



ENQUIRY LETTER

ENQ. NO.: HD/PUR/SP-35/MF/32/2018-19/10308

Date: 29.08.2018

Subject: Procurement of "MUFFLE FURNACE" - Regarding.

Due date for receipt of the quotations	25	09	2018	TIME BY:16.30 hours
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Sir,

Sealed quotations conforming to the specifications are invited in **TWO BID SYSTEM** for the following item(s) from reputed manufacturers/authorized distributors/dealers. Quotation may please be submitted, keeping in view, the terms and conditions given below and overleaf, otherwise quotations will be rejected.

S. No.	Description of the item	Quantity	Specifications
01	MUFFLE FURNACE (PURPOSE: FOR HEAT TREATMENT AND ASHING OF GRAPHITE, COAL, OTHER HYDROCARBONS) Delivery Period: 4 - 6 Weeks	1 No.	As per 'Annexure - I' enclosed

Terms & Conditions:

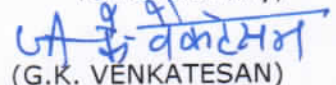
- C-MET is registered under Department of Scientific and Industrial Research (DSIR) and eligible for concessional GST rates @ 5% for Research Institutions as per Notification No. 45/2017 - Central Tax (Rate) dated 14.11.2017 and 10/2018 - Integrated Tax (Rate) dated 25.01.2018. The requisite certificate for availing concessional GST Rate along with documents will be provided.
- The minimum local content, the margin of purchase preference shall be 20% and the procedure for preference to Make in India shall be as per GOI, Ministry of Commerce and Industry (Public Procurement Section) Order No. P-45021/2/2017-PP (BE-II) dated 28.05.2018.

Note:

- The envelope super-scribed with [a] Quotation No. [b] Due Date & [c] Description of the Item and be sent to the undersigned before the due date.
- The Technical bid & Financial bid should be in separate sealed covers**
- The quotation should be submitted in the enclosed format only.**
- The Enquiry Letter No. & date should be clearly indicated in the quotation, otherwise quotation will be rejected.**
- Firms or their authorized representatives are requested to attend the opening of Combined/Technical bids on **26.09.2018 at 1200 hours**. If there is any delay in opening of technical bids will be intimated to all bidders.
- These details are also available in our website: <http://www.cmet.gov.in>

Thanking you,

Yours faithfully,



(G.K. VENKATESAN)

Administrative Officer

venkatesan@cmet.gov.in

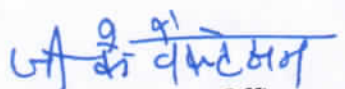
Encl.: As above.



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Specific terms and conditions to the tender:-

1. Please submit the Technical Details/Catalogue/Data Sheets.
2. The offer should be valid for a period of 90 days from the date of opening of Tender.
3. **Please send the quotations ONLY in 'SEALED COVER' indicating our tender enquiry No. and due date by Hand/speed post/courier so as to reach us on or before the due date & time. C-MET will not be responsible for any postal delays.**
4. **E-Mail/fax quotations 'WILL NOT BE ACCEPTED'.**
5. **All Tax invoices shall invariably bear your GST Registration No. (GSTIN) and the applicable GST rates. In the absence of which, the invoice(s) shall not be processed for payment.**
6. Our standard delivery term is FOR, C-MET. In case any vendor offers delivery term of Ex-works, Packing and Forwarding charges if any should be indicated separately either as a percentage of the quoted rate or as a Lumpsum amount.
7. We are exempted from the payment of Customs Duty as per Notification No. No. 51/96-Customs dated 23.07.1996 and necessary exemption certificate shall be issued upon request.
8. Our standard payment term is 100% within 30 days for indigenous orders and sight draft for foreign orders. Firm should provide Bank details for RTGS remittance.
9. **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.**
10. **Security Deposit:-** Wherever the offer value is Rs. 5.00 lakhs or above, the successful tenderer should submit Security Deposit@10% of the order value by way of Bank Guarantee /FC Receipt. The Bank Guarantee shall be obtained from any Scheduled Bank on Rs. 200/- Non Judicial Stamp paper and should be valid beyond 2 months from the completion of all contractual obligations. **Please see Sl. No. 1 & 2 of Special Notes.**
Note: Clause NO. 9 & 10 are mandatory and offers of the vendors who have not agreed for the above conditions will be excluded from the procurement process. Micro and Small Vendors are not exempted from the submission of Security Deposit.
11. In order to avail of the benefits extended to by 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.
12. If any bidder submits forged / false document along with the tender, offer of such vendors will be summarily rejected and such bidders will be blacklisted for all future tenders.
13. Wherever samples are required to be submitted along with the quotation, offer without sample will not be considered.


Administrative Officer
C-MET, Hyderabad

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

CHECK LIST

Documents to be submitted along with the bids
(TECHNICAL BID)

S No	Description	Yes/No	Page No
1	Covering/introduction letter from the Firm referring to C-MET's tender enquiry No and date towards participation in the tender.		
2	Acceptance of terms & conditions of tender enquiry		
3	Signed copy of tender enquiry		
4	Price Reasonability Certificate		
5	Bid form and Price schedule with commercial terms WITHOUT PRICE		
6	Previous experience details alongwith documents like PO/WO etc. (not more than 3 years old)		
7	Undertaking and declaration		
8	Technical compliance statement with/without deviation		
9	Technical brochure of the Product offered or drawings		
10	GST Registration certificate or No		
11	Bank details for NEFT/RTGS		
12	Warranty		
13	AMC (if applicable) in Prescribed format but WITHOUT PRICE		

Documents to be submitted alongwith Commercial bids
(PRICE BID)
(Separate sealed cover)

S No	Description	Page No
1	Bid form and Price schedule with commercial terms WITH PRICE	

Tender Enquiry No. HD/PUR/SP-35/MF/32/2018-19

Dated 29.08.2018

MUFFLE FURNACE: C-MET, HYDERABAD INVOLVED IN GROWTH OF SEMICONDUCTOR SINGLE CRYSTALS. THIS MUFFLE FURNACE WILL BE USED FOR ETCHING OF SINGLE CRYSTAL WAFERS AT HIGH TEMPERATURE UNDER HARSH ENVIRONMENT SUCH AS MOLTEN POTASSIUM HYDROXIDE (KOH), SODIUM HYDROXIDE (NAOH) AND BURNING (ASHING) OF HIGH DENSITY GRAPHITE CRUCIBLES AND THEREFORE HEATING ELEMENTS MUST BE PROTECTED FROM CARBON BUILD-UP OR CORROSIVE ATMOSPHERE USING SILICON CARBIDE TILES.

Supply, installation and commissioning of muffle furnace **for heat treatment and ashing of graphite, coal, other hydrocarbon**, complete as per given below specifications and features.

Technical Particulars for Muffle Furnace for Heating and Ashing

SI No	DESCRIPTION	SPECIFICATION	REMARKS	OFFERED BY VENDOR
1.	Make	Supplier should specify		
2.	Model	Supplier should specify		
3.	Designed temperature	$\geq 1200^{\circ}\text{C}$		
4.	Continuous Operation Temperature	$\geq 1100^{\circ}\text{C}$		
5.	Continuous Operation Time	≥ 120 hrs		
6.	Precision in temperature measurement	$\pm 5^{\circ}\text{C}$		
7.	Heat up time to operating temperature	≤ 70 min.		
8.	Internal Chamber Dimensions (approximate)	Height - 230mm \pm 20 mm Width - 200mm \pm 20 mm Depth - 400mm \pm 20 mm		
9.	External Dimensions including controller (approximate)	Height - 700mm \pm 20 mm Width - 500mm \pm 20 mm Depth - 670mm \pm 20 mm	Controller should be integral part of the system within mentioned dimensions	
10.	Housing	Table top		
11.	Volume	Approx. 18 L		
12.	Thermocouple	Type R (Platinum Rhodium -13% / Platinum)		
13.	Ashing process	Preheated air before entering to chamber.	<i>Air flow rate should be nearly half of the chamber volume</i>	
14.	Heating element	Kanthal APM grade heating element	<i>Heating arrangement should be such that uniformity in Horizontal temperature should be maintained within the volume</i>	
15.	Skin temperature	Furnace will be operated in normal ambient atmosphere with Skin temperature at $\sim 50^{\circ}\text{C}$ at designed temperature.		
16.	Heating Elements protection	Protection of the elements from carbon build-up or		

		corrosive atmosphere, using silicon carbide tiles		
17.	Temperature controller	It should have PID control with at least one program with 6 segments or more. (Each segment comprising of a ramp followed by a dwell).	Honeywell / Eurotherm make	
18.	Over temperature Protection device	It should be provided for un attended operation and safety.	Honeywell /Eurotherm make	
19.	Power supply	220V, 50Hz, 1F A.C. / 440 V, 50Hz, 3F A.C.		
20.	Max power (kW)	Requires less than 7.5 kW to reach max temperature		
21.	Holding power (kW)	Requires less than 4 kW to to hold operating temperature		
22.	Maximum Weight of Furnace	< 75 Kg		
23.	Accessories	The sample tray and sample loading tool to be provided for the quoted furnace as standard.	<i>Required accessories should come with system free of cost.</i>	
24.	Consumables items	Supplier should mentioned consumables required for smooth operation of the system	Quote 1 set of heating elements and 1 thermocouple separately.	
25.	Warranty	One year from the date of installation, commissioning and acceptance.		
26.	Installation	Onsite installation is required as mentioned in scope of supply		
27.	Validation	Supplier's has to show heating time to reach temperature as mentioned sl no 3 and 7.		
28.	NOTE	Supplier should indicate pre-installation requirements / formalities if required.		

To,

Date:

The Administrative Officer
C-MET, IDA Phase III
Cherlapally,
Hyderabad 500 051

Sub: Acceptance of Terms & Conditions of Tender.

Tender Reference No. _____ dated _____

Name of the Tender/Work: - Award of contract for supply of _____

Sir/Madam,

I/We have downloaded/obtained the tender document(s) for the above mentioned 'Tender/Work' for the web site(s) namely:

_____ as per your advertisement, given in the mentioned website(s)/enquiry letter.

2. I/we hereby certify that I/we have read the entire terms & conditions of the tender documents from Page No. _____ to _____ (including all documents like Annexure(s), schedules(s), etc.) which form part of the contract agreement and I/We shall abide hereby by the terms/conditions/clauses contained therein.

3. The corrigendum(s) issued from time to time by your department/organization too have all been taken into consideration, while submitting this acceptance letter.

4. I/We hereby unconditionally accept the tender conditions of above mentioned tender document (s)/Corrigendum(s) in its totally/entirely.

5. In case any provisos of this tender are found violated, then your Department/Organizations shall without prejudice to any other right or remedy be at liberty to reject this tender/bid including the forfeiture of the full said earnest money deposit absolutely.

Yours faithfully,

Authorized Signatory

(in the company letter head)

PRICE REASONABILITY CERTIFICATE

It is certified that the rates quoted _____ are not more than as charged to other Govt. /PSU's for similar supplies made in recent past. Copies of the supply orders received from other Govt/PSU's are enclosed alongwith the technical bid.

Signature of Tenderer_____

Name_____

Business Address_____

Seal of the Tenderer_____

(in the company letter head)

BID FORM AND PRICE SCHEDULE

Tender Reference No. : ENQ. NO.: HD/PUR/SP-35/MF/32/2018-19/ 10308
Date: 29.08.2018

Name of the Stores/ : MUFFLE FURNACE
Goods/Equipment

Sl. No.	Description	HSN/ SN CODE	Qty.	Unit Price	Amount/ Rs
1	MUFFLE FURNACE (PURPOSE: FOR HEAT TREATMENT AND ASHING OF GRAPHITE, COAL, OTHER HYDROCARBONS)		1 No.		
	Freight charges				
	Insurance				
	Installation charges				
	Taxable value				
	GST				
	GRAND TOTAL				

1. Payment Terms:
2. Bid Validity:
3. Delivery Schedule:
4. Place of delivery: C-MET, Hyderabad
5. Warranty, if applicable:
6. GST Registration No:
7. Any other relevant information:

Signature of Tenderer _____

Name _____

Seal of the Tenderer _____

(in the company letter head)

PREVIOUS EXPERIENCE DETAILS

Sl. No.	Name of the Organization	Contact person Name, telephone / mobile no., fax, e-mail	Date of Supply	Quantity	Remarks

Signature of Tenderer _____

Name _____

Seal of the tenderer _____

(TO BE SUBMITTED ALONG WITH TECHNICAL BID)

(IN THE COMPANY LETTER HEAD)

UNDERTAKING/ DECLARATION

I/We having our office at
declare that I/we have never been blacklisted by any State Government/Central Government or any State/Central PSU.

2. I/We, hereby declare that the particulars furnished by me/us in this offer are true to the best of my/our knowledge and I/We understand and accept that, if at any stage the information furnished by me/us are found to be incorrect or false, I/We am/are liable for disqualification from this tender and also liable for any penal action that may arise due to the above, besides being black listed.

3. I/We hereby accept to provide warranty/ guarantee and Free Service for a period of minimum one year from the date of supply/ installation of the materials.

4. I/We of
hereby agree on the acceptance of this tender by Director, C-MET to, in accordance with the terms and conditions of contract and at the rates or price specified in financial bid (BOQ).

5. This is also certified that the rates quoted in the financial bid are not more than the rates charged from any other Institution/Department/ Organization in the last six months. No Other charges would be payable by the Institute.

6. I/We have gone through the terms and conditions and will abide by them as laid down above. I hereby undertake that the information provided above and elsewhere in the tender is true and the tender is liable to rejection if the same is found to be false or the information is found to have been suppressed by me.

Name & Signature of the Supplier/Contractor/
Authorized signatory with Official stamp/seal

(in the company letter head)

BIDDER'S DETAILS

1	Name of the supplied/party/firm	
2	Name of the authorized representative	
3	Communication address	
4	Telephone Nos.	
5	Mobile Nos.	
6	Fax and e-mail address	
7	Web address	
8	Bank details for payment through NEFT/RTGS	
9	Name of Bank	
	Branch	
	Account No	
	IFSC No	
	MICR No	
	Cancelled cheque for verification of above details	

Signature of Tenderer_____

Name_____

Business Address_____

Seal of the Tenderer_____