

Ref: TDD/DSS/2019/containment/OPA/72996

16/04/2019

NIT for Minor Fabrication Due date:-08/05/2019

Sealed quotations are invited for and on behalf of the President of India for the work as described below. The last date of **receipt** of sealed quotation is **08/05/2019 up to 15:00 hrs** at 315, CDCFT Building, Near WIP, Trombay, Mumbai 400085, of Technology Development Division. Please mention the reference number on the front cover of the sealed quotation. Sealed quotation shall only be sent through Postal Speed Post/Normal Post only. Hand delivery of the quotations is strictly not allowed. The sealed quotation will be opened on the **10/05/2019** at 15:30 hrs. in the office of authorized tender opening officer, TDD, NRG, BARC.

Description of work	Duration
Procurement, Fabrication, Testing, Trials, Supply & Erection of PVC based Leak Tight Containment System & Associated Works.	90 Days

Important Notes:-

1. The work shall be completed within 90 **Days** from the date of issue of the work order.
2. Any deviation from specification shall be clearly mentioned in your offer.
3. The quotation shall be printed only on letter head and GST number as well as any other prevailing Tax Registration Number registered with local, state/Central authority, PAN Number of the firm, Service Tax Registration Number etc should be mentioned on it.
4. Quotations that are received in computer generated form are to be construed as **invalid and will be rejected.**
5. Income tax @ prevailing rate at the time of execution of work and applicable surcharge on Income Tax as applicable & education cess on IT & SC as applicable will be deducted from the bill. **Tax as applicable on GST will also be deducted from bill.**
6. The enquiries should be sent only by speed post/Normal Post through Indian Postal Service and should be addressed to:
Devendra Sandhanshive, Scientific Officer-F
Room No. 315, CDCFT Building, Near WIP,
Technology Development Division, Nuclear Recycle Group
Bhabha Atomic Research Centre, Trombay, Mumbai-400085
7. **The following information should be written on the sealed offer:**
Our Enquiry no., Subject, Due Date & Sender's full address.
8. **The bids sent by any other mode (e.g. manual, courier etc) shall be rejected without assigning any reasons as per terms and conditions of Accounts, BARC.**
9. The offer shall be kept valid for a period of 45 days from the date of opening.
10. Quotation shall clearly mention basic cost, rate of GST and any other taxes/levies applicable separately as per the enclosed format of Bill of Quantities (BOQ). The Grand Total shall also be written in words.
11. Only those Vendors quoting for all the works mentioned as per the enclosed BOQ will only be considered. Part offer will be rejected.
12. Offers will be evaluated on overall **total cost basis** covering all the works mentioned in the BOQ.
13. It may please be noted that BARC has been declared as R&D organization and concessional rate of GST is applicable. Necessary exemption certificate will be made available to successful vendor.
14. **Undertaking:** The vendor shall give undertaking stating that he has understood the entire scope of work as well as other associated security/safety and other general requirements and he will complete the works in time as per the completion period of the work order.

15. Full payment shall be made only after successful completion and acceptance of the work. In general after submission of all the papers mentioned in work order, it takes about a month period for releasing the payment, as per standard practice followed in BARC.
16. Contact undersigned for any other technical enquiry about the job.

Installation Practices & Site Working Conditions:

1. The contractor shall use proper electrical plug/sockets. Use of loose wiring will not be permitted.
2. The contractor shall use all safety gears like helmets, safety belts, safety shoes etc. and follow safe installation practices. All the safety precautions shall be meticulously followed, the instructions given by Engineer In Charge & Safety Coordinator from time to time shall be abided.
3. The contractor shall arrange all equipment and personnel required for the successful completion of the work.
4. All handling equipment, scaffoldings, tools and tackles, ladders, other machines, safety belts, welding machines etc required for the erection work shall be arranged by the supplier.
5. Please note **materials /tools etc entry to the site & their exits** is subjected to **security checks & procedure laid down by BARC security sections** & shall be strictly followed during the site execution.
6. Installation shall be neat and workmanship shall be of excellent quality.
7. Contractor shall clean the site after work and dispose the waste generated properly.
8. Electricity and Water will be provided free of cost for the above work.
9. The vendor shall arrange adequate accident insurance coverage of his personnel. BARC shall not be responsible for any liability arising out of any accident / injury caused to vendor's personal while executing the work.
10. This work involves working in restricted area with security restrictions on entry of workers, working time etc. To the extent possible the work shall be carried during the normal working hours i.e. 9.30 A.M to 5.30 P.M. Monday to Friday. Prior permission will be required to work on holidays and beyond office hours on working & holidays.

11. Safety and security rules:--

a)	Police verification certificate is required for all workers and supervisor deployed at the site.
b)	Security rules and transport rules at BARC, Trombay premises shall be strictly followed.
c)	Labors under 18 years shall not be allowed to work at site.
d)	Department shall not be responsible for any injury caused to contractor workforce due to any reason / unsafe workmanship while working at site.

Devendra Sandhanshive,
 SO/F, TDD, NRG, BARC
 Ph.no. 022-25591279,
 Email: sdev@barc.gov.in

Technical Specification

Tender No.: TDD/DSS/2019/containment/OPA/[72996](#)

[16/04/2019](#)

Name of Work:-

Procurement, Fabrication, Testing, Trials, Supply & Erection of PVC based Leak Tight Containment System & Associated Works.

Detailed Scope of Work:-

1. Supply of PVC based Leak Tight containment :-

Procurement of Raw Materials & Bought-out Items, Fabrication, Trials, Testing & supply of PVC based leak tight containment system to WMZ store, BARC, Trombay. The containment system consists of customized integral gloves, customized feed through, customized bag in & bag out ports, double zipper arrangement, etc as per following specification & attached **Tender Drawing**.

The containment will be made of PVC sheet of 250 and 400 micron thick sheets. The Size of containment will be as indicated in the tender drawing. The containment will have 50 numbers customized integral gloves attached with the PVC tent. The glove should be made of two different materials i.e. the rubber portion for the palm region and PVC for rest of the glove. The joint between rubber part and PVC part should be leak tight. PVC containment should have 10 numbers of feed-throughs for electrical cables. Feed-throughs connection with PVC containment and cable should form a leak tight joint. Feed-throughs shall be light weight.

The containment will have various Bag in & Bag out ports as detailed below. The ports should be made of light weight PVC/Teflon etc. All ports should form a leak tight connection with the PVC containment.

- ✓ Bag-In No. 01 & 02:- Size 10 inch each.
- ✓ Bag-Out Port No. 01:- Size 10 inch.
- ✓ Bag-Out Port No. 02:- As per Tender Drawing.
- ✓ Oval Bag-Out Port No. 03:- Oval shaped port for bagging out glass panel as per Tender Drawing.

The containment should also have 2 numbers of ports of 100 mm diameter for connecting to a negative pressure system.

The containment should have double zipper arrangement so that one of the wall of the containment can be fully opened.

Leak testing of the containment will be done and the containment should able to hold the negative or positive pressure of 5mm of Water Column for 15 min.

2. Supply of Supporting Structure for PVC Containment:-

Procurement of raw materials & bought out items, fabrication, assembly and supply of structure arrangement for supporting the PVC containment as per the **Tender Drawing**. The structure arrangement should be modular in construction. The structure shall be made of readymade aluminum sections or slotted MS angles or Box sections. The structure shall be self standing and no anchoring is allowed.

3. Supply of Modular, Customized Oval shaped Track with suitable manually operated push-pull trolleys & supporting arrangement:-

Procurement of raw materials & bought out items, Fabrication and Supply of the Modular & Customized Guide Tracks, push-pull trolleys along with their supporting arrangement. The guide track & trolleys are required for supporting and handling various cutting tools and tackles. The push pull trolleys shall be manually operated (Qty:-06 Numbers). Maximum weight of any tools & tackles will be 15 kg and at a time maximum 04 numbers of tools will be hanging on the guide track arrangement. Guide track will be Oval in shape as indicated in Tender Drawing. The entire arrangement should be light in weight, compact and modular in construction. The system can be made from readymade aluminum sections.

4. Supply of Customized fixture for Remote operation of Existing Reciprocating Saw Machine:-

Procurement of suitable light weight manually operated Linear Motion(LM) guide (1.2 mtr long) suitable for clamping & handling existing reciprocating saw machine. The LM guide should be light in weight. The work also involves fabrication of suitable clamp for fixing the existing saw machine with the LM guide. The clamp should also have a provision for manual up and down movement (0 to 100mm) of the saw machine. The scope of work also involves demonstrating remote cutting trials using this fixture on 10 thick MS plate & doing all the necessary modifications till satisfactory remote cutting performance is achieved.

5. Development of Fixtures & Impact Proof Casing for Safe Remote Handling of Laminated Glass Panels:-

Laminated glass panel of size 1 M X 1 M X 10mm thick needs to be remotely handled using a fixture and the impact proof casing arrangement. Scope of work includes preparation & approval of detailed fabrication drawing, procurement of raw materials, fabrication, assembly, trials & supply of fixtures & casing for safe handling of laminated glass panels as per scope drawing 05. The work also involves fabrication of 2 nos.of frames for supporting vertical storage of laminated glass panel.

6. Miscellaneous site works:-

Following miscellaneous jobs are also required to be carried out at site for erection of various systems.

- Erection of PVC based containment systems along with its supporting structure,
- Erection of existing Negative pressure system & hooking up with the PVC containment.
- Erection of Guide track & push pull trolley arrangement along with erection of various tools & tackles weight balancer etc.

Site location:- CDCFT building, WIP Complex, BARC, Trombay.

General Note: - Tenders Drawings of are indicative to convey scope of the work.

Bill of Quantities:-**Tender No.:** TDD/DSS/2019/containment/OPA/[72996](#)[16/04/2019](#)**Title of Work:** - Procurement, Fabrication, Testing, Trials, Supply & Erection of PVC based Leak Tight Containment System & Associated Works

Sr	Name of items	Unit	Qty	Estimated Cost in Rupees	Total Cost in Rs.
1	Supply of PVC based Leak Tight Containment System as per technical specification & scope drawing.	Job	1		
2	Supply of Supporting Structure for PVC Containment as per technical specification & scope drawing.	Job	1		
3	Supply of Modular, Customized Oval shaped Track with suitable manually operated push-pull trolleys & supporting arrangement as per technical specification & scope drawing.	Job	1		
4	Supply of Customized fixture for existing Reciprocating Saw Machine as per technical specification & scope drawing.	Job	1		
5	Development of Fixtures & Impact Proof Casing for Safe Remote Handling of Laminated Glass Panels as per technical specification & scope drawing.	Job	1		
6	Miscellaneous site works as per technical specification.	Job	1		
7	Basic Total Cost in Rupees				
8	GST at 5% for Supply item Nos. 1 to 5				
9	GST at ____ for item No. 6				
10	Grand total Cost (Rupees _____ only)				

Seal & Signature of the Vendor

