



No. 337/MLP-110/MDA/10-Pur/2017/T-58

Date: 24.1.2018

NOTICE INVITING TENDER

Director, CSIR-Central Electronics Engineering Research Institute, Pilani – 333 031 (Rajasthan) invites e-tenders from Indian / Foreign Original Manufacturers or their Authorized distributors, dealers, system integrators under Two Bid System.

Sl. No.	Tender Reference	Description of Goods	Quantity	Single/ Double Bid	Bid Security/ EMD
1.	337/MLP-110/MDA/10-Pur/2017/T-58	Attenuator Coating System	1 No.	Two Bid	Rs. 1.00 Lakh

E-Bids are invited through the electronic tendering process and Tender Document can be purchased and downloaded from the e-Tender portal of Government of India, <https://etenders.gov.in>. A copy of the Tender Document is also available on CSIR-CEERI website: www.ceeri.res.in. Please note that the submission of e-Bids will be only through the e-Tender portal <https://etenders.gov.in>. Bids will not be accepted in any other form. Further it may be noted that Bids which are duly submitted on –Tender portal shall only be considered and Bids just saved without submission will not be available to the Evaluation Committee of CSIR-CEERI.

Any Bidder willing to take part in the process of e-tendering will have to get registered in the Central Public Procurement (CPP) portal, NIC, Government of India, by logging on to the portal <https://etenders.gov.in>. Bidders are requested to go through “Bidder Manual Kit”, “System settings” and “FAQ” links available on the login page of the e-Tender portal for guidelines, procedures and system requirements. In case of any technical difficulty, bidders may contact the help desk numbers and email ids mentioned at the e-tender portal. Every Bidder will be required to obtain a Class-III Digital Signature (DSC) for submission of Bids.

Tender fee and EMD (if applicable) will be required to be paid offline by Demand Draft drawn in favour of Director, CSIR-CEERI payable at Pilani. Alternatively, EMD can also be furnished in the shape of a Bank Guarantee issued by any Nationalized/ Scheduled Bank of India. Original Tender Fee and EMD to be sent to Director (Attn: Stores & Purchase Officer), CSIR-Central Electronics Engineering Research Institute, Pilani – 333031 (Rajasthan), before the date and time mentioned in CRITICAL DATE SHEET. Bids of those tenderers will be summarily rejected, if the EMD and Tender Fee are not received within the deadline. Any postal delay in this respect will not be entertained.

Clarifications, if required may be sent through e-tendering portal only

Stores & Purchase Officer

Terms and Conditions

In these Terms and Conditions, the following words and expressions shall have the meaning as have been respectively assigned to them:

Bidder shall mean the entity submitting an e-Bid in response to this Tender Document.

CSIR-CEERI/ Purchaser/ Institute shall mean CSIR-Central Electronics Engineering Research Institute, (a constituent unit of the Council of Scientific & Industrial Research) having its office at Pilani – 333031 (Rajasthan), India.

Vendor/ Supplier shall mean the entity whose bid has been accepted by the Purchaser and a formal Purchase Order has been placed on them.

1. **SUBMISSION OF BIDS:** The bid shall be submitted in two covers namely (i) Technical Bid; and (ii) Financial Bid.

Technical Bid: The bidder must ensure that the following parameters should be met while submitting the Technical Bid:

- 1.1 The e-Bid shall be digitally signed by the Bidder at the e-tendering portal by person / persons duly authorized to bind the Bidder to the contract. Written Power –of – attorney (If required under the Bidding Process) should accompany the Bid. The person or persons signing the e-bid shall also physically sign each document of the Bid, except for printed literature. The e-Bid submitted shall be in readable form and encrypted as per e-tendering portal requirements. Standard Printed terms and conditions of the Bidder other than the NIT conditions shall not be considered.
- 1.2 The e-Bid shall be submitted in Two covers and shall consist of the following documents:

Sl. No.	Document Required	Document type
1.	Scanned Technical Bid duly filled-in and signed by Bidder along with relevant documents.	.pdf
2.	Scanned copy of any other document which the Bidder desires to submit.	.pdf
3.	Price Bid	.xls
All the above scanned documents must be e-signed prior to being uploaded and saved in the system.		

- 1.3 The bidders shall digitally sign and encrypt their bid and upload the bid on –line at the e-Tendering portal.
- 1.4 If the envelope is not digitally signed & encrypted the Purchaser shall not accept such open Bids for evaluation purpose and shall be treated as non responsive and rejected.

- 1.5 Purchaser shall receive the bids online through CPP e-portal only. The e-Tender portal shall automatically stop accepting bids at the scheduled date and time specified in the Tender Document. Partially submitted bids shall be treated as invalid and shall not be processed. Bidders are advised to upload and submit their bids timely in view of the electronic process so as to avoid last minute issues.
- 1.6 Purchaser may, at its discretion extend the deadline for submission of the e-Bids by amending the Tender Documents in which case all rights and obligations of the Purchaser and Bidders previously subject to the deadline will thereafter be subject to the deadline as extended.
- 1.7 Quotation should be submitted directly by the manufacturer/supplier. In case any sole authorized distributor, dealer or authorized Indian Agent should submit the quotation on behalf of their principal, sole authorized distributor, dealer or authorized Indian Agent must enclose a certified copy of the agency agreement between principal and their Indian Agent, in reference to CSIR letter No. 13-4(04)/15-16/S&P/Policy/Cir dated 13.9.2017, failing which their quotation will be summarily rejected.
- 1.8 In reference to **CSIR letter No. 13-4(04)/15-16/S&P/Policy/Cir dated 13.9.2017**, it is a compulsion for the foreign bidder to disclose the name and address of their Indian Agent and representative in India and the same goes for an Indian bidder to disclose their foreign principal or associates, failing which their quotation will be summarily rejected.
- 1.9 In case a bidder is not doing business within India, it shall furnish the certificate to the effect that the bidder is or will be represented by an agent in India equipped and able to carry out the supply, maintenance, repair obligations etc. during the warranty and post-warranty and post-warranty period.
- 1.10 The bidder shall bear all costs associated with preparation and submission of its bid irrespective of the conduct or outcome of the bidding process.
- 1.11 The bidder should not indulge in any corrupt, fraudulent, collusive, coercive practices during the entire process of procurement and execution of contract/order.
- 1.12 Conditional tender will be summarily rejected.
- 1.13 The Bid shall be prepared by the bidder, as well as all correspondence and documents relating to the bid exchanged by the bidder and CSIR-CEERI shall be written in English language only.
- 1.14 The vendor must quote on FOB/FCA value up-to shipping Airport of the exporting country showing Ex-works prices, packing, forwarding and inland handling etc.
- 1.15 The price quoted by the bidder shall remain un-changed during the contract period and shall not vary on any account.

- 1.16 The vendor must quote all lots and items listed and priced separately in the Price Schedules. If a Price Schedule shows items listed but not priced, their prices shall be assumed to be included in the prices of other items. Lots or items not listed in the Price Schedule shall be assumed to be not included in the bid.
- 1.17 Custom Duty – Purchaser is registered with Department of Scientific and Industrial Research (DSIR) vide UT/VIRG-CDE(39)/2001 dated September 25, 2001 for availing custom duty exemptions under Government Notification No. 51/96 Custom dated 23rd July, 1996. We shall pay concessional custom duty.
- 1.18 GST – Purchaser is registered with Government of India and Government of Rajasthan, vide GST registration No. 08AAATC2716R1ZF. The percentage of GST as applicable should also be specified clearly in the quotation.
- 1.19 Indigenous Supplies – For Indigenous supplies, the prices should be FOR CSIR-CEERI inclusive of packing, forwarding, installation and commissioning, freight and insurance charges. In case of Ex-Works Prices, The Packing, Forwarding, Freight, Insurance, Installation/ Commissioning charges must be clearly quoted in your quotation. No other charges than those mentioned in the quotation will be paid.
- 1.20 The technical details and specifications of the items must be indicated clearly point by point conforming to the description of the items/specifications as per tender specifications along with Commercial terms and conditions such as payment terms, delivery date, packing, forwarding, freight, taxes and duties, installation and commissioning etc. WHERE THERE IS NO MENTION OF THE ABOVE TERMS AND CONDITIONS SUCH QUOTATIONS SHALL BE REJECTED AS INCOMPLETE.
- 1.21 Bidders must note that the e-tender portal shall not permit uploading of bids after the scheduled time of submission.
- 1.22 The bidder may correct or modify his digitally signed bid after submission prior to the deadline for submission of bids, through provisions of e-tendering portal.
- 1.23 Comparative statement of technical offers should be provided, drawing a comparison between Bidder's offered specifications and Purchaser's tender specifications, bringing out clearly the deviations, if any.
- 1.24 The Bidder must offer the validity of the quotation as mentioned in the tender document. If the Bid validity is shorter than the required validity period, as per the tender document, such quotations shall be rejected as incomplete.

2. PRICES

- 2.1 Bidders are requested to note that they should necessarily submit their financial bids in the MS-EXCEL format provided and no other format is acceptable. Bidders are requested to download the BOQ file, available on the e-tendering portal, open it and complete the unprotected cells with their respective financial quotes and other details (such as name of the bidder). No other cells should be changed. Once the details have been completed, the bidder should save it and submit it online, without changing the filename. If the BOQ file is found to be modified by the bidder, the bid will be rejected. It may be noted that only duly submitted bids shall be evaluated and bids just saved but not submitted shall not be part of the evaluation process.

- (i) **In case of Import of goods:** The price must be quoted on FOB/FCA value up-to international shipping Airport of the exporting country showing Ex-Works prices, packing, inland handling, forwarding and documentation charges separately. The Vague terms mentioned in the quotation like “packing forwarding charges etc extra” without mentioning the amounts of these charges will not be acceptable. The airfreight and insurance shall be arranged and paid directly by Purchaser in Indian Rupee at their end.
 - (ii) **In case of Indigenous Supplies:** For indigenous supplies, the prices should be FOR CSIR-CEERI inclusive of packing, Forwarding, installation and commissioning, freight and insurance charges. In case of Ex-works Prices, The Packing, Forwarding, Freight, Insurance, Installation/Commissioning charges must be clearly quoted in your quotation. No other charges than those mentioned in the quotation will be paid.
- 2.2 In the event of any errors or ambiguity in Unit Rates itself, the Price Bids of the Vendor shall be rejected.
- 2.3 CSIR-CEERI shall not consider any changes on any account after the submission of Bid and hence the prices offered shall remain firm during the validity of the Bid and shall not subject to variations on any account.
- 2.4 The bidder shall quote prices only in the BOQ file, after downloading it from the e-tendering portal.
- 2.5 Prices of additional / optional items not appearing in the BOQ, if any, shall be quoted in a separate PDF file, duly signed by Bidder’s authorized person/persons.**
3. **PACKING:** The goods must be packed by standard packing material and standard export / import packing material in case of import failing which supplier will only be responsible for any damages / discrepancies to the consignment due to poor packing of goods.
4. **PERIOD OF DELIVERY:** The goods must be delivered within 6 months from the date of Purchaser order positively at CSIR-CEERI, Pilani. However if this delivery period is not acceptable to Bidder, please quote your fixed date of delivery.
5. **VALIDITY OF OFFER:** The prices must be valid for a period of Six Months from the date of opening of the quotation. No upward changes in prices will be acceptable in any condition after opening of tender.
6. **PRE INSTALLATION REQUIREMENTS** – Pre installation requirements like Space, Power Supply, Water Line or any other essential requirements which are to be kept ready / completed by CSIR-CEERI before supply of equipment, must be quoted by the bidder clearly in their quotation to avoid the delay in Installation and Commissioning of the equipment.

7. **INSTALLATION/COMMISSIONING:** The equipment must be installed / commissioned and demonstrated by the supplier at CSIR-CEERI, Pilani within 30 days after call letter of Purchaser for installation / commissioning and the same will be put under operation as per the contract specification. Purchaser's , technical expert/ Scientist will test the performance of the equipment. No separate charges for installation / commissioning and demonstration etc. will be paid to the party beyond the quoted prices.
8. **GUARANTEE:** The equipment must be guaranteed / warranted for a period of Three Years (Un-conditional warranty) from the date of its satisfactory installation/ commissioning against all manufacturing defects. If the equipment is found defective during this period the whole equipment or part thereof will have to be repaired/ replaced by the supplier free of cost at CSIR-CEERI, Pilani. However, if the items are guaranteed/ warranted for a period of more than Three Years, it may be specifically mentioned in the quotation. In case the Bidder fails to rectify the defects and equipment is not put to proper function as per contract specifications, the whole equipment will be returned to the Bidder at their cost. Either the Bidder will replace the whole equipment as per contract specifications or whole money paid FOR CSIR-CEERI, Pilani on the account of purchase of the equipment will be refunded by Bidder to Purchaser.
9. **SPARE PARTS:** The availability of spare parts must be guaranteed for a period of Six years. In case of discontinuation of the equipment, Bidder have to intimate to Purchaser in advance.
10. **AFTER SALES SERVICE:** It must be clearly indicated in the quotation whether the after sales service would be provided by the Bidder himself or by their authorized agent after satisfactory installation/ commissioning of the equipment during the warranty period.
11. **INDIAN AGENTS:**
 - (a) As per CSIR letter No. 13-4(04)/15-16/S&P/Policy/Cir dated 13.9.2017, Indian Agent must enclose a certified copy of the agency agreement between their principal and them. As well as it is a compulsion for the foreign bidders to disclose the name and address of their Indian Agent and representative in India and the same goes for an Indian bidder to disclose their foreign principal or associates, failing which their quotation will be summarily rejected.
 - (b) The Indian Agents Commission must be declared by the foreign Supplier/ Indian Agent in the quotation which will be paid in Indian Currency after satisfactory installation & commissioning / functioning of the equipment.
12. **FOREIGN SUPPLIER:** Foreign supplier / manufacturer is required to submit their quotation directly to CSIR-CEERI with in due date and time. In case foreign supplier / manufacturer is willing to submit their quotation through his authorized agent in India, The Indian Agent must enclose a certified copy of the agency agreement between its principal and him, failing which the quotation shall not be considered.

13. **PAYMENTS FOR IMPORTS:** Through Letter of Credit – L/C will be opened for 100% order value after receipt of acceptance of order from the successful tenderer along with performance bank guarantee for 10% amount of order value valid up to expiry of warranty period plus 2 months. The 90% amount of LC shall be released on presentation of complete shipping documents. Balance 10% of equipment cost and other charges shall be released after satisfactory installation and commissioning of the equipment at CSIR-CEERI, Pilani.
14. **BANK CHARGES:** The bank charges outside India will be to the account of Bidder.
15. **FOR INDIGENEOUS:** The payment will be made against bill only after supply of goods in good working conditions and satisfactory installation/ commissioning and performance of the equipment at CSIR-CEERI, Pilani and after acceptance certification by Purchaser technical expert/ Scientist, through RTGS. However, Bidder will be required to submit performance bank guarantee for 10% amount of the total value of order along with acceptance of Purchaser order valid up to expiry of warranty period plus Two months. In case of non-fulfilling the commitments the Bank Guarantee will be forfeited.
16. No advance payment will be made to any Bidder.
17. **INSPECTION:** The consignment shall be opened in the presence of bidder's representative and inspection of the system will be done by Purchaser's technical expert / Scientist in the presence of Bidders representative at CSIR-CEERI, Pilani. In case bidder's representative is not available, the inspection will be done by technical expert. Scientist at CSIR-CEERI, Pilani. The discrepancies will be intimated to supplier accordingly. All short supplies will be arranged by supplier on FOR CSIR-CEERI, Pilani basis. In case of receipt of the material in damaged or defective condition the supplier will have to arrange the replacement of goods free of cost pending the settlement of the insurance case wherever applicable, as the insurance is to be arranged by Purchaser from Bidder's warehouse to Purchaser's warehouse.
18. **EMD:** EMD of Rs. 1,00,000/- OR equivalent in respective Foreign Currency TOWARDS EARNEST MONEY IN THE FORM OF BANK GUARANTEE/ Demand Draft in original, valid for Six months plus 45 days from the date of opening of the tender must be submitted to Purchaser before submitting the Technical Bid and a scanned copy of the same must be enclosed with Technical Bid, in case of Two bid system, otherwise quotation will not be considered. The Bidders, if registered with NSIC, Govt. Public Undertakings, Central Autonomous Bodies and with CSIR Labs./ Institutes as manufacturer for supply of the same item for which the Bidder is submitting the quotation, will be exempted from submission of EMD. These parties will have to submit registration certificate to Purchaser before submitting the Technical Bid and also a scanned copy of the same must be enclosed with Technical Bid. EMD of the un-successful bidders shall be refunded at the earliest after finalizing the purchase of the concerned item. The parties must, therefore, submit a pre-receipted Receipt along with quotation to enable Purchaser to refund their EMD. In case the bidder is failed to accept Purchaser order or failed to execute Purchaser order the EMD will be forfeited. (BID(s) NOT ACCOMPANIED WITH AN EMD IS / ARE LIABLE TO BE REJECTED.

19. **PENALTY:** In case the delivery of goods is not made on or before the prescribed date of delivery or the installation and commissioning is not completed within stipulated period by the supplier a penalty @ 0.5% per week of order value will be charged to a maximum of 5% from the successful bidder.
20. **PERFORMANCE SECURITY:** An unconditional performance bank guarantee from scheduled bank for 10% amount of order value has to be furnished by successful bidder along with acceptance of Purchaser order towards the performance security within 21 days of the placement of Purchase Order failing which the order shall be deemed as terminated. The bank guarantee must be valid up to delivery period and installation & commissioning period warranty period plus 2 months. In case of any breach of contract the bank guarantee will be forfeited.
21. **DELETION OF NAMES OF DEFAULTING PARTIES:** Names of parties backing out/ defaulting after opening of tenders will be recommended for deletion from the list of suppliers in addition to forfeiture of EMD submitted by the party. Those firms have already been Black listed by CSIR / Govt. of India, need not apply / quote.
22. **UNSOLICITED QUOTATION/ LATE QUOTATION:** Unsolicited quotation/incomplete quotations / late or delayed tenders shall not be considered at all. Post tender revision/corrections shall also render their tender liable for rejection. It is the responsibility of the bidder to ensure that the bid complete in all respect is received in CSIR-CEERI before the last date of receipt of tender. CSIR-CEERI will not be responsible for delay in transit of any bid.
23. **COMPLIANCE STATEMENT:** Tenders are required to furnish a compliance statement of each and every specification of Purchaser tender supported by the technical literature/ leaflet in the following format, preferably giving the price of each of the specification or part/ accessories of the equipment required to be quoted. The deviations, if any from the tendered specifications should be clearly brought out in the statement. Similarly, the compliance of each of the required terms and conditions of the tender may also be stated in the form of a separate compliance statement along with quotation (with Technical Bid in case of two bid system). Deviations may be given in separate column.

The bidders are advised to submit both the compliance statements essentially along with their quotation failing which their offer will be treated incomplete and can be ignored. It must be certified that the quoted equipment is of latest technology.

FORMAT OF COMPLIANCE STATEMENT OF SPECIFICATIONS

Sl. No.	Name of Specifications/ part/ Accessories of tender enquiry	Specifications of quoted Model/ Item	Compliance Whether “YES” or “NOT”	Deviation, if any to be indicated in un-ambiguous terms
1	2	3	4	5

FORMAT OF COMPLIANCE STATEMENT OF TERMS & CONDITIONS

Tender Terms and Conditions	Whether acceptable or not	Deviation from Tender Terms, if any
1	2	3

24. **FORCE MAJEURE:** Neither of the Parties hereto shall be liable for damage or have the right cancel for any delay or default in performing it's control including but not limited to Fire, Storm, Floods, Earthquakes, acts of God, Government restriction, continuing domestic or international problems (such as wars, rebellion, insurrections, strikes, riots, work stoppages, labour dispute) or delay as to ancillary materials, which affect the dates of fulfillment of any obligations as per the Purchase Order. Such dates will be respectively postponed for the period of continuance of such force majeure circumstances and the other party can suspend the performance of it's obligations correlated to the postponed obligation of the effected party. The obligation thus postponed shall be resumed after the force majeure circumstances have ceased. At the beginning, during and at the pre-visible end of the force majeure circumstances the parties shall promptly consult with each other about appropriate counter measures to be taken. If the performance of obligations of any party should be delayed more than six (06) months by reasons of force majeure circumstances mentioned above, the parties shall mutually consult about subsequent performance of obligations.
25. **CANCELLATION OF ORDER:** In the event of vendor's failure to execute the order as per terms and conditions mentioned therein. CSIR-CEERI reserves the right to cancel the Purchase Order without any obligation. The Bidder may also specify obligations if CSIR-CEERI decides to cancel the Purchase Order for reasons attributable to CSIR-CEERI.
26. **EVALUATION OF TENDER:** Before submission of bid, the bidder is expected to examine all the instructions, forms, terms and specifications in the bidding document and should ensure that following conditions are fulfilled:
- (a) The price schedule should be prepared in .xis and enclosed duly signed.
 - (b) The bid validity should not be shorter than required.
 - (c) The manufacturer's authorization and certified copy of the agreement between principal and Indian Agent should be enclosed in case the bidder is authorized to Indian Agent / dealer / distributor.
 - (d) The bidder should agree to provide the Performance Security.
 - (e) The quoted goods should be as per required specifications.
 - (f) In case the bid is substantially responsive, the purchase may request that bidder may submit the necessary information, documentations, within a reasonable period of time, to rectify non-material, non-conformities or omission in the bid related to documentation requirements. Failure of the bidders to comply with request may result in the rejection of its bids. But in case of the material deviation/ reservation or omission which limits or is inconsistent with the bidding documents and the purchaser's rights or bidders obligations under the contract or which is certified, would unfairly affect the other bidders, the bid will be rejected.
 - (g) The bidder should fill-up the prices carefully in arithmetical and words.

- (h) Sealing exchange rate / equivalent to Indian currency will be as on the date of bid opening in the case of single bidding and the rate on the date of opening on the priced bid in the case of two parts bidding.
- (i) The comparisons between the indigenous and the foreign offers shall be made on FOR destination basis and CIF/CIP basis respectively. However the CIF/CIP prices quoted by any foreign bidders shall be loaded further as under:
 - (a) Towards customs duty and other statutory levies as per applicable.
 - (b) Towards custom clearance, inland transportation etc – 2% of the CIF/CIP value.
- (j) The purchaser reserves the right at the time of Contract award to increase or decrease the quantity of goods and services originally specified in the tender document without any change in unit price or other terms and conditions. Further, at the discretion of the purchaser, the quantities in the contract may be enhanced by 20% within the delivery period.

27. TECHNICAL EVALUATION OF TENDERS:

- (a) On the due date the Technical bids will be opened and referred to the Technical Sub Committee which is duly constituted by the Director, CSIR-CEERI.
 - (b) The information received and the bids already submitted together will be examined with reference to the tendered specifications and evaluation is made by the Technical Sub Committee.
 - (c) After the technical evaluation is completed and approved, CSIR-CEERI shall inform to the bidders whose tenders have been rejected technically with the reasons for rejection.
28. The successful bidders will be informed regarding the date and time of commercial/ Price bid opening.
29. The purpose of obtaining two bids (Technical Bid and Price Bid) is to evaluate all the firms on technical basis with reference to the tendered specifications, performance of similar Solutions/Applications elsewhere, obtaining user's views with reference to the earlier supplies. This will enable the technical committee to arrive at a fair recommendation in the interest of the Institution.

30. SETTLEMENT OF DISPUTES AND ARBITRATION:

- 30.1 The Purchaser and the Supplier shall make every effort to resolve amicably by direct informal negotiation any disagreement or dispute arising between them under or in connection with the Purchase Order/ Contract. If, after forty five (45) days, the parties have failed to resolve their dispute or difference by such mutual consultation, then either the Purchaser or the Supplier may give notice to the other party of its intention to commence arbitration, as hereinafter provided, as to the matter in dispute, and no arbitration in respect of this matter may be commenced unless such notice is given. Any dispute or difference in respect of which a notice of intention to commence arbitration has been given in accordance with this Clause shall be finally settled by arbitration. Arbitration may be commenced prior to or after delivery of the Goods under the Contract.

- 30.2 Disputes or differences 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 the Director General, Council of Scientific & Industrial Research and if he is unable or unwilling to act, to the sole arbitration of some other person appointed by him willing to act as such Arbitrator.
- 30.3 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 Clause 30.2 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 Laws).
- 30.4 The venue of the arbitration shall be the place from the purchase order or contract is issued.
- 30.5 Notwithstanding any reference to arbitration herein:
- (a) the parties shall continue to perform their respective obligations under the Contract unless they otherwise agree; and
 - (b) the Purchaser shall pay the Supplier any monies due the Supplier.

31. APPLICABLE LAW:

- 31.1 The Contract shall be interpreted in accordance with the laws of the Union of India and all disputes shall be subject to a court of competent jurisdiction in Jaipur.
32. **ACCEPTANCE OF OFFER:** The Director, CSIR-CEERI reserves the right to accept or reject any quotation / tender in part or full without assigning any reason thereof. No interim inquiries will be attended to.
33. **FALL CLAUSE:** The supplier shall certify that if the prices go downwards before execution of CSIR-CEERI order than the quoted prices, the benefit in this situation shall be allowed to CSIR-CEERI by the supplier. The supplier shall certify that the equipment material shall not be supplied to anyone less than the contract price during the period of execution of CSIR-CEERI order.

SCHEDULE OF REQUIREMENT

Tender No. 337/MLP-110/MDA/10-Pur/2017/T-58

Date: 24.1.2018

Technical Specifications

The attenuator coating system is required for coating of carbon on APBN (Anisotropic Pyrolytic Boron Nitride) rods in a traveling wave tube.

Carbon deposition process:

APBN rods are initially air fired to remove the adhered contaminants such as water vapour, oil emulsifiers etc. The rods, after firing, are mounted firmly on the rod holding fixture with the help of locking bushes. The entire module has to be firmly located inside the chamber. The vacuum pump is switched ON. Once a vacuum level of 1×10^{-6} mbar is achieved inside the chamber, the heating system is switched ON to pre-heat the rods for 30 seconds. The rotary drive system is now switched On for achieving uniform deposition rate on all exposed faces of the samples. After preheating for 30 seconds, known quality of heptane is allowed in to the chamber for a predetermined time. The cracking of heptane produces amorphous carbon and hydrogen. Carbon gets deposited on the rods while hydrogen is pumped out of the chamber. After sufficient cooling, Nitrogen is admitted into the chamber. Once the pressure inside the chamber reaches 760 mbar, the chamber is opened and the coated rods are removed from the chamber.

The technical details are mentioned below:

S. No.	ITEM	DESCRIPTION
1.	Chamber	<ul style="list-style-type: none"> • Dimension: 300 mm (Dia) X 600 mm (Ht) X 3.5 mm (thk) • Non-magnetic Stainless Steel – 304 Grade • Cylindrical chamber with hydraulic lifting mechanism • 2 Nos of 100 mm diameter view ports with manual shutter on the front side of the chamber. • The chamber on the topside is to be welded with a plate and bottom is to be provided with an L gasket to achieve vacuum sealing with base plate. • Base Plate: The base plate should be electrochemically polished SS304L material. Ports/feedthrough must be provided in the base plate of the chamber for connecting the following: <ul style="list-style-type: none"> ❖ Power feedthrough ❖ Purging port ❖ Vacuum pumping port ❖ Port for rotary drive mechanism • Lifting arrangement: The chamber must be lifted and lowered by means of hydraulic lifting arrangement consisting of hydraulic cylinder with hydraulic power pack. The stroke length of the hydraulic cylinder must be approximately 600 mm. • Chamber's inner surfaces and gas lines must be electro-polished for low out-gassing rate. • All the components, sub-assemblies and final unit must be leak tested using helium mass spectrometer leak detector to an individual leak rate of 1×10^{-10} mbar liter/s
2.	Chamber Gadgetries	<ul style="list-style-type: none"> • APBN rod holding fixture: Suitable rod fixture made out of SS304L material must be provided to hold 6 nos

		<p>of samples APBN rods having a maximum dimension each of 1.0 mm (+0.5/-0.0) (Ht) X 0.6 mm (+0.1/-0.0) X 140 mm length in a single coating cycle</p> <ul style="list-style-type: none"> • <u>Rotary drive mechanism:</u> The APBN rod holding fixture must be provided with a rotary drive mechanism design to rotate the rods with a variable (adjustable) speed from 2-10 rpm • <u>Heating System:</u> A set of LT feed through (one life and one earth) fabricated out of electrolytic grade copper must be provided which is water cooled and have a maximum current rating of 400 A and 10 V • <u>Resistive coil heater:</u> Strip type demountable source holder fabricated out of electrolytic grade copper must be provided to hold molybdenum wire heater which would be in the form of coil. The demountable heater holder must be provided to adjust the height of the heater. The heater can go up to a maximum temperature of 1200 deg C. • <u>Temperature measurement and control:</u> The temperature measurement will be performed using a reputed make 2 colour non-contact pyrometer having a measuring range from 350 deg to 1800 deg C. The temperature must be controlled using a PID control and the power to the LT feed through must be controlled using thyristor power controller. • A temperature uniformity of ± 5 deg C has to be achieved at 1000 deg C • APBN rod holding fixture with rotary drive mechanism will be placed at the center of the base plate and wound by the molybdenum coil heater. • <u>LT power supply:</u> Suitable LT transformer capable of delivering 400 A/10 V or 200 A/20 V must be provided to the power feed through which has to be controlled by a thyristor power controller.
3.	Support Structure	<ul style="list-style-type: none"> • Aesthetically designed mild steel support frame must be provided for the system. This support structure must be powder coated and provided with castor wheels.
4.	Process control and gas delivery system	<ul style="list-style-type: none"> • <u>Methane gas inlet system:</u> Methane gas inlet system must be provided with a gas manifold which should house 1 no. of M/s BRONKHORST/ALICAT make mass flow controller (0-50 sccm) with pneumatic isolation valves, solenoid valves, filters etc., with digital display. The accuracy must be about $\pm 2\%$ of the display with approximately 90 msec response time. • <u>Heptane Inlet System:</u> Heptane inlet system must consist of gas manifold which should house 1 no. of M/s. BRONKHORST/ALICAT make liquid mass flow controller (0-50 sccm) with pneumatic isolation valves, solenoid valves, filters etc., with digital display. The accuracy must be about $\pm 2\%$ of the display with approximately 90 msec response time. The heptane liquid must be stored in a high purity quartz bottle located on one side of the support frame structure. The

		heptane from the quartz bottle must be connected to the chamber through the mass flow controller and the manifold.
5.	Vacuum pumping system for the main chamber	<ul style="list-style-type: none"> • M/s. Edwards make dry scroll pump having a displacement capacity of 20m³/h must be provided. • M/s. Edwards make turbo molecular pump having a pumping speed of 400 liters/sec for nitrogen must be provided. • A solenoid operated vent valve must be provided to vent the chamber with dry nitrogen/argon • M/s. Edwards make pirani gauges -2 nos and wide range gauge -1 no. must be provided with set pointer controller • Ultimate vacuum of 1X10⁻⁶mbar in clean, cold, degassed chamber must be achieved after high vacuum valve is opened and initially back filled with pure and dry Argon/Nitrogen • A vacuum of 1X10⁻⁵ mbar in clean, degassed chamber must be achieved after high vacuum valve is opened and initially back filled with pure and dry Argon/Nitrogen at an opening temperature of 1200 deg C
6.	Instrumentation & Control system	<ul style="list-style-type: none"> • M/s. GE make PLC must be provided for complete automation of the vacuum cycle, deposition cycle and venting. • PC with touch screen facility must be provided with SCADA software for data acquisition and recipe development and storage • A standard stand-alone control console must be provided to house all the components like IPC, PLC, rotary drive control, bell jar lifting etc., along with mains control with RYB Indications and Isolator switches
7.	Safety Devices	<ul style="list-style-type: none"> • The entire unit must be provided with all the necessary safety devices like circuit breakers for all major power components, emergency power-off switch, pressure switches, micro switches, over load protection for the rotary pump motor, water flow switches etc. • One set of essential/useful tool kit required for the system is to be supplied along with the supply of the unit.
8.	Warranty	<ul style="list-style-type: none"> • 3 Years warranty

FORMAT OF PRICE BID

1. Schedule to Tender No. :
2. Name of the Tender :
3. The tender shall remain valid for acceptance for 180 days from the date of opening of the tender
4. EMD in the form of Bank Guarantee/ D.D. for Rs. -----in favour of Director, CSIR-CEERI, Pilani (Rajasthan)

Sl. No.	Description of Item	Qty.	Rate
1	Attenuator Coating System	1 No.	
			Ex-works cost of the item
			Discount
			Packing charges
			Inland Handling charges
			Forwarding charges
			Training charges
			Installation/commissioning charges
			Delivery period
			Warranty
			Payment terms
			Performance Bank Guarantee
			Penalty
			Total FCA/FOB Shipping Airport

LETTER OF QUOTATION

Quotation No.

Quotation For:

To

The Director
CSIR-CEERI
Pilani – 333031 (Rajasthan)

Sir,

I/We the undersigned hereby offer to supply “.....” at the rates stated in the attached Price Schedule. I/We have carefully gone through and have understood the instructions as contained in the invitation to quote and instructions to Contractors and the Specifications/Drawings enclosed herewith and agree to bound by the provisions contained therein.

2. I/We agree to hold this offer open up to and not to withdraw, amend or modify the same during the said period. I/We shall be bound by a communication of acceptance dispatched within the prescribed time. The Earnest Money in the form of Bank Guarantee for Rs. in favour of Director, CSIR-CEERI is enclosed herewith. I/We have understood that the quotation documents have been issued to me/us and I/We am/are permitted to quote in consideration of the stipulation on my/or our part after submitting the quotation. I/We will not resite from this offer or modify the terms and conditions thereof till In case I/We fail to observe to comply with the foregoing stipulation, the Earnest Money shall be forfeited to the CSIR-CEERI.

3. I/We agree that in the event of failure on my/our part commence the work under the contract, if awarded, within 15 days from the date of receipt of contract, the Earnest Money shall be forfeited to the Government without prejudice to either rights of the Government under the Contract.

4. The copy of the Specifications/Drawings and all other related documents received along with the invitation to quote and Instructions to Contractors are returned herewith duly signed and stamped as a token of acceptance.

Thanking you,

Date:

Yours faithfully

Signature of the tenderer and the capacity
In which he sign i.e. sole proprietor etc.

Address

Telegraphic Address

MANUFACTURER'S AUTHORIZATION FORM

(The Bidder shall require the Manufacturer to fill in this Form in accordance with the instructions indicated. This letter of authorization should be on the letterhead of the Manufacturer and should be signed by a person with the proper authority to sign documents that are binding on the Manufacturer.

Date: (insert date (as day, month and year) of Bid submission)

Tender No. : (insert number from Invitation for Bids)

To: (insert complete name and address of Purchaser)

WHEREAS

We (insert complete name of Manufacturer), who are official manufacturers of (insert type of goods manufactured), having factories at (insert full address of Manufacturer's factories), do hereby authorize (insert complete name of Bidder) to submit a bid the purpose of which is to provide the following Goods, manufactured by us (insert name and or brief description of the Goods), and to subsequently negotiate and sign the Contract.

We hereby extend our full guarantee and warranty in accordance with warranty clause of the conditions of the contract with respect to the goods offered by the above firm.

Signed: (insert signature(s) of authorized representative(s) of the Manufacturer)

Name: (insert complete name(s) authorized representative(s) of the Manufacturer)

Title: (insert title)

Duly authorized to sign this Authorization on behalf of : (insert complete name of Bidder)

Dated on _____ day of

_____ (insert date of signing)

MODEL BANK GUARANTEE FORMAT FOR FURNISHING BID SECURITY EMD

Whereas _____ (hereinafter called the “tenders”) has submitted their offer dated _____ for the supply of (hereinafter called the “tender”) against the Purchaser’s tender enquiry No. _____ KNOW ALL MEN by these presents that WE _____ of _____ having our registered office at _____ are bound unto _____ (hereinafter called the “Purchaser”) in the sum of for which payment will and truly to be made to the said Purchaser, the Bank binds itself, its successors and assigns by these presents. Sealed with Common Seal of the said Bank this _____ day of _____ 20 _____

THE CONDITIONS OF THIS OBLIGATION ARE:

1. If the tenderer withdraws or amends, impairs or derogates from the tender in any respect within the period of validity of this tender.
2. If the tenderer having been notified of the acceptance of his tender by the Purchaser during the period of its validity –
 - (a) If the tenderer fails to furnish the performance security for the due performance of the contract.
 - (b) Fails or refuses to accept/execute the contract.

We undertake to pay the purchaser up to the above amount upon receipt of its first written demand, without the purchaser (CSIR-CEERI) 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 the occurrence of one or both the two conditions, specifying the occurred condition or conditions. This guarantee will remain in force up-to and including 45 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 an address of the Bank and address of the Branch.