Sealed Quotations (Technical and Financial in separate appropriately marked envelopes) are invited for purchase of Metal Hydride Storage system for Hydrogen storage for Photovoltaic / Fuel Cell Hybrid system being installed in Photovoltaic lab.
The detail specifications are given below.
The sealed quotations should reach the address mentioned below latest by 5:00 PM on Monday, Aug. 12, 2013:
Prof. V.Dutta
Photovoltaic Lab., Centre for Energy Studies
I.I.T., Hauz Khas
New Delhi 110016, INDIA.

TECHNICAL SPECIFICATIONS of ELECTROLYZER SYSTEM

Name of work:
(1) Supply and (2) Installation, Commissioning and Testing of Electrolyzer and accessories for Photovoltaic Laboratory at Center for Energy Studies, Block V in IIT Delhi.

BRIEF SCOPE OF WORK:

The scope of the contractor shall be, including but not limited to design, supply and installation of the required Electrolyzer with accessories, protection, communication system and peripherals. Testing and commissioning of entire Electrolyzer in totality and ensuring the performance, warrantee, annual maintenance for 05 years etc.

BROAD DESCRIPTION OF WORK:

The electrolyzer shall be a part of the Fuel-Cell system meant to power the loads of the designated area (Photovoltaic Lab, CES, Block V, IIT Delhi). The FC system is envisaged to provide 1kW. The electrolyzer shall utilize the power from the captive grid for generating hydrogen to be stored in the metal hydride. The electrolyzer shall be powered by the AC captive grid of the designated area. The electrolyzer should have the provision to communicate, through standard interfaces (eg. RS 232, USB etc.) with an external central controller.

TECHNICAL REQUIREMENTS:

1. Electrolyzer

i) The desirable power rating of the Electrolyzer is 700 W and the acceptable range is 400W to 1000W.
ii) Standard working pressure should be > 5 bar. Please indicate if a higher working pressure can be provided.

iii) Production rate should be ≥ 50 NL/h

iv) Hydrogen purity should be ≥ 99.94% at 30 bar without hydrogen purification unit

v) Power supply should be 220VAC 50/60Hz

vi) The desirable Water Tank Volume is ≥ 5L

vii) Sensors and protection systems should be provided

viii) Local controller with communication mechanism with the external controllers should be provided.

ix) Suitable maintenance mechanisms should be present

Certificates and supporting documents:

All the supporting test reports and quality/performance certificates of IEC/BIS/IS (as applicable) should be submitted.

All the supporting circuit diagrams, control details and specification sheets should be submitted.

Terms and Conditions

1. IIT Delhi is exempted from paying custom duty under notification No.51/96 (partially or fully) and necessary “Custom Duty Exemption Certificate” can be issued after providing following information.
   a. Shipping details i.e. Master Airway Bill No. and House Airway No. (if exists)  
   b. Forwarder details i.e. Name, Contact No., etc.

   Custom Duty Exemption Certificate will be issued to the shipment in the name of the Institute and Bills of Entry should be submitted to IIT Delhi later on.

2. Either the Indian agent on behalf of the Principal/OEM or Principal/OEM itself can bid but both cannot bid simultaneously for the same item/product in the same tender. If an agent submits bid on behalf of the Principal/OEM, the same agent shall not submit a bid on behalf of another Principal/OEM in the same tender for the same item/product.

3. If the bidder is an authorized dealer of any manufacturer, the authorized Indian dealership certificate from the principles should be enclosed. Similarly, proprietary certificate for proprietary items should be provided.

4. IIT Delhi is exempted from paying Excise Duty and necessary Excise Duty Exemption Certificate will be provided for which following information are required.
   a. Quotation with details of Basic Price, Rate & Amount on which ED is applicable.

5. Please quote prices of imported items at FOB (Freight on Board) IIT Delhi inclusive of all taxes, freight, delivery, installation and onsite training charges. The quotation should provide the total price of the system including all taxes and transportation charges.

6. In case IIT Delhi is imposed with demurrage charge due to import on CIF, the entire demurrage
charge has to be borne by the Indian Agent of foreign supplier.
7. Three years comprehensive warranty be provided and AMC price beyond 3 years should be mentioned separately.
Payment Options:
Letter of Credit: 90% payment against shipping documents & balance 10% after satisfactory installation.
OR Sight Draft: Payment against documents through bank.
8. Delivery period: within 1 month from the issue of supply order.
9. Warranty: at least 3 years onsite warranty should be provided.
10. The quotations must have validity of at least three months.
11. The products will be used for educational purposes. Any applicable academic institution discounts should be offered and stated clearly.
12. Authority of IIT Delhi reserves the right to reject any or all quotations without assigning any Reasons.