

दुराण :
TELEPHONE :
तार : बार्क-मुंबई, चेम्बूर.
TELEGRAMS : BARC-MUMBAI, CHEMBUR.
फेक्स संख्या : २१-२२-२५५० ५१५१
FAX NUMBER : ०१-२२-२५५० ५१५१



दोंबे,
मुंबई-४०० ०८५,
TROMBAY,
MUMBAI-400 085

भारत सरकार
GOVERNMENT OF INDIA
भाषा परमाणु अनुसंधान केंद्र
BHABHA ATOMIC RESEARCH CENTRE
Refuelling Technology Division

Telephone: 25595198
Telefax: 25505311

Ref.-RTD/KKV/MF/ 12 / 2018

Oct., 31 2018

To,
The Supplier,

Sub: Enquiry for Quotations for Preparation of assembly and detail drawings as per Engineering requirements by outside agency

On behalf of President of India, Head, Refuelling Technology Division, Bhabha Atomic Research Centre, invites sealed quotations for Preparation of Design Drawings as per Engineering requirements by outside agency as per given technical requirement.

S. No.	Description of Job	Completion period
1.	Preparation of assembly and detail drawings as per Engineering requirements in DWG format, inside of BARC premises.	3 Months from the date of issue of work order

1. Introduction:

This specification establishes the requirements for execution of drafting work inside BARC, Trombay, Mumbai. Assembly and detail drawings of mechanical components/mechanisms are required to be made on computer in CAD software from A0 to A3 (all) sizes. The drawings shall be made based on the sketches/drawings/written instructions furnished by RTD, BARC. BARC will provide necessary hardware, software and stationeries for carrying out the job.

2. Scope of work:

1. Preparation of assembly and detail drawings in DWG format using CAD inside of BARC premises. The drawings shall be made based on the sketches/drawings/written instructions furnished by BARC engineers.
2. Total around 150 Nos. of drawings in different sizes of A0, A1, A2 & A3 shall be prepared & completed. It includes preparation of new drawings and corrections in few already made drawings.

3. Apart from drawings, 3-D modeling of each parts and assemblies also to be made.
4. In order to complete the drawings in all respect the contractor shall deploy **2 nos of draughtsman** for a period of **3 months** at our Design Office, Hall-7, BARC, Trombay, Mumbai.
5. All jobs (preparation of drawings, printing etc) are to be carried out inside BARC premises unless otherwise required. BARC will provide necessary hardware, software and stationeries for carrying out the job.
6. In addition to making new drawings the draughtsman should incorporate comments received from BARC on the drawings at different stages of BARC review.
7. Taking test prints for review and final prints for approval at different stages.
8. Soft copies of all the drawings to be saved on CD with proper tagging and sequence.
9. The completed printed and scanned copy (in CD) final drawings are to be handed over to concerned BARC engineer within the completion period of the work order.

3. Drafting Requirements:

1. The drawings shall be of the specified sizes i.e. A0, A1, A2 and A3 in accordance with IS 696-1972. Drawings to a large scale will have preference over those to a smaller scale.
2. All drawings shall be prepared in metric system using Third Angle Projection, using CAD software. Relevant latest IS standards shall be followed for preparing the drawings.
3. The drawing sheet template shall be provided by BARC. Separate drawings shall be prepared for each part and sub-assembly of the equipment.
4. Orientation of components/ parts shown in DD's shall preferably be the same as in assembly drawing. Sufficient number of views and section details shall be provided in the drawing for better understanding and clarity.
5. The detailed drawings of the components shall incorporate complete dimensions, fits & tolerances, geometrical tolerances, dowelling, chamfers, fillet radii, relief grooves, weld details etc.
6. All drawings shall have a title block of a layout as approved by BARC. In addition to the information provided in the title block, each drawing shall have space for noting the revisions, if any, made in the drawing.
7. The drawings shall be prepared under the guidance and supervision of engineers of BARC. All the technical inputs required for preparation of drawings will be provided by BARC.
8. All drawings numbers shall be as per USI provided by BARC engineer.
9. All soft copies of drawings shall be stored in computer in proper order and folder..
10. The Contractor shall submit drawings for BARC approval only after thoroughly checking drawings at his end. The Contractor will not be compensated for any

rework on account of his mistakes. A drawing will be considered complete when same is approved by competent authority.

11. 3-D models shall be prepared for assembly and all parts. Soft files shall be submitted to BARC.
12. Isometric views shall be shown in detail and assembly drawings for better clarity.

4. Job requirements:

1. The contractor shall deploy minimum two qualified draftsman (NCTVT or equivalent diploma in CAD work, experience more than 5 years) who has also the knowledge of standard mechanical components, geometrical tolerance and IS standards for drawings and standard components to carry out the work.
2. Draughtsman shall have knowledge of 3-D modeling and AutoCAD.
3. In case the contractor's draftsman is found unsuitable by RTD for the assigned job as mentioned, the contractor shall provide its immediate replacement acceptable to RTD, BARC within one week from the date of notice issued by RTD.
4. The Contractor's draftsman/personnel will work on BARC's working days (Monday to Friday excluding BARC declared Holidays) from 09:00 AM to 6:00 PM. Modification in working hours & working days will be in scope of the Client.

5. Place of work and contact person:

Engineering Hall-7, BARC, Trombay, Mumbai-400085
Sh S. Roy, Head SED &FSF, RTD & Sh K.K. Verma, SO/E, RTD

6. Infrastructure Provided:

1. All work covered in the scope of supply, is to be carried out at premises inside BARC, Trombay, Mumbai-400085. The Contractor will not be permitted to take the work (in any form) out of the BARC premises.
2. BARC will arrange for necessary hardware (PC) & software, ^{printer & stationery} for carrying out the job. The Contractor will not be permitted to bring any hardware or software into BARC premises.
3. BARC will arrange seating arrangement for the personnel.
4. Canteen facility is available at the premises on payment basis.
5. Private transport is not allowed within BARC. Bus-Shuttle services are available for transport from North Gate to Hall-7.

7. Delivery:

Job completion period **3 months** from the date of work order.

8. Commercial Terms:

1. **Payment:** Full and final payment will be made after satisfactory completion of the entire job only and on production of bill in duplicate, advanced stamped receipt and work completion certificate by RTD, BARC. Release of advance or interim payment cannot be considered.
2. **Taxes:** Income tax @ 2% and applicable surcharge will be deducted from your bill. TDS certificate to that effect will be issued by BARC, if so desired.
3. In case any extension in the job completion period is required, the contractor has to write to Head, SED&FH Section, RTD, BARC giving proper justification for the delay & it should be approved by concerned authority.
4. **Time:** shall be the essence of the contract. If the contractor fails to comply with this condition, he shall be liable for penalty @ ½% per week (maximum 5%). Provided always that the entire amount of Compensation to be paid under the provision of this clause shall not exceed 5% of the estimated cost of the work as shown in the tender. The contractor has to abide by the time allotted for the contract.

9. Security & safety Instructions:

The Contractor has to submit the list of names of the personnel, their designation and the role each of them will play in meeting the scope of supply at the Client's venue. All personnel of the Contractor who will work at the Clients premises, should necessarily have identity documents issued by the Contractor, valid identity documents like Aadhar-Card, PAN Card etc & Police Verification Certificate. All necessary documents required by BARC Security, including the foregoing need to be arranged by the Contractor at no expense to the client.

1. The contractor person shall follow strictly the security regulations prevailing in BARC especially in regard to working hours, movement inside BARC premises and entry permits.
2. Identity cards to concerned person will be issued after verification of their antecedents.
3. It will be the responsibility of the contractor to produce police verification certificate for his persons before seeking permission to commence any work inside BARC premises. All I-cards, temporary entry permits issued to the contractor / contractor's personnel shall be surrendered after completion of work.
4. Persons deployed by the contractor at site shall be physically and mentally fit.
5. Above work calls for adherence to safe work practice. BARC shall not be responsible for any damage, injury, death etc. of any contractor's personnel under any circumstances. No compensation claim shall be admitted in this regard.
6. Mobiles, Cameras, Lap-Tops, Tablets, USB-Drives, tools, CD etc. are not allowed to be carried into the Clients premises. Locker/Deposit facility is not available at the

gate, hence, such items are not to be carried by the Contractor's personnel.

7. The contractor's Personnel will be issued a pass to enter a specified set of the client's buildings. These personnel should not loiter around within the campus of the client.
8. Email, SMS & Internet facility will not be accessible to the Contractor's personnel.

10. General:

- 1.1 Supplier should have GST registration. He should clearly write GST No. and PAN No. in his quotation, otherwise the quotation will not be considered.
- 1.2 Firm willing to bid for above mentioned job shall have been vetted by security section of BARC.
- 1.3 The past experience of the firm in similar nature in BARC/DAE shall be made available with work order copy and satisfactory completion certificate from the user. Also the list of ongoing jobs inside BARC premises with expected completion period shall be provided if any.
- 1.4 The quotations in a sealed envelope should reach the following address on or before **November 14th, 2018, by 1600 hrs.** The envelope **must be sent by "speed post" only** to reach within above mentioned period. Any other mode of delivery is not acceptable. The envelope should be marked "**Quotations for Preparation of Design Drawings as per Engineering requirements**". Following information shall be clearly written on the envelope containing the quotation.
- 1.5 **Ref. no. BARC/ RTD/KKV/MF/12 /2018, Due date: 14/11/2018 till 15:00 hrs.**
- 1.6 The Bids will be opened on or after **15/11/2018 at 14.00 hrs.**
- 1.7 Quotation should be printed on letter head.
- 1.8 The address on envelop should read as follows:

**Attention: Shri. K. K. Verma, SO/E, RTD
Refuelling Technology Division,
Engineering Hall-7,
Bhabha Atomic Research Centre,
Trombay, Mumbai- 400085**

- 1.9 Validation of offer: Validity of the offer shall be 90 days from the date of opening of quotation.
- 1.10 Quote Format: Bidder is requested to quote for the above job on lump-sum basis with mention of applicable taxes. Quotation price format will be like Rs.(Basic cost) + Applicable Tax (GST) = Rs.....(total cost).
- 1.11 Offer of Firm: Offer of those firms, who do not submit their quotation as per the details given in the technical requirement and incomplete quotation in any respect

shall not be considered.

- 1.12 Department reserved the right to extend the date of opening the quotation.
- 1.13 The bidder shall furnish the detailed information regarding whether an ex-employee of BARC is working in their organization 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.
- 1.14 Proof of ability: A brief list of similar jobs executed, if any, and name of the organization to be furnished.
- 1.15 For any clarification regarding the job bidder shall contact **Shri K. K. Verma Ph.022-25591468.**

Thanking you,

Yours Sincerely,



(S. Raghunathan)
Head, Refuelling Technology Division