INDIAN INSTITUTE OF SCIENCE EDUCATION AND RESEARCH-THIRUVANANTHAPURAM [IISER-TVM]

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IISER/PUR/PT/26/10

Date: 15th March 2011

INVITATION TO TENDER

Dear Sirs,

SUB: FUEL CELL TEST STATION

We invite Sealed Tenders for Equipment as per 'Schedule' attached.

Please quote your lowest rate and shortest delivery period. "Instructions to Tenderers" [Imports & Indigenous] attached are to be followed strictly.

YOUR OFFER IN SEALED COVER <u>SUPERSCRIBING TENDER NUMBER AND DUE DATE</u> SHALL REACH US ON OR BEFORE <u>4TH</u> <u>APRIL</u> 2011 (3 <u>PM</u>). LATE AND DELAYED OFFERS WILL NOT BE CONSIDERED UNDER ANY CIRCUMSTANCES.

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Thanking You,

Yours Faithfully CONSUL (PURCHASE & STORES

IISER-TVM PUBLIC TENDER NO. IISER/PUR/PT/26/10 SCHEDULE TENDER NO. USER/PUB/1212/10

I. <u>TENDER No. IISER/PUR/1212/10</u>

FUEL CELL TEST STAION :

Supply and installation of a completely integrated Fuel Cell Test station. The system should have the following features and specifications:

- Anode and cathode gas handling systems and stoichiometric control of flow rate of reactants.
- Humidifiers designed with automatic byepass.
- ▷ Programmable and precise electronic load.
- ⇒ PID temperature controllers for cell, heaters and humidifiers.
- System should be provided with standard PEM fuel cells for testing.
- System should be equipped with Potentiostat/Galvanostat and frequency response analyser modules for simultaneous measurements.

SPECIFICATIONS:

Anode flow rate range: 0-500 sccm

- Cathode flow rate range: 0-1500 sccm
- ⇔ Maximum operating temperature: 120°C
- ✤ Manual back pressure control: 0-5 bars
- Safety features including internal alarm on temperatures and pressures, external alarm and emergency shutdown to be provided.
- ⇔ Electronic load maximum power: 250 W
- ▷ Electronic load voltage range: 0-5 V « 0.1 % FS accuracy)
- ▷ Electronic load current range: 0-50A «0.5 % FS accuracy)
- PGStat & FRA specifications: Frequency range: 10µHz-10kHz; Current up to ± 800 mA at ±10 V or more with a compliance voltage of ± 20 V or more.
- The system should be capable of performing following techniques and should include all the softwares: Galvanostatic/Galvanodynamic, Potentiostatic/potentiodynamic, power/load techniques.
- Standard PEM Fuel cells of 50 Wand 100 W to be provided along with the system.
- ⇒ Installation, commissioning and on-site training to be provided.

Note:

- 1. LEAFLET/CATALOGUE OF THE ITEMS QUOTED SHALL ACCOMPANY THE QUOTATION WITHOUT FAIL.
- 2. ALONG WITH THE TECHNICAL DETAILS PROVIDE A TABULAR COLUMN INDICATING WHETHER THE MODEL OF THE EQUIPMENT OFFERED BY YOU MEETS THE SPECIFICATIONS BY INDICATING 'YES' OR 'NO'. IF 'YES' SUPPORT THE CLAIM WITH PROOF.
- 3. NAMES OF INSTITUTES WITH CONTACT PERSON AND TELEPHONE/ EMAIL WHERE SIMILAR EQUIPMENT SUPPLIED BY YOU IN INDIA [PREFERABLY SOUTH] SHALL BE MENTIONED IN THE BID.
- 4. THIS EQUIPMENT IS TO BE INITIALLY INSTALLED AT IISER TRANSIT CAMPUS [CET] AND LATER, WHEN PERMANENT CAMPUS OF IISER IS READY AT VITHURA [40 KM FROM TRIVANDRUM], THE SAME IS TO BE RELOCATED THERE. PRICES QUOTED FOR THE EQUIPMENT SHALL BE EITHER INCLUSIVE OF RELOCATING THE EQUIPMENT OR A SEPARATE QUOTE SHALL BE SHOWN FOR THE SAME [DISMANTLING, TRANSPORTING, INSTALLATION AND DEMONSTRATION AT THE NEW LOCATION].

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<u>IISER – TVM</u> <u>INSTRUCTIONS TO TENDERERS [INDIGENOUS].</u>

- 1. Tenders should be sent in sealed envelopes superscribing the relevant tender no. and the due date of opening. Only one tender should be sent in each envelope.
- 2. Late tender and Delayed Tenders will not be considered under any circumstances.
- 3. Sales Tax and /or other duties/levies where legally levies and intended to be claimed should be distinctly shown separately in the tender.
- 4. (a). Your quotation should be valid for a minimum period of 60 days from the date of opening of the Tender. Quotation with firm prices will be preferred.
 (b). Prices are required to be quoted according to the units indicated in the Invitation to Tender. When quotations are given in terms of units other than those specified in the tender form, relationship between the two sets of units must be furnished.
- 5. (a) Preference will be given to those tenders offering supplies from ready stocks and on the basis of delivery at IISER site.
 (b) Preference will also be given to the given to the given by a size of the size of th

(b) Preference will also be given to those who agree our payment terms of within 30 days of receipt and acceptance of the item at our site.

6. (a) All available technical literature, catalogues and other data in support of the specifications and details of the items should be furnished along with the offer.

(b) Samples, if called for, should be submitted free of all charges by the tenderer and the IISER shall not be responsible for any loss or damage thereof due to any reason whatsoever. In the event of non-acceptance of tender, the tenderer will have to take back the samples at his own expense.

(c) Approximate net and gross weight of the items offered shall be indicated in your offer. If dimensional details are available the same should also be indicated in your offer.

(d) **Specifications:** Stores offered should strictly conform to our specifications. Deviations, if any should be clearly indicated by the tenderer in their quotation. The tenderer should also indicate the Make/Type number of the stores offered and provide catalogues, technical literature and samples, wherever necessary along with the quotations. Test Certificates wherever necessary should be forwarded along with supplies. Whenever specifically mentioned by us the tenderer could suggest changes to specifications with appropriate reasons for the same.

- 7. IISER shall be under no obligation to accept the lowest or any tender and reserves the right of acceptance of the whole or any part of the tender or portion of the quantity offered and the tenderers shall supply the same at the rates quoted.
- 8. Corrections, if any, in the Quotation must be attested. All amounts shall be indicated both in words as well as in figures. Where there is difference between amounts quoted in words and figures, amount quote d in words shall prevail.
- 9. The tenderer should mention the name of his bankers, Sales Tax Registration, PAN number etc in the tender.
- 10. The authority of the person signing the tender, if called for, should be produced.
- 11. The purchaser reserve the right to accept or reject the lowest or any other offer in whole or in part without assigning any reason.
- 12. IISER being a Govt of India Educational and Research Institute, is exempted from payment of Excise Duty and Customs Duty under Notification No. 51/96- Customs dated 23rd July 2009. Also, we can issue Form16 as per VAT Rules.

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13. There is no EMD or Tender Cost.

IISER-TVM INSTRUCTION TO TENDERERS [IMPORTS]:

- 1. **PRICE:** The price quoted shall be firm. The terms of FOB/EXW/FCA/CIF/CIP etc shall be clearly mentioned.
- 2. AGENT & AGENCY COMMISSION: In case Tenderer is represented by any agent in India, their name and address shall be furnished. The amount of commission included in the price shall be clearly shown in the offer; which will be paid directly to the Indian Agents by purchaser in equivalent Indian Rupees. Incase Indian agents existing and their agency commission is not shown in the Tender, reasons for the same shall be clearly mentioned in Tender. Details of Indian agent's statutory registration shall be stated. If Agency Commission is paid by Principals in foreign currency, the reasons for the same and exemption from Enforcement Directorate in India shall also be provided.
- **3.** <u>**LEAFLET/CATALOGUE:**</u> Tenderer should furnish all necessary leaflet/catalogue etc., of the stores offered by him to enable the Purchaser to evaluate his offer correctly.
- **4.** <u>MODE OF DESPATCH:</u> Tenderer shall indicate the mode of dispatch (*i.e.*, Sea/Air-freight/Parcel Post, etc.) depending upon the normal mode of dispatch adopted by him for the type of stores offered for consideration of the Purchaser.
- 5. <u>COUNTRY OF ORGIN:</u> Tenderer shall indicate in his offer the country of origin of goods offered and the name and address of the manufacture.
- 6. **INSURANCE:** If insurance of the goods is felt necessary, the same shall be advised by the Tenderer in the offer.
- **7.** <u>**DELIVERY/SHIPMENT</u>:** The time for and date of delivery quoted shall be reasonable/realistic and shall strictly be adhered to incase of placing order on the Tenderer.</u>
- 8. <u>MODE AND TERMS OF PAYMENT:</u> Payment in full (excluding the amount of Agency Commission included in the price payable directly by the Purchaser to the Indian Agents in Indian Rupees) will be made immediately on presentation of the prescribed documents against SIGHT DRAFT or LETTER OF CREDIT.
- **9. WARRANTY:** Period of warranty and conditions shall be clearly mentioned in the Tender.
- **10. GENERAL:** The Tenderer shall also be complied with the following:
 - a. Mention your Banker's name and address.
 - b. Show approximate net and gross weight and dimensions of packages/ cases.
 - c. Furnish list of recommended spares for satisfactory operation for a minimum period of one year if the quote is for Plant & Machinery, Equipments etc.
 - d. Details of any technical service, if required for erection assembly, commissioning and demonstration.
 - e. Conform that the prices quoted are inclusive of all taxes, levies, duties arising in the tenderer's country.
 - f. The offer is valid for a minimum period of 90 days from the due date of opening of the tender.
 - g. Samples, if called for, will be sent free of all charges.
 - h. Late tenders and Delayed will not be considered.
 - i. Offers made by Indian Agents on behalf of their Principals, should be supported by the Proforma Invoice of their Principals.
 - j. The authority of person signing the tender, if called for, shall be produced.
 - k. The purchaser reserves the right to accept or reject the lowest or any other offer in whole or in part without assigning any reason.

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