



Central Electronics Engineering Research Institute
केन्द्रीय इलेक्ट्रॉनिकी अभियांत्रिकी अनुसंधान संस्थान
Pilani (Rajasthan)-333 031
पिलानी (राजस्थान) 333 031

Fax : 01596 – 242135, 242294

Phone : 01596 - 244710

Gram : “ELECTRONIC” Pilani

No. OPEN/GLOBAL TENDER/PUR/2013-14/1

Date :- 16.7.2013

OPEN/GLOBAL TENDER NOTICE NO. CEERI/PUR/2013-14/1

Sealed tenders are invited on behalf of the Director, C.E.E.R.I., Pilani (Rajasthan) for the procurement of the following stores from Indian / Foreign Original Equipment Manufacturers or their Authorized distributors, dealers, system integrators under **Two Bid system**.

Tender No.	Brief Description of Stores	Qty.	Cost of Tender documents	EMD	Last date & time of Receipt of Tender	Tender Opening date & Time
186/PSC-201/ MEMS/10- Pur/2013/T- 31	Laser Doppler Vibrometer along with Helmholtz coil setup for MEMS devices Characterization	1 No.	NIL in case Tender document is downloaded from our website, otherwise Rs. 300/- if it is bought from CEERI	Rs. 7=00 Lakhs	21.8.2013 At 2.30 P.M.	21.8.2013 At 3.30 P.M.

NOTE

The vendors may down load Tender documents containing detailed technical specifications and terms & conditions from **CEERI Website www.ceeri.res.in** free of cost and submit the tender along with EMD. The tender documents can also be obtained from the office of Stores & Purchase Officer, C.E.E.R.I., Pilani – 333 031 on payment of Rs. 300=00 (NON-REFUNDABLE) through Demand Draft in favour of Director CEERI, Pilani. The Director, CEERI reserves the right to accept or reject any quotation/tender in part or full without assigning any reason thereof.

Stores & Purchase Officer



Central Electronics Engineering Research Institute
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Fax : 01596 – 242135,242294

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No. 186/PSC-201/MEMS/10-Pur/2013/T-31

Dated: 16.7.2013

OPEN/GLOBAL TENDER DOCUMENTS

M/s. _____

Subject: Supply of Laser Doppler Vibrometer along with Helmholtz coil setup for MEMS devices Characterization.

Dear Sirs,

The Director, Central Electronics Engineering Research Institute (CSIR-CEERI), Pilani – 333 031, invites you to quote for the stores as per the **SCHEDULE OF REQUIREMENT ANNEXURE-I ON FIXED PRICE BASIS**. Sealed quotation must be submitted on the specified date & time. **THE QUOTATIONS RECEIVED THROUGH FAX/E-MAIL/TELEGRAM/TELEX in open condition will not be considered.**

2. Quotation duly completed in all respects must reach **THE STORES & PURCHASE OFFICER, CEERI, PILANI NOT LATER THAN 2.30 P.M. ON 21.8.2013 AND THE SAME WILL BE OPENED ON 21.8.2013 AT 3.30 PM.** The Due Date & Time and Opening Date & Time will not be extended at all.

YOU ARE ADVISED TO GO THROUGH THIS DOCUMENT CAREFULLY AND TO COMPLY WITH ALL THE REQUIREMENTS OF THIS DOCUMENT.

3. **SUBMITTING OF TENDERS:**

Your offer must be split in TWO parts and must be put in separate envelopes and be embossed clearly as follows:

- (a) TECHNO COMMERCIAL BID
- (b) PRICE BID

4. A pictorial representation of the embossment is as follows:

ENVELOPE – I

TECHNO COMMERCIAL BID
Sub.: Supply of Laser Doppler Vibrometer along with Helmholtz coil setup for MEMS devices Characterization.
CEERI Tender No.186/PSC-201/MEMS/10-Pur/2013/T-31
Last date & Time for receipt of Tenders 21.8.2013 at 2.30 PM
Date of opening 21.8.2013 at 3.30PM
To
The Director
CEERI, Pilani

ENVELOPE – II

PRICE BID
Sub.: Supply of Laser Doppler Vibrometer along with Helmholtz coil setup for MEMS devices Characterization.
CEERI Tender No.186/PSC-201/MEMS/10-Pur/2013/T-31
Last date & Time for receipt of tenders 21.8.2013 at 2.30 PM
To
The Director
CEERI, Pilani.

5. Envelope – I and Envelope – II are then to be put together in another envelope as outer cover. The outer cover should be addressed to THE STORES & PURCHASE OFFICER, CEERI, PILANI – 3333031 (RAJASTHAN) mentioning the details given below.

TECHNO ECONOMIC BID
ENVELOPE - I

PRICE BID
ENVELOPE - II

Tender No.186/PSC-201/MEMS/10-Pur/2013/T-31
Last date & Time for receipt of Tenders 21.8.2013 at 2.30 PM
Date of Opening 21.8.2013 at 3.30PM
THE STORES & PURCHASE OFFICER,
C.E.E.R.I.,
PIALNI – 333 031

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NOTE: BOTH TEHNO COMMERCIAL AND PRICE BID SHALL BE CLOSED WITH SEALED WAX.

6. Director, CSIR-CEERI reserves the right to accept any or all tenders either in part or in full without assigning any reasons thereof.

7. One cover should contain only one Tender.

8. The time, date and place of opening of Price bid will be intimated to the bidders in advance and all bidders or their authorized representative are at liberty to be present during opening of the tenders.

TO SUMMARISE THE CONTENTS OF ENVELOPE-I AND ENVELOPE-II WOULD BE AS FOLLOWS:

Envelope – I (Techno Commercial Bid) must contain

Techno Commercial bid. It must contain the following :-

INSTRUCTIONS :-

1. Commercial Terms and Conditions without any indication of price.
2. The tender documents can either be downloaded from CSIR-CEERI's website www.ceeri.res.in free of cost or may be obtained from the office of Stores & Purchase Officer, CEERI, Pilani – 333 031 (Rajasthan) on payment of Rs. 300/- (NON REFUNDABLE) through a Demand Draft in favour of Director, CSIR-CEERI, Pilani.
3. Quotation should be submitted directly by the manufacturer/supplier or its sole authorized distributor/dealer. In case of bid by authorized dealer/distributor, the manufacturer authorization should be attached with the technical bid as per Annexure –“G”.
4. 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.
5. The bidder shall bear all costs associated with the preparation and submission of its bid irrespective of the conduct or outcome of the bidding process.
6. The bidder should not indulge in any corrupt, fraudulent, collusive, coercive practices during the entire process of procurement and execution of contract/order.
7. Before the deadline for submission of the bid, CSIR-CEERI reserves the right to modify the bidding document and to extend or not to extend the date of submission. Such amendment/modification will be notified to bidders receiving the bidding document in writing or by fax/email and will also be hosted on CSIR-CEERI website.
8. Conditional tender will be summarily rejected.
9. A bidder may withdraw, substitute, or modify its bid after it has been submitted by sending a written notice signed by the authorized signatory before the date of submission of the bid. Any re-submission or modification in the bid should be submitted before the date and time of submission of bid as originally conveyed in the invitation of bid.

- 10.No bid may be withdrawn, substituted or modified in the interval between the deadline for submission of bids and the expiration of the period of bid validity specified by the Bidder on the Bid Form or any extension thereof.
- 11.First envelope marked “WITHDRAWAL” shall not be opened, but returned to the Bidder subject to submission of valid authorization to request the withdrawal. In case of substituted and modified bid, only the substituted bids and modified bids will be opened subject to production of authorization from the bidders.
- 12.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.
- 13.**The vendor must be quoted on FOB/FCA value up-to shipping Airport of the exporting country showing Ex-works prices, packing, forwarding, documentation and inland freight etc.**
- 14.The price quoted by the bidder shall remain un-changed during the contract period and shall not vary on any account.
- 15.**The vendor must be quoted 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.**
- 16.**Custom Duty** – We are registered with Department of Scientific and Industrial Research (DSIR) vide TU/VIRG-CDE(39)/2001 dated September 25, 2001 for availing custom duty exemptions under Government Notification No. 51/96 Custom dated 23 July, 1996. We shall pay concessional custom duty.
- 17.**Excise Duty** – We are exempted from the payment of Excise Duty under notification number 10/97. Hence Excise Duty if any, should be shown separately for which excise exemption certificate will be issued.
- 18.**Sales Tax** – The percentage of Sales Tax as applicable should also be specified clearly in the quotation. However concessional Sales Tax is allowed by states to R&D units against concessional / Sales Tax Certificate which will be issued along with order. We are not eligible to issue Form “C” or “D”.
- 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.

20. **Bid Currencies** – The vendor shall be quoted prices in Indian Rupees for offers submitted for supply within India and in freely convertible foreign currency in case of the items offered of foreign countries.
21. The technical details and specifications of the items must be indicated clearly point by point conforming to the description of the item/specifications enclosed to this tender Annexure – I along with Commercial terms & conditions such as payment terms, delivery date applicable packing, forwarding, freight, insurance, taxes and duties, installation and commissioning. As per Annexure – I. **WHERE THERE IS NO MENTION OF THE ABOVE TERMS AND CONDITIONS SUCH QUOTATIONS SHALL BE REJECTED AS INCOMPLETE.**
22. Our tender specifications/drawings and technical documents duly stamped and signed by your authorized signatory on all pages in toke of acceptance of our tender specifications/technical requirement and terms and conditions.
23. Comparative statement of technical offers drawing a comparison between your offered specifications and our tender specifications bringing out clearly the deviations, if any.
24. **THE VENDOR MUST BE OFFERED THE VALIDITY OF QUOTATION AS MENTIONED IN TENDER DOCUMENT. IF THE BID VALIDITY IS SHORTER THAN THE REQUIRED PERIOD, SUCH QUOTATIONS SHALL BE REJECTED AS INCOMPLETE.**
25. **Deadline for Submission of Bids :- Bids must be received by the CSIR-CEERI at the address specified in invitation for bids no later than the time and date specified therein. In the event of the specified date for the submission of Bids being declared a holiday for the CSIR-CEERI, the Bids will be received up-to the appointed time on the next working day.**
26. **LATE BIDS :- Any bid received by the CSIR-CEERI after the deadline for submission of bids prescribed by the CSIR-CEERI will be rejected. Such tenders shall be marked as late and not considered for further, evaluation. They shall not be opened at all and be returned to the bidders in their original envelope without opening.**
27. **The original and all copies of the bid shall be typed or written in indelible ink and shall be signed by the Bidder or a person or persons duly authorized to bind the Bidder to the Contract. All pages of the bid, except for un-amended printed literature, shall be initialed by the person or persons signing the bid.**

Envelope – II (Price Bid) must contain

1. Complete quotation both TECHNO COMMERCIAL AND PRICE with commercial terms and conditions along with charges of Packing, forwarding, freight, insurance, Taxes/duties and installation and commissioning and payment terms, delivery date and validity of quotation etc. As per enclosed format. **WHERE THERE IS NO MENTION OF THESE TERMS AND CONDITIONS SUCH QUOTATIONS SHALL BE REJECTED AS INCOMPLETE.**
2. The quotes must signify the capacity in which the quotation has been signed i.e. whether as a Sole proprietor, authorized Partner or as authorized signatory of a company.

TERMS AND CONDITIONS

1. **1. PRICE (A) In case of Import of goods :- The price must be quoted on FOB/FCA value up to under mentioned international Shipping Airport of the Exporting country showing ex-works prices, packing, forwarding, documentation and inland freight 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 accepted. The airfreight and insurance shall be arranged and paid directly by us in Indian Rupee at our end.
Desired Port of shipments :- U.S.A. – New York, Los Angeles, Chicago, Boston, San Francisco, Dallas, Atlanta, U.K. – Heathrow, Germany – Frankfurt, Japan – Tokyo, Netherlands – Amsterdam, France – Paris, Canada – Montreal, Singapore – Singapore, Switzerland – Zurich, Italy – Milan, Hong Kong – Hong Kong, Sweden – Stockholm, Australia – Melbourne, Austria- Vienna, Belgium – Brussels, Denmark – Copenhagen, Taiwan – Taipei, Malaysia Kuala Lumpur, Korea – Seoul, Russia – Moscow, China – Beijing.
(B) In case of Indigenous Supplies :- For Indigenous supplies, the prices should be FOR 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. **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.

3. **PERIOD OF DELIVERY :-** The goods must be delivered within Six months from the date of firm order positively. However if this delivery period is not acceptable to you, please quote your fixed date of delivery.
4. **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.
5. **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 & Commissioning of equipment.
6. **INSTALLATION/COMMISSIONING:-**The equipment must be installed/commissioned and demonstrated by the supplier at CSIR-CEERI within 30 days after call letter of CSIR-CEERI for installation/commissioning and the same will be put under operation as per the contract specification. CSIR-CEERI technical expert/scientist will test the performance of the equipment. No separate charges for installation etc. will be paid to the party beyond the quoted prices.
7. **GUARANTEE :-** The equipment must be guaranteed / warranted for a period of **One year** (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. However, if the items are guaranteed/warranted for a period of more than **One year**, it may be specifically mentioned in the quotation. In case the firm 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 supplier at their cost. Either the supplier will replace the whole equipment as per contract specifications or whole money paid CIF/FOR CSIR-CEERI on the account of purchase of the equipment will be refunded by supplier to CSIR-CEERI.
8. **SPARE PARTS :-** The availability of spare parts must be guaranteed for a period of 10 years. In case of discontinuation of the equipment, you have to intimate us in advance.
9. **AFTER SALE SERVICE :** It must be clearly indicated in the quotation whether the after sales service would be provided. by supplier himself or by their authorized agent after satisfactory installation/commissioning of equipment.

10. INDIAN AGENTS :-

- (a) Authorized Agent Certificate of his principal must be submitted by Indian Agent along with his quotation, failing which the quotation shall not be considered. (Format enclosed.**
- (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 and commissioning / functioning of the equipment.**

11 FOREIGN SUPPLIER :- Foreign supplier / manufacturer are required to submit their quotation directly to CSIR-CEERI with in due date and time. In case foreign supplier / manufacturer are willing to submit their quotation through his authorized agent in India, The Indian Agent can submit his quotation along with Foreign Supplier authorization Certificate

12. PAYMENTS :- A. FOR IMPORTS :

Through Letter of Credit :- L/C will be opened for 100% FOB/FCA 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 L/C shall be released on presentation of complete shipping documents. Balance 10% of order value shall be released after satisfactory installation and commissioning of the equipment.

BANK CHARGES :- The bank charges out side India will be to the account of Supplier

B. 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 and after acceptance certification by our technical expert/scientist. However, supplier will be required to submit performance bank guarantee for 10% amount of the total value of order along with acceptance of our order valid up to expiry of warranty period. In case of non fulfilling the commitments the Bank Guarantee will be forfeited.

C. No advance payment will be made to any supplier

13 TRAINING :- The supplier shall arrange extensive operation and maintenance training to two CSIR-CEERI officials at their works for a period of Five working days before dispatch of the equipment. All cost including to and fro Air fare, lodging & boarding & local travel to be born by the supplier. The schedule of Training shall be intimated one month advance to complete the formalities in India by the visiting Scientist of CSIR-CEERI. Further supplier shall provide Two days training after Installation/Commissioning of the equipment to CSIR-CEERI Scientist/ Technical persons at CSIR-CEERI, FREE OF COST.

14 INSPECTION :- The consignment shall be opened in the presence of firm's representative and inspection of the system will be done by our technical expert /scientist in the presence of firms representative at CSIR-CEERI. In case firms representative is not available, the inspection will be done by CSIR-CEERI. The discrepancies will be intimated to supplier accordingly. All short supplies will be arranged by supplier on FOR/CIF CSIR-CEERI 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.

14.1 INSPECTION AT SUPPLIER SITE:- The equipment shall be inspected at suppliers site by the CSIR-CEERI Scientist / Technical person who will visit suppliers works for Training before dispatch.

15 EMD :- EMD of Rs. 7,00,000/- OR equivalent in respective Foreign Currency TOWARDS EARNEST MONEY IN THE FORM OF BANK GUARANTEE valid for Six months plus 45 days from the date of opening of the tender must be submitted along with quotation (techno-commercial quotation in case of two bid system), otherwise quotation will not be considered. The firms, if registered with DGS&D, NSIC, Govt. Public Undertakings, Central Autonomous Bodies and with CSIR Labs. / Institutes as manufacturer for supply of the same item for which the party is submitting the quotation, will be exempted from submission of EMD. These parties will have to submit registration certificate along with their quotations. 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 us to refund their EMD. In case the tender is failed to accept our order or failed to execute our order the EMD will be forfeited. BID(S) NOT ACCOMPANIED WITH AN EMD IS /ARE LIABLE TO BE REJECTED.

16.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 tenderer.

17. PERFORMANCE SECURITY :- An unconditional performance bank guarantee from scheduled bank for 10% amount of order value has to be furnished by successful tenderer along with acceptance of our order towards the performance security within 21 days of the placement of 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.

18. 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.

19. 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 CEERI before the last date of receipt of tenders. CEERI will not be responsible for the loss/delay in transit of any bid.

20 COMPLIANCE STATEMENT :- Tenderers are required to furnish a compliance statement of each and every specification of our 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 techno commercial bid in case of two bid system). Deviations may be given in separate column.

The firms 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

S. 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

21 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.

22 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.

23 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 the following conditions are fulfilled :

- (a) The price schedule should be enclosed and must be signed.
- (b) The bid validity should not be shorter than required.
- (c) The manufacturer's authorization should be enclosed in case the bidder is authorized dealer/distributor.
- (d) The bidders 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 rectified, would unfairly affect the other bidders, the bid will be rejected.

- (g) The purchaser shall correct arithmetical errors on the following basis
 - (i) If there is a discrepancy between the unit price and the line item total i.e. obtained by multiplying the unit price by the quantity, the unit price shall prevail and the line item total shall be corrected, unless in the opinion of the purchaser there is an obvious misplacement of the decimal point in the unit price, in which case the line item total as quoted shall govern and the unit price shall be corrected.
 - (ii) If there is an error in a total corresponding to the addition or subtraction of subtotals, the subtotal shall prevail and the total shall be corrected, and
 - (iii) If there is discrepancy between words and figures, the amount in words shall prevail, unless the amount expressed in words is related to an arithmetic error, in which case the amount in figures shall prevail subject to (i) and (ii) above.
- (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 bids in the case of two parts bidding.
- (i) The bids shall be evaluated on the basis of final landing cost as per Annexure “E” in case of import and Annexure “F” in case of indigenous item.
- (j) The comparison 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.

(l)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 10% within the delivery period.

TECHNICAL EVALUATION OF TENDERS

- (a) On the due date the Technical bids will be opened and referred to the Technical 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 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.

25. The successful bidders will be informed regarding the date and time of commercial bid opening.
- 26 The purpose of obtaining two bids (technical and commercial) 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 organization.
27. **ARBITRATION:-** All disputes or differences arising under and out of, or in connection with the contract, if concluded, shall be referred to the sole arbitration by an arbitrator appointed under the provisions of Indian Arbitration Act. 1940 by CSIR/CEERI. The same shall be binding on both the parties.
28. **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.
- 29 **FALL CLAUSE :-** The supplier shall certify that if the prices go downwards before execution of our order than the quoted prices, the benefit in this situation shall be allowed to CEERI/CSIR 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 CEERI/CSIR order.

STORES & PURCHAE OFFICER

SCHEDULE OF REQUIREMENT

Tender No. 186/PSC-201/MEMS/10-Pur/2013/T-31

Date : 16.7.2013

Last Date & Time for receipt of Tenders 21.8.2013 at 2.30 PM

Date & Time of Opening 21.8.2013 at 3.30 PM

Sl. No.	Description of Stores	Qty.
1.	Laser Doppler Vibrometer along with Helmholtz coil setup for MEMS devices Characterization. Technical specifications as per attached sheet.	1 No.

STORES & PURCHASE OFFICER

Annexure-I
Specification for Laser Doppler Vibrometer along with Helmholtz coil setup for MEMS devices Characterization

Technical Specifications:

1. The system should have features for measurements and analyses of in-plane vibration, out-of-plane vibrations and surface topography of microelectromechanical system (MEMS) devices, like Gyroscope, Accelerometer, Magnetometer, RF Switches, Micro-mirror and Ultrasonic Transducer etc.
2. Dynamic characterization of out-of-plane vibrations by Laser Doppler Vibrometer at frequencies from 0 to 24 MHz with a displacement resolution in the pico meter range and maximum velocity of 10 m/s.
3. Dynamic characterization of in-plane vibrations by stroboscopic video microscopy at frequencies from 0 to 1 MHz with a displacement resolution in nanometer range.
4. Static characterization of the topography by scanning white-light interferometry, appropriate for rough and smooth surfaces with sub-nanometer vertical resolution and a horizontal resolution in the sub-micrometer range.
5. By turning the objectives, without removing the sample device, switching between the different measurement techniques should be possible.
6. Microscope objectives with high N.A and long working distance objectives lens of 10X, 20X and 50X, magnification.
7. Interference objectives for topography measurements of 10X, 20X and 50X, magnification.
8. Integration of the system with wafer prober, for measurement on devices at wafer and die level.
9. Amplified differential signal generator output of ± 10 volts (50 mA) for generator frequencies from DC to 5 MHz. Provision to provide a reference input for an external generator which is used for device stimulation.
10. Wideband Power Amplifier:
Output Power: 34Watts, Differential Output Voltage: 282Vrms
Frequency Range: DC to 1MHz, Coupling: AC or DC
Gain: up to 42 dB, Distortion: <0.01%, DC Offset: ± 200 V, Load Impedance: Reactive and Resistive; Metered Output with:
Rear panel Input Output connector and Binding Posts
Cable Multi Shacking Double Banana Plug: 10 nos.
3ft BNC Cable: 10 nos.
11. Internal Signal Generator covering the entire frequency range of the system.
12. Laser Intensity control option in laser interferometer for different type of reflective surfaces.
13. Data Management system with industrial PC with high performance CPU, compatible 8 GB RAM, and 1 TB hard disk drive, combined with latest DVD and CD recorder, USB, LAN high end graphics board with VIVO, Optical mouse, keyboard and UPS.

14. Windows 7 latest operating system and LCD Monitor 24" (diagonal) for the complete Data Management / visualization / Display system along with mounting racks and chassis.
15. Calibration standards for system parameter calibration and optimization.
16. Voltage Source: ± 210 V
17. DC and AC Current source: DC currents from 1nA to 100mA; AC currents from 1nA to 100 mA peak to peak (frequency up to 100 kHz); stable current sourcing into variable loads with high output impedance ($10^{14} \Omega$)
18. Oscilloscope: Analog Channels: 2, Bandwidth: 70 MHz, Maximum Sample Rate: 2 GSa/s

Software:

1. Complete software package consisting of packages for measurement and analyses of, out-of-plane motions, in-plane motions and topography in detail. The software should allow data acquisition, analysis, processing and visualization of MEMS / Micro system under measurement.
2. Internal arbitrary signal generator utilizing single channel generator board covering the entire frequency range and having range of standard waveforms (sine, pulsed, periodic chirp, white noise, random signals, sweep and arbitrary signals) including facility for user defined waveform.
3. Storage of time domain data that are acquired while scanning. Also, supported with processor which can convert time domain data to frequency domain data.
4. Software should have additional capability of stitching data gathered in parts of an object larger than the field of view.
5. Comprehensive software for data acquisition, analysis and visualization of out-of plane motions.
 - a. Data acquisition in time and frequency domain, digital filters, signal averaging and real time integration & differentiation in time and frequency domain.
 - b. Advanced point definition for arbitrary definition of measurement points and individual object properties, grid type (polar, hexagonal, and rectangular), grid density and rotation, object rotation poly-line objects, advanced edit mode for Polygon with zoom into area display functions.
 - c. Data analysis software package to provide complex spectral analysis according to well established acquisition Mode (for single points) and presentation mode (for all scanned points).
 - d. Display of scanning measurement in pseudo-colors, iso-lines and wire mesh displays. 3D animation with overlaid video image and saved as AVI file of operating deflection shapes or as graphic file.
 - e. 204800 FFT lines for each channel. All intermediate software component needed for these should be provided. The entire spectrum (magnitude and phase) to be stored at every point during scan.
 - f. Post processing and further evaluation of data by an open programming interface, versatile data export to modal analysis package (UFF, ASCII, and Binary).

6. Comprehensive software for data acquisition, analyses and visualization of in-plane motions:
 - a. Control of the stroboscopic illumination and the signal generator through software.
 - b. Provision of live slow motion video during the measurement.
 - c. Analysis of video sequences of the specimen.
 - d. Visualization of measurements of displacement, system resonance, transient responses, phase variation, amplitudes. Bode Plot graphs, step response plots, ring down plot and further analysis with a displacement resolution of 1 nm (sub-pixel image processing).
 - e. Graphs can be exported as image or ASCII file and sequences of images can be saved as AVI files.
 - f. Integrated signal generator software for specimen excitation with sine and pulse signals with excitation frequencies up to 1 MHz. Support for arbitrary, user provided excitation signals.
7. Comprehensive software for data acquisition and analyses and visualization of topography measurement:
 - a. User friendly control surface.
 - b. Scanner Controller for remote controlled positioning of the laser beam, control of piezo stage object illumination and microscope stroboscope controller.
 - c. For each scan point, topography measurement using auto focus method.
 - d. Live video of the CCD camera for sample adjustment and remote control CCD camera parameters e.g. the exposure time and contrast threshold.
 - e. Specifying the sequences for different contrast values.
 - f. 2D and 3D data representation including profile cuts and iso-line view with video overlay.
 - g. Selection of vertical, horizontal or free defined line-profiles and determination of 2D surface and form parameter.
 - h. Calculation of 3D surface parameter and determination of volumes.
 - i. Data evaluation by linear regression, polynomial fit, subtracting, averaging and masking functions. Measurement data can be exported as ASCII file.
8. Software compatible for Windows 7 latest operating system.
9. Software to allow high resolution up to 512 x 512 points high resolution scan.
10. Extended FFT resolution for different settings.
11. Visual basic compatibility for programming interface and retrieval of data.
12. Software maintenance for one year including providing new releases free of charge for the software provided. Perpetual license for the software.

Probe station:

1. Probe station to electrically excite the sample with the help of six manipulators along with 6 needle probes and holders. 6 inch chuck to house the MEMS devices with the precision movement control of X and Y, with 0.38 μm resolution and theta resolution of 0.7 μm (15 degree range). System should also have vibration isolation table.
2. Probe station with Helmholtz coil (replaceable setup) to excite the sample magnetically up to 5 Gauss with the precision control of magnetic field in X, Y and Z directions. The

magnetic setup should be housed in the probe station and should be optically accessible by LDV for mechanical characterization.

Helmholtz Coil Setup:

1. Customized Tri-axial Helmholtz coil (replaceable) which is compatible with probe station and provision of device placement in the coil.
2. Frequency range: DC to 100 Hz.
3. Maximum magnetic field 5 Gauss at DC with resolution of 100 nT.
4. Maximum magnetic field 5 Gauss at 100 Hz with resolution of 100 nT.
5. Controller to generate three magnetic field components from DC to 100 Hz (+/-B_x, +/- B_y, and +/-B_z), both constant and sinusoidal.
6. Control Software for the operation of controller and Graphics User Interface (GUI). GUI will display direction/intensity/frequency of magnetic field and data acquisition channel.
7. Automatic generation of data file in spreadsheet format containing arrays of parameters: (1) time t, (2) B_x, (3) B_y, (4) B_z, and (5) V_{out}.
8. 3-axis magnetic sensor for detecting local ambient earth field and automatic cancellation of local ambient earth field inside the Helmholtz Coils.
9. Electrical cables for Helmholtz Coils, 3-axis magnetic sensor, controller, computer, flat panel display and table to keep them, zero-field chamber for the 3-axis sensor.
10. Manual of Operation.

Documentation:

1. Vendor should provide complete documentation: Installation manual, Operation manual and Maintenance manual (detail information), in hard copy compatible to clean rooms as well as soft copy.
2. Technical papers, notes and brochure also to be provided.
3. Documentation/manuals shall include all Drawing/Schematic, Spare parts, catalogues and sub-vendor manuals.
4. All documents should be in English.

Support and maintenance:

1. System maintenance kit. (with detail information)
2. Vendor should commit to provide spares parts, accessories and support for 10 years after expiry of warranty period for the maintenance of system with supporting documents. A free upgrade if necessary should be assured.
3. The list of critical spares for three years should be provided as an option.

Warranty:

1. Standard 1 year warranty for the system from the date of installation and commissioning at CEERI, Pilani.
2. Specify the minimum time required to attend the complaint.

3. Only reputed original equipment manufacturers (OEM) of international Standard Should submit tender with supported documents. The system being supplied should meet international standards.
4. Vendor shall provide a list of customer along with their names, addresses, e-mail addresses, where similar systems are installed.
5. Resell or refurbished equipment would not be acceptable.

Infrastructure:

1. Vendor shall provide details of all utilities/facilities requirement in tender documents.
2. The system should compatible with Indian power standards.
3. All the international safety features should be available.

Installation and commissioning:

1. Vendor shall install and commission the equipment at CEERI, Pilani, within one month after receiving of equipment at CEERI, Pilani.

Process Demonstration:

1. Vendor shall demonstrate the operation of the equipment and carry out measurement on standard devices as per specification.

Equipment training:

1. Vendor shall provide one week equipment training and pre-shipment inspection, for two CEERI persons at vendors site before dispatching the equipment, at the vendors cost.
2. Vendor shall train two scientist/technical persons for 1-2 days at CEERI, Pilani, after installation and commissioning of equipment, at the vendors cost.
3. Vendor has to demonstrate all the requisite of the complete system during pre-inspection and commissioning at vendor's site.

Optional:

1. Differential capability with an additional laser beam (reference) for differential measurement for optically subtracting the signal from the reference beam from the measurement beam so that only the signal from the measurement beam is available at the controller.
2. Digital Gauss meter: Measuring DC and AC magnetic field strengths in all three spatial dimensions. Frequency range- DC- 700 Hz; Range- 10 μ G-5000 mG
3. Microscope objectives with high N.A and long working distance objectives lens of 5X, magnification.
4. Needle probes: 10nos.
5. Cable Multi Shacking Double Banana Plug: 5 nos.
6. 3ft BNC Cable: 5 nos.

FORMAT/QUESTIONNAIR FOR COMPLIANCE OF TERMS AND CONDITIONS

Tender No. :

Date :

NOTE

1. **Quotation will not be considered without submission of the format.**
2. If a particular question is not at all applicable please write NA in compliance part in Col. No. 3 below.
3. Kindly see the relevant terms & conditions of the tender document.

S. No.	Terms & conditions of Tender documents	Whether acceptable (say YES or NO (preferably use different colour ink for NO)	Deviation from tender terms, if any, with reasons for noncompliance or alternative conditions quoted for
	2	3	4
1.	a) Whether quotation is direct from Principal supplier/manufacturer or their own office in India (Please specify)		
	b) Whether quotation is being submitted by Indian Agent/authorized distributor/ dealer		
	c) Whether the agent is registered with DGS&D/NSIC/ Govt. Public Undertakings/ Central Autonomous Bodies and with CSIR Labs. / Institutes		
2.	a) Whether the Techno-commercial and price bids (for two bid tender system only) have been kept in separate envelopes duly marked with Techno-commercial Bid and Price Bids respectively.		
	b) Whether the tender Number, Due date and Opening dates have been written outside all the envelopes.		
3	Whether techno-commercial Bid contains EMD, technical literature/ leaflets, detailed specifications and commercial terms and conditions etc. as applicable.		
4.	a) Whether the required EMD is being submitted with the quotation		

	b) Please specify the form of EMD whether in the form of DD/Bank guarantee or Bankers cheque (Please mention No. date & amount of EMD documents) or Bid Security .		
5	a) If the price are on Ex-works basis or FOB/FCA (names port of shipment)		
	Whether specific amounts of expenses like packing forwarding, Inland handling documentation etc. have been mentioned in quotation separately in clear terms.		
6.	Whether prevailing rates of Sales Tax, Excise Duty and other Govt. levies (for indigenous supplies) have been given in quotation.		
7	Have you mentioned the validity period of the quotation as per our requirement.		
8	a) Whether the Price reasonability Certificate is submitted with quotation.		
	b) Whether copies of last two supply orders of the same item from other customers have been attached with quotation as per Annexure “H”		
	c) If there is any difference in price of last two orders & those quoted to us. If yes please give reasons for the same.		
	d) Whether supplied in CSIR Labs.		
9.	Have you gone through the specification Clause and complied with the same.		
10.	Whether the Make/Brand, Model number and name of manufacturer has been mentioned in the quotation and Printed technical literature/leaflets of quoted items have been submitted.		
11	Whether compliance statement of specifications has been attached with the quotation.		
12	a) Whether the delivery period for supply of the items has been mentioned		
	b) Whether mode of delivery and tentative size and weight of the consignment has also been indicated.		
13	Do you agree to the submission of Performance Bank Guarantee along with order acceptance and have you mentioned in your quotation about this.		

14	a) Do you agree with the payment terms for indigenous supplies?		
	b) Do you agree with the payment terms for imports supplies?		
15	Do you agree about the date of commencement of warranty period and its extension is necessary.		
16.	a) Who will install/commission and demonstrate the equipment at CEERI FREE OF COST.		
	b) Will you be able to do it within a month		
17.	Have you mentioned the guarantee/warrantee period in your quotation and do you agree with guarantee clause?		
18	Spare Parts		
19	After Sales services		
20	a) Do you agree that on receipt of material in damaged condition or short supply you will replace the same on CIF basis, free of cost pending the settlement of the Insurance claim?		
	b) Do you agree with the clause of physical inspection?		
21	Whether list of specific user's for the same item and model as quoted along with performance certificates from the users is submitted with offer.		
22.	Whether you agree to the penalty clause for late delivery & installation?		
23	Whether training to our Scientist/ Technical person will be given free of cost at your factory as well as at the time of Installation at CEERI, Pilani		
24.	a) Whether all the pages have been page numbered?		
	b) Whether quotation has been signed and designation & name of signatory mentioned.		
25	Do you agree to settle the issue through the sole arbitration of the DG, CSIR or his nominee?		

Signatures of the authorized signatory

Name and designation of the signatory

(TECHNO-COMMERCIAL BID)

1. Schedule to Tender No. :
2. Name of the Tenderer :
3. Time & Date of Receipt of Tender :
4. Opening of the Techno Commercial Bid. :
5. The tender shall remain valid for acceptance for 120 days from the date of opening of the tender

S. No.	Description of stores	Qty.	Place & Date by which delivery is to be made

TERMS & CONDITIONS :

1	EMD in the form of Bank Guarantee for Rs _____ in favour of Director, CEERI, Pilani (Raj.)	
2.	Packing	
3.	Forwarding	
4.	Sales Tax	
5.	Excise Duty	
6.	Installation & Commissioning	
7.	Freight	
8.	Insurance	
9.	Validity of quotation	
10.	Delivery Period	
11.	Mode of Delivery/Shipment	
12.	Guarantee/Warranty	
13.	Spare Parts	
14.	After Sale Service	
15.	Indian Agent's Commission	
16.	Payment	
17.	Inspection	
18.	Training	
19.	Penalty	
20.	Performance Security	
21.	Compliance Statement	
22.	User's List.	

STATION:

DATE:

(Signature of the Supplier with Office Stamp).

Address:
Tel. Address

ANNEXURE "E"

PRICE SCHEDULE FOR GOODS BEING OFFERED FROM ABROAD

Name of Bidder _____

Tender No. _____

1	2	3	4	5	6		7		8		9
Sl. No.	Item Description	Country of origin	Unit	Qty.	Unit Price		Total Price (5 x 6)		Charges for Insurance and Transportation to port/place of destination		Total Price (7+8)
					FOB Named port of shipment	FCA name place of delivery	FOB named port of shipment	FCA named place of delivery	Ocean	Air	CIF

Total Bid price in foreign Currency ----- in words.

Signature of Bidder

Name

Business Address

Note :

1. Indian agents name and address
2. Installation / commissioning & training charges if any
3. Cost of Spares
4. The Indian agent's commission shall paid in Indian Rupees only based on the Exchange Rate prevailing on the date of negotiation of documents
5. The cost of optional items shall be indicated separately

PRICE SCHEDULE FOR GOODS BEING OFFERED FROM INDIA

Name of the Bidder _____

Tender No. _____

1.	2	3	4	5	6	7	8	9	10	11
Sl. No.	Item Description	Country of Origin	Unit	Qty.	Ex-works, Ex-warehouse, Ex-show room of the self price (inclusive of all taxes already paid	Total Price Ex-works, Ex-warehouse, Ex-show room of the self price (inclusive of all taxes already paid (5x6)	VAT & other Taxes like Excise duty payable, if contact is awarded	Packing & forwarding up-to station of dispatch if any	Charges of Inland Transportation Insurance up-to Institute	Installation commission Ing and training charges if any

Total Bid price in foreign currency _____ in words.

Signature of Bidder

Name

Business Address

Note

1. The cost of optional items shall be indicated separately.
2. Cost of spares

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) of 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)

PREVIOUS SUPPLY ORDERS FORMAT

Name of the Firm _____

Order placed by (Full address of purchaser)	Order No. and date	Description and quantity of ordered equipment	Value of order	Date of completion of delivery as per contract	Date of actual completion of delivery	Remarks indicating reasons for late delivery, if any and justification for price difference of their supply order and those quoted to us.	Has the equipment been installed satisfactorily? (Attached a certificate from the Purchaser / Consigner)	Contact Person along with Telephone Number, fax no. and E-mail address

Signature and Seal of the Manufacturer/bidder _____

Place _____

Date _____

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 WEofhaving 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 the Common Seal of the said Bank thisday of20.....

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) (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 t he 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 and address of the Bank and address of the Branch.