



BHARAT HEAVY ELECTRICALS LIMITED

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

PHONE :2577645
GRAMS : BHARATELEC
FAX NO: 2520719
E-mail: srchandran@bheltry.co.in
Web:

429-002/A

	Enquiry No 2691500061 - 41	Enquiry Date 21.07.2015	Due Date for Quotation 14.08.2015
Please quote Enquiry No, Date and due date in all correspondences. This is only a request for quotation and not an order. Bid should be submitted in two parts. 1.Techno-commercial bid (Part-I) and 2.Price bid(Part-II) in a separate sealed cover and both covers must be placed in a third cover and sealed. Our Enquiry No., Enq. date & Enq. Due date must be written on all three covers.			

Item	Description	Unit	Quantity	Delivery Quantity	Schedule Date
10	DISTILLATION APPARATUS DISTILLATION APPARATUS SHALL BE SUPPLIED AS FOLLOWS; 1.FLASK STILL HEAD,THERMOMETER,LIEBIG CONDENSER AND RECIEVER ADAPTER (L-SHAPED). 2.CORK/THEROMETER ADAPTER TO HOLD WITH FLASK DURING ANALYSIS. 3.CALIBRATION CERTIFICATE OF THERMOMETER FROM NABL ACCREDITATED INSTITUTION SHALL BE SUPPLIED IN ALONG WITH APPARATUS. 4.RANGE OF THERMOMETER = 0 TO 300 DEG.C. 5.CAPACITY OF THE FLASK - 500 ML. 6.DIMENSION AND CONFIGURATION OF CONDENSER,FLASK,RECEIVER ADAPTER SHALL BE IN LINE WITH IS:718 - 1977.REFERENCE PICS ARE ATTACHED HEREWITH.	NO	1.000	1.00	01.09.15

General Note:

,,Important note:

,,YOU SHOULD CONFIRM LD CLASS , VALIDITY AND PAYMENT TERMS AS
,,PER BHEL COMMERCIAL TERMS AND CONDITIONS. OTHERWISE YOUR ,,OFFER WILL BE REJECTED.

All the tenders may be addressed to the following address:

**The Tender Opening Cell / MM
Room No: 26, Building 24, Ground Floor
Bharat Heavy Electricals Limited
TIRUCHIRAPALLI 620014**


In case personal delivery of the offer, it shall be dropped into the respective box kept in Room No: 26, after duly entering the data in the system.

Offers will be accepted only up to 14.00 Hrs on the due date. Therefore, vendors shall ensure to submit the offers well before this time. All due date extension requirements should be addressed to the respective

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.

D. CHANDRAMOHAN
Dy. General Manager
Purchase (CP & SP) / MM / RM
BHEL, TIRUCHY - 620 014.

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


MANAGER / PURCHASE
(FOSSIL BOILERS)
Yours faithfully,



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Purchase mail IDs. All the due date extension requests from vendors will be considered only up to 48 hours before the due date and time.

Vendors are requested to avoid submission of offers through e mail / fax. In case of any unavoidable situation, offers shall be sent through e mail to the following mail ID only tender_cell@bheltry.co.in.

As tenders are being opened by Common Tender Opening Cell, offer covers should be sealed with tenderer's distinctive seal and super scribed with correct Tender No. item of supply and due date of opening.

The offers will be opened at 14.30 hrs on the due date of the 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.


Enclosures:

"LD clause has to be confirmed without fail."

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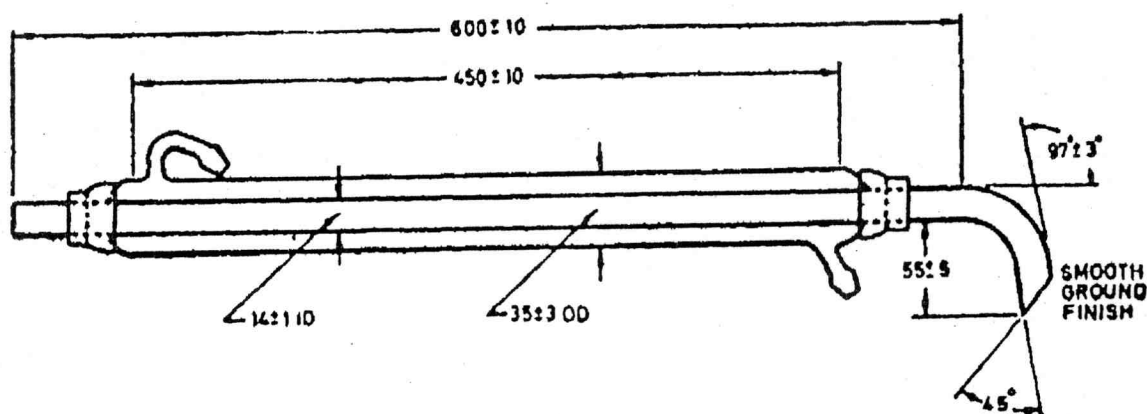
D. CHANDRAMOHAN
Dy. General Manager
Purchase (CP & SP) / MM / RM
BHEL, TIRUCHY - 620 014.

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


MANAGER / PURCHASE
(FOSSIL BOILERS)
Yours faithfully,

- d) An asbestos board $150 \times 150 \times 6$ mm in size having a central hole 50 mm in diameter shall be so placed on the asbestos shelf that the two holes are approximately concentric and the distillation flask when in position completely closes the hole of the asbestos board.

A-3.1.4 Liebig Condenser — With the bent end made of Type I glass (graded according to IS : 2303-1963*), with a wall thickness of 1.0 to 1.5 mm and conforming to the shape and dimensions shown in Fig. 5. The bent portion may, however, be substituted by an adapter fitted externally in such a manner that distillate does not come in contact with the cork.



All dimensions in millimetres.

FIG. 5 LIEBIG CONDENSER

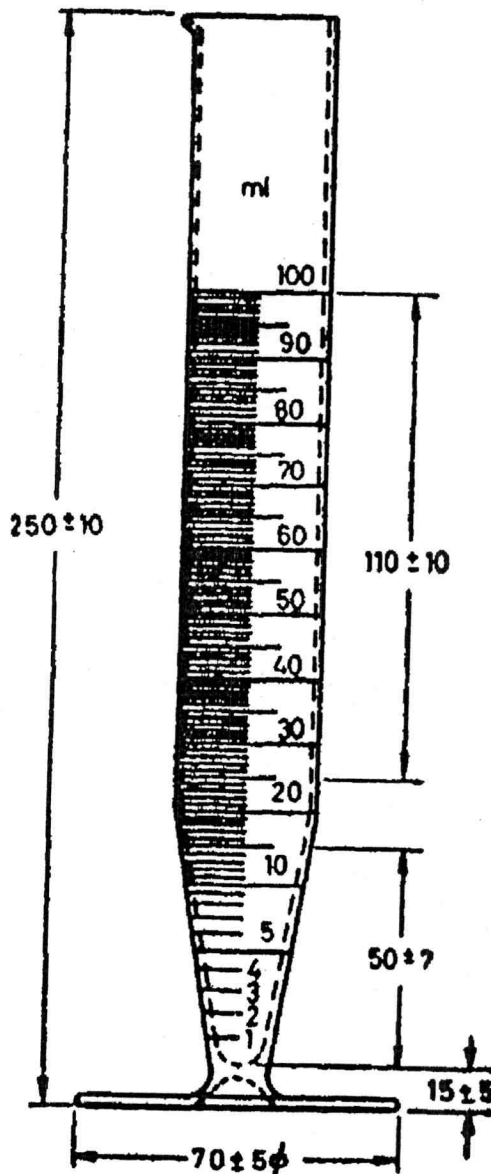
A-3.1.5 Receiver — of 100-ml capacity, with dimensions and graduation as shown in Fig. 6.

A-3.1.6 Electric Heater, Gas Burner or Other Flame Type Heater — any suitable heater or burner that enables the distillation to be carried out as described in A-3.2.

A-3.2 Procedure — Assemble the apparatus as shown in Fig. 7. Measure 100 ml of the material at laboratory temperature by means of the receiver and transfer it to the distillation flask. Add a fragment (about 2 mm cube) of porous or other suitable inert material to prevent bumping, connect the flask to the condenser and insert the thermometer. Fit the thermometer in the flask so that the bottom of the capillary is in level with the lower edge of the side-tube joint. Pass an adequate supply of cooling water at 0 to 5°C through the condenser. To receive

*Method of grading glass for alkalinity.

the distillate, use the receiver in which the sample was measured, without rinsing or drying. Heat the flask slowly; especially after ebullition has begun, in order that the mercury column of the thermometer may become fully expanded before the first drop of distillate falls into the receiver, care being taken that the total period of this preliminary heating shall be not less than 5 nor greater than 10 minutes. Place the receiver in a manner that the condensate flows down its side. Continue the distillation at the rate of 4 to 5 ml per minute (about 2 drops per second). Read the temperature on the thermometer when 2 ml and 97 ml of the distillate have been collected in the cylinder.



All dimensions in millimetres.

FIG. 6 RECEIVER

Licensed To: V. PAUL DANIEL

Email: danielv@bheltry.co.in

IS : 718 - 1977

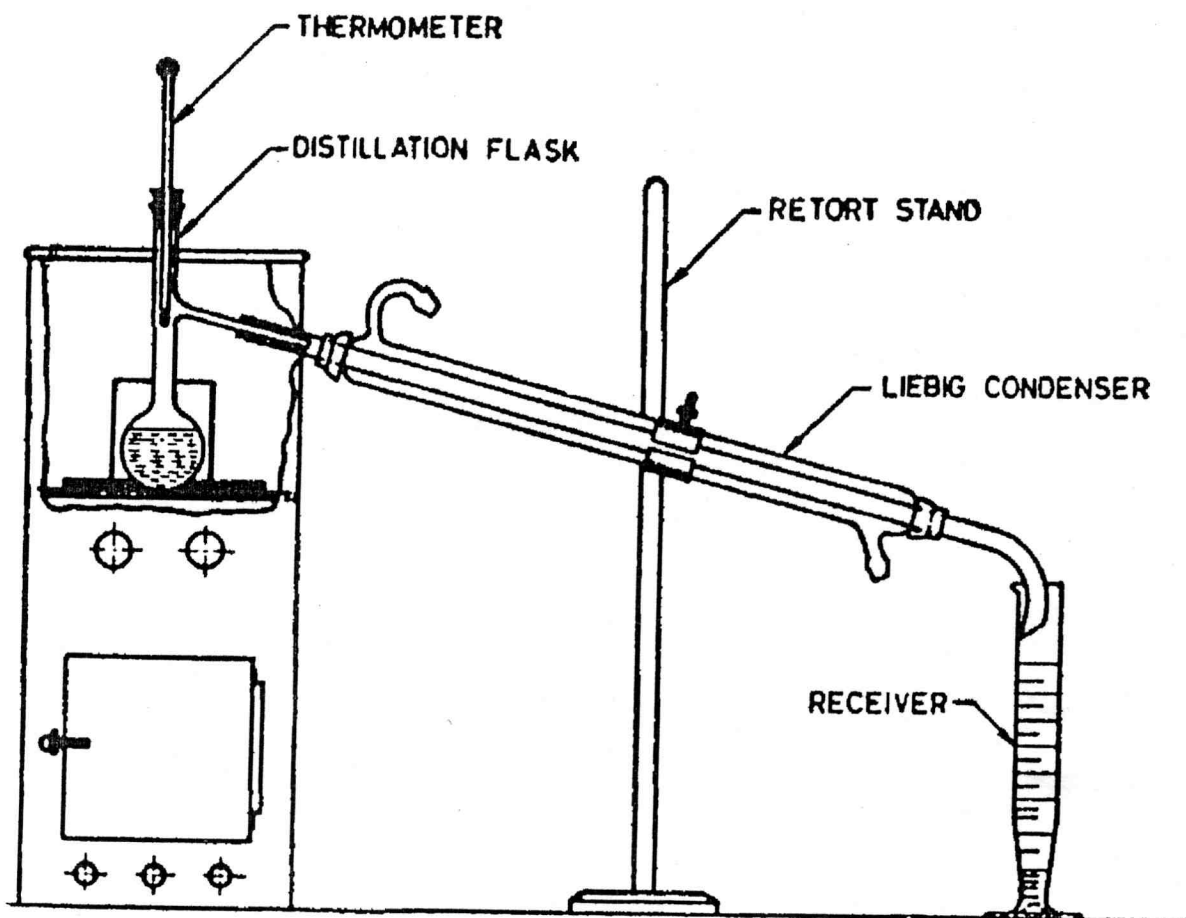


FIG. 7 ASSEMBLY OF APPARATUS FOR DETERMINING DISTILLATION RANGE

A-3.3 Correction of the Thermometer Reading

A-3.3.1 Error of Scale— In all the thermometer readings, make the corrections as indicated on the certificate of the instrument.

A-3.3.2 Correction for Barometric Pressure— If the barometric pressure prevailing during the determination is normal, namely, 760 mm Hg, no correction need be applied to the specified temperature and the thermometer scale as corrected under **A-3.3.1** shall be used as such. If, however, the prevailing pressure deviates from 760 mm Hg, the specified temperatures shall also be corrected as follows:

- a) For every 10 mm Hg above 760 mm Hg, subtract 0.43 deg from the specified temperature; and
- b) For every 10 mm Hg below 760 mm Hg, add 0.43 deg to the specified temperature.

NOTE — These corrections are valid only for pressures above 700 mm Hg.

COMMERCIAL TERMS& CONDITIONS

ANNEXURE-III(m)

Bharat Heavy Electricals Limited, Tiruchirapalli – 620 014, Tamilnadu

MM: CP & SP

(Check List - to be filled and submitted along with Techno-Commercial Bid)

Sl. No.	BHEL Commercial Terms and Conditions for Indigenous Supplies	Vendor's Confirmation / Comments
1	Bid should be submitted in Two Parts . 1. Techno-commercial Bid (Part-I) and 2. Price Bid (Part-II) in a separate sealed cover and both the covers must be placed in a Third Cover and Sealed. Our Enquiry No., Enq. Date & Enq. Due date must be written on all Three covers	
2	Technical confirmation to BHEL's Specification shall be furnished. If needed additional sheets shall be used.	
3	Prices shall be quoted item wise only.	
4	Delivery INCO TERMS- Price quoted -FOR BHEL TRICHY, STORES or ex- WORKS Basis or, FOR WORKS (DESPATCHING STATION) In case of EX works / FOR WORKS basis, indicate the Despatching station. Prices shall be quoted on "FIRM PRICE" basis only.	
5	Validity of offer shall be for a minimum period of 120 days from the date of Tender opening	
6	Delivery period from the date of Letter of Intent / Purchase order	
7	Liquidated damages shall be 0.5% of the total order value per week or part thereof subject to a maximum of 10% of the total order value. For staggered delivery schedule, LD shall be 0.5% of the undelivered portion per week of the delay or part thereof subject to a maximum of 10% of the total order value. Any deviation from the above LD clause, loading will be applied to the extent to which it is not agreed by the bidder (at offered value).	
8	Payment term for supply portion: Payment term is 100% direct payment after 45 days from the date of receipt and acceptance of materials. Note: Only Direct Payment after goods receipt & acceptance will be accepted .Above payment term acceptance is essential for consideration of your offer Any deviation in the above payment term will attract loading as mentioned below. "Base rate of SBI (as applicable on the date of bid opening. Techno-commercial bid opening in case of two part bids) + 6% shall be considered for loading for the period of relaxation sought by bidders. Payment through Bank is not preferred. In case of Payment through Bank is opted by Supplier, BHEL prefers documents submission through bank with copy of LR and door delivery of Goods to Stores with Consignee copy attached. In this case Loading will be 3% on the offered value. Offers of indigenous Suppliers with payment terms as <u>LC/Advance Payment are liable for rejection.</u> Important Note: BHEL will consider the ranking after the loading is applied as referred vide Sl. No. 7& 8 above wherever deviations are observed.	
9	Following Risk Purchase clause shall be applicable: The purchaser at his option will be entitled to terminate the contract and to purchase elsewhere at the risk and cost of the seller either the whole of the goods or any part which the supplier has failed to deliver or dispatch within the time stipulated or if the same were not available, the best and the nearest available substitute therefore. The supplier shall be liable for any loss which the Purchaser may sustain by reason of such risk purchases.	
10	Erection / commissioning: (if applicable only) Erection / commissioning charges if any has been mentioned in the offer or else confirmation that Erection / commissioning shall be done at free of cost is available in the offer.	
11	The equipment shall be guaranteed as per tender condition from the date of receipt & acceptance./(commissioning (commissioning date ,if applicable as per tender condition) Normally No deviation permitted and the <u>deviated offers are liable for rejection.</u>	

COMMERCIAL TERMS& CONDITIONS

ANNEXURE-III(m)

12	Equipment will be inspected at vendor’s works prior to dispatch if applicable. However final inspection and acceptance of equipment will be after installation at BHEL, Trichy, Tamilnadu.	
13	The vendor shall provide necessary drawings, Test Certificates and Operating Maintenance Manuals etc., as called for in the Technical Specification, in the required number of copies at no extra cost.	
14	Any warranty replacement during warranty period shall be supplied free of charge on FOR BHEL, Trichy, Tamilnadu basis.	
15	Performance Bank Guarantee, if applicable as per tender condition. Normally No deviation permitted and the <u>deviated offers are liable for rejection.</u>	
OTHER DETAILS REQUIRED		
16	% of Excise Duty with cess	
17	% of TAX (VAT) (TNGST with FORM-17)	
18	% of TAX (VAT) without form	
19	% of TAX (CST) (CST with C-FORM)	
20	% of TAX (CST) without form	
21	Packing & Forwarding Charges (in % only)	
22	Freight& transit insurance charges, if any(in % only) Freight charges from Dispatching station to BHEL, Tiruchirapalli (Note: If the delivery terms is Ex Works the materials has to be sent through BHEL approved carrier only ,in this case the freight will be borne by BHEL)	
23	Approximate Net weight of the total consignment	
24	Approximate Gross weight of the total consignment	
25	Approximate Dimensions of the Consignment	
26	Name of the contact person	
27	Land Line Number	
28	Fax Number	
29	Mobile Number	
30	E-mail ID	
31	PAN No.	
32	CST No.	TIN No.

- a) It is confirmed that all the terms and conditions stipulated in the Enquiry have been fully understood by us and all clarifications & details have been obtained.
- b) Applicable % of ED, Sales Tax -CST or VAT, Service Tax), Freight, Insurance and Installation and Commissioning Charges etc., are indicated in offer.

Full postal Address:

Signature & Office Seal of the vendor

Note:-

Your specific acceptances to our Payment terms, LD & Risk Purchase (RP) Clause are essential for consideration of your offer. Otherwise your offer is liable for rejection.
No row shall be left blank. Please indicate NA, in case the item is “not applicable