

**GOVERNMENT OF INDIA
BHABHA ATOMIC RESEARCH CENTRE
REACTOR SAFETY DIVISION**

Minor Fabrication - Enquiry

Hall.No.7, Trombay
Mumbai 400 085

Ref: RSD/CSS/JC/BG/MF/2022/ *P-32068*

February *28*, 2022

Sub: Minor fabrication – invitation to quote for “Fabrication, Supply 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, RSD, BARC, for the minor fabrication jobs as per the following requirements

SCOPE:

- i. Fabrication, 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.

The terms and conditions are given below:

1. Qualifying Criteria for Bidders & Bid evaluation criteria:
 - 1.1. A checklist is attached (**Annexure-II**) for Qualification and bid evaluation criteria. The vendor must satisfy all the criteria of the checklist and submit the duly signed and stamped checklist along with the quotation.
 - 1.2. Bid will be evaluated based on overall cost.
 - 1.3. Work order will be awarded to technically suitable lowest bidder.
 2. The Bid should be in **two-part Tender**;
 - Part - I:** Techno commercial i.e. technical details along with commercial terms and conditions.
 - Part - II:** Price Bid.
- Each bid should be enclosed in the separate envelope.** These two envelopes shall be sealed individually and then be enclosed in the Main Bid Envelope and sealed.

The Main Bid envelope shall be super scribed with '**Minor Fabrication – BARCOM Tarapur**' and the **Tender Enquiry Ref. No.** mentioned above along with **Due Date**.

Envelope 1 should be super scribed '**Techno Commercial Bid**' and shall contain Checklist (**Annexure II**) along with Technical document & commercial terms and conditions. **It should not contain Price Bid/Quotation.**

Envelope 2 should be super scribed as '**Price Bid**' and shall contain Price Bid/Quotation incorporating all the costs.

It should be noted that Bid **shall not be considered** for evaluation if the **Price Bid/Quotation is found in Main Bid Envelope (in the open condition)** or in the Technical Bid Envelope **or if the price/cost is mentioned in the document** other than the Price Bid document.

Part-I bid (Techno commercial bid) of all the suitable bidders **will be opened first** and technical evaluation will be done. **Part-II Bid** (Price Bid) shall be opened **only for those** bids which are found **technically suitable** based on the evaluation of Part I bid.

3. **Printed Letter Head:** Quotation should be printed on the letter head; each page of quotation should be sealed and signed.
4. **Quote Format:** Bidder should quote item wise cost of total work, i.e., quote separately for each of the items in the scope of work given in tables for supply of material, fabrication, installation, testing and commissioning work in Table-1 of **Annexure-IA**. GST shall be indicated separately. **The bidder shall submit complete information asked in the enquiry, otherwise his/her quotations will not be accepted.** The evaluation of bids shall be done based on the lump sum cost of the full scope of work subject to technical suitability.
5. **Validity of the Offer:** Validity of the offer shall be **90 days** from date of opening of quotation.
6. **Offer of Firm:** Offer of those bidders, who do not submit their quotation as per the details given in the technical specification and incomplete quotations in any respect shall not be considered.
7. **GST/PAN Number:** Quotation must contain the GST and PAN number of the firm.
8. **Guarantee/Warranty:** Bidder should provide warranty of one year for the installation work and items mentioned in **Annexure – IA**
9. If any of the employee, consultant or partner of the bidder's company is an Ex-BARC employee, the same must be stated in the quotation clearly.

10. The complete quotation shall reach the following address on or before **due date (15/03/2022)**, by **only Indian Postal Service**.

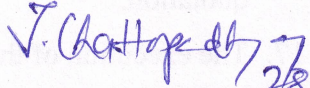
**Head, Reactor Safety Division,
Engineering Hall No. 7,
BARC, Trombay,
Mumbai- 400 085**

**Attention: Dr. B. Gera (SO/F),
Reactor Safety Division
Tel: 25591565**

11. The quotation will be opened on **16/03/2022** at 14.30 Hrs. The department reserves right to extend the date of opening the quotations.
12. In case, bidder needs to clarify and understand the full scope of his work before submitting the quotation, he may do so by prior appointment with Dr. B. Gera, SO/F, RSD, Engg. Hall No. 7, BARC, Trombay, Mumbai- 400 085 (for appointment please contact on ph. no. 022-25591565 or send e-mail at bgera@barc.gov.in).
13. **No Free Issue Material (FIM)** will be supplied for this minor fabrication job.
14. **Place of Delivery:** The work is linked with the fabrication and maintenance at BARCOM, BARC, 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 work related discussion and timely completion of job.
15. **Safety Rule:** The contractor shall follow all the safety procedures as per the normal industrial practice during the execution of the job at site. Any mishap occurring during the work due to unsafe workmanship shall be the contractor's liability. No claim for worker's / contractor's personnel's injury shall be entertained by the Department. Security and transportation rules at BARC, Tarapur site shall be strictly followed.
16. **Job Completion period (Delivery Schedule):** Duration of the work is **6 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.
17. The execution of the work is to be carried out to the satisfaction of our Engineers.
18. **Payment Terms:** Accounts Division, BARC, Mumbai-400085 shall make full and final payment only after submission of the satisfactory work completion certificate & site clearance certificate issued by the Department (BARC), bill, advanced stamped receipt, delivery challan and guarantee/warranty certificate. No advance is admissible.

19. **GSTN 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 supply 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. An undertaking shall be submitted by the registered supplier that the GST has been promptly deposited with the authorities (as per the format given in **Annexure-V**)
20. **Income Tax Recovery Clause:** Income tax @ 2% will be deducted from the bill. GST TDS as applicable will be deducted.
21. **Penalty:** Any delay, which is attributable to the contractor, is liable for penalty @ 0.5% per week (max. 10%) and shall be imposed on contractor.
22. The contractor should ensure that the scrap generated at the work place during the course of the work should be disposed off properly. The job completion certificate will be issued only after clearing of all such materials from the work premises.
23. Housekeeping at the work place during the course of the work is the sole responsibility of the contractor.
24. **Mode of payment:** Payment will be released through ECS, the party has to fill the ECS/RTGS form and submit with the delivery challan and Bill/Tax Invoice.
25. **Confidential Clauses:** The job should strictly follow "confidentiality clause" as per **Annexure-IV**.
26. **Security Rules:**
- a) Police verification certificates are required for supervisors and laborers deployed at the site.
- b) Security rules and transport rules at BARC Tarapur premises shall be strictly followed.
27. Labourers below 18 years of age shall be not allowed to work at site.
28. The bidders are also requested to go through "General terms and Conditions" given in **Annexure-III**
29. **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, III, IV & V


(Dr. J. Chattopadhyay)
Head, RSD
डॉ. जे. चट्टोपाध्याय/Dr. J. Chattopadhyay
अध्यक्ष, रिएक्टर संरक्षा विभाग
Head, Reactor Safety Division
भारत सरकार/Government of India
भा.प.अ.केंद्र, ट्रो-वे/BARC, ट्रो-वे
मुंबई-400 085./Mumbai-400 085.

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:

Fabrication, Supply & Installation of Bellow sheet cover of main air lock (with painting, red oxide coating + epoxy paint), painted wooden door, monkey ladder support railing near floor, Supply and Installation of Lighting bulbs, Submersible pump, replacement of railing around containment model and staircase, Porch light, 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 BARCOM Tarapur site:

A-1: New Supply/Installations:

S. No.	Item	Specification	Quantity
1.	Fabrication, supply, installation and painting (red oxide coating + epoxy paint) of Bellow sheet cover of main air lock	910 cm perimeter length, 90 cm width; 2 mm sheet thickness, sheet material - GI	1
2.	Fabrication, supply, and installation of painted wooden door along with “Aldrop type” door latch with lock and keys for store room	32 mm thick, dimension – 3 ft x 7 ft, Door material –plywood, Grade – MR, “Aldrop door latch” material - SS (reputed make). Lock preferable make – Harrison, Godrej or better	1 set
3.	Fabrication, supply, installation and repair of railing around containment model and staircase. The structure should be painted (red oxide coating + epoxy paint) after repair work.	GI Pipe (Type Class-A, Light), 2 inch nominal dia. with thickness 3mm, 30 m length	1
4.	Fabrication and supply of monkey ladder support railing near floor and Fabrication and installation of safety gate of support railing	GI Pipe (Type Class-A, Light), 2 inch nominal dia. with thickness 3mm, 10 m length	3
5.	Supply and installation of Lighting Bulb 18 W FTL, Recess type, 59 cm long	Preferable make – Bajaj, Orient, Philips, Havells	8 (3 nos. for control room + 1 no. for conference room + 4 nos. in Kitchen)
6.	Supply and installation of Lighting Bulb, 36 W FTL LED with Fixtures (each tube 4 feet long)	Preferable make – Bajaj, Orient, Philips, Havells	14 (7 nos. for DG room + 3 nos. for Bathrooms + 4 nos. for BARCOM)

			containment)
7.	Supply and installation of Lighting Bulb, 36 W FTL LED with Fixtures and electrical power cable	Preferable make – Bajaj, Orient, Philips, Havells; Electrical cable length = 60 m, Electrical cable nominal area = 2.5 sq.mm	2 (VSHS facility shed in concretized zone)
8.	Supply and installation of Lighting Bulb, (50 W LED with 6200 lumen) with fixtures	Preferable make – Bajaj, Orient, Philips, Havells	34 (for BARCOM containment + (22 nos. for BARCOM different floors + 5 nos. for boundary lights))
9.	Replacement of CFL with LED in porch (18 W LED with fixtures and electrical cable)	Preferable make – Bajaj, Orient, Philips, Havells	4
10.	Supply of 4 point Extension board	Make – Havells, GM or better, cable length = 5m	2
11.	Supply & installation of submersible dewatering pump along with electrical cable and required accessories.	5 HP, Make - Kirloskar, Model - Eterna 3700 CW; Total discharge height = 20m minimum	1
12.	Flexible PVC hose (compatible with submersible pump) clamps, connectors and other associated fittings	Nominal pipe diameter = 2.5 inch	20 m

A-2 : Operations, Routine Maintenance, Testing, Checking, Cleaning, Repairing, Trouble Shooting & Health monitoring of installed equipment at BARCOM (for 6 months):

(a)	Six monthly health check-up and report submission of Compressed Air System & DG set by authorized engineer(s)/distributor.
(b)	<ul style="list-style-type: none"> 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)	<ul style="list-style-type: none"> 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 4 Nos. of AC Units and 1 Refrigerator as mentioned in item no. 9 in Annexure-IB.
(d)	<ul style="list-style-type: none"> 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" :-

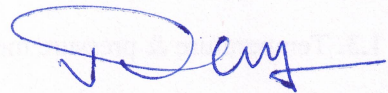
- 1 Supply of Material, Mechanical and Electrical tools and equipment for the above mentioned work will be in the scope of contractor.
- 2 Manpower for the work shall be approved from the concerned engineer in-charge before employing them at site.
- 3 Transportation of manpower up to the site will be 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.**

S. No.	Description of Job	Nos.
i	Electrician with experience in operating DG and other associated electrical instruments mentioned above	1
ii	Helpers	2
iii	Mechanical operator with experience in compressed air system as mentioned above	1

- 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.

Dr. B. Gera
28/02/2022

(Dr. B. Gera)
SO/F, CSS, RSD



28-02-2022

(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.

Data-logger No.	Nos. of Multiplexers/ Terminal boxes	Nos. of gauges
DT-1	6 Multiplexers	96 (VWSG type)
DT-2	6 Multiplexers	96 (VWSG type)
DT-3	6 Multiplexers	96 (VWSG type)
DT-4	6 Multiplexers	96 (VWSG type)
DT-5	8 Multiplexers	128 (VWSG type)
DT-6	8 Multiplexers	128 (VWSG type)
DT-7	8 Multiplexers	128 (VWSG type)
DT-8	40 Terminal boxes	400 (SMER type)

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.

4.2. Air drier: Make- Chicago Pneumatic, Type-D-150 (A-13), Product no. - 4102000964- Max. /Working pressure- 13 Bar, Refrigerant type R-404A, 3 phase. , 400 V, 4.15 KW-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).

4.4. Remote Control Panel: Remote valve control & position indicator panel for Pressurization & De-pressurization of Containment model building having 11 set of Controller & Position Indicator (of M/s Mugdha Controls, Pune) for remote operation of 11 valves from control room.

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

5.1. Engine detail: Engine in Acoustic enclosure, Make POWERICA, Model NTA 855-G2-I, Turbo-charged, After-cooled, Radiator cooled, BHP-380, RPM 1500, make-CIL- 1 no.

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.

S. No.	Description	Quantity
i	8 way TPN DB with 63 A incomer, 63 A, 30 mA RCCB and SP MCB of 6-20 A MCBs	3 set
ii	4 way TPN DB with 63 A incomer, 63 A, 30 mA RCCB and SP MCB of 6-10 A MCBs	2 set

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:

S. No.	Description	Quantity
i	4 x 18 W FTL Recess type	20 nos
ii	2 x 18 W CFL Recess type	5 nos
iii	2 x 36 W CFL	6 nos
iv	1 x 36 W FL. Fix.	19 nos.

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. – 4 Nos.

Refrigerator, 200 Litres, – 1 No.

Bhuvanendra Kumar
28/02/2022

(Dr. B. Gera)
SO/F, CSS, RSD

28.02.2022

(Vishnu Verma)
Head, CSS, RSD

Annexure – II

Checklist for Qualification

Sr. No.	Qualification criteria:	Response
1	Previous working experience in DAE facilities. (Please provide detail for the same with work order number) AND	Yes/No
2	Successfully executed mechanical, electrical and instrumentation related job. (Please provide proof such as job completion certificates from users)	Yes/No

(Bidder's Signature & Stamp)

ANNEXURE – III

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 **6 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% & GST TDS @ 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 10%)** 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 April, 2023.
- 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 **6 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. Completion of contract

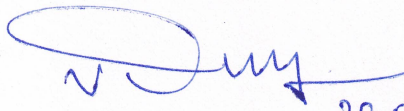
The works to be executed by the contractor shall be deemed to be completed only when

- 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.

O. 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.

Bhuvaneshwar here
28/02/2022
(Dr. B. Gera)
SO/F, CSS, RSD


28.02.2022
(Vishnu Verma)
Head, CSS, RSD

ANNEXURE -IV

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.

ANNEXURE -V

UNDERTAKING (Goods & Service Tax)

The Following certificates should be submitted by the suppliers/contractors to the paying authority on the bills itself when Goods & Servant Tax (GST) is claimed as extra by the contractors/suppliers.

1. **Certified that** the goods and packing on which Goods & Service Tax (GST) has been charged have not been exempted under the Goods & Service Tax (GST) or the rules made there under.
2. **Certified further that** we have actually paid Goods & Service Tax (GST) and are being assessed to Goods & Service Tax (GST) and also that where there are statutory exemptions under the GST act concerned we have availed of the same and certify non-availability of such provisions for Goods & Service Tax (GST).
3. **Certified that** in respect of the amount claimed in the bill, no claim is pending for refund/ or is admissible. Certified that in the event of our getting refund in whole or in part of the element of Goods & Service Tax (GST), we shall pass on the benefit of the amount of refund obtained by us.
4. **Certified further that** we (our branch or agent) _____

(Address) _____

are registered as dealer in the State of _____ under the
Central Registration No. _____ for the
purpose of Goods & Service Tax (GST)

Signature & Stamp