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 **09/10/2019 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 **09/10/2019** at 15:30 hrs. in the office of authorized tender opening officer, TDD, NRG, BARC.

<table>
<thead>
<tr>
<th>Description of work</th>
<th>Duration</th>
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</thead>
<tbody>
<tr>
<td>Site Fabrication and Erection of various mock setups at site. Execution of various trials in the said setups &amp; associated miscellaneous site works. Supply of Various Items.</td>
<td>120 Days</td>
</tr>
</tbody>
</table>

**Important Notes:-**
1. The work shall be completed within **120 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 pleases 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.

**Safety and security rules:**

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

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

Name of Work:-
Site Fabrication and Erection of various mock setups at site. Execution of various trials in the said setups & associated miscellaneous site works. Supply of Various Items.

Detailed Scope of Work:-

1. Site Fabrication and Erection of various mock setups at site. Execution of various trials in the said setups & associated miscellaneous site works.
   a) The work involves site fabrication of miscellaneous items, erection of various trials mock set ups at site as per the requirement.
   b) The work involves modification works such as cutting, welding, dismantling, assembly, etc. in the existing mock set ups as per instruction of the Engineer in charge.
   c) Execution of various dismantling and cutting trials on an inactive glove box and associated works at site.
   d) Daily Cleaning of the Engineering hall, the mock set ups, tools and tackles etc.
   e) Shifting of various materials, set ups, structures etc. at site as essential for the various trials.
   f) The portable grinding, welding, drilling machines and other tools including the consumables such as welding rods, cutting wheel, grinding wheels etc. as essential during the site execution work are in the scope of firm.
   g) The firm has to engage Supervisor, Welder, Fitter & Helper as per need basis for execution of above works as per the instruction of the Engineer in charge. The site work will be spread over a span of 4 months. Break up of man-days as essential in this work order is given below:-
      Supervisor: - 30 Mandays.
      Welder: - 30 Mandays.
      Fitter: - 30 Mandays.
      Helper: - 90 Mandays.

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

2. Supply of Customized Portable Vacuum Cleaner for suction of metal chips and fine powder :-
   a. Procurement, suitable modifications, trials & Supply of Portable Vacuum Cleaner for its use in suction of metal chips and fines powder.
   b. The vacuum cleaner should be light in weight, compact in size and suitable for suction of metallic cut chips and fine powder.
   c. The filter arrangement should be suitably modified to trap the metal chips & fines without damage of the cloth filter. Metallic light weight fine meshed filter which can be accommodated inside the cloth filter shall be fabricated.
   d. Trials should be carried out to demonstrate the intended function.
   e. Discharge from the vacuum cleaner should be routed though a separate HEPA filter arrangement. HEPA filter will be provided as Free Issue Material.
3. **Procurement, Suitable modifications & Supply of compact Chain pulley block:-**
   a. Chain pulley block should be light weight and compact in size.
   b. It should have minimum Safe Working Load capacity of 30 Kg and not more than 100kg.
   c. A standard Chain pulley block should be procured and modified so that it can be operated using chain as well as ratchet lever for its distant operation.
   d. The chain pulley block should have maximum stroke of 3 meter for its vertical movement of the hook.

4. **Development & supply special customized light weight Tong for handling of liquid sample bottle:-**
   Tong should be light in weight, modular in construction. Material of construction should be SS 304/SS304L. Scope drawing is attached for the reference.

5. **Development & supply special customized light weight Tong for handling of PVC packets:-**
   Tong should be light in weight, modular in construction. Material of construction should be SS 304/SS304L. Scope drawing is attached for the reference. Tong can have provision for partial folding in the middle by provision of hinged joint.

6. **Development & Supply of following items made in PVC or Polypropylene or Delrin:-**

   The material selection will be decided based on sizes of the raw material available in the market and the manufacturing process. These parts should be machined on the CNC Lathe etc. Drawings of the bag out port, glove port etc. are enclosed for reference in order to convey the scope of work.

   a) Light weight PVC/PP Glove ports suitable for 8inch size gloves as per attached drawing (Qty:-4)
   b) Light weight bag in & Bag out port as per attached drawing. Size of Bag in & bag out port will be in the range of 350mm to 550mm which will be decided based on fabrication aspects. (Set:-1)
   c) Leak tight clamping arrangement made of polypropylene for mounting of electrical Feed through assembly on PVC Tent. (Qty:-2 sets)
   d) Customized Nozzles with threaded clamps along with gasket etc. for connecting with inlet air & exhaust air system of PVC tent. The assembly shall be made from made of polypropylene. (qty :-2 nos)
   e) Developments & supply of HEPA filter with Polypropylene housing having minimum flow capacity of 50CMH.

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

Title of Work: - Site Fabrication and Erection of various mock setups at site. Execution of various trials in the said setups & associated miscellaneous site works. Supply of Various Items

Tender No:- BARC/NRG/TDD/Site Works/OPA/278/31 date:- 20/09/2019

<table>
<thead>
<tr>
<th>Sr</th>
<th>Name of items</th>
<th>Unit</th>
<th>Qty</th>
<th>Estimated Cost in Rupees</th>
<th>Total Cost in Rs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Site Fabrication &amp; Erection of various mock setups at site. Execution of various trials in the said setups &amp; associated miscellaneous site works.</td>
<td>Job</td>
<td>1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>Supply of Customized Portable Vacuum Cleaner for suction of metal chips and fine powder.</td>
<td>Job</td>
<td>1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>Procurement, Suitable modifications, trials &amp; Supply of Compact Chain pulley block.</td>
<td>Job</td>
<td>1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>Development &amp; supply of customized light weight Tong for handling of PVC based liquid sample bottle.</td>
<td>Job</td>
<td>1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>Development &amp; supply of customized light weight Tong for handling of PVC packets.</td>
<td>Job</td>
<td>1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>Development &amp; supply of following items made in PVC or polypropylene or Delrin:-</td>
<td>Job</td>
<td>1</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>a) Light weight PVC glove ports as per attached drawing.</td>
<td>Nos</td>
<td>4</td>
<td></td>
<td></td>
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<tr>
<td></td>
<td>b) Light weight Bag in and bag out port.</td>
<td>Set</td>
<td>1</td>
<td></td>
<td></td>
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<tr>
<td></td>
<td>c) Leak tight clamping arrangement made of polypropylene for mounting of electrical Feed through assembly on PVC Tent.</td>
<td>Sets</td>
<td>2</td>
<td></td>
<td></td>
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<tr>
<td></td>
<td>d) Customized Nozzles with threaded clamps along with gasket etc. for connecting with inlet air &amp; exhaust air system of PVC tent. The assembly shall be made from made of polypropylene.</td>
<td>Nos</td>
<td>2</td>
<td></td>
<td></td>
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<tr>
<td></td>
<td>e) Developments &amp; supply of HEPA filter with Polypropylene housing having minimum flow capacity of</td>
<td>Job</td>
<td>1</td>
<td></td>
<td></td>
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<tr>
<td>7</td>
<td>Basic Total Cost in Rupees</td>
<td></td>
<td></td>
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<tr>
<td>8</td>
<td>GST at 18% (or as applicable) for item no. 1.</td>
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<tr>
<td>9</td>
<td>GST at 5% for items 2 to 6.</td>
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<tr>
<td>10</td>
<td>Grand total Cost in Rupees</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Signature of the firm.