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सत्यमेव जयते

भारत सरकार

Government of India

भाभा परमाणु अनुसंधान केन्द्र

Bhabha Atomic Research Centre

उच्च तापमान रिएक्टर अनुभाग

High Temperature Reactor Section

हाल - 7,  
ट्रोम्बे,  
मुंबई - 400 085,  
HALL No. 7,  
TROMBAY,  
MUMBAI - 400 085

Ref. No.: HTRS/KKP/MF/09/2021/ **I/4780**

Date: **07** 11-2021

Dear Sir(s),

Sub: **2D P&ID drafting using CADIAN as per specification HTRS/KKP/2021/MF/09**

Sealed quotations are invited by Head, HTRS on behalf of the President of India for the execution of the following job:

**2D P&ID drafting using CADIAN as per specification HTRS/KKP/2021/MF/09**

**General Notes:**

1) **Two Part Tender:**

Bidder shall provide two separate bids i.e. technical bid and price bid in two separate envelop put together inside a single envelop. Technical bid will be opened first and after evaluation of technical suitability, price bid will be opened. Price bid of those bidders who are technically not suitable, shall not be opened.

2) The bidder shall take all the necessary safety precautions during work and they shall be responsible for any damage or accidents. No compensation in any case will be paid by the Department to the bidder.

3) The work shall be subject to inspection by the purchaser or his authorised representative. Work shall be conducted under their supervision and to the full extent of satisfaction.

4) **The work shall be completed within 12 months from the receipt of work order.**

5) Sealed envelope containing quotation must reach to following address on or before **22/11/2021**, by speed Post only. The Bids will be opened on **23/11/2021**.

Address for sending quotations:

**Head, High Temperature Reactor Section,  
RED office, Engg. Hall No. 7, BARC, Trombay,  
Mumbai-400085**

**(Kind Attention: Shri K.K. Panda)**

6) The above mentioned **Reference Number** and **Date and Time of Opening of Bids Must Be Clearly Mentioned on the Sealed Envelope** containing the quotation.

7) Payment will be made as per rules, after the completion of the work to purchaser's satisfaction against submission of original bill in triplicate and advance stamped receipt.

8) Income tax @2% and Educational cess as applicable will be deducted from the bill.

- 9) Any delay which is attributable to the contractor is liable for penalty @ ½ % per week (Max 5%).
- 10) Bidder shall mention their PAN and GST Nos. in the quotation.
- 11) The offer shall be kept open for acceptance for a minimum period of 45 days from the date of opening of the quotation.
- 12) Head, HTRS reserves the right to accept/reject any or all the quotations received without assigning any reason whatsoever.
- 13) The bidder shall furnish the detailed information regarding whether an ex-employee of BARC is working in their organisation or whether any of their relative is working in DAE/BARC or whether he/she is an ex-employee of DAE/BARC. In case of absence of such information, or wrong information the quotation or contract is likely to be rejected or cancelled.
- 14) Payment shall be made only after completion of the job, as per rules. Part payment is not allowed.

#### CONFIDENTIALITY CLAUSES:

##### I. Confidentiality:

No party shall disclose any information to any third party concerning the matters under this contract generally. In particular, any information identified as "Proprietary" in nature by the disclosing party shall be kept strictly confidential by the receiving party and shall not be disclosed to any third party without the prior written consent of the original disclosing party.

This clause shall apply to the sub-bidders, consultants, advisers or the employees engaged by the party with equal force.

##### II. "Restricted information" categories under Section 18 of the Atomic Energy Act, 1962 and "Official Secrets" under Section 5 of the Official Secrets Act, 1923:-


Any contravention of the above-mentioned provisions by any bidder, sub-bidder, consultant, adviser or the employees of a bidder will invite penal consequences under the aforesaid legislation.

##### III. Prohibition against use of BARC's name without permission for publicity purposes:-

The bidder or sub-bidder, consultant, adviser or the employees engaged by the bidder shall not use BARC's name for any publicity purpose through any public media like Press, Radio, T.V. or Internet without the prior written approval of BARC.

Thanking you,

Yours Sincerely,



(I.V. Dulera) 28/10/2021

Head, HTRS, RDDG

For and on behalf of the President of India  
(The Purchaser)

आई. वी. दुलेरा/I. V. DULERA  
अध्यक्ष, उच्च ताप रिएक्टर अनुभाग  
HEAD, HIGH TEMPERATURE REACTOR SECTION  
रिएक्टर अभिकल्पन एवं विकास वर्ग  
REACTOR DESIGN & DEVELOPMENT GROUP  
बॉम्बे प्रयोगशाला अणुसंशोधन केंद्र/BARC/ATOMIC RESEARCH CENTRE

Enclosures:

Specification (2 pages)

### Technical Specifications

1. The scope of work involves 2D drafting using CADIAN software. The following table summarises the quantity of these digital format drawing sheets as deliverables. The bidders are required to provide their quotation in the following format.

S. No	Deliverable items	Unit	Quantity
1	A0 equivalent drawings	Nos.	25

2. The Job involves 2D Process & Instrumentation Drawing (P&ID) drawings using CADIAN software.
3. A minimum of **one draftsman** of the contractor is required to complete the work. The draftsman should be trained in the usage of CADIAN or AUTOCAD for 2D P&ID drafting, with at **least 2 years experience** in this area (As per ISA5.1 guidelines for instrumentation symbols & identification).
4. All the work has to be finished in **12 months**.
5. Inputs provided by the client will be in the form of hand drawn sketches. The contractor is required to convert this into 2D P&ID drawings as instructed by the engineer in charge (EIC).
6. Review of the work shall be carried out by the EIC in three stages (S0, S1 and S2). Each stage of review, the contractor will hand over the digital versions of the CAD Drawings to the EIC. The modifications made by the EIC will have to be incorporated by the contractor before submission of review for the next stage.
7. The contractor should carry out a self-review and offer a refined work to the Client for review. If Drafting errors are found to be more than around 10% of the work carried out at each stage of review, such Drawings will be returned to the contractor for correction and re-submission for the same stage of Review.
8. At each stage of Review, the inputs provided by the Client may be modified by around 20%. The resulting rework and modifications, wherever applicable, has to be carried out by the Contractor free of cost and incorporated it in the work before the next stage of submission for Review. This does not include the rework/modifications necessitated due to errors, lack of understanding, negligence etc. by the contractor.
9. Based on the job, maximum space utilisation & discretion of the EIC, drawings can be prepared in different sizes, i.e. A0, A1, A2, A3 and A4. Conversion of A1, A2, A3 and A4 drawings into A0 size drawing (and in between these sizes) shall be considered as below:
  - a. A0 size drawing = 1.85 A1 size drawing
  - b. A0 size drawing = 3.50 A2 size drawing
  - c. A0 size drawing = 6.30 A3 size drawing
  - d. A0 size drawing = 11.70 A4 size drawing
10. The work at purchaser's site can be executed only on working days between 09.30 hrs and 18.00 hrs.
11. The bidder shall comply with all the necessary security requirements for entry into CFB, BARC premises. Photo copy of valid Police Verification Certificate (PVC) for the supervisor & technician must be submitted with the bid. Entry permit will be issued as per the contractual rules BARC, Mumbai and contractor must comply all the requirements as per the existing rules of BARC.
12. The bidder should ensure that on each working day the entry and exit security formalities of the personnel at BARC North Gate is taken care of without requiring the presence of the purchasing officer.
13. Bidder has to make his own arrangement for transportation of his manpower to the work place.
14. Bidder may clarify any doubt about the work by contacting Shri. K.K. Panda, Ph: 022-25596870, Email: kkpanda@barc.gov.in
15. A log is prepared for every work assigned, completed and signed by Engineer In charge.
16. At the time of bid technical evaluation, a **trade test** will be arranged by the client at BARC premises at Trombay, Mumbai-40094. Instead of a physical trade test at BARC, an online trade test using Google meet can also be arranged. The choice of physical or online trade test is entirely at the discretion of the Client.

- a. The vendor shall arrange the availability of their proposed draftsman for this test at no cost to the Client.
- b. In case of physical trade test the proposed draftsman has to come to BARC North Gate and conform to all security restrictions for issuing a gate pass as required by BARC security.
- c. In case of an online trade test, the bidder has to arrange for PC with webcam and a working copy of AutoCAD/CADIAN installed and connected to the internet. The PC should also have google chrome installed.
- d. As a part of this exercise, a typical set of input documents will be shared by the client with the vendor's draftsman. The bidder's draftsman is required to create an A0 drawing as per input documents.
- e. **If any draftsman fails the trade test, the bidder will fail in technical evaluation.**

#### 17. Note to Bidder

- a. All the taxes, duties and other government levies shall be clearly mentioned in the offer.
- b. The bidder must mention the educational qualification & experience details of the persons being considered in their quotation.
- c. Payment will be made based on the work completed at the end of the tenure of the contract only. No part payment will be paid.
- d. Proof of ability: The bidder shall provide, along with the quotation, adequate proof of show their capability to execute the job such as copies of the previous purchases orders. Specific mention should be made of previous supplies made to BARC, along with names and contact details of indenting officers and the purchase order numbers.
- e. Quotations found incomplete in any respect and also deficient in clarity about technical and commercial terms will be summarily rejected.

18. **Technical evaluation:** Bidders are required to give their technical quotations in the format given in Table-1, with supported documents.

- a. All documents required in Table-1, should be attached along with the technical bid. In case the copies of the document are not attached, the offer may be liable to rejected. There will be no communication from the purchaser regarding any clarification further.

**Table-1 Technical quotation format**

Sr. No.	Scope of supply	Requirement for qualification	Bidder's Response
1.	P&ID draftsman	Name	
2.		PVC photo copy attached	Yes/No
3.	Draftsman qualification	Certificate photo copy attached	Yes/No
4.	Work profile for the last two years	Type of job carried out	Mechanical components drafting/Heating ventilation and air conditioning/ Process & instrumentation
5.		If P&ID is yes, what standard was followed for drafting?	ISA 5.1/ANSI/Other

19. **Commercial evaluation:** Bidders are required to give their commercial quotations in the format given in Table-2, with supported documents.

**Table-2 Commercial quotation format**

S. No	Deliverable items	Unit	Quantity	Basic rate per unit (Rs.)	Total Basic cost (Rs.)
1	A0 equivalent drawings	Nos.	25		
Taxes					
Total cost					