



Government of India
Bhabha Atomic Research Centre
Atomic Fuels Division

Ref: BARC / Tender / AFD / ESAS / 2021 /

December 30, 2021

Tender Enquiry

Sub: Works contract for "Fabrication, Supply and Erection of ACP Ceiling in Characterization Labs, PVC Flooring of Common Passage Areas, Aluminum windows and Partition Wall at AFD, as per specifications"

Sealed quotations are invited for & on behalf of the President of India for "Fabrication, Supply and Erection of ACP Ceiling in Characterization Labs, PVC Flooring of Common Passage Areas, Aluminum windows and Partition wall at AFD, as per specifications".

The scope of work, general description and salient terms & conditions are given hereunder.

1. Scope of work and general description

The scope of work involves Fabrication, Supply and Erection of:

- 1.1 ACP Ceiling in Characterization Labs
- 1.2 PVC Flooring of Passage Areas (from Room No. 4 to 12 & near AFD main Rolling Shutter)
- 1.3 Aluminum Windows at NDT building (Two Nos.)
- 1.4 Extension of Partition wall of the Drivers Room

2. General description

2.1 ACP Ceiling in Characterization Labs

The ACP Ceiling shall be provided in the Characterization Labs.

The vendor shall have to design, fabricate and erect the appropriate structural steel grids to embrace strength & robustness to the ACP Ceiling.

The salient details are given the respective paragraphs of the Technical specifications.

2.2 PVC Flooring of the Common Passage Area

The floor of Common Passage from Room No. 4 to Room No. 12 & near AFD main Rolling Shutter, shall be covered with the specified PVC Flooring sheets.

The salient details are given the respective paragraphs of the Technical specifications.

2.3 Aluminum Windows at NDT building (Two Nos.)

Provisions for Two Nos. of Aluminium Windows (for Window ACs) shall be made at NDT building, as per details given in the technical specifications.

2.4 Extension of Partition wall of the Drivers Room

The Top side of partition wall of Drivers Room, shall be extended up to ceiling using Hardener Sheets, as per details given the technical specifications.

3. Technical Specifications

These Technical specifications are meant for the above mentioned work. The dimensions and quantities given are approximate and may slightly vary during the actual work execution.

3.1 ACP Ceiling in Characterization Labs

Total Ceiling Area of the Characterization Labs : 62 m².

The vendor shall have to design, fabricate and erect the appropriate structural steel grids to embrace strength & robustness to the ACP Ceiling. The design load may be taken as 1 kN / m².

3.2 PVC Flooring of the Passage Area

The Common passage Area shall be covered with 2 mm thick PVC Flooring Sheets.

Total floor Area of common Passage : 250 m²

3.3 Aluminum Windows at NDT building (Two Nos.)

Size of the Windows	:	2200 x 1200 mm
Quantity	:	2 Nos.
Material of construction	:	Standards Aluminium Sections

3.4 Extension of Partition wall of the Drivers Room

Size of the Extension wall	:	5600 x 600 mm
Material of construction	:	Standard Aluminium Sections & Hardener sheets

4. Fabrication

All fabrication shall be as per ASME Section VIII Div. 1

- 4.1 All welding shall be by SMAW only. Welding procedure and welders shall be qualified as per ASME SECTION IX Prior to production welding.
- 4.2 All weld seams shall be ground flush after completion of welding and prior to final DPT and Radiography.
- 4.3 Prior to actual production, fabrication drawings and welding procedures shall be approved by the purchaser.

5. QAP (Quality Assurance Plan)

Supplier shall submit a documented procedure for Quality Assurance Plan and get it approved from the purchaser. QAP should include:

- (i) Raw material Testing, (ii) Manufacturing operations, (iii) Fabrication Steps, (iv) In-process Inspection Stages, (v) Final testing methods, (vi) Welding procedures, Weld sequencing and Cleaning procedures (vii) Procedures for weld checking

6. Welding requirements

- 6.1 Welding procedures and welder shall be qualified as per ASME section IX proper to production weld.
- 6.2 All the welding on MS to MS shall be done by SMAW using E6018 / E7018 welding electrodes.
- 6.3 Tungsten electrodes shall be conforming to ASME section-II, part-C, SFA 5.12, EW-Th2.

7. General Technical Requirements

- 7.1 The sizes & details given in the technical specifications are approximates only. Hence, actual size at site may differ slightly from the stated values.
- 7.2 Supplier shall carry out actual measurements at site and suggest deviations if any to make necessary changes if required.
- 7.3 Supplier shall prepare its own fabrication drawings as per actual site conditions and should get it approved from concerned authority before commencement of work.
- 7.4 All fabrication work shall be carried out as per approved drawings only.
- 7.5 All material supply is in the scope supplier. Supplier shall use all relevant IS standard material for this work. Material testing reports (Chemical, Mechanical etc.) from govt. approved labs should be submitted for approval. Material identification and stamping shall be witnessed by departmental representative.
- 7.6 Supplier shall have to pass weld qualification and only qualified welders shall perform this work
- 7.7 In case of any technical doubts, supplier shall contact concerned authority for clarifications.
- 7.8 Supplier shall have to arrange for Arc / TIG welding m/c along with all consumables (welding electrodes etc) required for this work.
- 7.9 Gas cutting, arc welding, grinding work etc. shall be carried out with utmost care. Supplier shall follow all safety measures while carrying out such work. Department shall provide gas cylinders for gas cutting purpose, if required.
- 7.10 Burrs, sharp edges, projections etc. caused due to cutting, welding etc shall be removed to maintain smooth surface. Supplier shall maintain best quality workmanship.

8. Inspection and final acceptance

- 9.1 Physical verification of all items as per approved drawings and technical specifications.
- 9.2 All weld surfaces shall have a smooth finish for easy decontamination.

- 9.3 Supplier shall clear off all left out material at the end of the work and ensure clean work area before handing over.

9. Terms & Conditions

- 9.1 The work completion period is FOUR months from the date of issue of work order.
- 9.2 Any delay which is attributable to the contractor is liable for penalty @ ½ % per week (max. 10%) to be imposed on the contractor.
- 9.3 In case of delay in work completion, supplier may send request letter to concerned authority for extension in work completion period with proper justification for delay in work. Concerned authority may or may not give extension with or without penalty depending on the justification for delay.
- 9.4 Income tax @2% & TDS as applicable, shall be deducted from the Suppliers bill.
- 9.5 Supplier should give guarantee for a minimum period of One Year for satisfactory performance and the workmanship.
- 9.6 Contractor may furnish their PAN no. & copy of Sales Tax/ Service Tax Registration Certificate.
- 9.7 100% payment will be arranged after satisfactory completion of work at AFD and on submission of:
- a) **Bill / Invoice in triplicate**
 - b) **Advanced Stamped receipt /**
(ECS / RTGS option & pre-stamped receipts)
 - c) **Guarantee Certificate**
 - d) **Delivery Challan (if any)**
 - e) **ITR Compliance Form**
- 9.8 Minimum TWO workers & ONE supervisor shall be present at site during the work. The supervisor shall be experienced enough for safety (fire & personal) to oversee the site activities.
- 9.9 The upkeep of area is the responsibility of contractor. Any unwanted or extra materials shall be kept at designated area which will be shown by departmental supervisor. For elevated jobs proper Safety Belts shall be used by all workers.
- 9.10 Contractor shall obtain police verification certificate (PVC) for all his employees including his supervisors and workers engaged in the work.
- 9.11 Supplier shall obtain Medical Fitness certificates for all his workers involved in this work.

10. Site Visit

The vendors shall have to visit the site to assess & comprehend the scope of work, and the same will be arranged by the undersigned. Vendors must have previous experience of the fabrication & erection work along with quality assurance plan, and should provide documentary evidence for the same while requesting for the site visit. The site visit shall only be cleared after verifying the credentials of the vendor. The quotations submitted without documentary evidences of experience will not be considered.

- 10.1 The site can be visited on 07/01/2022 between 10.00 hrs to 14.00 hrs. However, for site visit, prior intimation of two working days is necessary for arranging the entry permits. The quotations submitted without site visit will NOT be considered.
- 10.2 Vendor shall have to carry valid Photo identity card (Driving license, passport, Aadhaar card) while visiting this premises. Failing to bring valid identity cards, vendors will not get access into our premises. Further, entry permits will not be arranged for next dates if vendors unable to visit the site on permitted dates for any reasons. Vendor should not carry any type of electronic items such as mobile, pen drive, camera etc with him/her at the time of visit.
- 10.3 For preparing entry permit, you can contact the undersigned on Ph. No. (022) 25594927 or can e-mail to hsharma@barc.gov.in giving complete details of Firm, name of visitors, occupation/ designation, identity proof, PVC details, probable date of visit etc.

11. Confidentiality clause

- No party shall disclose any information to any third party concerning the matters under this contract generally. In particular, any conformation identified as "Proprietary" in nature by the disclosing party shall be kept strictly confidentiality 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-contractors, consultants, advisers or the employees engaged by a party with equal force.

- "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 contractor, sub-contractor, consultant adviser or the employees of a contractor will invite penal consequences under the aforesaid legislation
- Prohibition against use of BARC's name without permission for publicity purposes. The contractor of sub-contractor, consultant, adviser or the employees engaged by the contractor shall not use BARC's name for any publicity purpose through any public media like Press, T.V. or Internet without the prior written approval of BARC.

12. Contractor shall have to carry valid Photo identity card (Driving license, passport, Adhaar card) while visiting this premises. Failing to bring valid identity cards, vendors will not get access into our premises. Further, entry permits will not be arranged for next dates if vendors unable to visit the site on permitted dates for any reasons. Contractor should not carry any type of electronic items such as mobile, pen drive, camera etc with him/her at the time of visit.
13. Quotations are to be in printed letter head / quotation format which should consists of sales tax registration number registered with local ST authority / CST authority, PAN of the firm, service tax registration number etc. Quotations that are received in computer generated form will be considered as invalid & rejected.
14. Sealed quotations must be forwarded by Registered Post or Speed Post ONLY. Quotations forwarded through any other routes will not be considered.
15. Sealed quotations should be super scribed on the envelope with the reference number of this letter, and should be addressed to and reached by 20/01/2022 (16:00 hrs) to:

Shri Hariom Sharma
TO/D, Engineering Services & Automation Section
Atomic Fuels Division
Bhabha Atomic Research Centre
Trombay, Mumbai-400085

Hariom Sharma
TO/D, ESAS, AFD

sd/-

Surendra Kumar
Head, Engineering Services & Automation Section
Atomic Fuels Division
(For & on behalf of The President of India)