GOVERNMENT OF INDIA
Bhabha Atomic Research Centre
Reactor Safety Division

Minor Fabrication - Enquiry

Hall No.7
Trombay
Mumbai 400 085

Ref: RSD/CSS/BARCOM/TI/MF/2020/ 111 674

November 4, 2020

Sub: Minor fabrication – invitation to quote for “Supply, Fabrication and Installations; Operation, health assessment, repair / restoration and troubleshooting of all installed equipment, instruments and systems (mechanical, electrical and instrumentation) for BARC Containment Model (BARCOM) at Tarapur site.”

Sealed quotations are invited by Head, Reactor Safety Division for the minor fabrication job as per the following requirements:

Scope of the work:

i. Supply and installations as per section A1 of Annexure-IA.

ii. Operations, Routine Maintenance, Testing, Checking, Cleaning, Repairing, Trouble Shooting & Health monitoring of installed equipment at BARCOM as per section A2 of Annexure-IA.

General:

1. Bidder should quote item wise cost of total work, i.e., quote separately for each of the items in the scope of work, mentioned above. GST shall be indicated separately. The bidder shall submit complete information asked in the enquiry, otherwise his/her quotations will not be accepted.

2. The quotations must reach Head, Reactor Safety Division, Engineering Hall No. 7, BARC, Trombay, Mumbai - 400 085 on or before 23.11.2020.

3. The envelope should be super scribed "Minor Fabrication – BARCOM, Tarapur" and indicate the DUE DATE and Office Ref. No. clearly. The envelope should be sealed.

4. The quotation will be opened on 24.11.2020 at 14.30 Hrs.

5. The necessary items (if any) as given in the enclosed technical specifications (Annexure-IA) will be provided by the supplier.

6. In case the bidder needs to clarify and understand the full scope of his work before submitting the quotation, he may do so by prior appointment with Shri LI. Thangamani, SO/F, RSD, Engg. Hall No. 7, BARC, Trombay, Mumbai- 400 085 (for appointment please contact on ph. no. 022-25593547 or send e-mail at tmi@barc.gov.in).

7. Duration of the work is 12 months from the date of acceptance of the work order or reckoned from the 5th working day of date of issuance of work order (depending on the site availability) and the same shall be mentioned in the quotation.

8. The price quoted should be valid for at least 90 days from the date of opening of the quotation.

9. The work is linked with the commissioning and experimental schedules of the BARC Containment (BARCOM) Test Model at Tarapur, which is to be strictly adhered in view of the importance of the project. The contractor/appointed supervisor shall ensure to be present at the BARCOM Tarapur site as and when required for timely completion of job.

10. A brief list of similar jobs executed, if any and the name of the organization for which the work was carried out should be furnished with the quotation.

11. All Taxes and excise duty shall be quoted separately. Any tax exemption certificate, if applicable, shall be given along with the order.
12. Pro-rata payment i.e., splitting of order is not acceptable.
13. Bidder shall note that BARC is the final consumer of the goods/service procured and does not intend to make any outward supply. BARC will not avail the benefits of input tax credit and hence the good can be supplied without quoting GSTIN of BARC, Mumbai on invoice. The invoices taxed under GST as per rates applicable under the GST schedule of rate will be admitted for payment.
14. GSTIN Invoice: As raised by the registered supplier of taxable goods/services along with other details specifically indicating: GSTN, PAN, Location of supply, tax component to be separately indicated. GST @ 5% is applicable to the items and GST @ 18% to the services provided to BARC for R&D purpose as per government notification. The necessary certificate shall be provided to the contractor in this regard.
15. No free issue material will be provided.
16. Payment will be made as per Government Rules after successful and satisfactory completion of the job.
17. The minor fabrication work will be subject to inspection/supervision by the officer in-charge or his authorized representative.
18. The bidder shall specify that "whether he/she has any relation in BARC or the bidder himself is an ex-employee of BARC or the bidder has an ex-employee of DAE on his payrolls", if any, the supplier shall indicate full details of the concerned person in their quotation.
19. The bidders are requested to go through “General terms and Conditions” given in Annexure-II.
20. The job should strictly follow “confidentiality clause” as per Annexure-III.
21. Head, Reactor Safety Division reserves the right to accept/reject any or all of the quotations received without assigning any reason whatsoever.
22. Quotations sent through registered post/speed post from India post are only acceptable. Quotations sent through any other means will be rejected.

Encl.: Annexure-IA, Annexure-IB, Annexure-II & Annexure-III

Copy to:
1. Shri I. Thangamani, SO/F, RSD
2. Asstt. Stores Officer, Zonal 9, Engg. Hall 7
3. Accounts Officer (Works), CC, BARC, Trombay

(V. Chattopadhyay)  
Head, RSD

(Dr. J. Chattopadhyay)  
Head, Reactor Safety Division

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ANNEXURE – IA

Following are the Scope of work, technical specifications and general terms for the minor fabrication job: “Supply, Fabrication and Installation of new items; Operation, health assessment, repair/ restoration and troubleshooting of all installed equipment, instruments and systems (mechanical, electrical and instrumentation) for BARC Containment Model (BARCOM) at Tarapur site.”

A. SCOPE OF WORK:

Supply & Installation of steel mesh with frames, cable tray replacement, Pedestal fans, chairs, table and steel almirah, Loop checking, Wire connectivity checking, Termination of wiring, Soldering of wires at junction boxes/termination panels/control panels and data collection for health monitoring and also during experiments. Operation, maintenance and troubleshooting of installed sensors, data loggers and other associated instruments. Checking, testing, cleaning, operation and troubleshooting of air compressors, control valves, 440 V electrical panels, Diesel Generator, UPS, Air Conditioner Units, Refrigerator, lighting and other associated electrical and mechanical equipment for BARC Containment model (BARCOM) at Tarapur site.

Details of various existing installations at BARCOM site are given in Annexure-IB.

The following comprise the detailed scope of work to be carried out for at BARCOM Tarapur site:

A-1 : New Installations:

<table>
<thead>
<tr>
<th>S. No.</th>
<th>Item</th>
<th>Specification</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Supply, fabrication and installation of painted steel wire mesh for area to be covered 25 m × 3 m (i.e. 75m²)</td>
<td>wire dia 2 mm and 10 mm spacing</td>
<td>1</td>
</tr>
<tr>
<td>2</td>
<td>Supply, fabrication and installation of GI Cable Trays along with cover 2 ft. width × 25 m length.</td>
<td>GI Cable Tray, 2 ft. width, 25m length</td>
<td>1</td>
</tr>
<tr>
<td>3</td>
<td>Supply of Pedestal Fans</td>
<td>Sweep : 400 mm, Power : 50 W, Air Delivery : 70 CMM, RPM: 1320</td>
<td>3</td>
</tr>
<tr>
<td>4</td>
<td>Supply of Chairs</td>
<td>Godrej Interio Classic Multipurpose Chair [CH-7] or equivalent</td>
<td>4</td>
</tr>
<tr>
<td>5</td>
<td>Supply of Table</td>
<td>Office table with storage 4.5’ × 2.5’ 3 drawer &amp; 1 Storage Box (Lockable)</td>
<td>2</td>
</tr>
<tr>
<td>6</td>
<td>Supply of Steel Almirah</td>
<td>Dimensions W × H × D (cm) 91.6 × 198 × 48.6 or larger Number of Drawers - 2</td>
<td>2</td>
</tr>
<tr>
<td>7</td>
<td>Supply and installation of Air flow meter</td>
<td>Flow range - 1000-5000SLPM, Upstream Pressure: 1-5 kg/cm2-g Preferable make - Tansa or equivalent</td>
<td>1</td>
</tr>
<tr>
<td>8</td>
<td>Supply and installation of Lighting Bulb, 18W FTL, Recess type</td>
<td>Preferable make – Bajaj, Orient, Philips, Havells</td>
<td>4</td>
</tr>
<tr>
<td>9</td>
<td>Supply and installation of Lighting Bulb, 18W CFL, Recess type</td>
<td>Preferable make – Bajaj, Orient, Philips, Havells</td>
<td>2</td>
</tr>
<tr>
<td>10</td>
<td>Supply and installation of Lighting Bulb, 11 W PL</td>
<td>Preferable make – Bajaj, Orient, Philips, Havells</td>
<td>1</td>
</tr>
<tr>
<td>11</td>
<td>Supply and installation of Lighting Bulb, 36 W CFL</td>
<td>Preferable make – Bajaj, Orient, Philips, Havells</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>Supply and installation of Lighting Bulb, 36 W FL, Fixture</td>
<td>Preferable make – Bajaj, Orient, Philips, Havells</td>
<td>4</td>
</tr>
<tr>
<td>---</td>
<td>---</td>
<td>---</td>
<td>---</td>
</tr>
<tr>
<td>13</td>
<td>Supply and installation of Lighting Bulb, 125W HPMV</td>
<td>Preferable make – Bajaj, Orient, Philips, Havells</td>
<td>4</td>
</tr>
<tr>
<td>14</td>
<td>Supply and installation of Lighting Bulb, 35W LPSV</td>
<td>Preferable make – Bajaj, Orient, Philips, Havells</td>
<td>2</td>
</tr>
<tr>
<td>15</td>
<td>Supply and installation of Lighting Bulb, 150W Metal halide</td>
<td>Preferable make – Bajaj, Orient, Philips, Havells</td>
<td>5</td>
</tr>
<tr>
<td>16</td>
<td>Compressor Oil</td>
<td>CP Compressor, ROTAIR Advance</td>
<td>20 litres</td>
</tr>
<tr>
<td>17</td>
<td>Battery of DG set</td>
<td>Exide Express FXPO-MHD1800</td>
<td>1</td>
</tr>
<tr>
<td>18</td>
<td>Supply, fabrication and installation of fixtures for outer unit, of 1.5 tons Split A/C, kept outside the control room.</td>
<td>GI frames</td>
<td>6 nos</td>
</tr>
</tbody>
</table>

**A-2 : Operations, Routine Maintenance, Testing, Checking, Cleaning, Repairing, Trouble Shooting & Health monitoring of installed equipment at BARCOM:**

| (a) | Six monthly health check-up and report submission of Compressed Air System & DG set by authorized engineer(s)/distributor. |
| (b) | i. Checking wire loops and correcting the same.  
   ii. Termination of wires.  
   iii. Correcting loose connections and soldering the wires if required at terminal boxes or junction boxes at site. |
| (c) | i. Operation, Maintenance and troubleshooting of data-loggers and multiplexers and sensors [surface sensors, tilt-meter, surface mounted dial gauges, pressure & temperature etc] given in item no. 1 of Annexure-IB.  
   ii. Testing, Checking and Routine maintenances of terminal boxes, junction boxes, panels & panel items etc. as given in item no. 2 & 3 of Annexure-IB.  
   iii. Checking, testing, cleaning, operation and troubleshooting of all the installations mentioned in Annexure -IB.  
   iv. Collection of data and back-up from data-logger for health monitoring, during dummy runs and all the experiments performed within the period of this work.  
   v. Operation & Routine maintenance of Compressed Air System (item no. 4) and DG set (item no. 5) mentioned in Annexure-IB.  
   vi. Routine maintenance of 10 Nos. of AC Units and 1 Refrigerator as mentioned in item no. 9 in Annexure-IB. |
| (d) | i. Testing, checking, repair & routines checking of UPS and fire alarm system (item 6 & 7 in Annexure - IB).  
   ii. Testing, checking, repair and routine maintenance of panels and DB’s mentioned in 8.1 and 8.2 of Annexure-IB.  
   iii. Testing, checking and repair of various types of lighting fixtures (items 8.3 and 8.4 in Annexure - IB) installed for general lighting of the buildings/areas including street light pole and single phase power points having 6/16/20 Amp socket outlet etc. as required for maintenance. |

**General terms and conditions for “Operations, Routine Maintenance, Testing, Checking, Cleaning, Repairing, Trouble Shooting & Health monitoring of installed equipment at BARCOM” :**
1 Supply of Material, Mechanical and Electrical tools and equipment for the above mentioned work will be in the scope of contractor.
2 Manpower for the work shall be approved from the concerned engineer in-charge before employing them at site.
3 Transportation of manpower up to the site will be in the scope of contractors.
4 Normal working hours shall be 8 Hrs.
5 **Following are the details of manpower to be used for the above mentioned job and shall be round the clock as and when required, during the experiment schedule.**

<table>
<thead>
<tr>
<th>S. No.</th>
<th>Description of Job</th>
<th>Nos.</th>
</tr>
</thead>
<tbody>
<tr>
<td>i</td>
<td>Electrician with experience in operating DG and other associated electrical instruments mentioned above</td>
<td>1</td>
</tr>
<tr>
<td>ii</td>
<td>Helpers</td>
<td>2</td>
</tr>
<tr>
<td>iii</td>
<td>Mechanical operator with experience in compressed air system as mentioned above</td>
<td>1</td>
</tr>
</tbody>
</table>

6 The job may require cutting, welding, bolting, soldering and material handling etc.
7 Additional installation of sensors, gauges, etc., as and when required.
8 Free electricity will be provided by the department. However, hooking any instruments to the mains power supply shall be subjected to the necessary approval from the concerned officer.
9 All necessary tools will be supplied by contractor & No Free issue material will be issued to the contractor for this job.

(I.Thangamani)  
SO/F, CSS, RSD

(Vishnu Verma)  
Head, CSS, RSD
ANNEXURE – IB

Details of various existing installations at BARCOM site are as follows:

1. **Data loggers, Sensors & Gauges:**

   1.1. Data loggers and strain-gauges:

   Total 8 data-loggers are installed; the details of sensors number of multiplexors in each data-logger are as follows.

<table>
<thead>
<tr>
<th>Data-logger No.</th>
<th>Nos. of Multiplexers/ Terminal boxes</th>
<th>Nos. of gauges</th>
</tr>
</thead>
<tbody>
<tr>
<td>DT-1</td>
<td>6 Multiplexers</td>
<td>96 (VWSG type)</td>
</tr>
<tr>
<td>DT-2</td>
<td>6 Multiplexers</td>
<td>96 (VWSG type)</td>
</tr>
<tr>
<td>DT-3</td>
<td>6 Multiplexers</td>
<td>96 (VWSG type)</td>
</tr>
<tr>
<td>DT-4</td>
<td>6 Multiplexers</td>
<td>96 (VWSG type)</td>
</tr>
<tr>
<td>DT-5</td>
<td>8 Multiplexers</td>
<td>128 (VWSG type)</td>
</tr>
<tr>
<td>DT-6</td>
<td>8 Multiplexers</td>
<td>128 (VWSG type)</td>
</tr>
<tr>
<td>DT-7</td>
<td>8 Multiplexers</td>
<td>128 (VWSG type)</td>
</tr>
<tr>
<td>DT-8</td>
<td>40 Terminal boxes</td>
<td>400 (SMER type)</td>
</tr>
</tbody>
</table>

   1.2. Pressure measuring/indicating instrument/Gauges:

   - Pressure transmitter: ABB make, 2600 Series, URL- 2400 KP, LRL-0.07 Abs. and Output signal – 4 to 20 mA - 7 nos.
   - Rockwell makes Flow meters with digital display system - 2 nos.
   - Digital Pressure Indicator, Model Druck DPI 150, GE make with valves: 2 Nos.
   - Dial type pressure gauges of various ranges: 7 nos.

   1.3. Temperature & pressure measurement system:

   Dry & Wet bulb temperature measurement assembly consist of M.S. vessel for water, RTDs (Pt.100, 3 wire), fan – 17 sets.
   - Control panel: Control panel for dry & wet bulb temperature measurement/display, Pressure of Air receivers, air flow line of compressed air system is displayed at panel through the connected pressure transmitter: 1 no.

2. 60 Numbers of junction-boxes at BARCOM Test Model site.

3. 4 Panels containing 8 computers, 3 connected printers, 2 nos. of extra computers, Computer and projector in conference room.

4. **Compressed Air system:**

   4.1. Screw Air compressor with Air Receiver: Compressor Make- Chicago Pneumatic, Product type- CPC-75, Max. final pressure-7.2 Kg./sq.cm., Free air delivery-306 CFM, Motor-75 HP, starter ES-3000 with driving motor with starting & control panel and with following detail- 3 nos.

4.3. Valves: Manual & Electro-pneumatic actuated Ball/glove valves for compressed air line with position indicator, suitable electric/electronic regulator to provide electric signal 4-20 m. Amp. DC to valve for their closing and opening with varying position (between 0-100%) of valve with manual over-riding mechanism i.e. de-clutchable gear box., Valve-Make- M/s VKE Industries, Mumbai. (Total qty.- 11 nos. as below)

- 80 mm dia. Ball valves- 5 nos.
- 25 mm dia. Ball valve- 2 nos.
- 80 mm dia. Flow control Glove valves- 2 nos.
- 25 mm dia. Flow control Glove valve- 2 nos.

Compressed air Pipe line is a part of this system which is comprised of Seamless pipe of Carbon Steel A-106, Schedule-40 of 80 mm. dia. NB (105 m) and 25 mm dia. NB (121 m).


5. DG set with Auto Mains Failure (AMF) supply panel:


5.2. Alternator detail :- Salient pole, self-excited & self-regulated, 320 KVA, 415 V, 50 Hz, 3 phase, 445 Amp, Power factor-0.8, Stamford make.- 1 no.

5.3. AMF panel: Panel is having 2 no. ACB of 800 Amp., 4 pole, electrically operated draw out type (Out of 2 no. ACBs, one is for mains supply and other for emergency supply from DG-set and both are electrically interlocked and wired for Auto/Manual operation) and 2 no. 400 A, 4 Pole MCCB as O/G feeder- 1 no.

6. UPS panel:

5 KVA UPS panel and UPS Dbs.

7. Fire alarm system:

{System is comprised of panel- 1 no., fire/heat detectors-10 nos. and Response indicators- 5 nos.} - 1 set.

8. Lighting , Electrical, Power, MCC Panels and Distribution boards:

8.1. Panel having following brief description: 3 nos.

i) Main panel- {Three phase PCC having 630 A TPN Incomer-1 no., 400 A TPN SDF-1 no., 125 A SDF-1 no., and 63 A TPN SDF- 9 nos.}- 1 Set

ii) Weather proof MCC: - {three phase MCC having 400 A TPN Incomer-1 no., 63 A TPN SDF- 3 no., Star/Delta starter for 45 KW motor-3 sets, DOL starter for 10 KW- 2 set.}- 1 set

iii) Lighting panel: {Three phase lighting panel with 125 A, 4 pole DPX MCB; 32 A, TPN MCB - 10 no. and 6 A SP MCB- 4 no.}- 1 set.
8.2. DB having following brief description: - 5 No.

<table>
<thead>
<tr>
<th>S.No</th>
<th>Description</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>i</td>
<td>8 way TPN DB with 63 A inomcer, 63 A, 30 mA RCCB and SP MCB of 6-20 A MCBs</td>
<td>3 set</td>
</tr>
<tr>
<td>ii</td>
<td>4 way TPN DB with 63 A inomcer, 63 A, 30 mA RCCB and SP MCB of 6-10 A MCBs</td>
<td>2 set</td>
</tr>
</tbody>
</table>

8.3. Exterior & internal lighting and power system:

Different lighting fixtures mounted on wall/ceiling/false ceiling /MS bracket/outdoor GI pole for internal and external lighting of C&I building, Reactor model building, equipment shed and along the road/fence etc. The types of fixtures are given below:

<table>
<thead>
<tr>
<th>S.No</th>
<th>Description</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>i</td>
<td>4 x 18 W FTL Recess type</td>
<td>20 nos</td>
</tr>
<tr>
<td>ii</td>
<td>2 x18 W CFL Recess type</td>
<td>5 nos</td>
</tr>
<tr>
<td>iii</td>
<td>1 x 11 W PL</td>
<td>2 nos.</td>
</tr>
<tr>
<td>iv</td>
<td>2 x 36 W CFL</td>
<td>6 nos</td>
</tr>
<tr>
<td>v</td>
<td>1 x 36 W FL. Fix.</td>
<td>19 nos.</td>
</tr>
<tr>
<td>vi</td>
<td>125 W HPMV</td>
<td>12 nos.</td>
</tr>
<tr>
<td>vii</td>
<td>35 W LPSV</td>
<td>10 nos.</td>
</tr>
<tr>
<td>viii</td>
<td>150 W Metal halide</td>
<td>62 nos.</td>
</tr>
</tbody>
</table>

8.4. Earth station & lightning protection system: There are 10 nos. of earth stations for protection of power supply equipment including lightning protection.

8.5. Ceiling fan in Compressors room.

9. Air Conditioning and Refrigerating Units

Split AC, 1.5 Ton each. - 10 Nos.
Refrigerator, 200 Litres, - 1 No.

(1.Thangamani)  
SO/F, CSS, RSD

(Vishnu Verma)  
Head, CSS, RSD
ANNEXURE – II

General Terms and Conditions

A. Qualification Criteria:
The bidder must have a previous work experience of the similar nature, i.e. installation, operations & maintenance of electrical, instrumentation & mechanical equipment.

B. Warranty:
The supplier should provide warranty of 1 year for the installation items above mentioned in section A1 of the Annexure-IA.

C. Work Period:
Duration of the work is **12 months** from the date of acceptance of the work order or from the 5th day of date of issuance of work order (whichever is earlier date).

D. Terms of Payment:
1. No advance payment shall be made.
2. Full payments shall be made within 30 days after completion of the job.
3. Payment shall be made through ECS/RTGS, in favor of the contractor and Accounts Officer, BARC, shall issue the same.
4. The payment shall be made only on the satisfactory completion of the work and on the production of the completion certificate and guarantee certificate.
5. Income tax @2% will be deducted from the bill.
6. If contractor fails to deliver the scope of work within the stipulated period mentioned in this document and the delay incurs financial loss to the department, then L.D. charges @ 0.5% per week (max 5%) as per the rules and guidance of this Department shall be levied.

E. Special Note:
The vendor shall be liable for any damage to the purchaser or any third party arising out of any patent or latent defect in the goods supplied by him or sub-standard service rendered by him.

F. Validity of the Offer:
Vendor shall clearly mention the validity of the offer and the same shall be not less than 90 days from the tender due date.

G. Price Variation:
The prices quoted in the tender shall remain firm throughout the validity period.

H. Approval stages:
   i. Material certificate from supplier shall be submitted for approval. After getting approval from the concerned engineer, work can be started at site. Inspection report at every stage of fabrication and radiography films and testing report etc. shall be submitted for our approval.
   ii. The vendor should rectify the defects, if any, identified/occurred during inspection/testing/installation/transportation etc.
iii. Vendor shall follow the approval stages strictly and the final installed product should be
defect free, leak tight and qualify the safe operating requirements, otherwise, the
department has the right to cancel the order.

I. Work Quality:
All work shall be done with good workmanship. Painting/Welding should be carried out by
qualified person/welder. Our supervisor will supervise quality of work.

J. Security permission:
i. Contractor shall appoint the required workers with high integrity and will be responsible
for his workers. All BARC security rules will be applicable. Supplier must dispose of all
the debris after completions of the job. Entry permit will be issued on monthly basis and
contractor must have valid photo pass up to December, 2021.

ii. The site is restricted area and permission to the personnel coming inside the premises for
installation work, require security clearances. Hence firm has to obtain Police
Verification Certificates (PVC) from Police Commissioner Officer (not local police)/
District Magistrate office, for all the persons coming inside the premises for work. The
copy of PVC shall be submitted along with offer. Otherwise offer will not be considered
for evaluation.

iii. Firms, who have not worked inside the DAE units (BARC/NPCIL/IGCAR/AERB) in
past, have to go through security vetting procedure and this, may take some time to
complete.

iv. The entry passes for personnel coming inside premises are made by Security Section
and require local residence proof and identification proof along with PVC.

K. Free issue Material and Work period:
No Free issue materials will be provided. After the supply of firm work order, the work shall be
completed in 12 months.

L. Fabrication and Installation:

i. The mechanical fabrication, erection, installation, testing and commissioning of all the
items mentioned in Annexure-IA&IB shall be done according to the relevant design
practices and as directed by concerned engineer. Minor changes suggested by BARC in
design/work, if any, should be accommodated during fabrication or work period.
Variations in dimensions shall be within tolerance limits.

ii. All rubber bushes, lock nuts, inspection crosses, clamps, saddles, spacers, screws, nuts,
bolts, washers, and other accessories shall be supplied by the contractor as required.

iii. The equipment and tools required for executing this work shall be arranged by the
contractor. Free electricity will be provided by the department. However, hooking any
instruments to the mains power supply shall be subjected to the necessary approval of
the concerned engineer.

iv. The contractor shall have to maintain the area assigned to him for the work very clean
and shall follow the instructions of Engineer in-charge in this regard. All
equipment/tools etc. are to be removed and the site area to be cleaned after the end of
the day’s work.
v. The technician required carrying out mechanical fabrication, erection, installation, testing and commissioning work shall be skilled and have requisite qualification/certificates. The documents are to be provided (in original) to engineer in-charge, before commencement of work at site. Unqualified/unskilled technician/workers will not be allowed to work at site.

M. Testing and commissioning
The testing and commissioning of all the above mentioned components shall be done according to the relevant practices and as directed by concerned engineer.

N. Price Schedule
i. The bidder shall quote unit rates for each item of work given in Tables for supply of material, fabrication, installation, testing and commissioning work. The amount for each item shall be worked out and the requisite total shall be given. NOT GIVING THIS BREAK-UP TO THE FULLEST DETAIL AS REQUIRED IN THE TABLE SHALL BE SUFFICIENT CAUSE FOR OUTRIGHT REJECTION OF THE OFFER WITHOUT ANY CONSIDERATION.

ii. Bidders shall go through the technical specifications and provide in the offer point by point compliance. The technical deviations, (if any) shall be indicated clearly in the offer. The necessary catalogues are required to be submitted for supply items along with the offer. It may be kindly noted that no further communication will be made to get the technical clarifications. THE OFFERS WITHOUT THIS INFORMATION WILL BE REJECTED WITHOUT ANY CONSIDERATION.

iii. The entire work is to be completed within 12 months reckoned from the 5th day of date of issuance of work order (depending on the site availability).

iv. It may also be noted that any delay (in completion of work), which is attributable to the contractor is liable for penalty (i.e. L.D. Charges) @ ½ % per week (max 5%) will be imposed on the contractor as per the rules and guidance of this Department.

O. Completion of contract
The works to be executed by the contractor shall be deemed to be completed only when
i. The supply, fabrication, installation, testing and commissioning are carried out as per the technical requirements given in this tender document.

ii. Any defects, deficiencies brought out during testing are rectified and retested wherever necessary to the satisfaction of the engineer.

iii. The material should be transported safely to the site without any damage. Otherwise the finished product will not be accepted.

P. General Specifications:
1. Quality surveillance, inspection:
   All work covered by the specification shall be subject to quality surveillance / inspection by our authorized representative.
2. The fabricator shall not sub-contract any or all of the work without written consent from the purchaser. The fabricator shall be responsible to the purchaser for all work of the sub-contractor, if allowed.

3. All the safety precautions as per applicable code and practices shall be followed at site. All industrial safety rules like using safety shoes, belts, helmets and any other protective items required should be complied with. The Personal Protective Equipment (PPE) shall be strictly used by workers while working at site. The safety instructions shall be followed in all respect. The contractor will be responsible for any injury/accident occurring at site, due to any reason, department will not pay or liable for any compensation.

4. Bhabha Atomic Research Centre (BARC) will not be responsible for any injury or death due to any accident during the work period.

5. Payment will be made only after satisfactory completion of the work and against submission of original bill and advanced stamp receipt.

6. Income tax of 2% and GST TDS @ 2% on the bill amount shall be deducted from the payment.

7. Any person entering BARC shall comply with all the requirements that are imposed by Health Physics Division and Security of BARC from time to time.

8. Contractor shall note that BARC reserves the right to increase or decrease the quantum of job mentioned here in this document.

9. The work shall be carried out by the vendor on the basis of provided technical specifications and general conditions.

10. The party shall arrange all the labourers required for the work.

(I. Thangamani)  
SO/F, CSS, RSD

(Vishnu Verma)  
Head, CSS, RSD

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ANNEXURE -III

Confidentiality Clause

1. **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 also apply to the sub-contractors consultants, advisers or the employees engaged by a party with equal force.

2. “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.

3. **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 the prior written approval of BARC.