

Item No-2: High Temperature Tube furnace 1200°C- 3 Zoned
NIT 04/2025-26 dated 8-10-2025 due on 30-10-2025

TWO PARTS TENDER ITEM

Item No-02: High Temperature Tube furnace 1200°C- 3 Zoned*

Specification of High Temperature Tube furnace 1200°C- 3 Zoned	
Item	Description
Volume & Working Dimension	Working Inner Dia \geq 40 mm & Quartz Tube Length \geq 900 mm or more
	Heated Tube Length \geq 500 mm
	Constant Temperature Zone \geq 250 mm or more with \pm 5 K according to DIN 17052-1
	Workspace Dimension – minimum Dia \geq 40 mm x 500 mm or more
Temperature	T-max = 1200°C
	T-max Continuous Operation \geq 1150°C
Ramp Rate / Heating Speed	\geq 300/h from room temperature to 1150°C
	Maximum Time to T-Max not more than 4 hours
Uniformity	\pm 5 K according to DIN 17052-1
Temperature Measurement	Thermocouple Type N
Heating Element & Insulation	High Quality Kanthal wire Elements on support tube to provide free radiation.
	Insulation materials without categorization according to EC Regulation No 1272/2008 (CLP).
	High-quality fibre insulation material which are not classified as Carcinogenic according to TRGS 905, class 1 or 2 for furnace for the high working temperature as per latest international norms.
No. Heating Zones	3-Zoned Heating
Door Opening Temperature	\leq 100°C
Control	Professional controls system to provide convenient operation of all functions
	Operation of all furnace functions via a 5 inch touch screen color display with clear visualizations of the process via graphical charts & tabular display of the program.
	50 programs / 40 segments, delayed start time in real time.
	Temperature control Accuracy of \pm 1 °C or better & Temperature input of Per Deg C or per Minute or better.
	Detailed information menu with: Time and date , Program run times, Operating hours counter , Integrated kWh counter , Error messages in plain text display, Display of controller setting values, Copy and delete function for programs
	The PID Programmer Controller should have the facility to auto start & resume the on-going program after a power outage / power failure.
	Controller interlock with password lock to protect against unauthorized operators.
	Inbuilt Wi-Fi interface for status monitoring with mobile end devices
	Over-temperature protection with automatic shutdown if the set target temperature is exceeded
	The controller should be equipped with minimum 2 extra functions to support additional functions such solenoid valves, acoustic signal etc.
	The controller should have option for retrieving recorded data on an external drive & recording of process data with USB Flash Drive
	The system should have the facility of writing Programs & Generating the reports on PC through external flash drive/pen drive.

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	The controller should facilitate iOS / Android App-Functions (from Google Play store / App store) Convenient monitoring of multiple furnaces simultaneously, Dashboard, Individual overview of a furnace, Display of active/inactive furnaces, Operating status, Current process data etc..
Construction & Design	Stainless Steel panel frame construction with Outside wall temperatures 55 °C + ambient air temperature. Furnace complies to ISO 13732-1 with Non Rust Housing Texture Stainless Steel.
	Switchgear integrated as inbuilt Control Cabinet.
	Double Wall Furnace Casing with Fan Cooling for low exterior Temperature.
	Controller operation in Switchgear integrated as Control Cabinet of furnace inbuilt.
	Inner chamber casing made out of heat resistant stainless steel, reinforced bottom
	Table Top Tube Design Furnace with in- built control cabinet placed at bottom for Ease of Operation.
Vacuum / Gas Supply System	The furnace should be quoted for Vacuum operations upto 900 °C
	A long Dense tube Quartz Tube must be quoted for over 900 mm length
	Should be Gas Tight applications with non-flammable gases Ar/ N ₂ /He/O ₂ /Forming Gases upto ≥ 1100°C
	2 Gas/Vacuum-tight, Air -cooled stainless steel flanges
	Mounting support system with Brackets on furnace housing for the tube/flanges.
	Gassing system for one non-flammable protective gas (Ar/He/N ₂ /O ₂ /forming gas etc.) with shutoff valve & flow meter (50-500 l/hr),
Switching System	Silent Solid State power control Relays; Control system built into furnace base
Electrical	Single-Phase, 230 V AC Complying with Indian Electrical Supply.
Warranty	12 Months from successful Installation
Certificates	ISO9001 & CE compliance Certificates
	Certificates for Furnace to comply with : DIN EN 61010-1 (08.2002) DIN EN 60335-1 (11.2010) DIN EN 61000-6-1 (10.2007) , DIN EN 61000-6-3 (09.2007), RoHS directive 2011/65/EU
	Warranty Certificate for 1 year
Special Instruction to Bidders	Diagram, Layout drawing, Wiring diagram, Operating instructions including maintenance instruction
	Installation ,Commissioning & Training at UGC DAE-Indore Site , by Factory Trained Engineer to be included.
Manufacture, Availability Assembly and Testing:	The model, its specification and its available modification/ accessories must be presented in the manufacture's website on day before the first day of public display of the tender call. The product must be part of serial production of the OEM and not a one-off model.
	A certificate from manufacture certifying that the quoted/ proposed model/unit has already been pretested with all the accessories/fitting as per the claim and required specification needs to be provided while responding to the tender call.
	Mere copy-pasting from the asked specification list (completely or partially) will lead to disqualification in technical verification round. Provide user list (with contact details) where same unit has been delivered.
	ALL Items / Accessories must be supplied by the OEM to have single point contact to ensure functionality of furnace specifications.
	Assurance for availability of all spares for at least 10 years after procurement.
	All documents/catalogue to proof the claims and descriptions needs to be furnished with statement from OEM if the specs are not standard equipment as per the OEM

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	datasheets/websites, without which the claims will not be acceptable.
Pre-Qualification criteria:	The OEM must have supplied at least 5 similar Temperature furnaces to premier Govt. of India organizations / Reputed Private Industries. Please attach contact details (Name, Phone, email address) of at least 3 in support of claim. Please attach National / International reference list of supplies.
	Copies (02) of Purchase Orders must be attached.
	Exclusive authorization certificate specific for this tender for representation & service Support without which bid will be rejected. This criteria is proof of accountable service support by OEM & local partner.

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NOTICE INVITING TENDER No. 04/2025-26 dt. 08-10-2025 due on 30-10-2025 at 16.00 hrs.
Director, UGC-DAE Consortium for Scientific Research, Indore invites separately sealed bids from eligible bidders for supply of the following:

Sl. No.	Description of Item
1.	High purity Chemicals, Substrates and Targets.
*2.	High Temperature Tube Furnace- 3 Zoned.
a.	Cost of the Tender Document: Rs. 500/- (Non-Refundable) for each item, payable by demand draft in favour of “UGC-DAE CSR” payable at Indore.
b.	The details of the tenders are available on our website www.csr.res.in . The cost of Tender Document is Rs. 500/- for each item shall be payable by Demand Draft in favour of “UGC-DAE CSR” payable at Indore in separate envelope along with the tender. The tenderer must submit the tender cost along with the tender. The tenders, if received without tender cost, will not be considered.
c.	<i>Amendments/corrigendum if any, will only be published on our website : www.csr.res.in</i>
d.	If any overseas suppliers participate in the tender directly (Who does not have Indian Agent or Branch Office in India), then the cost of the tender documents may be waived.
e.	Starred (*) Items must be quoted in two separate sealed parts (Part A-Technical and Part B-Financial).
f.	Tender document will be available from 09-10-2025 to 30-10-2025 on our website.
g.	These items can be shifted in any laboratory of the consortium in the country.
	Administrative Officer-I (Purchase & Stores Section)

Terms and Conditions

1.	Tender in sealed cover duly superscribed "Tender No. dt.... due onfor item "Complete with all details, otherwise tender may not be opened/considered. If you are interested to quote more than one items, you shall submit the quotations in sealed cover separately. (*) items as mentioned in the Tender No NOTICE INVITING TENDER No. 04/2025-26 dt 08-10-2025 due on 30-10-2025 at 16:00 hrs must be quoted in two parts (Part A-Technical and Part B-Financial). The two parts show separate sealed covers.
2.	Price should be quoted CIP Mumbai & Insurance up to Indore separately (As per INCOTERMS 2010). In case of local firms they should quote for delivery in premises of this office.
3.	Director, UGC-DAE CSR, Indore, reserves the rights of accepting in full or part /not accepting the tenders without assigning any reasons.
4.	The acceptance of tender, will rest with the Director, UGC-DAE CSR, Indore, who does not bind himself to accept the lowest tender and reserves to himself the authority to reject any or all of the tenders received without assignment of any reason.
5.	Delivery and Installation period must be mentioned. (if Installation required)
6.	Liquidated Damages: The penalty for late delivery will be imposed @ 2% per month or a part there of, subject to a maximum of 10% of the total value of the order.
7.	The tender shall remain open for acceptance for a period of 90 days from the date of receipt.
8.	The decision of the Director, UGC-DAE CSR, Indore, shall be final in all the cases.
9.	Director, UGC-DAE CSR, Indore, shall not be liable for postal delays. The incomplete tenders or the tenders received after due date will not be considered.
10.	Quote your offer along with literatures/catalogues, if any.
11.	We are exempted from the custom duty. The custom duty exemption certificate is issued by Department of Scientific & Industrial Research (DSIR), Govt. of India, New Delhi. Customs duty exemption is in terms of Government Notifications No. 51/96-Customs dated 23.07.1996; No. 24/2007-Customs dated 01.03.2007; No. 43/2017-Customs dated 30.06.2017; No. 42/2022- Customs dated 13.07.2022; No. 07/2024- Customs dated 29.01.2024; No. 38/2024 – Customs dated 23.07.2024.
12.	GST must be quoted separately, if applicable.
13.	No claim for any tax or duty, not stipulated in the tender will be admitted at any stage.
14.	The tenderer should furnish the users list where similar equipment has been supplied recently.
15.	Special care should be taken to write the rates in figures as well as in words. No overwriting be done on the rates and units.
16.	Arbitration: “in connection with the present contract shall be finally settled under the Rules of conciliation and arbitration of the International Chamber of Commerce” should be replaced by “between both parties in connection with the CONTRACT which cannot be settled amicably shall be exclusively & finally settled by Arbitration under the rules of conciliation and arbitration of the “International Chamber of Commerce, Mumbai” by one or more Arbitrators appointed in accordance with the said Rules. Jurisdiction: Indore only.
17.	No deviation from the stipulated terms and conditions will be allowed. Tenders should be unconditional.
18.	The warranty of the equipment should be for 12 months from the date of commissioning / installation.
19.	It will be obligatory on the part of the tenderer to sign on your offer.
20.	Subject to Indore Jurisdiction.
21.	The bidder should fully comply with the OM no. F.No. 6/18/2019-PPD dated 23-07-2020 inserting rule 144 (xi) in GFR 2017 by the Ministry of Finance, Department of Expenditure, Public Procurement Division. (fill Annexure-I)
22.	No advance payment will be made.
23.	The Performance bank guarantee as per policy of the Government time to time, must be provided till the warranty period.

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24.	<i>The last date for submission of the tender documents is 30-10-2025 up to 14:00 hrs. Tender will be opened on 30-10-2025 at 16.30 hrs. Tenderer (s) / authorized representative(s) may attend on the opening of the tender bids.</i>
25.	<i>All the further corrigendum are display only on our website www.csr.res.in.</i>
*26.	<p>Benefits to MSME : As prescribed by MSME policy of the Government of India shall be provided to MSME vendors registered as manufacturer for the goods procured or for the service providers for services to this Department. The procuring Entity reserves its option to give price preference to Micro and small industries in comparison to the large-scale industries as per policies of the Government from time to time.</p>
27.	<p>Make in India : (fill Annexure-II)</p> <p>27.1 As defined under the Public Procurement (Preference to Make in India), order 2017, Revised order dated: 16/09/2020 or as being revised from time to time, in procurement of goods or services in respect of which the Nodal Ministry/Department has communicated, that there is sufficient local capacity and local competition, only "Class-I local supplier", as defined under the said order, shall be eligible to bid irrespective of purchase value.</p> <p>27.2 Only "Class-I local supplier" and "Class-II local supplier", as defined under the above said order, shall be eligible to bid in procurements under taken by this Directorate, except where the mode of procurement is by issue of Global Tender Enquiry. The bidding supplier shall indicate the percentage of local content for the item being offered in their bid.</p> <p>27.3. Where the procurement is by issue of Global Tender enquiry, Non local suppliers, shall also be eligible to bid along with "Class-I local suppliers and Class-II local suppliers". Suppliers/bidders offering imported products will fall under the category of Non-local suppliers.</p> <p>27.4. Subject to the provisions of the above said order, and to any specific instructions issued by the Nodal Ministry or in pursuance of the said order, purchase preference shall be given to "Class-I local Suppliers" in procurements under taken by this Directorate, in the manner specified there in the order.</p> <p>27.5. The bidders along with their bid/tender shall be required to provide a self-declaration certificate of the local content (where the procurement value is Rs.10 crore or less) for the item offered and their status as Class-I/Class-II/Non-Local supplier and their eligibility to participate in the tender as per Annexure-XI failing which bid will be rejected. In cases of procurement for a value in excess of Rs.10 crores, the "Class-I local supplier/Class-II local supplier" shall be required to provide a certificate from the statutory auditor or cost auditor of the company (in the case of companies) or from a practicing cost accountant or practicing chartered accountant (in respect of Contractors other than companies) giving the percentage of local content.</p> <p>27.6. Self-declaration certificate should quantify the percentage of local content of the offered product only. It should also indicate the location. However, claiming the services such as transportation, insurance, installation & commissioning, training and after sale service support like AMC/CMC etc., shall not be considered as local content as per OM N.P-45021/102/2019-BE-II-Part(1)(E-50310) dated:4/03/2021 issued by Ministry of Commerce and Industry, DPIIT.</p> <p>27.7. False declarations/violation of this order terms shall be deemed to be breach of code of integrity resulting in debarment of the firm for a period up to 2 years. Under such circumstances, the supplier shall not be considered for any preferences as proposed in the order.</p> <p>27.8. Wherever the bids are received without accompanying the above said requisite certificate such offers shall be treated as incomplete and not considered.</p> <p>27.9. Bidders/contractor are divided into three categories based on Local Content (The total value of the item procured (excluding net domestic indirect taxes) minus the value of imported content in the item (including all customs duties) as a proportion of the total value, in percent):</p> <p>27.10. Class-I local supplier is with local content equal to or more than as prescribed by the Nodal Ministry/ NIT, if prescribed, for the item being procured or 50% whichever is higher.</p> <p>27.11. Class-II Local supplier is with local content more than as prescribed by the Nodal Ministry/NIT, if prescribed, for the item being procured or 20% whichever is higher, but less than that applicable for class-I local supplier.</p> <p>27.12. Non-local supplier is with local content less than that applicable to class-II local supplier, as stated above.</p> <p><i>Note: Where the estimated value of the procurement is less than Rs.5 Lakhs (or as being amended by the competent authority from time to time) is exempted from the provisions of the above Make in India policy as stated therein the order.</i></p>