



BHEL GOINDWAL

**TERMS AND CONDITIONS FOR**  
**(Tender Enquiry No. 1415 116 Dated 15.11.2014 Due date 29.11.2014)**  
**ITEM: Equipment of 72KW Muffle Furnace**

**DUE DATE OF OPENING: 29.11.2014**

**1. INVITING TENDERS :**

Tenders in two part bids are invited from manufacturers/dealers for supply of Equipment of 72KW Muffle Furnace. Following point need to be noted by manufacturers and dealers as follows-

**Pre-Qualifying Criteria (Part I):**

**Note that for qualifying in Part -I bidder shall furnish the copy of POs having PO value of Rs 2 Lakh each or 4 lakh (or above collectively) issued by minimum two number of customers to whom such items of the furnace have been supplied.**

The Three bids should be submitted in **separate sealed inner envelopes**.

**For manufacturers-**

**Procurement shall be preferred from manufacturers. In case manufacturer insists on enqaging a dealer/ agent, such dealer/agent is not allowed to represent more than one manufacturer.**

**For dealers-**

**In case of dealers/agents, Authorized dealer certificate is required from original manufacturer for this tender. In case bids are received from dealer/agent and manufacturer both, bid submitted by dealer will be rejected. A dealer representing more than one manufacturer will be rejected, kindly quote for single make only.**

Sealed tenders in three Parts; Part-I: Pre Qualifying Criteria, Part-II Techno-commercial bid and Part-III: Price bid are hereby invited for supply of '**Equipment of 72KW Muffle Furnace**' as per tender enquiry. The relevant documents are attached with the Enquiry.

The three bids should be submitted in **separate sealed inner envelopes** duly mentioning the detail as follows:

Bid	Bid description	Superscribing on envelope	*** Should contain ***
Part 1	Pre-Qualifying Criteria	Part-I (Pre-Qualifying) bid against tender enquiry no:1415 116 dated 15.11.2014 due for opening on 29.11.2014	1. Purchase Orders having PO value of Rs 2 Lakh each or 4 lakh (or above collectively) issued by minimum two number of customers to whom such items of the furnace have been supplied.
Part 2 in Second sealed envelope	Techno-Commercial Offer	Part-II (Techno-Commercial) bid against tender enquiry no: 1415 116 dated 15.11.2014 due for opening on 29.11.2014.	1. Acceptance of all terms and conditions of tender enquiry. (Preferred is submitting signed copy of terms and conditions; if nothing is mentioned for any term, it shall be summarily concluded that the same is acceptable and no representation whatsoever shall be entertained later on). 2. <b>Un-priced bid as per format attached. All details, i.e. whether quoted for item, duties and taxes etc. should be filled.</b>
Part 3 in Third sealed envelope	Price Bid	Part-III (Price) bid against tender enquiry No: 1415 116 Dated: 15.11.2014	<b>Price bid in the format attached.</b> Preferably the price bid envelop should contain ONLY the price bid. Further, if even the same conditions are mentioned in the Part-II, but after scrutiny of Part-I, the bidder has agreed to BHEL terms, the same shall be binding and any such condition found in Part-II shall in no case be discussed. <b>Anything other than prices mentioned in the price bid shall be considered invalid</b>



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All Three sealed envelopes should be put in outer sealed envelope superscribing all details i.e. Enquiry Number, Date, Supplier's Name and Address and Item.

Time of submission is by 1500 Hrs on Due Date. Time of Pre-Qualifying (Part I) opening is 1530 Hrs on due date. Based on evaluation of Pre-Qualifying bids Techno Commercial Bids(Part-II) will be opened of bidders who qualify in Part-I. Further Based on evaluation of techno-commercial offers (Part-II), Price bids (of bidders who qualify from techno-commercial evaluation shall be opened. BHEL may decide to open the Price bid same day at 1630 hrs. If not opened on the same day, all qualifying bidders shall be notified for date of opening of Price bids.

Sealed Tenders can be dropped in the tender box labeled as 'Tender box for MM contracts'. This tender box is located at the entrance of Admin block BHEL Goindwal. For any clarification you can contact on email id [tendermm@bhelivp.in](mailto:tendermm@bhelivp.in). CST, VAT & Excise duty + any cess on ED at the rates applicable shall be payable extra against ED Gate Pass valid for CENVAT benefit. Rates should clearly mention basic price of the item. Unloading of material at Main Stores of BHEL shall be arranged by BHEL.

Order of enquiry item sl. No. shall be maintained in the quotation.

The rates quoted shall be firm and fixed. No price variation is proposed and allowed.

Fax (01859-222061) / E-Mail ([tendermm@bhelivp.in](mailto:tendermm@bhelivp.in)) offers received in time shall be considered only when such offers are complete in all respects.

**2. VALIDITY OF OFFERS:**

The offers shall be kept open for acceptance for 60 days from the date of opening of the tender. In case of extension of tender opening date, the validity shall be suitably revised.

**3. SCOPE OF SUPPLY:**

Material shall be supplied as per the applicable latest Technical Document No. /Material Standard requirements/ Drawing No or specifications. National & International material Standards shall have to be arranged by vendors themselves. The requirement is for equipment of Muffle furnace as per specification mentioned in Specification Annexure.

**4. REPLACEMENT OF REJECTION:**

If the material is rejected due to defective workmanship during inspection or at the time of actual use, within the guarantee period, the rejected material shall be replaced by the supplier. Corresponding quantity shall be treated as unsupplied against respective purchase order till replacement is received at BHEL. If the material is found defective and rejected during use for which payment has already been released the rejected quantity shall be supplied free of cost by the vendor within a month of intimation of the rejection by BHEL.

**5. DELIVERY SCHEDULE:**

Supplies shall be affected and completed as per schedule mentioned in the PO's. We require material within one month from PO. Further, BHEL may release delivery schedule from time to time based upon our requirement. Vendor shall be required to complete the order as per the BHEL schedule requested. BHEL reserves the right to cancel or hold orders at any stage.

**6. ACCESS TO MANUFACTURING PREMISES:**

While Purchase Orders placed on the vendor are under execution, authorized representatives of BHEL shall be allowed free access to the manufacturing facilities for the purpose of inspection or monitoring the progress of purchase orders. This access will also be extended to representatives of BHEL's customers accompanying the authorized representative/s 122of BHEL (which shall be intimated in advance), if our contractual requirements with our customers call for the same.

**7. TERMS OF PAYMENT:**

- a. Due payment against supplies received shall be due after 30 days of receipt and acceptance of material and shall be paid within next 15 days period. In case of deviation, loading shall be done at SBI base rate + 6% at time of opening of Part-I
- b. Documents to be submitted
  - i. Commercial invoice (in duplicate)
  - ii. Excise invoice (in duplicate) valid for claiming CENVAT credit
  - iii. Original VAT invoice valid for claiming input tax credit, if applicable
  - iv. Material Test Certificates (MTC) and
  - v. Compliance Certificate.



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- c. Above documents should include your Registration numbers such as ECC no, PAN no, CST no, TIN/ VAT nos. etc.
- d. It is mandatory to mention proper material codes in the invoices and separate invoices to be raised for different PO's.
- e. **BHEL releases payment through EFT mode ONLY. Necessary details may please be submitted by filling required format before release of payment.**

**8. INSPECTION:**

1. All required tests shall be carried out by bidder at no extra cost. Relevant TCs shall accompany the consignment. BHEL may decide to inspect itself/arrange third party at bidders' works itself as and when necessary with prior intimation to the bidder. No additional charges shall be claimed for such inspections. Third party inspection if arranged by BHEL, charges will be borne by BHEL but the necessary infrastructure will be provided by bidder without any extra cost. Latest applicable revisions of standards/procedures to be referred.
2. Vendor will give inspection call sufficiently in advance considering the delivery period stipulated in the purchase order.
3. **Test and guarantee certificates required along with supplies for item Sr. No. 1,2,3 &10.**
4. Any inspection carried out before supply by vendor/incoming stage at BHEL notwithstanding, if any defect/non-conformity is noted during processing, the same shall be attended/replaced by vendor at no extra cost.
5. Third party inspection if arranged by BHEL, charges will be borne by BHEL but the necessary infrastructure will be provided by bidder without any extra cost.

**9. PENALTY FOR LATE DELIVERY:**

'Time is the essence of the contract'. As such, delivery of goods specified in the Purchase Orders released under the scope of this contract shall be made within the time limit prescribed therein. Penalty for late delivery will be applicable **@ 0.5% per week or part thereof subject to a maximum of 10.00 %.**

BHEL reserves the right to receive or not receive the material after the due date of PO. If any vendor does not accept LD ½% of the supply for each week of delay subject to a maximum of 5%, their offer is likely to be rejected by BHEL and the price bid shall not be opened. Bidders accepting for 10% LD shall not be loaded on account of LD. However bidders who offer any other % LD [between 5% to 10%] shall be loaded @ % deviation from 10% and their accepted %.e.g. If a bidder accepts for a max of 7% LD only, their offer would be loaded @ 3% (10 - 7 = 3).

**10. RISK PURCHASE:**

BHEL shall be entitled to terminate the contract with any vendor and to purchase elsewhere at the risk and cost of the vendor, either the whole or part thereof which the supplier has failed to deliver within the time stipulated as aforesaid. Vendor shall be liable for the losses, which BHEL may sustain by way of such risk purchase in addition to aforesaid penalty for delayed delivery. Purchases made from any other vendor at its quoted rates shall be made and the difference of rates of defaulter vendor and new vendor shall be deducted from running bills of the vendor who has failed to deliver.

**11. SUB-CONTRACT:**

The purchase order or any part thereof shall not be sub-contracted, assigned or otherwise transferred without previously obtaining the BHEL's consent in writing.

**12. FORCE MAJEURE:**

If at any time during the continuance of the contract, the performance in which or in any part by either party of any obligations under the contract are prevented or delayed by reason of any war, hostilities, acts of public enemy, civil commotion, sabotage, fires, explosions, epidemics, quarantine restrictions, or acts of God (hereinafter referred to "an events" then provided the notice of happening of any such event is given by either party to the other within 21 days of the occurrence thereof, neither party shall by reason of such event be entitled to terminate the contract nor shall either party have any claim for damages against the other in respect of such non-performance and delay in performance and delivery under the contract shall be resumed as soon as practicable after such event has come to an end or ceased to exist. If the performance in whole or part of any obligation under the contract is prevented or delayed by reason of any such event, claims of extension of time shall be granted for periods considered reasonable by BHEL subject to prior notification by the vendor to BHEL of the particulars of the event and supply to BHEL, if



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required, of any supporting evidence. Any waiver of time in respect of partial installment shall not be deemed a waiver of time in respect of remaining deliveries.

**13. DISPUTES:**

In the event of any dispute and/or difference arising between the Vendor and BHEL as to interpretation and/or execution of the contract and/or the respective rights and liabilities of the parties, such disputes and/or differences shall be referred to the sole arbitrator nominated by BHEL. The provisions of the Indian Arbitration Act and the rules there under shall apply to such arbitration. The award passed by the arbitrator shall be final and conclusively binding on all the parties.

**14. JURISDICTION:**

The court of the place from where the purchase order is issued during the contractual period shall alone have jurisdiction to decide any dispute arising out of or in connection with the purchase order.

**15. MSME & MSE Certification:**

MSE suppliers can avail the intended benefits only if they submit along with the offer, attested copies of either EM II (Acknowledgement of Entrepreneur Memorandum Part II) certificate having deemed validity (five years from the date of issue of acknowledgement in EM II) or valid NSIC certificate or EM II certificate along with attested copy of a CA certificate (Format enclosed at Annexure -1 where deemed validity of EM II certificate of five years has expired) applicable for the relevant financial year (latest audited). Date to be reckoned for determining the deemed validity will be the date of bid opening (Part 1 in case of two part bid). Documents submitted should be notarized or attested by a Gazetted officer.

Non submission of such documents will lead to consideration of their bid at par with other bidders. No benefit shall be applicable for this enquiry if any deficiencies in the above required documents are not submitted before price bid opening. No any correspondence will be sought/treated regarding MSE after Part-1 Opening.

If the tender is to be submitted through e-procurement portal, then the above required documents are to be uploaded on the portal. Documents should be notarized or attested by a Gazetted officer.

In cases where the MSE status is based on Acknowledgement of Entrepreneur Memorandum Part II (hereinafter referred as EM II Certificate), the validity of such EM II certificate will be deemed as 5 years (2 years earlier deemed validity + 3 years present extension as per the gazette notification) from the date of acknowledgement of the EM II certificate, unless it is accompanied by a CA certificate (format as per Annexure-1), which will be required for each bid.

**16. CLARIFICATIONS:**

The correspondence exchanged against the tender from both tenderer and BHEL through email are considered as valid document legally though it is not signed. It is treated as valid confirmations made on behalf of the respective company and very much comes under the legal ambit of the business transaction and hence it is binding on both the parties to the business. Any transaction pertaining to the tender from both the parties of business done round the clock irrespective of the office or business hours of the companies, are valid legally and binding on both the parties. This applies to the extent only in such cases where deadline time for transaction is not specifically declared by either or both the parties to the business.

**17. LOI (Letter of Intent):**

BHEL may issue LOI prior to the PO for any reason whatsoever. The LOI in such cases is to be treated as PO for all practical purposes and all the Terms & Conditions of the tender shall be applicable from the date of issue of LOI.

**18. GENERAL:**

- a) BHEL will not be bound by any power of attorney granted by the vendors or by changes in the composition of the firm made subsequent to the execution of the contract. They may, however, recognize such power of attorney and changes after obtaining proper legal advice, the cost of which will be chargeable to the vendor concerned.
- b) BHEL reserves the right to extend the due date of opening, which shall be informed. Validity of offer shall be deemed to be revised accordingly.



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- c) BHEL reserves the right to accept or reject any part or whole of the tender of a bidder by assigning a valid reason thereof. BHEL reserves the right to cancel the tender without assigning any reason thereof and without any obligation before any commitment.
- d) If possible, please submit soft copy of price quotation [copied on a blank CD of standard make] put in the sealed offer.
- e) Acceptance of all terms and conditions, in the form of signed copy of T&C or confirmation separately written, shall be submitted along with quotation. If nothing is mentioned, it shall be concluded that terms and conditions are acceptable.

**19. BANNED FIRMS:**

The offers of the bidders who are on the banned list as also the offer of the bidders, who engage the services of the banned firms, shall be rejected. The list of banned firms is available on BHEL website [www.bhel.com](http://www.bhel.com).

**20. SUPPLIER REGISTRATION:**

Bidders, who are not currently on registered list of BHEL IVP Goindwal Sahib, may submit duly filled format for "Vendor Registration form". The form can be downloaded from our website [www.bhel.com](http://www.bhel.com) or can be requested at [gss@bhelivp.in](mailto:gss@bhelivp.in) or [rs@bhelivp.in](mailto:rs@bhelivp.in) Registered vendors with BHEL IVP GWL have to mention their vendor code. Registered vendors with any other unit of BHEL are also required to mention the vendor code given by respective BHEL unit along with photocopy of latest POs from BHEL unit. Techno-commercially qualified bidders may be asked for submission of supplier registration form for getting registered with BHEL, IVP Goindwal.

**21. PREFERENCES FOR MSE'S:**

Preferences as mentioned in "Public Procurement Policy for Micro and Small Enterprises (MSEs) Order, 2012" shall be given to Micro and Small enterprises.

Main points which are mentioned in the above order are as follows:

- 20% Procurement of the tender value shall be made from MSE (Micro, Small Enterprises) firms.
- 4% from the above mentioned 20% procurement quantity shall be procured from MSE's owned by SC /ST's. Failure to participate by any MSE owned by SC/ST's this 4% quantity shall be procured from other MSEs.
- EMD shall be exempted for MSE's. All these benefits are subject to production of all statutory documents.
- In tender, participating Micro and Small Enterprises quoting price within price band of L1+15 per cent shall also be allowed to supply a portion of requirement by bringing down their price to L1 price in a situation where L1 price is from someone other than a Micro and Small Enterprise and such Micro and Small Enterprise shall be allowed to supply up to 20 per cent of total tendered value. In case of more than one such Micro and Small Enterprise, the supply shall be shared proportionately (to tendered quantity).

All these preferences are applicable subject to the submission of applicable certificates (i.e. District Industries Centers or Khadi and Village Industries Commission or Khadi and Village Industries Board or Coir Board or National Small Industries Corporation or Directorate of Handicrafts and Handloom or any other body specified by Ministry of Micro, Small and Medium Enterprises).

- Items for which tender quantity is less than equal 50 (Nos., Kgs and Bags), no counter offers will be given.

**22. WORDS AND FIGURES:**

- a. If, in the price structure quoted for the required goods/ services/ works, there is discrepancy between the unit price and the total price (which is obtained by multiplying the unit price by the quantity), the unit price shall prevail and the total price corrected accordingly, unless in the opinion of the purchaser there is an obvious misplacement of the decimal point in the unit price, in which case the total price as quoted shall govern and the unit price corrected accordingly.
- b. If there is an error in a total corresponding to the addition or subtraction of subtotals, the subtotals shall prevail and the total shall be corrected; and
- c. If there is a discrepancy between words and figures, the amount in words shall prevail, unless the amount expressed in words is related to an arithmetic error, in which case the amount in figures shall prevail subject of (a) and (b) above.



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- d. If there is such discrepancy in an offer, the same shall be conveyed to the bidder with target date upto which the bidder has to send his acceptance on the above lines and if the bidder does not agree to the decision of the purchaser, the bid is liable to be ignored.

**23. Purchase Order:**

BHEL may issue LOI prior to the PO for any reason whatsoever. The LOI in such cases is to be treated as PO for all practical purposes and all the Terms & Conditions of the tender shall be applicable from the date of issue of LOI. Comparison of rates will be done on the basis of landed cost to BHEL for individual item. In case a vendor turns out to be L1 in one item only, than vendor have to commence the Purchase order within specified time period irrespective of the total value of PO. At any stage BHEL may cancel the Tender/Purchase order on any bidder.

**24. Guarantee:**

Vendor shall give a guarantee of 18 months from the date of dispatch or 12 months from date of receipt, against manufacturing defects, whichever is earlier. In case of non-acceptance of this term bid will be rejected.



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Annexure-1

**Certificate by Chartered Accountant on letter head**

This is to Certify that M/S .....  
(hereinafter referred to as 'company') having its registered office at  
..... is registered under MSMED Act 2006, (Entrepreneur  
Memorandum No (Part-11) ..... dtd:.....  
Category:..... (Micro/Small)). (Copy enclosed).

**1. For Manufacturing Enterprises:** Investment in plant and machinery  
(i.e. original cost excluding land and building and the items specified by  
the Ministry of Small Scale Industries vide its notification No.S.O.1722(E)  
dated October 5, 2006 :

Rs.....Lacs

**2. For Service Enterprises:** Investment in equipment (original cost excluding  
land and building and furniture, fittings and other items not directly related  
to the service rendered or as may be notified under the MSMED Act, 2006:

Rs.....Lacs

**(Strike off whichever is not applicable)**

The above investment of Rs.....Lacs is within permissible limit of Rs.....Lacs for  
.....Micro / Small (Strike off which is not applicable) Category under MSMED Act  
2006.

Or

The company has been graduated from its original category {Micro/ Small} (Strike off which is not  
applicable) and the date of graduation of such enterprise from its original category is .....  
(dd/mm/yyyy) which is within the period of 3 years from the date of graduation of such enterprise  
from its original category as notified vide S.O. No. 3322(E) dated 01.11.2013 published in the gazette  
notification dated 04.11.2013 by Ministry of MSME.

Date:

Name-

Membership number-

(Signature)

Seal of Chartered Accountant

**BHARAT HEAVY ELECTRICALS LTD  
IVP, GOINDWAL SAHIB  
UNPRICE BID ANNEXURE**

Annexure to Enquiry No. 1415 116 Dated 15.11.2014 Due Date of submitting quotations 29.11.2014

S.No.	Material Code	Material Description	Drawings/Specifications	Unit	Qty Nos.	Quoted Yes/No
1	GWS67009421	HEATING ELEMENT	Heating element for 72 KW Furnace Refer Attached Specification Annexure for qualifying Criteria and technical specifications	KG	50	
2	GWS67009422	ELEMENT HOLDING BLOCK	Element Holding Block for 72 KW Furnace High Alumina Grade minimum 45% Al2O3 equivalent to IS 8 Grade	NO	550	
3	GWS67009423	CONNECTION TERMINAL	Connection Terminal for 72 KW Furnace material stainless steel, Refer Attached Specification Annexure for qualifying Criteria and technical specifications	NO	50	
4	GWS67009424	INSULATION BRICK	Insulation Brick for 72 KW Furnace IS Cod IS 2042 Grade A	NO	1,100	
5	GWS67009425	CONNECTION PLATE 1" THICKNESS	Connection Plate of 1" Thickness an length 4 meter, Refer Attached Specification Annexure for qualifying Criteria and technical specifications	NO	1	
6	GWS67009426	FIRE CEMENT	Fire Cement for 72 KW Furnace IS Code IS 6452	BAG	5	
7	GWS67009427	FIRE CLAY	Fire Clay for 72KW Furnance	BAG	8	
8	GWS67009428	IS8 STANDARD BRICK	ISB Standard Brick for 72 KW Furnance IS Code IS 8	NO	200	
9	GWS67009429	BELLI BRICKS	BELLI Bricks for 72 KW Furnance	NO	350	
10	GWS67009430	RACK AND PINION FOR TROLLEY	Rack and Pinion for 72 KW Furnance Refer Attached Specification Annexure for qualifying Criteria and technical specifications	NO	1	
Excise Duty rate (mention in % if applicable, mention as NIL if not applicable)				Yes/NO		Pl. clearly mention
Cess on ED rate (mention in % if applicable)				Yes/NO	Extra@	Pl. clearly mention
CST (%)				Yes/NO	Extra@	Pl. clearly mention
VAT (%)				Yes/NO	Extra@	Pl. clearly mention
Validity of offers (As per BHEL terms 60 days validity is required)						
Delivery terms (FOR Goindwal Sahib)						
MSE Firm (YES/NO)						
MSE Documents attached (Y/N)						
MSE Owned By SC/ST						

Please note that nothing will be considered other than prices in the price bid.

Authorised signatory with seal

**BHARAT HEAVY ELECTRICALS LTD  
IVP, GOINDWAL SAHIB  
PRICE BID ANNEXURE**

Annexure to Enquiry No. 1415 116 Dated 15.11.2014 Due Date of submitting quotations 29.11.2014

S.No.	Matl Code	Description	Drawing/ Specifications/ Requirement	Qty Nos.	Unit	Unit price, Rs	
						In Figures	In Numbers
1	GWS67009421	HEATING ELEMENT		50	KG		
2	GWS67009422	ELEMENT HOLDING BLOCK		550	NO		
3	GWS67009423	CONNECTION TERMINAL		50	NO		
4	GWS67009424	INSULATION BRICK		1100	NO		
5	GWS67009425	CONNECTION PLATE 1" THICKNESS		1	NO		
6	GWS67009426	FIRE CEMENT	Heatig element for 72 KW Furnace Refer Attached Specification Annexure for qualifying Criteria and technical specifications	5	BAG		
7	GWS67009427	FIRE CLAY		8	BAG		
8	GWS67009428	IS8 STANDARD BRICK		200	NO		
9	GWS67009429	BELLI BRICKS		350	NO		
10	GWS67009430	RACK AND PINION FOR TROLLEY		1	NO		

Taxes and other conditions will be as mentioned in Unprice Bids.

Authorised signatory with seal



## ANNEXURE

### Part - A

#### 1. Qualifying criteria:

1. Vendors shall furnish the copy of PO issued to at least two customers to whom such items of the furnace have been supplied.
2. Value of Each PO should be Rs. 2 lakhs and above.

### PART - B

#### TECHNICAL SPECIFICATIONS FOR EQUIPMENTS OF MUFFLE FURNACE (72 KW)

S.No.	PARTICULARS	SPECIFICATION DETAILS	OFFER BY BIDDER
<b>1.0.0</b>	<b>APPLICATION</b>		
1.1.0	Purpose	<ol style="list-style-type: none"> <li>1. Pre heating</li> <li>2. post weld heat treatment of the jobs</li> <li>3. Annealing</li> </ol>	Vendor to Confirm
<b>2.0.0</b>	<b>PARTICULARS</b>	<b>SPECIFICATION DETAILS</b>	<b>OFFER BY BIDDER</b>
2.2.0	Heating Element	Straight wire of material Kanthal a1.	Vendor to Confirm
2.3.0	Connection Terminals	8 mm to 9 mm diameter. Material Stainless Steel, SS 304 material	Vendor to Confirm
2.4.0	Connection plate	4 meters long and 1 inch thick, material - syndanio sheet	Vendor to Confirm
2.5.0	Rack & Pinion for trolley movement	<p>The dimensions of rack &amp; pinion are:</p> <ol style="list-style-type: none"> <li>1. Addendum Circle Diameter (Outside circle dia.): 340 mm</li> <li>2. Root Circle Diameter: 318 mm</li> <li>3. Bore Diameter: 50 mm</li> <li>4. Face Width: 53 mm</li> <li>5. Number of teeth: 66</li> <li>6. Length of rack: 3 meters</li> </ol> <p>Rack and pinion should be able to withstand furnace temperature</p>	Vendor to Confirm



		<p>(which is around 1000° C) for all the time during the operation of furnace. Also the rack and pinion should be able to withstand the weight of the trolley (including the weight of jobs for heat treatment) which is around 2.5 tons.</p>	
13.0.0	<b>Guarantee:</b> Vendor shall provide a guarantee for a period of 12 months from the date of receipt and acceptance of the equipments.		

**Note:** All the components should be such that they are able to withstand temperature of 1200° C for all the time during operation of furnace.

