TENDER ENQUIRY DOCUMENT

FOR

FRONT FIRING ROTARY TILTING GAS FIRED FURNACE (FFRTF)



Centre for Materials for Electronics Technology (C-MET)
(Ministry of Electronics and Information Technology
[(MeitY), Govt. of India]

IDA Phase-III, HCL (PO), Cherlapally, Hyderabad – 500 051

Tel: 040-27265587, 27267006, Fax: 040-27261658 www.cmet.gov.in

CHECK LIST

S.No.	Description	Yes	No
	PART - I (TECHNO - COMMERCIAL)		
1.	Tender Fee		
2.	Earnest Money Deposit (EMD) Details		
3.	Acceptance of Tender (Section VIII)		
4.	Details of Tenderer (Section III)		
5.	A certified Xerox copy of Partnership deed/ memorandum of articles and associations		
6.	Certified copy of valid latest Income Tax clearance certificate/PAN card/GST registration certificate.		
7.	Details of facilities available with Tenderer required for the designing and fabrication of the listed items		
8.	Details of fabrication facilities which would like to use from other agencies		
9.	Details of facilities available in your Workshop required for testing of the material composition, welding and fabricated components and final testing of item		
10.	Documents of previous Experience of Bidder's Eligibility, Purchase order & Completion certificate of end users.		
11.	Detailed information regarding previous experience of supply and installation of the similar equipment/systems to any Government Organizations as well as Private organizations and list of the clients.		
12.	A copy of the Agency agreement of Indian agent with the Foreign Supplier, if applicable.		
13.	Annual Financial turnover duly certified by a Chartered Accountant for the last 3 years, ending 31 st March of the previous financial year.		
14.	Technical Compliance for all Clauses in Technical Specifications as given in Section I.		
15.	Confirmation letter that the financial bid covers all the items of the tender document		
16.	Guarantee Bond for Performance Security Deposit (Section IV.)		
17.	Manufacturer's Authorization Form (Section V)		
18.	Catalogues / Technical Literature/Drawings		
19.	Submission of Drawings		
20.	Sub-Contracting / Subletting Details		

21.	Erection and Commissioning Details	
22.	Deviations to Purchaser's specifications and conditions of contract	
23.	Delivery Details	
24.	Quality Assurance Plan	
	PART II - PRICE BID	
25.	Item wise price & financial bid (Section VI)	
26.	Price Reasonability Certificate (Section VII)	
27.	Name & address of banker	

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NOTICE INVITING TENDER

Centre for Materials for Electronics Technology (C-MET) invites sealed tenders, from eligible and qualified tenderers for fabrication, supply, installation and commissioning of Front Firing Rotary Tilting Gas Fired Furnace (FFRTF) as per the specifications that follow.

Interested eligible Bidders may either obtain the Tender Document on submission of a written application along with the tender document fee (Rs. 1500/-) against the equipment in Indian rupees or equivalent by demand draft in favour of "Centre for Materials for Electronics Technology" payable at Hyderabad from

The Administrative Officer Centre for Materials for Electronics Technology (C-MET) IDA Phase III, Cherlapally, HCL Post Hyderabad - 500051, Telangana State, India.

* Downloaded from website: Free: If required hard copy Rs. 1500/- + applicable GST @ 18%. C-MET shall not be responsible for any postal delay. Document will be sent through SPEED POST only.

Bidders who download tender documents from our web site shall send an email to venkatesan@cmet.gov.in immediately giving the tender reference number, date of downloading, your full address and contact details. This will help us post any corrigendum or addendum to the tender taken place after the bidder downloaded it.

Sl.No.	Description	Date & Time
i)	Commencement of Sale of tender documents	20.04.2018 onwards
ii)	Last date for seeking written clarification	24.04.2018 upto 1700 hours
	(for discussion in Pre-bid meeting)	
iii)	Pre-Bid Meeting	26.04.2018 at 1400 hours
iv)	Last date of sale of tender documents	Upto 08.05.2018
v)	Last date & time for Deposit of Tenders	14.05.2018 Upto 1700 hours
vi)	Date & time for opening of Technical Bid	15.05.2018 at 1200 hours
vii)	Place of opening of the Tender	C-MET, Hyderabad
viii)	Date and Time for opening of Financial Bids for	To be decided by C-MET and
	technically qualified bidders	intimated to the responsive
		bidders
ix)	Validity of tenders	120 days from the date of opening
		of tenders

1. MANNER AND METHOD FOR SUBMISSION OF TENDERS:

All Tenders in response to this invitation shall be submitted in TWO PARTS as under and in two envelopes:

I) PART - I (TECHNO - COMMERCIAL): This part of the Tender shall include / contain all technical details, technical specifications, drawings and also, the commercial terms and conditions of contract for the supplies to be made and the services to be rendered **EXCLUDING** ANY PRICE DETAILS THEREOF.

- a. Form of Details about Tenderer (Section III) along with the following documents.
 - i. A certified Xerox copy of Partnership deed / memorandum of articles and associations.
 - ii. Certified copies of valid latest Income Tax clearance certificate / PAN card/GST registration certificate, etc.
 - iii. Details of facilities available with Tenderer required for the designing and fabrication of the listed items
 - iv. Details of fabrication facilities, which would like to use from other agencies.
 - v. Details of facilities available for testing of the components and final testing of item
 - vi. Documents of previous Experience of Bidder's Eligibility, Purchase order & Completion certificate of end users.
 - vii. Detailed information regarding previous experience of supply and installation of the similar equipment/systems and list of the clients.
 - viii. Firm has to submit Annual Financial turnover duly certified by a Chartered Accountant for the last 3 years, ending 31st March of the previous financial year. Average Annual financial turnover of the firm during the above period should be at least 30% of the estimated cost.
- b. Technical Compliance for all Clauses in Technical Specifications as given in Section I.
- c. Guarantee Bond for Performance Security Deposit as given in **Section IV**.
- d. Manufacturer's Authorization Form as given in Section V.
- e. EMD
- f. Any other related documents.
- g. All Documents in the Technical Bid should be submitted in the above sequence with Index Page and Page numbers.
- II) PART II (PRICE): This Part should contain only the prices of the stores offered for supply of the item to be rendered.
- III) Both envelopes (Part-I and Part-II Bids) may be placed in separate 3rd envelope superscribed with "Tender No. & date, Name of the item and Last date for Opening". Tender/s received in any other mode or without requisite Tender fee/ EMD shall be summarily rejected.
 - (a) Prices should be for free delivery at C-MET, Hyderabad, as per Price Schedule given in **Section VI**.
 - (b) Taxes, if applicable, should be indicated clearly with their present rates. Exempted by the local body even on production of exemption certificate obtained by the supplier from purchaser/consignee. However, the same shall be reimbursed to the supplier on production of such proof of payment along with the final bill.

(c) PRICE REASONABILITY CERTIFICATE:

A certificate indicating that the rates quoted are not more than as charged to other Govt. /PSU's for similar supplies made in recent past should accompany the bid in support of its price reasonability in **Envelope 2** (Section VII). Copies of the supply orders received may also be enclosed with the bid.

2. **OPENING OF BIDS**

All quotation/s and subsequent **Correspondence** should be sent to the address given below:

The Administrative Officer Centre for Materials for Electronics Technology IDA Phase III, HCL Post Cherlapally, HCL Post, Hyderabad - 500051, Telangana State, India.

b) Tenders, which should always be placed in sealed covers, duly superscribing the name of the work on the envelope and dropped in the Tender Box kept in Library in the 1st Floor at C-MET Lab premises up to **17.00 hours on 14.05.2018.**

The Envelope 1 – Technical bids shall be opened **on 15.05.2018 at 1200 Hrs.**, in presence of the authorized representatives of firm(s) who may choose to be present (see Sl.No 3 (a) also). The Tenderers whose Techno Commercial Part (Part - I) are found suitable / acceptable to the Purchaser, will be given advance intimation by the Purchaser to enable such Tenderers to depute their representative to participate in the Opening of Part - II (Price) of the Tender in due course.

LATE / DELAYED TENDERS will neither be opened nor considered by the Purchaser and will be summarily rejected. The tenderers should therefore take care and ensure that both Part - I and Part - II of their Tenders reach on or before the Due Date and Time specified for their receipt to avoid the rejection of the Tenders. C-MET will not be responsible for the Postal / Courier delay etc.

- c) If quotation-opening day happens to be holiday for any reason, the next working day will be treated as tender opening day.
- d) Telegraphic tenders & tenders over email/fax shall not be considered and no claim, whatsoever shall be acceptable. Unsealed tenders will also be summarily rejected.
- e) **VALIDITY:** The Rates should be offered valid for at least **120 days** from the date of opening of Techno-Commercial Bid (Part-I).
- f) The tenderers should sign & stamp each page of this quotation as a token of having read & understood the terms & conditions contained herein. The tenderers should also submit duly filled, signed & stamped Tender Form (as per the format at Section VIII).
- g) Any eligible bidder, who did not receive this enquiry, may download the same from the website **www.cmet.gov.in** OR https://eprocure.gov.in and submit their offer.

3 **AUTHORITY LETTER:**

(a) The Tenderers who wish to participate in the opening of the tenders may depute their representatives to the C-MET, Hyderabad-500 051 on the respective due date, time and venue as indicated in the instruction sheet of this Tender Document with an authority letter addressed to the **Administrative Officer**, C-MET, IDA Phase-III, Cherlapally, HCL Post, Hyderabad - 500 051 which should be produced to the officers who are

opening the tenders, on demand to prove the bonafides of the representative who participates in the opening of the tender. In case the representative of the tenderer fails to produce such an authority letter on behalf of the tendered, he will be not be allowed to participate in opening of the tenders.

- (b) The Tenderer's representative, who reaches the venue of the Tender Opening late, i.e., after the starting time specified for opening of the tenders, may not be allowed to take part in the tender opening. It should be noted that only one representative of each tenderer would be permitted to participate in the tender opening.
- (c) The technically disqualified Tenderers will neither be given any intimation about the Due Date and Time for opening Part II (Price) of the Tender nor will be permitted to participate in the opening of the same. Part II (Price) of the technically disqualified Tenderers will not be opened.

4. TECHNICAL CLARIFICATIONS:

- (a) After opening the Part I (Techno Commercial) of the Tender, if it becomes necessary for the technical authorities / user department to seek clarifications from the Tenderers, the same will be sought for from the Tenderers by the Technical Authorities / user department by either email/letter. In such an event, the tenderer shall: -
 - (i) Furnish all technical information / clarification to the concerned technical authority, directly to them so as to reach on or before the due date and time fixed by the technical authorities with a copy to the Administrative Officer, C-MET, IDA Phase-III, Cherlapally, HCL Post, Hyderabad 500 051 indicating the Purchaser's Tender Reference. If the Technical Clarification / Details sought for by the technical authorities from the Tenderers do not reach them on or before the due date and time fixed for its receipt, such tenders will be liable for rejection without any further notice.
 - (ii) Have an option to modify the price based on the technical clarifications or discussion the Tenderers had with the Technical Authorities / user department of Project. In case they wish to make any revision in the price, they should communicate such a revision in price only to The Administrative Officer, C-MET, IDA Phase-III, Cherlapally, HCL Post, Hyderabad 500 051 and copies of this communication should not be forwarded to the technical authorities, user department at all. The letter containing the price revision should be enclosed in a sealed envelope superscribed with, the Revision Number, the Purchaser's Tender Number and Last Date and Time specified for its receipt and reach the C-MET on or before the due date and time specified for its receipt in the instruction sheet of this Tender Document.
 - (b) Irrespective of the circumstances whether technical clarifications have been sought for or not from any other Tenderers, the Tenderers will be free to have technical discussions with the technical authorities concerning the scope / details of the Tender, etc. if they so consider it necessary, and based on such discussions, the Tenderers are free to effect revision in price and in such cases they should communicate such a revision in price in a letter justifying the revision addressed only to Administrative Officer, C-MET, IDA Phase-III, Cherlapally, HCL Post, Hyderabad 500 051 and copies of this communication should not be forwarded to the technical authorities of the Project at all. The letter containing the price revision should be enclosed in a sealed envelope superscribed with, the Revision Number, the Purchaser's Tender Number and the Last Date and Time specified for its receipt and should reach the C-MET on or before the due date and time specified for its receipt.

5. CATALOGUES / TECHNICAL LITERATURE:

All necessary catalogues / drawings / Technical Literature Data as are considered essential for full and correct evaluation of the offers shall invariably accompany the Part - I (Techno Commercial) of the Tender.

6. Earnest Money Deposit (EMD)

All the bidders except bidders from Micro and Small Enterprises (MSEs)as defined in MSE Procurement Policy issued by Department of Micro, Small and Medium Enterprises (MSME) or are registered with the Central Purchase Organization or the concerned Ministry or Department or Startups as recognized by Department of Industrial Policy & Promotion (DIPP) are exempted from payment of EMD @ Rs. 80,000/- as per this tender document.

In order to avail of the benefits extended toby Govt.of India to the Micro and Small Sectors, please submit attested copy of the valid Entrepreneur Memorandum Part-II signed by the General Manager, District Industries Centre/Udyog Adhar / NSIC Registration Certification along with your offer.

E.M.D or Bid Security should be deposited by the bidders, in any one of the following forms, alongwith the Technical bid:-

- (a) Call Deposit Receipt duly endorsed in favour of C-MET or Pay Order or Demand Draft in favour of C-MET, Hyderabad.
- (b) Fixed Deposit Receipt issued by Nationalised banks endorsed in favour of C-MET Hyderabad.
- (c) Bank Guarantee from a Nationalised Bank in favour of C-MET irrevocable and operative till the expiry of forty days after the validity of offer.

In case the vendor/supplier/contractor would like to submit EMD by Bank guarantee(BG), then the original BG shall be routed through the banker to C-MET Hyderabad by registered post with acknowledgment due. In case the BG is handed over to the vendor/supplier/contractor by the bank for any genuine reasons, the BG issuing branch shall immediately send an unstamped duplicate copy of the BG directly to C-MET Hyderabad by registered post with acknowledgment due with the covering letter to verify the BG issued by us and confirm that it is in order. The vendor/supplier/contractor shall comply this provision meticulously.

- (d) The EMD shall be put in a separate envelope super- scribing tender reference no. as such on it and put in the envelope containing technical bid. In the absence of EMD the Bid will not be accepted.
- (e) The Earnest Money Deposit will be returned along with necessary endorsement for payment to the bidder (without interest) whose offers are not acceptable to C-MET after placing the final order.
- (f) The EMD shall also be forfeited:
 - (i) if a Bidder withdraws its bid or increases rates during the period of Bid validity specified by the Bidder on the Bid Form;
 - (ii) or in case of a successful Bidder, if the Bidder fails:
 - (a) to accept the Purchase Order or refusal to execute the tender after it has been awarded or obligations under the same are not fulfilled; or
 - (b) to furnish the performance security deposit in accordance Purchase order.

7. Performance Security Deposit

Within 15 days of the receipt of notification of award of purchase order / contract from C-MET, the Bidder shall furnish a Performance Security Deposit equivalent to 10% of the contract value in anyone of the forms as given below:

(a) Call Deposit Receipt duly endorsed in favour of C-MET or Pay Order or Demand Draft in favour of C-MET.

- (b) Bank Guarantee from a Nationalized Bank in favour of C-MET irrevocable and operative for the entire period starting from acceptance of the contract ending 60 days after completion of the warranty period or 30 months, whichever is longer.
- (c) In case the vendor/supplier/contractor would like to submit security performance security Deposit by Bank guarantee (BG), then the original BG shall be routed through the banker to C-MET Hyderabad directly by registered post with acknowledgment due. In case the BG is handed over to the vendor/supplier/contractor by the bank for any genuine reasons, the BG issuing branch shall immediately send an unstamped duplicate copy of the BG directly to C-MET Hyderabad by registered post with acknowledgment due with the covering letter to verify the BG issued by us and confirm that it is in order. The vendor/supplier/contractor shall comply this provision meticulously.
- (d) Fixed Deposit Receipt issued by Nationalised banks endorsed in favour of C-MET Hyderabad.
- (e) The Performance Security Deposit is required towards fulfillment of the Purchase order / Contract obligations. This Security Deposit will be forfeited in case the successful Bidder fails to execute the Purchase order/ Contract.
- 8. **Rejection of Tender:** Tenders which do not fulfill all or any of the above conditions or incomplete in any respect, are liable for summary rejection.
- 9. **Canvassing:** Canvassing in connection with tenders is strictly prohibited and the tenders submitted by the Supplier, who resorts to canvassing, will be liable for rejection.
- 10. **Percentage of Rates & Price Variation:** The Supplier should not introduce percentage rates above/below the estimated rates in the items rates. Such tenders will be rejected. Also, the tenderers should not include any price variation clause.

11. Quoting in Words & Figures:

- a) Rates quoted by the Supplier on item rate tendered in figures and words shall be accurately filled in, so that there is no discrepancy in the rates written in figures and in words. However, if any discrepancy is found, the rate, which correspond to the amount worked out by the Supplier shall be taken as correct.
- b) If the amount of an item is not worked out by the Supplier or it does not correspond with the rate written either in figures or in words, then the rate quoted by the Supplier in words, shall be taken as correct.
- c) When the rate quoted by the Supplier in figures and in words tallies, but the amount is not worked out correctly then the rate quoted by the contractor shall be taken as correct and not the amount.
- 12. **Uncalled for Remarks/Rejection:** The tenders containing uncalled for remarks or any additional conditions are liable to be summarily rejected. Tenders containing more than one price bid will be summarily rejected.
- 13. **Acceptance of Tender:** The acceptance of a tender will rest with the, C-MET, who does not bind themselves to accept the lowest tender and reserves to himself the authority to reject any or all of the tenders received, without the assignment of any reason..
- 14. **Acquaintance of Work:** The tenderers should acquaint themselves with the work and working conditions of the site and locality and no claim will be entertained on this issue.
- 15. GST: GST Registration certificate shall be submitted along with the tender.

16. Format and signing of tenders: The Tender shall be prepared, signed and submitted by the Firm/corporation/company in whose name the tender documents are issued. The Tender shall be typed or written in indelible ink and all pages of the tender shall be signed by the Tenderer. The Tenderer shall submit the complete tender without alterations, interlineations, or erasures, except those to accord instruction issued by the Employer or as may be necessary to correct errors made by the Tenderer. All such cancellations, alterations or amendments shall be countersigned by person or persons signing the tender.

17. TERMS AND CONDITIONS OF THE SUPPLY:

It must be clearly understood that any Supply concluded pursuant to this invitation to tender shall be governed by the Special Terms & Conditions of the Supply as contained in Section—II of this Tender Document. Tenderers must therefore, take special care to go through these Special Conditions of the Supply and in exceptional cases if any deviations are proposed, these must be clearly indicated in the Part - I of the tender as a separate annexure instead of merely enclosing their printed conditions of Sale. Tenders made subject to counter conditions or far too may deviation from the Special Conditions of Supply of this tender document are liable to be ignored. It should also be realized that failure to bring out deviations from the Special Conditions of Supply contained in Section—II of this Tender Document will imply that the Tenderer is willing to execute the Supply as per the Purchaser's Terms and Conditions of supply.

- 18. **QUANTITY:** The Purchaser reserves the right to accept tenders for any quantity of his choice and the tenderer shall be bound to accept a contract for any quantity.
 - (i) Goods & Services Tax (GST): Where legally leviable and intended to be claimed should be distinctly shown along with the price quoted. Where this is not done, no claim shall be admitted at any later stage and on any ground whatsoever.
 - (a) Certified that the goods and packing charges on which Goods & Services Tax has been charged have not been exempted under the relevant Tax on these goods and packing charges are not more than what is payable under the provision of relevant Act or the rules there under.

(b)	certified	further	that	we (Or	ır Branch	or A	gent) _			_ (Addı	ress)
				_ are	registered	as	dealers	s in	the	State	of
						un	der	Lo	cal	R	legn.
	No					ano	d in	th	e	State	of
				under	Central Re	gn. No	•		for th	ne purpos	se of
	GST				,					• •	

19. **SUBMISSION OF DRAWINGS:**

The Tenderer shall furnish all drawings pertaining to Plant / Machinery / Equipment / Component/systems to the Purchaser along with the Tender for correct understanding and appreciation of the tender in quadruplicate. Such drawings should be furnished along with Part - I (Techno - Commercial) of the Tender. Tenderer's drawings will form part of the Purchase Order only after these are approved by the Purchaser. <u>After receiving purchase order: within two weeks the supplier should submit design calculations and fabrication drawings for approval.</u>

20. <u>SUB - CONTRACTING / SUBLETTING</u>:

The Tenderer in the event of his Tender being accepted by the Purchaser shall not assign / sublet or delegate the contract or part thereof without the prior written consent of the Purchaser whose consent shall not be unreasonably withheld, but the Tenderer may without the Purchaser's consent purchase such parts, accessories, raw materials, etc. from any of the leading and reputed manufacturers in case he does not normally manufacture such items. However, the Supplier shall be solely

responsible for the satisfactory execution of the Supply irrespective of the fact whether a part or a portion of a contract has been assigned or sublet by him to a Sub - Contractor even when such Sub - Contracting has been done with the prior written consent of the Purchaser.

21. SHOP / FACTORY EVALUATION, QUALITY SURVEILLANCE / INSPECTION AND SUBMISSION OF PROGRESS REPORTS:

The Purchaser or his technical authorities may at their option and prior to evaluation of the tender, depute his Inspector or any quality surveillance of his choice to the factory / workshop of the Tenderer to assess and establish the manufacturing/fabrication capability, etc. of the Tenderer. Similarly, the Purchaser may also depute their Inspector / Quality Surveillance Agency of his choice for inspection of the Plant / Machinery / Equipment / Component during the various stages of manufacture. In such an event the Tenderer / Supplier shall:

- (a) Allow reasonable facility and free access to his factory / work / records / to the Inspector for the purpose of inspection or for ascertaining the progress of manufacture and delivery.
- (b) Provide the drawings, tools, gauges, instruments, etc. required for carrying out the inspection work
- (c) Produce an inspection plan to the Purchaser's satisfaction notifying him when checkpoints on the plan are imminent.
- (d) Not supply or deliver the Plant / Machinery / Equipment / Component unless and until a Shipping Release or an authorization for dispatch is obtained in a format provided by the Purchaser. Failure to comply with this instruction may lead to rejection of the goods supplied and result in delay for which tenderer will be held responsible.

22. **ERECTION AND COMMISSIONING:**

Tenderers must clearly and separately furnish in their offer the terms for supervision of erection and commissioning particularly in respect of Plant / Machinery / Equipment. Tenderers should follow special conditions as mentioned in Section-X.

23. **INSTRUCTION MANUAL:**

In respect of Plant / Machinery / Equipment / Instrument / Apparatus, where Instruction / Operation Manual is normally necessary to enable the user to put the Plant / Machinery / Equipment / Instrument / Apparatus to proper use, the Supplier shall furnish such an Instruction / Operation Manual specific to the stores being supplied along with the Plant / Machinery / Equipment / Instrument / Apparatus. The Supplier shall clearly specify in the offer about his readiness to supply Instruction / Operation Manual.

24. **PACKING:**

- (a) Tenderers shall note that packing for shipment shall be in accordance with the instructions outlined in this Tender Document, each package shall be limited to the size and weights that are permissible under the existing Rail/Road/Air and Sea Limitations. Even when no packing specification is included in the invitation to tender, it will be Supplier's responsibility to provide appropriate packing depending upon the nature of the supply and the transportation and handling hazards.
- (b) The Equipment shall be so packed and protected as not to suffer deterioration, damage or breakage during shipment and storage in a tropical climate.
- (c) Each package shall be properly labeled to indicate the type and quantity of material it contains, the Purchase Order Number, its dimensions and weight and any other necessary data to identify the equipment and relate it to contract.

25. DEVIATIONS TO PURCHASER'S SPECIFICATIONS AND CONDITIONS OF CONTRACT:

(a) If any deviation from the technical specifications contained in Section-I to this Tender Document is involved, such details should be clearly indicated in Part - I (Techno - Commercial) and should be added as an Annexure to Part - I (Techno - Commercial) of

the Tender as otherwise it shall be an admission on the part of the Tenderer that he will supply, the equipment as specified by the Purchaser. Similarly, deviations to the Purchaser's Special Terms & Conditions of supply contained in Section–II of this Tender Document shall be indicated by the Tenderer in another Annexure to Part - I (Techno - Commercial) of the Tender Part - I (Techno - Commercial).

(b) Part - II (Price) should be furnished in accordance with the format provided by the Purchaser at Section–VI of this Tender Document.

26. **DELIVERY:**

Tenderer should note that no Tender will be considered by the Purchaser unless the Tenderer can meet the Delivery Schedule specified by the Purchaser. All Equipment / Machinery / Plant / Component covered by this Tender Document should be supplied on or before 12 weeks (84 days) from the date Purchase order The prices quoted by the Tenderer should include all charges involved for direct and safe delivery of the items by Road to the Project Site of the Purchaser. If a Tenderer so desires, separate lump sum charges for Transportation and Safe Delivery to Purchaser's Site at C-MET, Cherlapally could be furnished. Purchaser will neither undertake responsibility for transit insurance nor pay for it separately. No other, delivery terms will be accepted by the Purchaser. It is under the Tenderer's scope to bring sufficient manpower/machinery for unloading/storage/installation and commissioning of the stores at the purchaser's site

27. ACCEPTANCE OF TENDERS:

- (a) Acceptance of Tenders by the Purchaser will be sent by Fax, email, Letter etc., within the validity date of the Tender and such a Fax, email, Letter etc. would then be followed by a formal Purchase Order / Contract, incorporating all the terms and conditions. The Tenderer whose offer is accepted will proceed with the supply on the basis of such advance acceptance of tenders without waiting for a formal Purchase Order / Contract, and will be responsible to seek and obtain whatever clarifications that are necessary from the Purchaser to proceed with the manufacture without waiting for a formal Purchase Order / Contract and Delivery Period will be reckoned from the Date of the Letter/email/Fax of Intent.
- (b) Within 10 days of receipt of the Purchase Order/Supply, the successful bidder shall sign and date the Purchase Order/Supply and return it to C-MET along with Performance Security Deposit as per Sl No. 2 of GTC.
- (c) Within 14 days of receipt of the Purchase Order/Supply, the successful bidder shall submit design calculations and fabrication drawings for approval.

28. **RESULT OF THE TENDERS:**

Unsuccessful Tenderers will not be informed of the result of the Tenders.

29. SETTLEMENT OF COMMERCIAL TERMS AND CONDITIONS OF SUPPLY:

In case the commercial terms and conditions for Sale / supply stipulated in Part - I (Techno-Commercial) of the Tender submitted by the Tenderer are at variance with the Purchaser's General Conditions of supply stipulated in Section—II of this Tender Document, the C-MET will settle the commercial terms and conditions of contract with the Tenderers chosen for award of the Supply by holding discussion with them OR by sending FAX/LETTER/ EMAIL etc. In case the concerned Tenderer to whom an intimation, thereof is given does not respond / fail to respond to communication sent by the C-MET within the date specified, his tender is liable for rejection at the discretion C-MET and no complaints whatsoever will be entertained from the Tenderer for rejection of his tender. The Tenderers should not discuss with the Technical Authorities / user Department any of the commercial terms and conditions of Supply and any agreement/understanding reached between the Tenderer and the Technical Authorities will not be valid and binding.

30. **Issue of Tenders**: Right of issue of Tender is reserved by C-MET

SECTION - I

CENTRE FOR MATERIALS FOR ELECTRONICS TECHNOLOGY (C-MET) HYDERABAD

FRONT FIRING ROTARY TILTING GAS FIRED FURNACE (FFRTF)

Gas fired, front firing rotary tilting furnace is to be fabricated and demonstrated for the pyro metallurgical treatment of spent printed circuit boards and similar materials. The system is indented for the decomposition of organic materials as well as to smelt the PCBs to remove the inorganic filler materials and separation of copper and slag in molten stage. The system is to be designed in such a way to cater to the corrosive flue gases and reactive slags.

Technical specifications-

General:

1. Purpose of FFRTF:

- Pyrolytic decomposition of printed circuit boards under controlled temperature and atmosphere
- Smelting of calcined PCB and separation of metal and slag
- High temperature decomposition of wires and cables and separation of copper
- Melting of non ferrous metals and casting
- o Fire refining of non ferrous metals and alloys

2. Features

Suitable for high temperature (~1350°C) operations with time required to reach temperature is ~2 hours at no load conditions.

Suitable for calcinations and smelting operations (two stages) in a single cycle 30 L useful volume (~100 kg smelted charge) at +30° inclined angle, silicon carbide lined crucible

Continuous, variable speed of rotation of the vessel from 1 to 10 rpm in step less mode

Tilting angle from -30° to + 30°, Simple and safe pouring operations

3. Technical Specifications

Furnace:

The furnace steel shell should be robust enough to take care of the load, rotation and tilting stresses at operating temperatures. The shell should be lockable-skid mounted. The vessel should be sectioned for easy servicing and replacement of refractory lining. The bearings should withstand temperatures expected during prolonged operation; water cooling of furnace should be avoided.

Useful liquid volume during rotation at inclined angle(+30°): 30 L

Refractory: Refractory bricks/castable (neutral or acidic) should be rated for more than 1450°C. It also should withstand thermal shock due to surge in

temperature. Skin temperature should not exceed 30°C above ambient at max. working temperature

Lining: The contact surface of the refractory should be lined with silicon carbide to resist the corrosive action of the slag.

The system should have rotary facility at an inclined angle -30 to + 30° and tilting facilities. Rotation should also be able to continue even while tilting also.

Rotation speed: 1- 10 rpm

Tilting time: 15 - 60 sec. (controllable)

Rotation mechanism: controlled by variable speed geared electrical motor.

Tilting mechanism: Hydraulic/mechanical

Mounting for burner, flue gases:

Suitable mounting arrangements to be made on the mouth side of the furnace. The door mounting bracket has to be placed in such a way that burner and bracket could be removed during pouring operations. Door should have provision for optical pyrometer, viewing port, gas outlet and feeding mechanism.

Burner (Single or multiple):

Type: LPG/ air and LPG/air/oxygen,

Power: Suitable burner rating ~200kW

Mounting: mounted on front door, with cooling arrangement, if required

Rating: Maximum Temperature: 1450°C

Continuous operating Temperature: 1350°C

Burner control : Flow control valves and rotameters for

regulating/measuring the flow of LPG, air and oxygen. The system should be complete with flame control sensor, HT photoelectric cell and

pilot burner.

Chute for fume extraction:

A fume extraction chute suitable for 5000m³/hr at ~1300°C

Material feeding system:

Feeding mechanism to be provided to add shredded PCBs (< 50 mm) and/or other materials with flux continuously during operation

Control panel:

A stand alone manual/ PLC panel is to be provided for operation of the furnace such as tilting and rotation. It should be complete with all necessary indicators, controllers, switches etc of reputed make.

A local control station also should be provided with on/off, and speed control button for rotation and tilting for better control of pouring operation.

Warranty:

The equipment shall be guaranteed for trouble free operation for a period of **12 months** from date of installation and commissioning

Accessories & spares:

The quote should be complete with all necessary accessories and spares such as mould, handling systems, rammer kit, set of castable/bricks, all the required accessories for burner, manifold for LPG and other items which are required for the smooth functioning of the system for a minimum period of five years at additional cost post warranty.

4. Safety:

It should ensure the operational safety in all working conditions and the precise positioning of the furnace.

5. Other specifications:

- Party should quote the system with full specifications, for comparison; provide a technical compliance sheet along with the quote.
- The system should have all the sensors required for the equipment safety and environmental safety as well as for the requisite process variables. Party should provide all the details along with the bid
- The system should follow all the safety precautions prescribed in the standard guidelines. Party should submit the compliance certificates.
- The basic system should be quoted inclusive of all essential accessories to run the equipment such as Servo stabilizer, cables, gas panels, compressor gas lines, etc.

- Full descriptive manuals including complete electronic circuitry / component layout diagrams for all the main systems / sub systems must be supplied at the time of the delivery of the main equipment for trouble shooting after completion of warrantee period.
- The equipment and other accessories should be coated completely with rust proof paints; high temperature paints etc wherever required.
- Party should quote separately for the AMC of the equipment for subsequent years after the warranty period.
- Party should clearly indicate the specifications of any sub-systems/bought out items such as blower, compressor, required.
- Party should ensure that spares of the system should be available for at least next 10 years
- List of furnaces supplied by the party during the last five years to be enclosed along with technical bid.

6. Inspection, Installation and Training

Party should allow free access to C-MET during fabrication stages. Party should submit detailed design drawings for C-MET approval after receiving P.O. It should arrange a pre delivery inspection before despatching the items. Party has to inform well in advance to C-MET so that scientists shall visit the fabrication unit and inspect the system and on completion of inspection and satisfaction of demonstration trial, give clearance of the delivery.

Party should convey well in advance the installation requirements such as foundation, electrical supply, utilities etc.

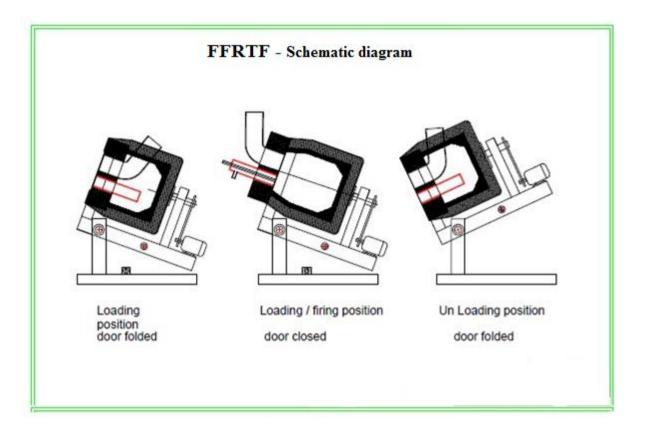
Training on operation, maintenance and refurbishing of system with castable lining etc has to be given to C-MET scientists. Party has to demonstrate the capability of the systems such as temperature, Thermal efficiency, tilting, pouring operations, stability of lining etc.

Acceptance criteria:

Party should demonstrate the capability of the system with 10 kg of calcined PCB supplied by C-MET.

Schematic diagram:

Schematic diagram showing of the furnace positions of loading, heating and pouring operations is enclosed for better understanding of the specs.



Section - II

GENERAL TERMS AND CONDITIONS OF CONTRACT

1. **DEFINITIONS:**

In this document, the following terms shall be interpreted as indicated:

- i. C-MET means any one or more of the three laboratories of Centre for Materials for Electronic Technology at Pune, Hyderabad or Thrissur.
- ii. "Director" means Director, C-MET, Hyderabad. "Director General" means Chief Executive of Society, C-MET, Pune, PI means Principal Investigator of the project.
- iii. "The Tenderer or the Bidder or the Supplier" means the individual or firm submitting a tender or bid for purchase of the Goods and Services by C-MET against a tender notice.
- iv. "The Purchaser(s) or Client(s) or Beneficiary" means the organization purchasing the Goods / Services (i.e., Centre for Materials for Electronics Technology)
- v. "The Supplier" or "The Vendor" or "The Contractor" shall means, the person, firm or Company with whom or with which the order for the supply of stores is placed and shall be deemed to include the Supplier's successors (approved by the Purchaser), representatives, heir's executors and administrators unless excluded by the contract.
- vi. "The Price" means the price payable to the Supplier under the supply for the full and proper performance of its contractual obligations;
- vii. "The Goods" means all the hardware / equipment, machinery and /or other materials which the Supplier is required to supply to the Purchaser under the Contract;
- viii. The term "Stores" shall mean, what Contractor agrees to supply under the Contract as specified in the Purchase Order
- ix. "Services" means services ancillary to the supply of the Goods, such as transportation and insurance and any other incidental services, such as installation, commissioning, provision of technical assistance, training and other obligations of the Supplier covered under the Contract;
- x. "GTC" means the General Terms and Conditions **and** "STC" means the Special Terms and Conditions of Contract contained in this section.
- xi. "Day" means a working day.
- xii. The term "Inspector" shall mean any person appointed by, or on behalf of the Purchaser to inspect supplies, stores or work under the contract or any person deputed by the Inspector for the purpose.
- xiii. The term "Particular" shall mean the following:
 - a) Specification
 - b) Drawing
 - c) Sealed Pattern denoting a pattern sealed and signed by the Inspector
 - d) Proprietary make denoting the produce of an individual firm
 - e) Any other details governing the construction manufacture and or supply as existing for the contract.
- xiv. The term "Purchase Order" shall mean, the communication/Contract signed on behalf of the Purchaser by an Officer duly authorized intimating the acceptance on behalf of the Purchaser on the terms and conditions mentioned or referred to in the said communication accepting the Tender or Offer of the Contractor for supply of stores of Plant, machinery or equipment or parts thereof.

2. **PERFORMANCE SECURITY DEPOSIT:**

On acceptance of Tender, the Contractor shall, within 21 days of the receipt of notification of award of purchase order / contract from C-MET, the Bidder shall furnish a Performance Security Deposit equivalent to 10% of the contract value in anyone of the forms as given below:

- i. Call Deposit Receipt or Pay Order or Demand Draft duly endorsed in favour of 'C-MET'.
- ii. Bank Guarantee from a Nationalized Bank in favour of 'C-MET' irrevocable and operative for the entire period starting from acceptance of the contract ending 60 days after completion of the warranty period whichever is later..

- iii. In case the vendor/supplier/contractor would like to submit security performance security Deposit by Bank guarantee (BG), then the original BG shall be routed through the banker to Purchaser directly by registered post with acknowledgement due. In case the BG is handed over to the vendor/supplier/contractor by the bank for any genuine reasons, the BG issuing branch shall immediately send an unstamped duplicate copy of the BG directly to Purchaser by registered post with acknowledgement due with the covering letter to verify the BG issued by us and confirm that it is in order. The vendor/supplier/contractor shall comply this provision meticulously.
- iv. Fixed Deposit Receipt issued by Nationalized banks endorsed in favour of 'C-MET Hyderabad'.
- v. The Performance Security Deposit is required towards fulfillment of the Purchase order obligations. This Security Deposit will be forfeited in case the successful Bidder fails to execute the Purchase order.
- vi. Failure of the successful Bidder to comply with the requirement of the Sl.No. 19 can constitute sufficient grounds for the annulment of the award in which event C-MET may call for new bids.
- vii. If the Supplier is called upon by the Purchase to deposit "Security" and the Supplier fails to provide the Security within the period specified such failure shall constitute a breach of Supply and the Purchaser shall be entitled to make other arrangements for the re purchase of the stores contracted for at the risk and expense of the Supplier in terms of Sl. No. 6(ii)(c) hereof and/or recover from the Supplier damages arising from such cancellation. No claim shall lie against the Purchaser either in respect of interest if any due on Security Deposit or depreciation in value.

3. ALTERATION OF SPECIFICATION AND DRAWINGS:

The Purchaser reserves the right to alter from time to time specifications, pattern and drawings as from the date specified by him and the stores shall be in accordance with the specification, patterns and drawings as so altered. In the event of any such alteration involving an alteration in the cost of, or in the period required for production, a revision of the Price and of the item for delivery shall be made in relation to the stores regarding the subject of the alteration. The decision of the Purchaser on the question whether the alteration involves an alteration in the cost of or as to the period required for production shall be final and conclusive.

4. **SAMPLES:**

Samples submitted for any reasons shall be supplied without charge and freight paid without any obligation of the Purchaser as regards safe custody or safe - return thereof. All samples submitted must be clearly labeled with the Supplier or name and address and Tender Number of the Supplier, submits the sample with his tender, the same shall not govern the standard of supply except when it has been specifically stated in the Purchase Order that it is accepted instead of any sealed pattern. Should certified samples be lend to the Supplier by the Purchaser the Supplier is responsible for the return in perfect order of all certified samples with the labels intact.

5. CONTRACTOR'S RESPONSIBILITY REGARDING DESPATCH

- (i) The Supplierr shall be responsible for obtaining a clear receipt from the Transport Authorities specifying the goods dispatched. The Purchaser shall not pay separately for transit insurance. All risks in transit being exclusively of the Supplier and the Purchaser shall pay for only such stores as are actually received by him in accordance with the Supply.
- (ii) Unless otherwise expressly mentioned in the Purchase order, the Supplier shall Pay and bear all Freights and all costs and expenses for Transporting the stores to the Place of Delivery specified in the Purchase Order and the Price specified in the Purchase Order shall be inclusive of all such freights, costs and expenses.
- (iii) In the case of an F.O.R Station of dispatch supply, the stores shall be booked at full wagon rates whenever available and by the most economical route and failure to do so will render

the Supplier liable for the whole or part of any avoidable expenditure, caused to the Purchaser.

6. **DELIVERY:**

- (i) The time for and date of delivery of the stores stipulated in the Purchase Order shall be deemed to be the essence of the Contract and Delivery must be completed not later than the dates specified therein.
- (ii) Failure and Termination: Should the Supplier fail to deliver the Stores or any consignment thereof within the period prescribed for such delivery, the Purchaser shall be entailed at his option either:
- (iii) Liquidated Damages: The delivery period quoted should be realistic. The delivery period so quoted and mentioned in the order is the essence of the order/contract. In case of delay in delivery of material as per the delivery schedule, Liquidated Damage @ 0.5% per week or part thereof on the undelivered portion subject to a maximum of 10% of the contract value shall be levied. Wherever, installation and commissioning is also involved, the supply will be deemed to have been completed only when the entire stores is supplied, installed and accepted.
 - (a) To recover from the Contractor as agreed through Liquidated Damages and not by way of penalty, a sum of 2% of the price of any stores, which the Contractor has failed to deliver as aforesaid, for each month or part of a month, during which the delivery of such stores may be in arrears and maximum deduction is 10% of the contract price. OR
 - (b) To purchase elsewhere, without notice to the Contractor on the account and at the risk of the Contractor, the stores not delivered from others of a similar description (where others exactly complying with the particulars are not in the opinion of the Purchaser readily procurable, such opinion being final) without cancelling the Purchase Order in respect of the consignment(s) not yet due for delivery. OR
 - (c) To cancel the Contract or a portion thereof and if so desired, to purchase or authorize the purchase of stores not so delivered or others of a similar description (where others exactly complying with the particulars are not, in the opinion of the Purchaser readily procurable, such opinion being final) at the risk and cost of the Contractor.

In the event of action being taken under Sl. No. 6 (ii) (b) & (c) above, the Supplier shall be liable for any loss which the Purchaser may sustain on that account, provided that the re-purchase, or if there is an agreement to re-purchase then such agreement, is made within six months from the date of such failure. But the Supplier shall not be entitled to any gain on such re-purchase shall be in the entire discretion of the Purchaser, whose decision shall be final. It shall not be necessary for the Purchaser to serve a "NOTICE" of such reproaches on the defaulting Supplier. This right shall be without prejudice to the right of the Purchaser to recover damages for breach of supply by the Supplier.

- (iii) Extension of Time: As soon as it is apparent that delivery date cannot be adhered to, an application shall be sent by the Supplier to the Purchaser. If failure, on the part of the Supplier to deliver the stores, in proper time shall have arisen from any cause which the Purchaser may admit as reasonable ground for an extension of the time (and his decision shall be final) he may allow such additional time as he considers it to be justified by circumstances of the case without prejudice to the Purchaser's rights to recover liquidated damages under S1. No. 10 hereof.
- (iv) If the Supplier fails to apply and secure extension of delivery Dates before effecting delivery of the supplies against the contract, acceptance of such stores by the Purchaser will no way prejudice the rights of the Purchaser to levy liquidated damages for delayed deliveries it will not

entitle the Supplier to claim for payment of statutory levies that come into force after the expiry of the delivery dates.

7 INSPECTION AND REJECTION:

- (i) Inspection & Rejection: The stores shall be tendered by the Supplier for inspection at such places as may be specified by the Inspector at the Supplier's own risk, expenses and costs and shall lie at such places of inspection at the risk of the Supplier and the stores will be subject to inspection and test as may be considered necessary by the inspector and his decision as regards rejection of goods shall be final and binding on the Supplier. If any goods are rejected as aforesaid, then without prejudice to the foregoing provision, the Purchaser shall be at liberty to:
 - (a) allow the Supplier to resubmit without prejudice to the Purchaser's right to claim and recover Liquidated Damages as provided in Clause 6 (iii) thereof, stores in replacement of those rejected within a time specified by the Purchaser (in which time shall be the essence of the Supply), the Supplier bearing in the cost of freight for such replacement without being entitled to any extra payment, **OR**
 - (b) buy the quantity of stores rejected or others of similar nature elsewhere at the risk and cost of the Supplier in accordance with the provisions contained in Sl. No. 10 (iii) hereof without affecting the Supplier's liability as regards the supply of any further consignments due under the Supply, **OR**
 - (c) terminate the Supply and recover from the Supplier, the loss to the Purchaser thereby incurred.
- (ii) Any stores submitted for inspection and rejected by the Inspector must be removed by the Supplier, within fourteen days from the date of receipt of intimation of rejection. Provided that in the case of dangerous infected or perishable stores, the Inspector (whose decision shall be final) shall notify the Supplier to remove such stores within 48 Hours of receipt of intimation of rejection and it shall be the duty of the Supplier to remove them accordingly. Such rejected stores shall lie at the Supplier's risk from the time of such rejection and if not removed within the aforementioned time, the Purchaser shall have the right either to return the rejected stores to the Supplier at the Supplier's risk by such mode of transport as the Purchaser may select to dispose off or segregate such stores as he thinks fit at the Supplier's risks and on his accounts and to appropriate such portion of the proceeds as may be necessary to cover any loss or expenses incurred by the Purchaser in connection with the said sale. Freight to destination on stores rejected after examination at destination shall be recoverable from the Supplier's at the Public Tariff Rate.
- (iii) Test Certificates and Guarantees, if required by the Inspector shall be obtained and furnished by the Supplier, free of cost.

8 **RECOVERY OF SUMS DUE:**

Whenever any claim for the payment of, whether liquidated or not, arises out of or under this Supply against the Supplier, the Purchaser shall be entitled to recover such sum by appropriating, in part or whole the Performance Security Deposited by the Supplier, if the security is taken against the Supply. In the event of the security being insufficient or no security has been taken from the Supplier, then the balance or the total sum recoverable, as the case may be, shall be deducted from any sum then due or which at any time thereafter may become due to the Supplier under this or any other supply with Purchaser. Should this sum be not sufficient to cover the full amount recoverable the Supplier shall pay to the Purchaser on demand the remaining balance due. Similarly, if the Supplier has or makes any claim, whether liquidated or not against the Supplier under any other supply with the Purchaser, the payment of all amount payable under the supply by the Supplier including the Performance Security Deposit shall be withheld till such claims of the Purchaser are finally adjudicated upon and paid by the Supplier.

9 **MODES OF PAYMENT:**

Unless otherwise agreed to between the parties in writing, payments for the delivery of the stores will be made within a reasonable time on submission of bills in duplicate. Payment for

the stores on each delivery will be made to the Supplier at the rates stipulated in the Purchase Order after goods are received and passed after inspection. Normally 30 days will be allowed for inspection after receipt of the stores.

10 LAW GOVERNING THE CONTRACT:

The laws of India shall govern this Supply for the time being in force. The marking of all stores supplied must comply with the requirements of Indian Acts relating to Merchandise Marks and all the rules made under such Acts.

11 **JURISDICTION**:

The Courts within the local limits of whose Jurisdiction the place from which the Purchase Order is issued.

12 **INDEMNITY:**

The Supplier shall at all times indemnify the Purchaser against all claims which may be made in respect of stores for infringement of any right protected by patent. Registration of design or Trade Mark and shall take all risk of accidents or damage which may cause a failure of the supply from whatever cause arising and the entire responsibility for the sufficiency of all the means used by him for the fulfillment of the supply.

13 **ARBITRATION:**

- (i) Notwithstanding anything contained above, in the event of any question, dispute or difference arising under these conditions or any condition contained in the Purchase Order or in connection with this supply, (except as to any matters the decision of which is specially provided for by these conditions) the same be referred to the sole arbitration of the Director or of some other person appointed by him. It will be no objection that the arbitrator is a Government servant, he had to deal with matters to which the supply relates or that in the course of his duties as a Government servant he has expressed views on all or any of the matters in disputes or difference. The award of the arbitrator shall be final and binding on the parties to this supply.
- (ii) If the arbitrator be the Director in the event of his being transferred or vacating his office by resignation or otherwise, it shall be lawful for his successor in office either to proceed with the reference himself, or to appoint another person as arbitrator, it shall be lawful for the Director to appoint another person as arbitrator, or
- (iii) If the arbitrator be a person appointed by the Director. In the event of his dying, neglecting or refusing to act, or resigning or being unable to act for any reason it shall be lawful for the Director to proceed with the reference himself or to appoint another person as arbitrator in place of the outgoing arbitrator.
- (iv) Subject as aforesaid, the Arbitration & Conciliation Act 1996 and the rule there under and any statutory modifications thereof for the time being in force shall be deemed to apply to the arbitration proceedings under this Clause. The Arbitrator shall have the power to extend with the consent of the Purchaser and the Supplier, the time for making and publishing the award. The venue of arbitration shall be the place as the Purchaser in the absolute discretion may determine.

14 EXERCISING THE RIGHTS & POWERS OF THE PURCHASER:

All the rights, discretions and power of the Purchaser under the supply shall be exercisable by and all notices on behalf of the Purchaser shall be given by the Director, or any person or persons authorized to enter into supply on behalf of the competent authority and any reference to the opinion of the Purchasers in the terms and conditions contained in this General Conditions of all supply shall mean and be construed as reference to the opinion of any of the persons mentioned in this Clause. The Supplier shall be responsible for any mistake in drawing and shall pay for any alterations of the works duty to any discrepancies, errors or omission in the drawings or other particulars supplied by him whether such drawings or particulars have been approved by the Purchaser or not.

15. **RESPONSIBILITY FOR COMPLETENESS:**

Any fitting or accessories which may not be specifically mentioned in the specification but which are usual or necessary are to be provided by the Supplier without extra charge and the plant be complete in all details.

16. **INSPECTION AND FINAL TESTS:**

All the tests necessary to ensure that machinery complies with the particulars and guarantees shall be carried out at such place or places as may be determined by the Inspector. Should, however it be necessary for the final test as to carried out at the site they shall be carried out within one month of completion of erection.

17. TRANSPORT AND RESPONSIBILITY FOR BREAKAGES EN - ROUTE:

Unless otherwise specified, the Supplier shall be responsible for any damage, which may be caused to the Plant during transit to the site of erection thereof.

18. **MODE OF PAYMENT:**

Unless otherwise agreed to in writing between the Purchaser and the Contractor, payment for the delivery of the machinery/Plant or materials will be made as follows:

- (a) 10% mobilization advance against Bank Guarantee (BG)
- (b) 80% on delivery, successful installation and testing of the equipment (i.e. up to the level of commissioning)
- (c) 10% after submission of Performance Bank Guarantee (PBG) for the warrantee period

19. **CORRUPT OR FRAUDULENT PRACTICES:**

C-MET requires that the bidders/suppliers/ contractors under this tender, observe the highest standards of ethics during the procurement and execution of such contracts. In pursuance of this policy,.

The following points define for the purpose and the terms set forth:

- a) Will not resort to, "corrupt practice" meaning, the offering, giving, receiving or soliciting of any thing of value to influence the action of the public official in the procurement process or in contract execution; and
- b) Will not resort to, "fraudulent practice" meaning a misrepresentation of facts in order to influence a procurement process or a execution of a contract to the detriment of C-MET, and includes collusive practice among bidders (prior to or after bid submission) designed to establish bid prices at artificial non-competitive levels and to deprive C-MET of the benefits of the free and open competition;
 - C-MET has all the right to reject a proposal for award of order if it determines that the Bidder recommended for award has engaged in corrupt or fraudulent practices in competing for the contract in question and will not be liable for offering any explanation further to such firm involved in unfair means.

C-MET will declare a firm ineligible, either indefinitely or for a stated period of time, to be awarded a contract if it at any time determines that the firm has engaged in corrupt and fraudulent practices in competing for, or in executing, a contract.

20. Force Majeure

(i) Notwithstanding the provisions of GTC SL No 6, the Supplier shall not be liable for forfeiture of its performance security, penalty or termination for default, if and to the extent that, its delay in

- (ii) performance or other failure to perform its obligations under the Supply is the result of an event of Force Majeure.
- (ii) For purposes of this clause, "Force Majeure" means an event beyond the control of the Supplier and not involving the Supplier's fault or negligence and not foreseeable. Such events may include, but are not limited to, acts of the Purchaser either in its sovereign or contractual capacity, wars or revolutions, fires, floods, Epidemics, quarantine restrictions and freight embargoes.
- (iii) If a Force Majeure situation arises, the Supplier shall promptly notify C-MET in writing of such conditions and the cause thereof. Unless otherwise directed by C-MET in writing, the Supplier shall continue to perform its obligations under the Supply as far as it is reasonably practical, and shall seek all reasonable alternative means for performance not prevented by the Force Majeure.

21. INTERPRETATION OF THE CLAUSES IN THE TENDER DOCUMENT / CONTRACT DOCUMENT:

In case of any ambiguity in the interpretation of any of the clauses in Tender Document, the interpretation of the Director, C-MET shall be final and binding on all parties.

Section-III

FORM FOR DETAILS ABOUT THE TENDERER

{To be submitted along with the Tender (Technical Bid) in the Letter Head}

1.	Tender Reference No		:						
2.	Item No.		:						
3.	Name of the Stores/Goo	ds/Equipment	:						
4.	Name of the Indian/Fore or their authorized distri	-							
5.	Registered Office Addre	ess	:						
6.	Address for Corresponde	ence	:						
7.	Please state whether party is Company/Firm/Agency: Authorized Stockiest / Dealer / Indian Agent (In case of an Indian agent of a Foreign Supplier, please attach copies of agency agreement and DGSD registration)								
8.	Total value of Annual T	urn-Over/ Sale	s for the last 3 Years	:					
9.	Goods & Services Tax F and Date and Vali	-). :						
10.	Income Tax (PAN) No. G.I.R No./Circle / Ward		:						
11.	Name of the Bankers		:						
12.	Address of the Bankers		:						
13.	Past Performance of the Please enclose list of Par Technical Institutions) s addresses with telephone same or similar items sup Last three years. Please	rties (Scientific tating their Nat no. and the nat oplied to them	e and mes and mes of during	clients.					
S. No	Type of Stores/Goods/ Equipment	Name of the client	Value of the Purchase Order	Date of award of Purchase Order	Date of completion				
110	Equipment	and entent	i dichase Oluci	i dichase Oluci	Compicuon				

S.	Type of Stores/Goods/	Name of	Value of the	Date of award of	Date of
No	Equipment	the client	Purchase Order	Purchase Order	completion

14.	Financial Soundness (Please enclose copies of certified financial statements for the last three years.)	:
15.	Technical Competence.& Work Experience in India	:
16.	Organizational Capability	:

	No. of qualified engineers:
	Name of the key personnel & qualifications:
17.	Whether any relative of Tenderer is working in C-MET. If so, give his name, designation and place of posting :
18.	Details of EMD:
	Demand Draft/Pay Order No
19.	Whether the extra terms quoted and the prices : Yes / No are open to negotiations.
	"I/We have fully understood the foregoing general terms & conditions of Tender as well as the Special terms & conditions of Tender given in the Tender Document and having accepted the same in toto and I /We have made my / our offer keeping in view those terms and conditions. I/We fully agree that once I / We have endorsed in whatsoever and whichever way my/our signatures herein below all conditions whatsoever way mentioned by me / us which may not be acceptable to you / your principals shall be deemed to be withdrawn by me / us and am / are fully aware that no grievances whatsoever shall be entertained by you if our tender / quotation is not accepted / finalized"
	(Signature with date) (Name and designation) Duly authorized to sign tender for and on behalf of
	Place Date

Section-IV

BANK GUARANTEE FORM FOR PERFORMANCE SECURITY DEPOSIT

To The Administrative Officer C-MET. IDA Phase-III Cherlapally, HCL Post Hyderabad – 500 051 TELANGANA STATE **INDIA** _____ (Name and address of the supplier) (Hereinafter WHEREAS called "the supplier") has undertaken, in pursuance of contract no to supply (description of goods and services) (herein after called "the contract"). AND WHEREAS it has been stipulated by you in the said contract that the supplier shall furnish you with a bank guarantee by a scheduled commercial bank recognized by you for the sum specified therein as security for compliance with its obligations in accordance with the contract; AND WHEREAS we have agreed to give the supplier such a bank guarantee; NOW THEREFORE we hereby affirm that we are guarantors and responsible to you, on behalf of the supplier, up to a total of. (Amount of the guarantee in words and figures), and we undertake to pay you, upon your first written demand declaring the supplier to be in default under the contract and without cavil or argument, any sum or sums within the limits of (amount of guarantee) as aforesaid, without your needing to prove or to show grounds or reasons for your demand or the sum specified therein. We hereby waive the necessity of your demanding the said debt from the supplier before presenting us with the demand. We further agree that no change or addition to or other modification of the terms of the contract to be performed there under or of any of the contract documents which may be made between you and the supplier shall in any way release us from any liability under this guarantee and we hereby waive notice of any such change, addition or modification. This guarantee shall be valid up to 30 (thirty) months from the date of Notification of Award i.e up to ---- (indicate date)

> (Signature with date of the authorized officer of the Bank)

..... Seal, name & address of the Bank and address of the Branch

Name and designation of the officer

Section-V

MANUFACTURER'S AUTHORISATION FORM

To,
The Administrative Officer C-MET, IDA Phase-III Cherlapally, HCL Post Hyderabad – 500 051 TELANGANA STATE, India
Dear Sir,
Ref. Your TE document No, dated
We, who are proven and reputable manufacturers of (name and description of the goods offered in the tender) having factories at, hereby authorize Messrs (name and address of the agent) to submit a tender, process the same further and enter into a contract with you against your requirement as contained in the above referred TE documents for the above goods manufactured by us.
We further confirm that no supplier or firm or individual other than Messrs (name and address of the above agent) is authorized to submit a tender, process the same further and enter into a contract with you against your requirement as contained in the above referred TE documents for the above goods manufactured by us.
We also hereby extend our full warranty, CMC as applicable as per tender clause for the goods and services offered for supply by the above firm against this TE document.
We also hereby confirm that we would be responsible for the satisfactory execution of contract placed on the authorized agent.
We also confirm that the price quoted by our agent shall not exceed than that which we would have quoted directly.
Yours faithfully,
[Signature with date, name and designation] For and on behalf of Messrs
[Name & address of the manufacturers] Note: 1. This letter of authorization should be on the letterhead of the manufacturing firm and should be signed by a person competent and having the power of

attorney to legally bind the manufacturer.

2. Original letter may be sent.

Section-VI

(in the company letter head)

BID FORM AND PRICE SCHEDULE

Tender Reference No. : ENQ. NO.: HD/PUR/SP-32/FFRTF/71/2017-18

Date: .04.2018

Name of the Stores/ Goods/Equipment : FRONT FIRING ROTARY TILTING GAS FIRED

FURNACE (FFRTF)

Sl.	Description		N	Qty.	Unit Price	Amount/ Rs
No.		CODE				
1	FRONT FIRING ROTARY					
	TILTING GAS FIRED					
	FURNACE (FFRTF)					
	Freight charges					
	Insurance					
	Installation charges					
	Taxable value					
	GST					
	GRAND TOTAL					

	GRAND TOTAL				
1.	Payment Terms:				
2.	Bid Validity:				
3.	Delivery Schedule:				
4.	Place of delivery:				
5.	Warranty, if applicable:				
5.	GST Registration No:				
7.	Any other relevant information:				
		Signat	ure of Ten	derer	
			Name_		
		Seal	of the Ter	nderer	

Section-VII

PRICE REASONABILITY CERTIFICATE

It is certified that the rates quoted for the	stores (plant/machinery) vide our Quotation No.
dated	_ are not more than as charged to other Govt.
/PSU's for similar supplies made in recent past.	
	(6)
	(Signature with date)
	(Name and designation)
•	Duly authorized to sign tender for and on behalf of

Section –V TENDER FORM	
Date	
The Administrative Officer C-MET, IDA Phase-III Cherlapally, HCL Post Hyderabad – 500 051 TELANGANA STATE, India	
Ref. Your TE document Nodated	
We, the undersigned have examined the above mentioned TE document, includ amendment/corrigendum No, dated (if any), the receipt of which is here confirmed. We now offer to supply and deliver (Description of goods and services) conformity with your above referred document, attached herewith and made part of this tender.	eby
If our tender is accepted, we undertake to supply the goods and perform the services as mentionabove, in accordance with the delivery schedule specified in the List of Requirements.	ned
We further confirm that, if our tender is accepted, we shall provide you with a performance security required amount in an acceptable form, read with modification, if any, for due performance of contract.	
We agree to keep our tender valid for acceptance as required in the TED, read with modification for subsequently extended period, if any, agreed to by us. We also accordingly confirm to abide this tender up to the aforesaid period and this tender may be accepted any time before the expiry the aforesaid period. We further confirm that, until a formal contract is executed, this tender read we your written acceptance thereof within the aforesaid period shall constitute a binding contract between the confirmal contract between the confirmal contract and contract between the confirmal co	by of vith
We further understand that you are not bound to accept the lowest or any tender you may rece against your above-referred tender enquiry.	ive
We confirm that we do not stand deregistered/banned/blacklisted by any statutory Authorities as govt. rules/procedures.	per
Further, we confirm that the documents submitted by us for getting qualified in the bid are genuing any fake/ forged documents are submitted, C-MET has the right to reject their offer altogether.	e. If
We confirm that we fully agree to the terms and conditions specified in above mentioned document, including amendment/ corrigendum if any	TE

(Signature with date)
(Name and designation)
Duly authorised to sign tender for and on behalf of

Section- IX

BANK GUARANTEE FORM FOR EMD

	(hereinafter called the "Tenderer") has submitted its								its
l		for the	e supply of	·					
called	the	"tender")	against	the	e purc	haser's	tenc	der ei	nquiry
			Know	all	persons	by	these	presents	that
		of					(Hei	reinafter	called
aving our	registe	red office at					a	are bound	d unto
		(hereinafte	r called the	e "Pur	chaser) in	the su	m of Rs.		
									er, the
elf, its suc	ccessors	and assigns l	by these pr	esents	s. Sealed	with th	e Comm	non Seal	of the
				•		ogates 1	from the	tender i	n any
during that a) fails of contract or	he perio or refuse	d of its validit es to furnish th	y:- e performa	ance so	ecurity for		•		
	If the Trespect value or talks	If the Tenderer respect within the Tenderer during the period a) fails or refuse contract. or	called the "tender") of aving our registered office at (hereinafte for which payrelf, its successors and assigns to a successor a	called the "tender") against Know of	called the "tender") against the Know all of wing our registered office at (hereinafter called the "Pur for which payment will and truelf, its successors and assigns by these presents day of 20. If the Tenderer withdraws or amends, impair respect within the period of validity of this ten If the Tenderer having been notified of the ac during the period of its validity:- a) fails or refuses to furnish the performance so contract. or b) fails or refuses to accept/execute the contract	called the "tender") against the purc Know all persons of	called the "tender") against the purchaser's Know all persons by of aving our registered office at (hereinafter called the "Purchaser) in the sur for which payment will and truly to be made to elf, its successors and assigns by these presents. Sealed with the survey day of 20 The condition of the Tenderer withdraws or amends, impairs or derogates to respect within the period of validity of this tender. If the Tenderer having been notified of the acceptance of his to during the period of its validity: a) fails or refuses to furnish the performance security for the ducontract. or b) fails or refuses to accept/execute the contract.	called the "tender") against the purchaser's tender Know all persons by these of (Hereiving our registered office at (hereinafter called the "Purchaser) in the sum of Rs. for which payment will and truly to be made to the said elf, its successors and assigns by these presents. Sealed with the Common day of 20. The conditions of the Tenderer withdraws or amends, impairs or derogates from the respect within the period of validity of this tender. If the Tenderer having been notified of the acceptance of his tender by during the period of its validity: a) fails or refuses to furnish the performance security for the due perfor contract. or b) fails or refuses to accept/execute the contract.	for the supply of Roughlet the called the "tender") against the purchaser's tender ender against the purchaser's tender against the purchaser's tender ender ende

We undertake to pay the Purchaser up to the above amount upon receipt of its first written demand, without the Purchaser having to substantiate its demand, provided that in its demand the Purchaser will note that the amount claimed by it is due to it owing to the occurrence of one or both the two conditions, specifying the occurred condition(s).

This guarantee will remain in force for a period of forty-five days after the period of tender validity and any demand in respect thereof should reach the Bank not later than the above date.

(Signature of the authorized officer of the Bank)

Name and designation of the officer
Seal, name & address of the Bank and address of the Branch

Section- X

SPECIAL CONDITIONS FOR ERECTION & COMMISSIONING

1. Scope

The Tenderer shall prepare, in consultation with C-MET, a programme for the completion of the work, which may be carried by agreement in writing between the C-MET and the Tenderer. The Tenderer shall maintain progress throughout the period of supply so as not to delay other traders or Tenderers.

2. **DIMENSIONS**

Dimensions are to be adhered to as stated in the specifications or as figured on the drawings. Large scale details and written particulars furnished by the C-MET are to be used in preference to small scale drawings and are to be strictly followed as to their true intent and meaning. However, Tenderer should check physical dimensions before proceeding with any work. Any discrepancies between drawings and physical dimensions are to be brought to the notice of C-MET's Engineers.

3. **INCLEMENT WEATHER**

The Tenderer shall take note of the climatic conditions as pertaining to the areas in which the works are located and shall be deemed to have included all costs for protecting from injury by weather all works and materials that may be so affected.

4. SUPERVISION OF WORK

The C-MET reserves the right to interview the Tenderer's nominated site representative and skilled tradesmen either prior to the award of the contract or prior to commencing work on site. Should the nominated representative not be considered suitable, the Tenderer shall provide further representatives and skilled tradesmen for interview until such time as the C-MET is satisfied that a competent man will be appointed. That the C-MET may have approved the appointment will in no way relive the Tenderer of any responsibility under the terms of contract. All costs including travelling expenses etc., incurred by the Tenderer in following the above procedure shall be borne by the Tenderer.

5. LABOUR DISPUTE

The Tenderer shall keep C-MET fully informed on all matters concerning labour disputes, strikes, etc., involving the Tenderer's labour force and the effects on the progress of work. C-MET shall be kept fully informed of the course of action proposed to remove or alleviate the cause of the dispute.

6. **PHOTOGRAPHS**

The Tenderer shall not take photographs of any part of the works without the written permission of the C-MET.

7. **CONSUMABLES**

All Consumables required for the erection and commissioning shall be under the scope of the tenderer.

8. **OTHER TENDERERS**

The Tenderer shall take fully into account the effect of other concurrent work being carried out in the area or on the same site by other Tenderers on the site will be expected from the Tenderers to ensure that the works are completed in a trouble free, efficient and neat manner.

ADDITIONAL CONDITIONS

- 1. Please note all required tools tackles, ladders, scaffolding etc. for execution / completion of site shall be organized by the successful Tenderer for carrying out their work.
- 2. Main incoming supply 3 phase/1phase, 415V/230V, 50hz, will be provided by the buyer at one point. The successful Tenderer shall carry out further distribution between the electrical panel and equipments with necessary cabling.
- 5. All required labour and material handling equipment required for execution at site shall be organized by the successful Tenderer for carrying out their work.
- 6. Please note all the labour engaged at site for execution of work shall be covered under ESI/PF as per the government rules, and all necessary details shall be submitted to C-MET before starting the execution work at site.
- 7. The Tenderer shall have a comprehensive all risk (CAR) & Workman Compensation (WC) of the full amount of the PO value.
- 8. In general, C-MET working starts from 9.00 am to 5.30 p.m. For carrying out extra work or if the Tenderer decides to work after duty hours, special permission shall be taken from the authorities before doing so.
- 9. Safety of the labour employed at site shall be at the responsibility of the Tenderer. Tenderer should ensure that labors use all the required safety equipments and takes precautions. If any of the Tenderer found not adhering to the safety precautions, his work at site would be stopped immediately & a penalty of Rs.1,000/- per day will be charged to him. However this delay should not reflect in the overall project delay, as it might lead to penalty as per the LD clause. Client/C-MET shall not be held responsible for any accidents / Mishap that may happen on site due to negligence / overlook of safety precautions.

STATUTORY OBLIGATIONS

- 1. The Tenderer shall observe that the working as intended in the document is adhered to or conforming to and NOT NECESSARILY BE LIMITED to the following standard regulations:
 - i) Factories Act as amended (latest)
 - ii) Explosive Act.
 - iii) Safety regulations laid down by Central Government and state Authorities and the C-MET.
 - iv) Indian Electricity Rules and Regulations.
 - v) Standard Codes for Pressure Piping (ASA B31.3.1973)
 - vi) Statutory requirements for inspection and test of all lifting appliances and auxiliary lifting gear.
 - vii) Labour Act.
 - viii) Local-Bye-Laws.
 - ix) Regulations laid by the Fire Safety Committee, Insurance Association of India.
- In case of conflict between these specifications and the standards, which come into force, shall be considered as included and applicable to the work covered here and elsewhere in this document.