



सीएसआइआर- केन्द्रीय इलेक्ट्रॉनिकी अभियांत्रिकी अनुसंधान संस्थान

CSIR-CENTRAL ELECTRONICS ENGINEERING RESEARCH INSTITUTE

(विज्ञान तथा प्रौद्योगिकी मंत्रालय, भारत सरकार/MINISTRY OF SCIENCE & TECHNOLOGY, GOVT. OF INDIA)

पिलानी - 333 031 (राज.) भारत PILANI - 333 031 (RAJASTHAN) INDIA

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REGISTERED POST

Tender No. 230/GAP-3321/MWD/6-Pur/2018/T-53

Date: 08.08.2018

M/s.

**SUB: REQUEST FOR INVITING QUOTATIONS/TENDER INDIGINEOUSLY.**

Dear Sir,

Please submit your quotation on e-procurement portal (<https://etenders.gov.in>) The tender will be opened on the specified date and time given below.

**LAST DATE OF RECEIPT OF TENDERS: 28.08.2018 AT 2:30 P.M.**

**DATE OF OPENING: 29.08.2018 AT 3:30 P.M.**

**The goods will be supplied within one month from the date of our order.**

S.NO.	NAME OF ARTICLE & BRIEF DESCRIPTION	Qty
1.	<b>Residual Gas Analyzer as per Specification attached</b>  <b>Note:1. Your quotation must be valid for 30 days from the date of tender opening, otherwise your quotation will not be considered at all.</b> <b>2. Your quotation must be FOR, CEERI, Pilani including Packing, Freight and Insurance charges etc., otherwise your quotations will not be considered at all.</b>	<b>01 No.</b>

**NOTE:**1. Please submit your quotation on e-procurement portal well in time in accordance with the terms and conditions printed overleaf of this letter.

Yours faithfully,

**STORES & PURCHASE OFFICER**

## TERMS & CONDITIONS

While submitting your quotation, the following terms and conditions may be taken care off-

1. The delayed/Late tenders will not be considered at all. Your quotation must be neat and clean duly signed by authorized signatories. No erasure or alteration must be appeared in the quotation.
2. **PRICES:** Your quotation must be indicated clearly whether your prices are FOR CSIR-CEERI, PILANI/FREE DELIVERY AT CSIR-CEERI, PILANI
  - A. In case of FOR CSIR-CEERI, Pilani, unloading will be done by CSIR-CEERI. Your prices must be inclusive of Packing, Forwarding, Freight, Insurance charges. You will be responsible for safe delivery at CSIR-CEERI, Pilani free of any extra charge.
  - B. The Blue Prints/Catalogue/Pamphlets/Technical Literature and Instruction Manual must be uploaded in pdf format along with your quotation.
  - C. In case of Price FOR, CSIR-CEERI, Unloading charges will be borne by supplier.
3. **GST:** CSIR-CEERI is registered with Govt. of India and Govt. of Rajasthan vide GST registration No. 08AAATC2716R1ZF. As per notification No. 47/2017-Integrated Tax (Rate) dated 14<sup>th</sup> November, 2017 issued by the Ministry of Finance, Govt. of India, the rate of GST on the goods procured by CSIR-CEERI will be 5%. Kindly mention rate of GST as 5% in your quotation.
4. **DELIVERY SCHEDULE:** The successful bidders are required to supply the goods within the prescribed delivery schedule from the date of our order. Please quote your delivery schedule clearly, failing which your quotation will not be considered.
5. **MODE OF DESPATCH:** Please quote mode of Delivery/mode of dispatch through one of the following:
  - A. BY PERSONAL DELIVERY AT CSIR-CEERI FREE OF CHARGE.
  - B. BY ROAD TRANSPORT FREIGHT TO PAY OR PREPAID.
  - C. BY PASSENGER TRAIN/GOODS TRAIN FREIGHT TO COLLECT OR PREPAID.
6. **INSURANCE:** The goods will be dispatched by you duly insured against all losses from your warehouse to CSIR-CEERI Warehouse. In case of FOR CSIR-CEERI the insurance charges will be to your account.
7. **PAYMENT:** The payment will be made within 30 days after receipt and acceptance of goods by CSIR-CEERI by RTGS. NO ADVANCE PAYMENT WILL BE MADE.
8. **INSTALLATION AND COMMISSIONING:** In case the goods need installation and Commissioning, the same will be done by the Technical Expert of the supplier up to the satisfaction of CSIR-CEERI free of charge and the same will be put under satisfactory operational condition. In case the installation/ Commissioning and performance are not found up to CSIR-CEERI satisfaction the payment will not be released.
9. **PENALTY:** In case the goods are not supplied within the specified delivery period, a penalty @ 0.5% of order value per week will be charged from the supplier.
10. **Indian Agents:**
  - i) Quotation should be submitted directly by the manufacturer/supplier. In case any sole authorized distributor, dealer or authorized Indian agent 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 sole authorized distributor/dealer/authorized Indian agent, in reference to CSIR letter No. 13-4(04)/15-16/S&P/Policy/Cir dated 13.09.2017, failing which their quotation will be summarily rejected. Please also enclose the manufacturer's authorization along with bid as per Annexure-G.
  - ii) In reference to CSIR letter No. 13-4(04)/15-16/S&P/Policy/Cir dated 13.09.2017, 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 associate, failing which their quotation will be summarily rejected.
  - iii) The percentage of Indian agent's commission must be indicated clearly in the quotation which will be paid in Indian Rupees after receipt of material in good condition and satisfactory installation/commissioning and acceptance of material/equipment.
11. **GUARANTEE/WARRANTEE:** The goods must be guaranteed/warranted against all manufacturing defects for a period of one year from the date of its satisfactory installation/commissioning and acceptance. In case the part thereof or whole equipment/goods is found defective, the same will have to be rectified/replaced on free of charge at CSIR-CEERI without laps of time. In case the goods is not repaired/replaced and deficits are not rectified and unnecessary the matter is delayed, the bank guarantee will be revoked without assigning any reason.
12. **Acceptance of order:** The acceptance of our order must be sent by successful bidder in writing within 15 days after receipt of our order.
13. All disputes arising out of this shall be referred to the sole arbitrator of CSIR-CEERI/CSIR and his award shall be final and binding on both the parties to the dispute. All suits in respect of this shall be in courts of Jaipur.
14. **The Director, CSIR-CEERI reserves the right to reject lowest quotation or any quotation or all the quotations or accept any quotation or part thereof without assigning any reason.**

STORES & PURCHASE OFFICER

## 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 single bid system.

S. No.	Tender Reference	Description of Goods	Quantity
1.	230/GAP-3321/MWD/6Pur/ 2018/T-53	Residual Gas Analyzer as per Specification attached	01 No.

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](http://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.

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

Stores & Purchase Officer

## Specifications of Residual Gas Analyzer

1	Bidder Qualification	<p>(1) The bidder shall be original manufacturer of RGA or their authorized representative</p> <p>2) The bidder should have supplied at least 05 similar items to reputed R &amp; D establishment in the last 03 years.</p>
2	Detailed Technical Specification	
(a)	Mass range	1-200 amu
(b)	Detectors	Faraday cup
(c)	Operating pressure range:	$5.0 \times 10^{-4}$ mbar to $1.0 \times 10^{-10}$ mbar or better
(d)	Resolution	< 1 amu at 10% peaks height.
(e)	Min. Detectable limit, Faraday :	$\leq 5.0 \times 10^{-12}$ mbar
(f)	Bakeout temperature for analyzer	300°C (electronics removed)
(g)	Operating temperature for Analyzer	200°C
(h)	Electronics control unit temp. range	5 – 50° C
(i)	Mounting flange	DN 40 CF (Std. 70 mm OD conflat flange)
(j)	Filament protection from exposure to overpressure	Automatic overpressure trip
(k)	Filament	Replaceable dual Yttriated Iridium
(l)	Ion source type	Open for UHV systems
(m)	Communication to PC	Ethernet/RS232/ RS485/ USB
(n)	Power supply	90-260 V AC (50 Hz)
(o)	Argon Sensitivity, Faraday	$4 \times 10^{-4}$ A/mbar
(p)	Contribution to adjacent Mass	< 20 ppm
(q)	Reproducibility of peak ratio	$\pm 0.5\%$
(r)	Weight	< 3.5 Kg
(s)	RGA Software feature	
	<ul style="list-style-type: none"> <li>➤ User-friendly, intuitive operation</li> <li>➤ Automated measurement routines via included sequencer</li> <li>➤ Leak detection and vacuum diagnosis with just one click</li> <li>➤ Automatic calibration and tuning</li> <li>➤ Simple definition of measurement recipes</li> <li>➤ Mass spectrometer data can be linked with external signals</li> <li>➤ Scan and individual Ion trend in single screen.</li> </ul>	

(t)	After Sale Service Facility	
	In case of break down, complete repairs of the RGA i.e replacement of ion source, filament, channeltron, electronics boards etc. should be possible at site. The vendor should have Service Centre/Facility and complete infrastructure within India to handle complete repairs of the RGA such cleaning of ion source, filament, channeltron ,repairing of electronics cards etc. and availability of critical spares off the shelf, from Indian office.	
(u)	RGA Features	
	<ol style="list-style-type: none"> <li>1) Field replaceable Multiplier</li> <li>2) Web server (Web UI) Interface for Analog scan, leak check and diagnostics</li> <li>3) Facility to measure Total pressure without using external gauge</li> <li>4) <b>Biased ionization chamber:</b> - for extremely low background signal. The electron-emitting filament should be positively biased relative to ground in order to prevents desorption of gas particles from the chamber walls, resulting in generation of an undesired background signals by electron stimulated desorption.</li> <li>5) <b>Field-axis technology:</b> - the ions should be able to cross the peripheral fields of the separating system without any noteworthy interaction using the Field Axis Technology and offer high level of sensitivity without the need for pre and post filters.</li> <li>6) Standard I/O connection (D-sub 15 pin connector) consisting of 1 Analog Input, 2 Digital Inputs, 1 Relay</li> <li>7) Facility to Extend I/O's to 8 analog outputs, 8 analog inputs, 10 Digital outputs and 5 digital inputs.</li> </ol>	
(v)	Guarantee/Warranty	The item should be Guaranteed/warranted for any defect for a period of one year

**NOTE / Pre-Qualification criteria:**

- Vendor must have supplied similar systems to IITs, IISERs or other institutes of national repute in the past 5 years. Please attach the detailed reference list of such users with phone numbers and email addresses and Commissioning certificates and latest performance certificate.
- OEM Manufacturer must be an ISO-9001 or international standard company. Please attach the certificates along with tender.
- Machine must have a warranty of at least 1 years
- Please enclose the OEM certificate along with the tender.
- The bidder should undertake to install and commission the System and all its accessories at the installation site at CSIR – CEERI Pilani. The operation of the plant must be demonstrated to fulfill the acceptance criteria.
- On-site training at CSIR – CEERI Pilani in operation & routine Maintenance and the functionalities of the whole system should be provided to Scientist / Technician.
- Only reputed original equipment manufacturers (system/sub-system) of international standards should submit tender supported by relevant document.
- The system should comply Indian and International safety standards and regulations.

**PROFORMA FOR QUOTATION/TENDER**

From

M/s. -----  
 -----  
 -----

Quotation No.-----  
 Date :-----  
 GST No. :-----  
 Phone No. :-----  
 Fax No. :-----

To,  
 The Director  
 Central Electronics Engineering Research Institute  
 Pilani (Rajasthan)

**Ref:- Your quotation inquiry letter No.-----dated-----**

Dear Sir,

With reference to your above referred inquiry letter, we are submitting our quotation as under for the supply of material as requested by you.

S.No.	Description of materials	Qty.	Rate	Unit	Total amount

1. Delivery period .....  2. Validity period of quotation: 30 days from the date of tender opening.  3. All the terms and conditions as mentioned your inquiry letter are acceptable to us.	Total Ex-works	
	GST @ 5% against Notification No. 47/2017 dated 14/11/2017	
	Insurance charges	Inclusive
	Freight charges	Inclusive
	Installation & Commissioning charges	
	<b>Total Price F.O.R. CSIR-CEERI, Pilani</b>	

Authorized Signatories  
 For M/s\_\_\_\_\_