



सत्यमेवजयते

GOVERNMENT OF INDIA
BHABHA ATOMIC RESEARCH CENTRE
REACTOR ENGINEERING DIVISION

Ref. No.: -RED/ IS/GJG/1755 /MF/P41476/2022

Date 26/04/2022

Sub: Minor Fabrication for “Augmentation of existing AHU room into an Instrumentation Lab at Engg. Hall 7 of BARC which includes”–Invitation to quote.

1. Sealed quotations are invited by Head, Instrumentation Section, Reactor Engineering Division, Hall-7, BARC, for and on behalf of President of India for the minor fabrication job as per the requirements given in the technical Specification (Annexure-I).

The quotation shall be in two parts;
Part-1 Technical specifications
Part 2 offer price for the job.

Each part shall be enclosed in separate envelope & sealed and superscribed with

“**Minor Fabrication**” Ref. No. **RED / IS / GJG /1755 / MF /P41476/2022** due date **18/05/2022**. Part 1 or 2.

2. The quotation shall reach by **Speed Post only to**

Head, Instrumentation Section,
Reactor Engineering Division, (RED)
Engineering Hall No.7,
Bhabha Atomic Research Centre,
Trombay Mumbai 400085

On or before 18/05/2022 by 17:00 Hrs.

The quotation shall be on proper letter head mentioning complete address, Phone numbers, fax number, GST number/PAN number/ VAT/ registration etc., without these details quotation will be liable for rejection.

3. The quotation will be opened on 19/05/2022 at 14.00 Hrs.
4. **SCOPE OF WORK:** Augmentation of existing AHU room into an Instrumentation Lab at Engg. Hall 7 of BARC which includes
5. **FREE ISSUE MATERIALS:** No free issue material will be given to the fabricator.

6. GENERAL INSTRUCTIONS

- 1). The earliest period by which the job can be executed in totality should be clearly stated in the quotation and such period should be strictly adhered to in the event of a work-order. However, the job shall be preferably completed within six months from the date of issue of work order.
- 2). Taxes, duties, if any, applicable shall be indicated separately.
- 3). Where, the prices quoted are inclusive of taxes, the percentage/quantum of taxes included in the quoted price should be specifically indicated in the tender.
- 4). Inspection of the work as per specification shall be carried out departmentally after the completion of the work.
- 5). The bidders, who require any technical clarification regarding scope of work and technical specifications, may contact

Shri. Gurudatta Gorade (SO/G) on telephone 022 2559 1575 / 022 6929 1575

Email id **gorade@barc.gov.in**

- 6). Payment will be made after satisfactory completion of the work as per Government rules.
- 7). With your offer please furnish the detailed information regarding whether an ex-employee of BARC is working in your organization or whether any of your relatives is working in DAE/BARC or you are an ex-employee of DAE/BARC. In absence of such information or wrong information, the quotation or contract is likely to be rejected/cancelled.
- 8). Confidentiality: No party shall disclose any information to any third party concerning the matters under this contract generally. 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-contractors, consultants, advisers or the employees engaged by the party with equal force.
- 9). Restricted information categories under section 18 of the Atomic Energy Act, 1962 and "Official Secrets" under section 5 of the official secret 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.
- 10). Prohibition against use of BARC's name without permission for publicity purposes: The contractor or 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, radio, T.V. or Internet without prior approval of BARC.
- 11). Police Clearance: The bidder shall note that entry inside BARC is restricted and it is compulsory for contractor to get police clearance for all his staff who will be entering BARC for work.
- 12). Guarantee Clause: The work pertaining installation and Re-termination shall be guaranteed against any defects/faulty workmanship for a period of one year from the date of acceptance. During the above period if the items become defective, bidder will be responsible for making arrangements for repair/replacement at free of charge. Contractor will issue the guarantee

certificate at the time of commissioning/acceptance by department, mentioning the contents of the guarantee clause as mentioned above.

- 13). The offer shall be kept valid for a period of 60 days from the date of opening of the tender.
- 14). Purchasing authority reserves the right to alter the quantity while placing the order.
- 15). Head, Reactor Engineering Division reserves the right to accept or reject any or all the quotations received without assigning any reasons whatsoever.


25/03/2022
ROHINI DATAR

Head, Instrumentation Section,

For and on behalf of President of India

Encl. : (Annexure -I)

Technical Specifications for Augmentation of existing Air Handling Unit (AHU) room into an Instrumentation Lab at Engg. Hall 7 of BARC

1.0 General

This document covers the technical specification and scope of work **for Augmentation of existing AHU room into an Instrumentation Lab at Engg. Hall 7 of Bhabha Atomic Research Centre, Trombay, Mumbai 400 085**. The size of the existing compressor room is approximately 12 m (L) × 4.8m (W) × 6 m (H). These specifications are governed by technical conditions of the contract attached hereto.

- a) Bidder shall submit item wise compliance statement for each item of the technical specification in the quotation. Only those bids will be considered who will submit compliance statement to each item of the tender specifications along with the quotation
- b) The quotation shall be submitted as per the quotation format mentioned in Table-1. Bidder shall quote lump sum amount for the work mentioned in the tender document.
- c) Contractor shall note that BARC reserves the right to increase or decrease the quantum of job mentioned here in this tender document. However, this will not be more than 25 % of what is specified in Table-1.
- d) All industrial safety rules like using safety shoes, safety belts, helmets and any other gears required should be complied with.

2.0 Scope of work for the contractor

The contractor shall carry out the activities as per Table – 1 below and all the items required for these jobs are in the scope of the supplier. **There will not be any free issue material under this tender.** The quality of the raw material shall meet the desired specifications / standards and satisfy the concerned engineers / user department.

Table – 1 : Scope of work

Sr No	Job Description	Quantity
1	Augmentation of existing AHU room into an Instrumentation Lab at Engg. Hall 7 of Bhabha Atomic Research Centre which includes	
a	Civil work as per specifications in Table 2	1 Set
b	Electrical Work as per specifications in Table 3	1 Set
c	Instrumentation work as per specifications in Table 4	1 Set

3.0 Technical specifications for the work

Table – 2 : Specifications for Civil work

Sr.	Specifications of Civil Work	Compliance Statement
1	Removal of existing site foundations on floor and dumping the materials 500 meters away from site, fixing & levelling of Lab floor : 20 No	
2	Fabrication & Installation of Glass panel with anodized frame : 4m X 1.1 m (6 No)	
3	Fabrication and installation of MS frame structure with slotted angle rack, adjustable length and height 4 m (L) × 2 m (H) × 0.8 m (D) : 2 No	
4	Fixing of tinted glass and aluminium mesh for windows. 4 No	
5	Painting work : 126 m ² (1356 sq.ft)	
6	Concrete / brick foundations etc. are to be removed safely without damaging existing walls & floorings and the waste material should be dumped 500 meters away from site safely. The flooring shall be made plain with proper levelling & cementing.	
8	MS frame structures shall be fabricated and installed inside the Lab. Each slot will have approximate dimension of 1 m (L) × 0.5 m (H) × 0.8 m (D). However, based on the requirement during installation the dimension of each slot shall be adjustable. Tinted glass & protective mesh is to be installed at windows with proper fixing.	
9	Fabrication & Installation of Glass panel with anodized support frame by removing of old structure of 6 sides at the top most side wall. Each structure size is 4 meter X 1.1 meter total area is: 26.5 m ² (285 sq. ft). Metal frame should be properly installed with supports as no any water leakages from top most area.	
10	Removal of existing half wall inside the room and levelling work. Size of the wall is 4.8 m X 1 m.	

Sr.	Specifications of Civil Work	Compliance Statement
11	All the walls & ceilings of Lab shall be painted using standard procedure. Painting two coats with oil bound distemper of (Asian/Nerolac) approved brand and manufacture to give an even approved shade including priming coat, preparation of surfaces, filling with putty , if required. The job involves levelling of surfaces using POP	

Table – 3 : Specifications for Electrical work

Sr.	Specification of Electrical Work	Compliance statement
1	Supply and installation of heavy duty industrial 600 mm wall fan: 4 No	
2	Supply and Installation of Tube Lights: 20 No	
3	Installation and cabling of RJ 11 socket	
4	Installation of 2 No. RJ 45 sockets and 100 m LAN cabling and one 8 port LAN switch	
5	Installation / laying of AC distribution board with four 5A/15A switch socket combinations: 5 No	
6	Installation of distribution board with ten 16A MCBs as outlet and one 32A FB as incomer	
7	Installation of casing /capping for above mentioned work, 4 sqmm copper conductor FRLS wiring, Earthingetc..	

Table – 4 : Specifications for Instrumentation work

Sr.	Specification for Instrumentation Work	Compliance statement
1	Removal and re-installation of DP Transmitter and Pressure Transmitter with associated wiring for Calibration- 20 No	
2	Removal and Re-Routing of multi core cables- 300 m	

Sr.	Specification for Instrumentation Work	Compliance statement
3	Tubing modification SS Tubing 3/8" size- 50 m	
4	Calibration and installation of temperature transmitters -20 No	
5	Panel wiring and terminations (2000 terminations)	

3.0 Cleanliness : After finishing the work the site shall be clean and free from any un-wanted material.

4.0 Fabrication place : The work shall be carried out at Hall-7, BARC.

5.0 Guarantee :The contractor shall guarantee for a period of 12 months against defects in materials and workmanship. The contractor shall rectify any such defects, free of cost, to the entire satisfaction of the Purchaser.

6.0 Quantity of work and estimate procedure

The quantities for the fabrication work are given in scope of supply and the work for the contractor.

Figure 1 : Instrumentation Lab at Hall 7

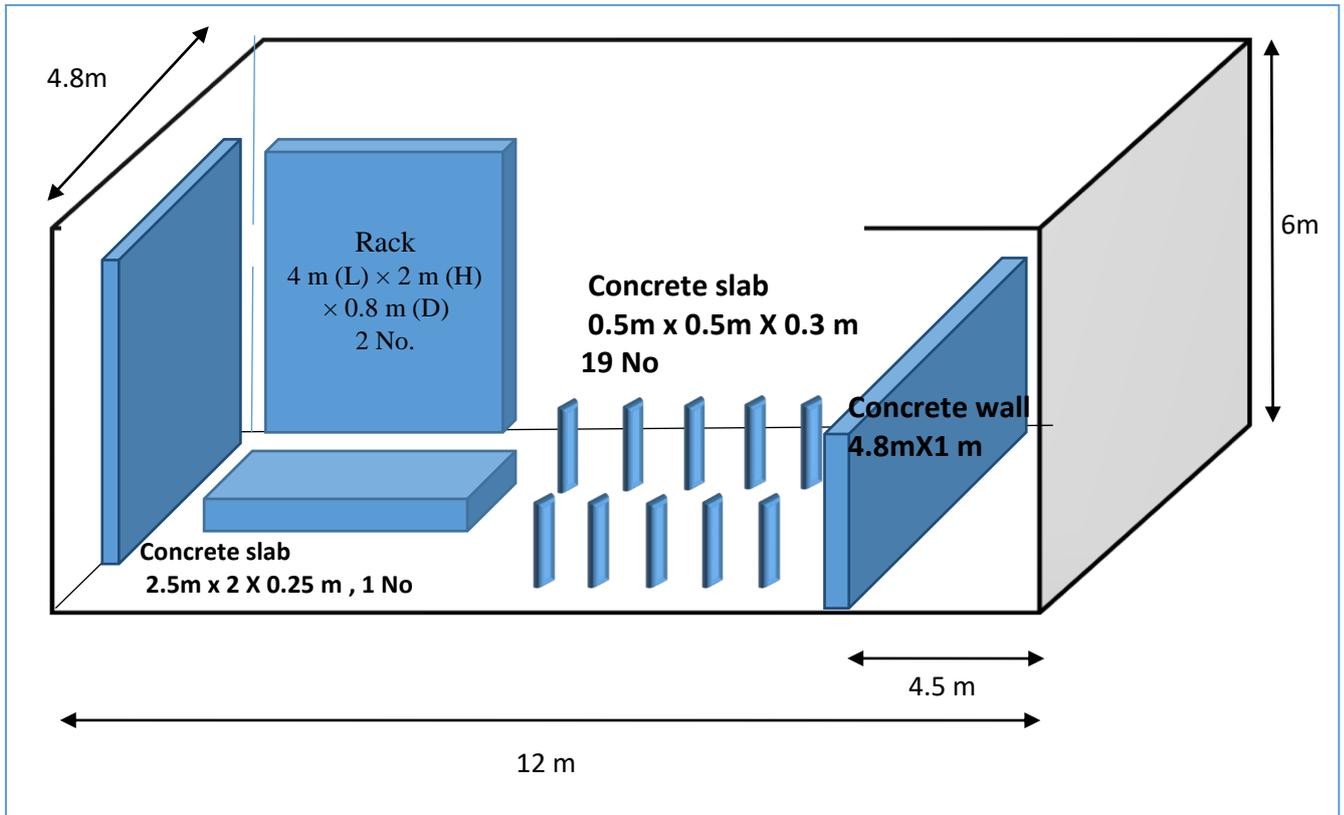


Figure 2: Top side of the room (access from the hall-7 terrace)

