

**INSTITUTE FOR PLASMA RESEARCH
NEAR INDIRA BRIDGE, GANDHINAGAR HIGHWAY
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GUJARAT STATE
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TENDER NOTICE NO. IPR/TN/PUR/023/08-09 dated 20-2-2009

Sealed tenders are invited in **TWO PARTS** from reputed and eligible parties for Design, Analysis, and optimization of Process Integration and Safety Analysis for Lead-Lithium cooled Ceramic Breeder (LLCB) Test Blanket Module (TBM) System.

This tender notice with eligibility criteria is also available on IPR website www.ipr.res.in/purchasetenders.html. Interested and eligible parties may contact the Purchase Officer along with a **tender fee of Rs.200/- (Non refundable)** in the form of Demand Draft from any nationalized/scheduled bank drawn in favour of **Institute for Plasma Research** and payable at **Ahmedabad** for the tender documents. Tender documents will be issued upto **17-3-2009**.

A Technical Meeting to provide clarifications in the scope of work is being arranged on 21st March, 2009 (Saturday) between 11.00 a.m. and 12.30 p.m. at IPR campus. Those who are Interested to attend the meeting on 21-3-2009 are requested to furnish all details like name and address of firm, contact person with phone number, email id and fax number etc. to the Purchase Officer, IPR before 18-3-2009.

Tenders in two separate sealed envelopes - {Part-A – Technical Bid, Commercial Terms and conditions and EMD for Rs.20,000/- in one envelope and Part-B – Price Bid in another envelope} superscribing the envelope with above tender no., date, due date and brief description of tendered item should be submitted to the Purchase Officer at the above address by 1.00 p.m. on **9th April, 2009**. Part-A (Technical Bid, Commercial Terms and conditions and EMD for Rs.20000/-) received upto 1.00 p.m. on **9-4-2009** will be opened on the same day at **2.30 p.m.** in the presence of attending tenderers. Tenderers who wish to participate in the tender opening should carry authorization letter from their organization.

ELIGIBILITY CRITERIA:

- (i) The vendor shall have capability to design process equipment and instruments for gas systems for temperatures specified for the TBM. Please provide the suitable examples.
- (ii) The vendor shall have capability to design process equipment for liquid metal systems for temperatures specified for the TBM. Please provide the suitable examples.
- (iii) The vendor shall have capability to make mechanical design drawings and tender specifications for equipment like heat exchangers, piping, valves, pumps, etc. Please provide the suitable examples.
- (iv) Vendor should have design center with minimum 5 work stations equipped with ANSYS (version 10.0 or latest), CATIA (V5 R16 or latest) and latest version of HyperMesh.
- (v) The vendor should be working as consultant for mechanical system design, solid modeling and Finite element analysis (FEA), preparation of engineering design documents and drawings for last 5 years and have prior experience in generating tender documents for Process system fabrications and equipment procurement
- (vi) The vendor should have carried FEA of mechanical structures and systems, thermal analysis, stress evaluation, fluid and hydraulic analysis, electromagnetic analysis, seismic analysis (multi excitation point-for long pipes) and their coupled analysis.
- (vii) The vendor should have experience of executing a wide range of activities associated with the piping design and development of large size mechanical systems.
- (viii) The vendor should have experience of executing the "Accident safety analysis". Preference will be given to those who have experience in carrying out analysis for Nuclear Systems.
- (ix) The vendor should also be equipped with a design and analysis standards and codes (particularly ASME Section III, Section VIII Div. 2, and B31.3) for ready reference and experience in design using RCC-MR is preferable.
- (x) The Vendor must have executed single contract of similar kind worth of minimum Rs 25 lakhs in last three years, irrespective whether the offer is for one or more engineering services.
- (xi) Annual turnover of the vendor for the last three years should be minimum Rs 80 lakhs, irrespective whether the offer is for one or more engineering services