729S2486701031 TORQUE& LIMIT SWITCH ASSEMBLY FOR MEFCV	LOT	2.000
230	L1729S2486701032 TORQUE& LIMIT SWITCH ASSEMBLY FOR SEP CV	LOT	2.000
240	L182312486701001 SEPERATOR LEVEL CONTROL VALVE ASSEMBLY. Tag nos for HWL1 and HWL2 VALVES ARE HAG15AA301 & HAG15AA302 RESPECTIVELY.	SET	10.000
250	L182312486701002	SET	5.000

The offers should reach us 30 minutes before the time of opening of tenders.
The offers will be opened at 14.30 hrs on the due date of tender in the presence of
tenderers who have submitted their offer and who may like to be present for the tender
opening.Late and delayed offers are liable to be rejected.

Yours faithfully,
For **BHARAT HEAVY ELECTRICALS LIMITED**

MANAGER / PURCHASE
(FOSSIL BOILERS)
Yours faithfully,



BHARAT HEAVY ELECTRICALS LIMITED

(A Government of India Undertaking)
HIGH PRESSURE BOILER PLANT
PURCHASE DEPARTMENT - FOSSIL BOILERS
THIRUCHIRAPALLI - 620014
TAMILNADU (INDIA)

Page:3/*

429-002/A

1802100217 / 03.12.2021

23505

	MINIMUM ECONOMISER FLOW CONTROL VALVE ASSY TAG NO FOR MEFCV VALVE IS HAG31AA301		
260	L182312486701003 COMMON ELECTRO HYDRAULIC CONTROL UNIT. „One (1) Common Hydraulic Unit and Electronic Control Unit for the positioning control of the two BOILER SEPARATOR LEVEL CONTROL VALVES (HWL-1, HWL-2 VALVES) and Minimum Economizer Flow Control Valve (MEFCV)	SET	5.000
270	L182312486701004 SPECIAL TOOLS	SET	5.000
280	L182312486701005 TUBINGS AND FITTINGS	SET	5.000
290	L182312486701006 FILLS OF HYDRAULIC FLUID	SET	10.000
300	L182382498804001 COMM SPARES FOR EACH VALVE (START-UP CVS) One lot of commissioning spares for each valve (Two seperator control valves , one Minimum Economiser Flow control valve)and Electro Hydraulic Power and control Kit as per SELLER'S specific recommendation	SET	5.000
310	L1823S2486701001 SMART POSITIONERS/ POSITIONER FOR SEP LV	NO	2.000
320	L1823S2486701033 SMART POSITIONERS/ POSITIONER FOR MIN ECO	NO	2.000
330	L1823S2486701034 COMPLETE CONSUMABLES FOR SEP LVL CV 1 Set of complete consumable consists of 7 Nos. of stem packing ring , 3 Nos. of gaskets ,1 No. of O-ring and 1 No. of balance seal.	SET	4.000
340	L1823S2486701035 COMPLETE CONSUMABLES FOR MIN ECO FLOW CV 1 Set of complete consumable consists of 7 Nos. of stem packing ring , 3 Nos. of gaskets ,1 No. of O-ring and 1 No. of balance seal.	SET	4.000
350	L1823S2486701036 VALVE DISC FOR SEP LVL CV	SET	4.000

The offers should reach us 30 minutes before the time of opening of tenders. The offers will be opened at 14.30 hrs on the due date of tender in the presence of tenderers who have submitted their offer and who may like to be present for the tender opening. Late and delayed offers are liable to be rejected.

Yours faithfully,
For **BHARAT HEAVY ELECTRICALS LIMITED**

MANAGER / PURCHASE
(FOSSIL BOILERS)
Yours faithfully,



BHARAT HEAVY ELECTRICALS LIMITED

(A Government of India Undertaking)
HIGH PRESSURE BOILER PLANT
PURCHASE DEPARTMENT - FOSSIL BOILERS
THIRUCHIRAPALLI - 620014
TAMILNADU (INDIA)

Page:4/*

429-002/A

1802100217 / 03.12.2021			23505
360	L1823S2486701037 VALVE DISC FOR MIN ECO FLOW CV (Includes Glandpacking, packing ring, bonner seal)	SET	4.000
370	L1823S2486701038 VALVE SPINDLE FOR SEP LVL CV	SET	4.000
380	L1823S2486701039 VALVE SPINDLE FOR MIN ECO FLOW CV	SET	4.000
390	L1823S2486701040 VALVE SEAT FOR SEP LVL CV	SET	4.000
400	L1823S2486701041 VALVE SEAT FOR MIN ECO FLOW CV	SET	4.000
410	L1823S2486701042 BUSH FOR SEP LVL CV	SET	4.000
420	L1823S2486701043 BUSH FOR MIN ECO FLOW CV	SET	4.000
430	L1823S2486701044 GUIDE FOR SEP LVL CV	SET	4.000
440	L1823S2486701045 GUIDE FOR MIN ECO FLOW CV	SET	4.000
450	L1823S2486701046 COUPLING NUT FOR SEP LVL CV 1 SET = 4 nos.	SET	4.000
460	L1823S2486701047 COUPLING NUT FOR MIN ECO FLOW CV 1 SET = 4 nos	SET	4.000
470	L1823S2486701048 ACTUATOR PISTON WITH ROD & SEAL FOR SEP	SET	4.000
480	L1823S2486701049 ACTUATOR PISTON WITH ROD & SEAL FOR MIN	SET	4.000
490	L1823S2486701050 STEM PACKING AND RUBBER DIAPHRAGMS FOR S	SET	2.000
500	L1823S2486701051 STEM PACKING AND RUBBER DIAPHRAGMS FOR M	SET	2.000
510	L1823S2486701052 VALVE TRIM FOR SEP LVL CV 1 Set of valve trim consist of 1 No. of Stem, 1 No. of plug, 1 No. of Seat, 1 No. of cage, and 1 No. of guide bushing	SET	2.000
520	L1823S2486701053	SET	2.000

The offers should reach us 30 minutes before the time of opening of tenders.
The offers will be opened at 14.30 hrs on the due date of tender in the presence of tenderers who have submitted their offer and who may like to be present for the tender opening. Late and delayed offers are liable to be rejected.

Yours faithfully,
For **BHARAT HEAVY ELECTRICALS LIMITED**

MANAGER / PURCHASE
(FOSSIL BOILERS)
Yours faithfully,



BHARAT HEAVY ELECTRICALS LIMITED

(A Government of India Undertaking)
HIGH PRESSURE BOILER PLANT
PURCHASE DEPARTMENT - FOSSIL BOILERS
THIRUCHIRAPALLI - 620014
TAMILNADU (INDIA)

Page:5/*

429-002/A

1802100217 / 03.12.2021

23505

	VALVE TRIM FOR MIN ECO FLOW CV 1 Set of valve trim consist of 1 No. of Stem, 1 No. of plug, 1 No. of Seat, 1 No. of cage, and 1 No. of guide bushing		
530	L1823S2486701054	NO	2.000
	SOLENOID VALVES FOR SEP LVL CV		
540	L1823S2486701055	NO	2.000
	SOLENOID VALVES FOR MIN ECO FLOW CV		
550	L1823S2486701056	NO	2.000
	POSITION TRANSMITTERS FOR SEP LVL CV		
560	L1823S2486701057	NO	2.000
	POSITION TRANSMITTERS FOR MIN ECO FLOW C		
570	L1823S2486701058	NO	2.000
	LIMIT SWITCHES FOR SEP LVL CV		
580	L1823S2486701059	NO	2.000
	LIMIT SWITCHES FOR MIN ECO FLOW CV		
590	L1823S2486701060	NO	4.000
	GUIDE BUSH FOR SEP LVL CV		
600	L182812486701001	SET	6.000
	SEPERATOR LEVEL CONTROL VALVE ASSEMBLY. Tag Nos. For HWL1 & HWL2 valves are HAG15AA301 & HAG15AA302 respectively.		
610	L182812486701002	SET	3.000
	MINIMUM ECONOMISER FLOW CONTROL VALVE ASSY Tag Nos. For MEFCV is HAG31AA301.		
620	L182812486701003	SET	3.000
	COMMON ELECTRO HYDRAULIC CONTROL UNIT. ,,One (1) Common Hydraulic Unit and Electronic Control Unit for the positioning control of the two BOILER SEPARATOR LEVEL CONTROL VALVES (HWL-1, HWL-2 VALVES) and Minimum Economizer Flow Control Valve (MEFCV)		
630	L182812486701004	SET	3.000
	SPECIAL TOOLS		
640	L182812486701005	SET	3.000
	TUBINGS AND FITTINGS		
650	L182812486701006	SET	6.000
	FILLS OF HYDRAULIC FLUID		
660	L182882498802001	SET	3.000

The offers should reach us 30 minutes before the time of opening of tenders.
The offers will be opened at 14.30 hrs on the due date of tender in the presence of
tenderers who have submitted their offer and who may like to be present for the tender
opening. Late and delayed offers are liable to be rejected.

Yours faithfully,
For **BHARAT HEAVY ELECTRICALS LIMITED**

MANAGER / PURCHASE
(FOSSIL BOILERS)
Yours faithfully,



BHARAT HEAVY ELECTRICALS LIMITED

(A Government of India Undertaking)
HIGH PRESSURE BOILER PLANT
PURCHASE DEPARTMENT - FOSSIL BOILERS
THIRUCHIRAPALLI - 620014
TAMILNADU (INDIA)

Page:6/*

429-002/A

1802100217 / 03.12.2021

23505

COMM SPARES FOR START UP CONTROL VALVES One lot of commissioning spares for each control valve (Two Separator Level Control Valves - HWL valves , one Minimum Economiser Flow control valve)and Electro Hydraulic Power and control Kit as per SELLER'S specific recommendation			
670	L1828S2486701001 E/H ACTUATOR FOR SEPARATOR LVL CTRL VAL	NO	1.000
680	L1828S2486701002 E/H ACTUATOR FOR MEFCV	NO	1.000
690	L1828S2486701003 DIAPHRAGMS,ORINGS FOR SEP LVL CTRL VAL	SET	2.000
700	L1828S2486701004 DIAPHRAGMS,ORINGS FOR MEFCV	SET	2.000
710	L1828S2486701005 PRESSURE GAUGE FOR SEP LVL CTRL VAL	NO	2.000
720	L1828S2486701006 PRESSURE GAUGE FOR MEFCV (If Pressure gauge model is same for separator Level Control Valve and MEFCV. Then this item is not applicable)	NO	2.000
730	L1828S2486701007 SOLENOID VALVE FOR SEP LVL CONTROL VALVE	NO	2.000
740	L1828S2486701008 SOLENOID VALVE FOR MEFCV (If Solenoid model is same for separator Level Control Valve and MEFCV. Then this item is not applicable)	NO	2.000
750	L1828S2486701009 POSITIONER/SMART POSITIONER- SEP LVL CTR Positioner Units/Smart Positioners (complete unit) & accessories (link assembly) for Separator Level control Valve	NO	1.000
760	L1828S2486701010 POSITIONER/SMART POSITIONER- MEFCV Positioner Units/Smart Positioners (complete unit) & accessories (link assembly) for MEFCV. If model for Positioner Unit/Smart Positioner is same for Separator level control valve and MEFCV, then this item is not applicable	NO	1.000

The offers should reach us 30 minutes before the time of opening of tenders.
The offers will be opened at 14.30 hrs on the due date of tender in the presence of
tenderers who have submitted their offer and who may like to be present for the tender
opening.Late and delayed offers are liable to be rejected.

Yours faithfully,
For **BHARAT HEAVY ELECTRICALS LIMITED**

MANAGER / PURCHASE
(FOSSIL BOILERS)
Yours faithfully,



BHARAT HEAVY ELECTRICALS LIMITED

(A Government of India Undertaking)
HIGH PRESSURE BOILER PLANT
PURCHASE DEPARTMENT - FOSSIL BOILERS
THIRUCHIRAPALLI - 620014
TAMILNADU (INDIA)

Page:7/*

429-002/A

1802100217 / 03.12.2021

23505

770	L1828S2486701011	NO	2.000
	PNEUMATIC AIR FITER/REGULATOR(IF APPLIC)		
780	L1828S2486701012	NO	2.000
	AIR LOCK RELAY (IF APPLICABLE)		

General Note:

- 1)Commercial terms annexure A enclosed shall be submitted along with the offer for evaluation.
- 2)Kindly provide point wise confirmation to our specification and fill all the columns in the datasheet.
- 3)The Tender will be operated on TWO PART BID basis and you are requested to submit your offerthrough e-procurement mode. a)Technical offer with commercial terms and Unpriced bid and b)Price bid separately
- 02)The evaluation will be done on package basis as given below and on

The offers should reach us 30 minutes before the time of opening of tenders.
The offers will be opened at 14.30 hrs on the due date of tender in the presence of tenderers who have submitted their offer and who may like to be present for the tender opening.Late and delayed offers are liable to be rejected.

Yours faithfully,
For **BHARAT HEAVY ELECTRICALS LIMITED**

MANAGER / PURCHASE
(FOSSIL BOILERS)
Yours faithfully,



BHARAT HEAVY ELECTRICALS LIMITED

(A Government of India Undertaking)
HIGH PRESSURE BOILER PLANT
PURCHASE DEPARTMENT - FOSSIL BOILERS
THIRUCHIRAPALLI - 620014
TAMILNADU (INDIA)

Page:8/*

429-002/A

1802100217 / 03.12.2021

23505

total cost to BHEL after all loading,as following.

Package 1: Start up system control valves along with commissioning and mandatory spares for two units of Udangudi Project. Enquiry Sl. no. 10-230.

Package 2: Start up system control valve along with commissioning and mandatory spares for five units of Yadadri Project. Enquiry Sl. no. 240-590.

Package-3: Startup system control valves, along with commissioning and Mandatory spares for three units of Patratu 3x800MW Project. (RFQ Sl. No. 600 to 780)

Unit wise item details are provided in Annexure-E: Schedule of items.

5)For Indegenous Vendors quote shall be on FOR/Destination basis as per Annexure-A.

6)Vendor to furnish unit weight and dimensional drawings of the valves at the time of the offer itself.

7)Vendor shall follow applicable painting schedule for this project.

8)While calculating the Quantity of Items for Commissioning spares, vendor shall round the number to the nearest higher whole number.

9)Vendor to submit clear technical offer indicating the scope of supply for each items with BHEL material code and set details indicating applicable items with applicable description,

Specification and quantity and also should clearly indicate not applicable items.

10)All filled up data sheets, drawings, calculations for Cv, Noise, Valve outlet velocity,Lift vs Cv % and catalogues are to be submitted along with the offer.

11)Vendor should submit the Cv test report for offered valves for our review and approval.

Enclosures:

01. Annexure-A: Terms and Conditions
02. Annexure-B: Prequalification requirement for Udangudi Project.
03. Annexure-C: Prequalification requirement for Yadadri Project.
04. Annexure-D: Prequalification requirement for Patratu Project.
05. Annexure-E: Schedule of Items.
06. Specification for Startup Control Valves BM/SCV:001.
07. Datasheets: Annexure-I & II to specification for Udangudi, Yadadri and Patratu Projects
08. Standard Quality Plan SQP:SD:06
09. Price Bid Format
10. Annexure-M: Sub supplier questionare for Patratu Customer Approval.
11. Integrity Pact.
12. No Deviation Format.
13. Third Party Non-Disclosure Agreement.
14. Annexure-X: Breif Procedure for conduct of Conciliation Proceedings.

"LD clause has to be confirmed without fail."

The offers should reach us 30 minutes before the time of opening of tenders. The offers will be opened at 14.30 hrs on the due date of tender in the presence of tenderers who have submitted their offer and who may like to be present for the tender opening.Late and delayed offers are liable to be rejected.

Yours faithfully,
For **BHARAT HEAVY ELECTRICALS LIMITED**

MANAGER / PURCHASE
(FOSSIL BOILERS)
Yours faithfully,