



**INTERNATIONAL ADVANCED RESEARCH CENTRE FOR
POWDER METALLURGY AND NEW MATERIALS (ARCI),**
Balapur P.O, R.R. District, Hyderabad – 500 005, Telangana, India
Tel: 040-244523326, Fax: 040-24442699
Web Site: www.arci.res.in, eMail: stores@arci.res.in

Tender No. SC20180011/PO

Date:21.01.2019

TENDER DOCUMENT
THERMAL COMPONENTS FOR CNT-MAT PRODUCTION UNIT

1.	EMD (Earnest Money Deposit/Bid Security)	Nil
2.	Tender document published date	21.01.2019
3.	Bid documents can be downloaded from	www.arci.res.in www.eprocure.gov.in
4.	Clarification start date and end date	22.01.2019 to 28.01.2019
5.	Bid submission start date and time	29.01.2019 at 09:00 AM
6.	Bid submission end date and time	19.02.2019 upto 03:30 PM
7.	Bids opening date and time (for Technical bids covers)	22.02.2019 at 02.30 PM



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Balapur P.O, R.R. District, Hyderabad – 500 005, Telangana, India

Tel: 040-24452326, Fax: 040-24442699

Web Site: www.arci.res.in eMail: stores@arci.res.in

Instructions to Bidder

Table of Contents

Sl. No.	Description	Page No.
1.	Notice inviting Tender	3
2.	Technical Bid -Terms and conditions	6
3.	Price Bid	10
4.	Price Schedule	13
5.	Vendor Declaration	14
6.	Scope of the Work (Technical specifications)	15
7.	Checklist	17



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TENDER NOTICE

International Advanced Research Centre for Powder Metallurgy and New Materials (ARCI) is an Autonomous Research and Development Centre of Department of Science and Technology (DST), Government of India with main campus at Hyderabad and with operations in Chennai and Gurugram.

ARCI would like to procure the following equipment. The Technical Specifications Schedule of Requirements and Allied Technical details are given in Part-1 of tender document.

Item: **THERMAL COMPONENTS FOR CNT-MAT PRODUCTION UNIT.**

Tender Enquiry No: (Case No.) **SC20180011/PO dated 21.01.2019**

- Last date and time of submission of Tender (Technical Bid and Price Bid): **19.02.2019** before 3:30 PM.
- **Estimated Value: 3,69,850.00**
- The item to be delivered and installed at:

**International Advanced Research Centre for Powder Metallurgy and New Materials,
Balapur Post, Hyderabad – 500 005, Telangana, India.**

- **Estimated Delivery period: 02 (two) months**

The tender document should consist of the following:

Two bid system should be followed for this tender. In this system the bidder must submit offer in two separate sealed envelopes i.e., one envelope for Technical Bid and other envelope for Commercial Bid. These envelopes should be securely sealed and stamped separately and clearly marked as “**Envelope No. 1- Technical Bid**” and “**Envelope No.2 – Commercial Bid**”. All the sealed envelopes should be placed in another larger envelope. The main envelope which will contain all the envelopes should be super-scribed with the tender enquiry no. **SC20180011/PO** dated **21.01.2019** due on **19.02.2019** with name of the equipment /item and is to be submitted to the address given below so as to reach **on or before 19.02.2019 by 03:30 PM.**

The Bidder should ensure that the Prices are mentioned only in the Financial Bid and nowhere in the Technical Bid.

Validity of Bid

Quotation should have minimum validity of **120 days** from the date of opening.

Address for submission of the Tender:

International Advanced Research Centre for Powder Metallurgy and New Materials, Balapur Post, Hyderabad – 500 005, Telangana, India.

Last date for submission: 19.02.2019 at 03:30 PM

Tender should be submitted before last date stated above. The bid can be submitted in person or through post/courier. ARCI will not be responsible for transit delay for tenders submitted by Post / Courier etc.

All the tenders, in which any of the prescribed conditions are not fulfilled or incomplete in any respect are liable to be rejected.

Clarification on bid

Bidders can seek clarification as per the schedule start and end date through email IDs given below:

For technical clarifications: **supriya.c@arci.res.in**

For commercial clarifications: **stores@arci.res.in**

Opening of the tender

The offer/bid will be opened by a committee duly constituted for this purpose. The bidder if interested may participate on the tender opening date and time. The bidder should produce authorization letter from their company to participate in the tender opening. Only one representative will be allowed to participate in the tender opening. The schedule of tender opening is:

Technical Bid opening date and Time: **22.02.2019 at 02.30 PM (Friday)**

PLACE: - **International Advanced Research Centre for Powder Metallurgy and New Materials, Balapur Post, Hyderabad – 500 005, Telangana, India.**

The bidders who are technically qualified will be called separately for opening of price bids.

Award of Contract

Contract will be awarded to successful bidder and a copy of the award of the contract will be uploaded in CPP portal after finalizing the tender.

Disqualification of the Tenders:

The tenders are liable for rejection in the following circumstances:

- If they are not in line with the terms and conditions of this tender notice
- Conditional quotations
- Incomplete tenders
- Tenders submitted through Fax or e-mail
- If two bid system is not followed.

Director, ARCI reserves the right to accept or reject any or all tenders either in part or in full or to split the order without assigning any reasons there for.

IMPORTANT NOTE: Amendment, Corrigendum if any to this tender document, WILL BE HOSTED ONLY IN ARCI WEBSITE and CPP Portal and no separate Press Notification will be issued. Bidders are advised to visit our website and CPP Portal regularly to know such details.

Director, ARCI, Hyderabad

PART-1

TECHNICAL BID (Terms and Conditions)

I. Vendor qualification criteria:

- A. Original Equipment Manufacturer (OEM) or authorized representatives of OEM only can quote for this tender. Vendor should submit authorization letter valid on tender date from OEM along with the quotation.
- B. The OEM should have proven expertise in manufacture and supply of the item.
- C. It is essential that the manufacturer shall provide the list of users of the equipment with contact particulars.
- D. OEM is required to submit a letter of commitment at the time of quote for supply of spares and also for efficient and prompt after sales service of the equipment for a minimum period of 3 years after the guarantee/warranty period under mutually agreed terms and conditions.
- E. Failure to meet any of the above vendor qualification criteria may lead to disqualification of tender at technical evaluation stage itself and vendor's quotation may not be considered for procurement.

II. Pre dispatch inspection

- A. The manufacturer/supplier of the unit shall demonstrate, if required, at their works during pre-dispatch inspection by ARCI personnel and shall satisfy all the technical specifications as described in the tender document.
- B. The manufacturer /supplier of the unit shall demonstrate the features as provided in **Annexure-I (Scope of supply work)**.
- C. All the utilities and manpower required for the demonstration shall be arranged by the supplier only

III. Acceptance criteria:

- A. The entire functionality of the equipment according to the specifications should be demonstrated at ARCI.
- B. The manufacturer/supplier of the unit shall demonstrate the features as specified in **Annexure I (Scope of work)**.
- C. Infrastructure required for the above demo will be arranged by ARCI.

IV. Other aspects:

1. PATENT RIGHTS:

The Supplier shall indemnify ARCI against all third-party claims of infringement of patent, trademark or industrial design rights, copy rights arising from use of the Goods or any part thereof in India.

2. Manuals, software and other drawings etc.:

The following documents (in English) shall be provided along with the Unit in both hardcopy and softcopy forms:

- A. Operation and maintenance manuals, troubleshooting procedures, calibration methods, wiring and other schematic diagrams, list of components, spares and accessories.
- B. If there are any bought-out systems and components, manuals should be provided in hardcopy and softcopy forms for the same.
- C. Safety and security instruction manual should be provided.

5. After-sales service:

The supplier shall guarantee efficient and prompt after-sales service including the supply of the spares for a minimum period of 3 years after the guarantee/warranty period under mutually agreed terms and conditions.

6. Bought-out items:

All bought-out sub-systems and components if any should be of reputed make conforming to international standards. Make and details of all bought-out sub-systems and components shall be specified.

7. General Quote:

The breakup for accessories or sub system(s) /attachments apart from the basic system, if any, should be quoted separately.

8. Export License:

The supplier should clearly indicate their ability/readiness to obtain the export license /clearance from the concerned authority for the supply of the unit as per the contract specifications to ARCI.

9. Technical compliance statement:

The vendor should provide item wise details against each and every specification, Deviations if any are to be highlighted.

10. Guarantee/warranty:

The Unit shall be under warranty **for a period of three years from the date of acceptance.** During the warranty period, all software and hardware updates shall be provided free of cost. Items, if any, excluded from the warranty shall be explicitly mentioned by the supplier.

The Unit shall be guaranteed for satisfactory performance for 3 years from the date of installation, commissioning and acceptance at ARCI. The manufacturer shall replace premature failure of parts during the guarantee period at their cost and risk.

11. Delivery/ time schedule:

The offer shall be accompanied by a detailed delivery time schedule showing the individual time schedule required for delivery.

12. Packing:

The Supplier shall provide such packing of the Goods as is required to prevent their damage or deterioration during transit to their final destination. The packing shall be sufficient to withstand, without limitation, rough handling during transit and exposure to extreme temperatures, salt and precipitation during transit and open storage. Packing case size and weights shall take into consideration, where appropriate, the remoteness of the Goods' final destination and the absence of heavy handling facilities at all points in transit. In order to maintain safety of the equipment, we prefer to have wooden crating with adequate cushion inside for transportation of any goods. The material has to be dispatched with International standard packing to withstand rigors, and to avoid any transit damages.

13. Packing Instructions:

Each package will be marked on three sides with proper paint/indelible ink, the following:

- i. Purchaser Name & Address
- ii. Item Nomenclature
- iii. Order/Contract No.
- iv. Country of Origin of Goods
- v. Packing list reference number

14. Insurance:

The Goods supplied under the Contract shall be fully insured in Indian Rupees against loss or damage incidental to manufacture or acquisition, transportation, storage and delivery.

For delivery of goods at the purchaser's premises, the insurance shall be obtained by the Supplier in an amount equal to 110% of the value of the goods from "Warehouse to warehouse" (final destinations) on "All Risks" basis including War Risks and Strikes. The insurance shall be valid for a period of not less than 3 months after dispatch **or upto installation and commissioning of stores whichever is later.** However, in case of orders placed on FOB/FCA basis, the purchaser shall arrange insurance.

15. General instructions:

- A. The Technical Bid must be submitted in an organized and structured manner. No brochures/leaflets etc. should be submitted in loose form. Please indicate page nos. on your quotation. **The price should not be mentioned anywhere in this document.**
- B. Tenders, which are submitted without following the Two-Bid Offer System, are liable to be rejected.
- C. The technical offer should be complete to indicate that all products and services asked for are quoted. Each page of the bid and cutting/corrections shall be duly signed and

- stamped by the bidder. Unsigned Tenders are liable to be rejected. Failure to comply with this requirement may result in the bid being rejected.
- D. The purpose of certain specific conditions is to get or procure best product/service etc. for ARCI. The opinion of Technical Committee shall be the guiding factor for technical short listing.
 - E. Vendor should provide list of deliverables / bill of materials and services.

PART- 2

PRICE BID

I. Terms and Conditions:

- a) Envelope 2 should contain price schedule (as per the table) complete in all respects with proper seal and signature of authorized person.
- b) Tender with any condition, including conditional rebate, are liable to be rejected.
- c) Cost of all the items should be mentioned clearly and individually in the Commercial Offer (Part- II) only.
- d) AMC scope with associated costs including number of visits has to be quoted separately.
- e) The Bidders are requested to quote for **research institutional prices** for Machine/ Equipment and, since ARCI is eligible for the same. The quoting party should ensure that the quoted prices are the minimum and that have not quoted the same item on lesser rates than those being offered to ARCI to any other customer.
- f) Printed conditions of the vendor submitted with the tender will not be binding on ARCI.
- g) The commercial bids of only the technically qualified bidders shall be considered for further processing.
- h) The price quoted shall be considered firm and no price escalation will be permitted during the currency of contract. The quotation should be in standard currency on Ex works/FOB/FOR basis. Freight, insurance, Agency commission (if any) and commissioning charges, if not included, may be quoted separately in Commercial Bid.
- i) Commercial Bid (prices quoted) should not be enclosed in the technical bid envelope. If the price quote is submitted with technical bid the tender are liable to be rejected.
- j) The Director ARCI reserves the right to accept the offer in full or in parts or reject summarily or partly thereof.

II. Payment terms:

1. For import:

OPTION A

An irrevocable Letter of Credit [L/C] for 100% of the order value will be established by the purchaser in favour of the supplier, through purchaser's bank in India once the following condition is met:

Receipt of order acknowledgement and acceptance of the order.

THE ACTUAL PAYMENT TO SUPPLIER WILL HOWEVER BE RELEASED UPON SHIPMENT OF THE MATERIALS AND NEGOTIATION OF THE FOLLOWING SHIPMENT DOCUMENTS THROUGH LETTER OF CREDIT

A) Signed Commercial Invoice - Original + 5 Copies

B) Airway Bill/Bill of lading - Original + 5 Copies.

C) Packing List -Original + 5 Copies

D) Certificate of conformity from the supplier that stores/equipment has been tested by the supplier and the same meet the technical specification - Original + 3 Copies.

E) Supplier's Certificate to the effect that the contents in each package are not less than those entered in the Invoice and the Packing List - Original + 3 Copies.

OPTION B

100% payment will be released after receipt of materials and inspection through Wire Transfer.

2. Domestic purchase:

Payment Terms

Subject to deduction of taxes at source, if any,

100% of the goods cost + 100% taxes will be paid after receipt of the goods at our site subject to inspection & acceptance of the goods/works/commissioning by ARCI authorities.

III. Final Acceptance Certificate (FAC):

On installation, the working of the equipment should be demonstrated so as to comply with all the technical specifications. In this connection, it is to be noted that the installation report is not to be treated as the Final acceptance certificate (FAC)

The FAC will be issued by the PURCHASER only on demonstration of the technical specifications. The warranty shall commence only from the date of the issuance of the FAC. The FAC shall be issued by the PURCHASER at a date not later than 30 (thirty) days from the date of installation provided the equipment functions as per the specifications.

IV. Liquidated Damages (LD):

As time is the essence of the contract, delivery period mentioned in the Purchase Order should be strictly adhered to. Otherwise, LD clause will be applicable /enforced. If the supplier fails to Supply, Install and Commission the equipment as per specifications mentioned in the order within the due date, ARCI may levy a penalty for such delay by way of liquidated damages, at 0.5% per week of delay or part thereof, and in aggregate not exceeding 10% of the order value. Such LD will be deducted from any amount due or which may become due to the supplier.

V. Order acceptance:

The successful bidder, on award of contract / order, must send the contract / order acceptance in writing, within 15 days of award of contract / order.

VI. Award of contract:

ARCI reserves the right at the time of award of Contract to increase or decrease the quantity of items specified in the Schedule of Requirements without any change in price or other terms and conditions.

VII. Corrupt or Fraudulent Practices:

ARCI requires that the bidders who wish to bid for this project have highest standards of ethics. ARCI will reject a bid if it determines that the Bidder recommended for award has engaged in

corrupt or fraudulent practices while competing for this contract. ARCI may declare a vendor ineligible, either indefinitely or for a stated duration, to be awarded a contract if it at any time determines that the vendor has engaged in corrupt and fraudulent practices during the execution of contract.

VIII. Interpretation of the clauses in the Tender Document / Contract Document:

In case of any ambiguity / dispute in the interpretation of any of the clauses in this Tender Document, Director, ARCI's interpretation of the clauses shall be final and binding on all parties.

IX. Indemnity:

The vendor shall indemnify, protect and save ARCI against all claims, losses, costs, damages, expenses, action suits and other proceeding, resulting from infringement of any law pertaining to patent, trademarks, copyrights etc. or such other statutory infringements in respect of all the equipment's supplied by him.

X. Arbitration

For Domestic Supplier

In case of Dispute or difference arising between the Purchaser and a domestic supplier relating to any matter arising out of or connected with this agreement, such disputes or difference shall be settled in accordance with the Indian Arbitration & Conciliation Act, 1996, the rules there under and any statutory modifications or re-enactments thereof shall apply to the arbitration proceedings. The dispute shall be referred to arbitrator appointed by Director ARCI. The award of the arbitrator so appointed shall be final, conclusive and binding on all parties to this order.

The venue of the arbitration shall be the place from where the purchase order/contract is issued.

Notwithstanding any reference to arbitration herein, the parties shall continue to perform their respective obligations under the Contract unless they otherwise agree.

For Imports

In the case of a dispute between the purchaser and a Foreign Supplier, the dispute shall be settled by arbitration in accordance with provision of sub-clause (a) above. But if this is not acceptable to the supplier then the dispute shall be settled in accordance with provisions of UNCITRAL (United Nations Commission on International Trade Law) Arbitration Rules.

PRICE SCHEDULE FOR FOREIGN SUPPLIERS

Currency_____:

Country of origin_____

Sl. No.	ARCI item code	Name of the Goods	Unit of measurement	Quantity	Price	Discount	Taxes if any	Price in currency
			Total in foreign Currency					
	Packing and forwarding Charges							
Ex work prices								
AMOUNT IN WORD								

Note: The Bidder may please fill in this form or the same may be typewritten on the Letter Head of the Bidder exactly as per the above format and submit the same as per the instructions given in the tender document.

NOTE: For imports, ARCI is entitled for concessional Customs duty as per Notification No.51/96-Custom (as notified by GST council). Hence rates to be quoted accordingly.

PRICE SCHEDULE FOR DOMESTIC SUPPLIERS

Sl No.	ARCI item code	Name of the Goods / Services / Works	HSN / SAC codes	UOM	Quantity	Unit Price	Discount	C G S T	SGS T	IGS T	Total Tax amount	Total amount (including tax)
1												
Total price (FOR ARCI, Hyderabad)												
AMOUNT IN WORDS:												

Note: The Bidder may please fill in this form or the same may be typewritten on the Letter Head of the Bidder exactly as per the above format and submit the same as per the instructions given in the tender document.

NOTE:

- I. ARCI is a public funded research institution, concessional GST rate @ 5% may please be quoted for the supply of goods with reference to GST Notification no. 45/2017 dated 14.11.2017. ARCI will provide certificate for the same.**
- II. For imports, ARCI is entitled for concessional Customs duty as per Notification No.51/96-Custom (as notified by GST council). Hence rates to be quoted accordingly.**

Other information:

- a) Installation and commission charges, if any to be added as a line item in the format given above.
- b) Prices of accessories, spares and consumables must be added as a line item as per the format given above
- c) Optional items, if any, and their prices should be mentioned separately

[SIGNATURE OF BIDDER]
NAME AND ADDRESS OF BIDDER

Declaration by the Vendor

It is hereby declared that I/We the undersigned, have read and examined all the terms and conditions etc. of the tender document for which I/We have signed and submitted the tender under proper authorization. It is also certified that all the terms and conditions of the tender document are fully acceptable to me/us and I/We will abide by the conditions of the tender. We have not given any printed conditions beyond the scope of this tender. This is also certified that I/We/our principal manufacturing firm has no objection in signing the purchase contract if the opportunity for the supply of the items against this tender is given to me/us.

Date:

Signature:

Name:

Address:

Designation:

On behalf of:

SCOPE OF WORK

Scope of the Supply: Thermal components for CNT-MAT production unit.

1. Self-Adhesive Thermocouples
Self-Adhesive Thermocouples, Type K, Polyimide Carrier
2. Solid State Relays
Current Ratings to 100 Amps, Multi-Million Cycle Life
Compatible with Temperature Controllers
3. Thermocouple Connector-Male Type
4. Heating Tapes
High Temperature, Dual-Element Heating Tapes 13 mm x 3.05 m (0.5" x 10')
5. Thermocouple Connector-Female Type
6. Type J Thermocouple 1/4" Dia
7. Type J Thermocouple 1/8" Dia
8. Quick Disconnect Thermocouples
Quick Disconnect Thermocouples
Mating Connector with Cable Clamp Included Standard with 304 SS or Inconel Sheath
18" Lengths
Diameters from 1/4" Connector Body Rated to 180°C
9. Thermocouple Data Acquisition Mod
8-Channel USB Thermocouple Data Acquisition Module
Measures from -270 to 1820°C
Accepts Thermocouple Types J, K, T, E, R, S, B and N
10. Temperature Controllers
1/16 DIN Temperature Controllers
Dual Display, Autotune, RS-485 Communications, Free Software
Alarm Functions, Thermocouple/ RTD Inputs, Output Status Display
11. Purge Rotameters
Purge Rotameters
Available for Use with Both Water and Air
Precision Adjusting Valve Optional for Flow Control
Flow Ranges: Air 0.05 to 10 LPM, Easy-to-Read 10:1 Direct Reading Scales

12. Infrared Thermometer

Professional Infrared Thermometer Measurement Range: -60 to 1000°C
30:1 Field of View, Type K Thermocouple Input, Backlit Display with Switch
Laser Circle Sighting

13. Handheld Thermometers

0.1% Accuracy Handheld Thermometers
Single and Dual Channel Models, Measurement Rate: 2.5 times/second
Temperature Range: (-200 to 1372°C),
Autorange: 0.1°C, Accuracy: $\pm 0.1\%$ Type K (Chromic-Alum)

Supply of the materials, demonstration, installation and services must be done at:

**International Advanced Research Centre for Powder Metallurgy and New Materials,
Balapur Post, Hyderabad – 500 005, Telangana, India**

CHECK LIST

BIDDER HAS TO FILL IN THE CHECK LIST GIVEN BELOW

(State YES/NO for each item)

1	If bidder is not an original equipment manufacturer, authorization letter attached.	
2.	Whether Technical Bid (envelope I) Submitted	
3.	Whether Commercial Bid (envelope II) Submitted	
4.	Whether the Technical Bid (envelope I) and Price Bid (envelope II) are submitted in separate covers and all the covers enclosed in a common envelope.	
5.	Whether copies of GST Registration certificate and PAN Card enclosed	
6.	Whether declaration form signed and submitted	
7.	Validity of 120 days from the date of opening	
8.	Whether warranty clause mentioned	
9.	Does the instrument comply with all the specifications mentioned	
10.	Whether all pages of tender document signed and submitted	

NOTE: Please ensure all the relevant boxes are marked YES/NO against each column.

IMPORTANT NOTE: Tenderers must ensure that all the required documents indicated in the Tender documents are submitted without fail. Tenders received without supporting documents for the various requirements mentioned in the tender document are liable to be rejected at the initial stage itself.