Sub: Notice inviting tender for “Fabrication of Trolley, Granite surface table, Electrical workbenches and Pneumatic Vessel assembly along with the supply of necessary accessories”

1. Scope: “Fabrication of Trolley, Granite surface table, Electrical workbenches and Pneumatic Vessel assembly along with the supply of necessary accessories”

2. General guidelines for submitting tender

- You shall send your offer in a sealed envelope indicating delivery period, price inclusive of taxes and other relevant information by speed post/Courier to:
  
  Head,
  Computational Analysis Division
  PEB-4, Bhabha Atomic Research Centre
  Maduturu Sub P.O.
  Near Nagaravarm-Arutchapuram Highway
  Visakhapatnam 531011
  (Kind Attention: Shri. Rahulnath P.P., SO/D, Mob. No. 8985875318)

- Quotation shall reach us on or before 06/Sept/2020 by Speed Post/Courier Only

- On top left corner of the envelope please indicate Quotation For: “Fabrication of Trolley, Granite surface table, Workbenches etc. Due Date 06/Sept/2020”

- Overwriting, scratching etc. must be avoided in the quotation. Rewriting the whole figure shall carry out any alteration in the figure. The authorised person from the firm shall countersign such figure.

- The delivery period mentioned in the quotation shall be strictly adhered to. If the contractor fails to supply and secure extension of delivery date before affecting delivery of the supply against the contract, acceptance of such item by the purchaser will in no way prejudice the right of the purchaser to levy liquidated damage nor will it be entitled to the contractor for payment of statutory levies that comes into force after the expiry of the delivery date.

- Minimum Guarantee / Warranty period of the material shall be one year.

- Supplier shall mention clearly the PAN/TAN no. on quotation.

- GST number shall be clearly mentioned on Quotation.
- All the charges and taxes shall be mentioned clearly.
- Please note that BARC being an R&D institution, GST rates are as follows:
  - For Intra-state Supply of Goods: @ 2.5% SGST + 2.5% CGST
  - For Inter-state Supply of Goods: @ 5.0% IGST
- GST exemption certificate shall be issued to the supplier.

(This is as per Office Order No. BARC/GST/12/2017 dt. 27.12.2017)
3. PLACE OF DELIVERY AND TESTING: BARC-Vizag

The inspected and accepted components shall be delivered to:
BARC-Stores
TL-10, Dhabha Atomic Research Centre
Machhurum Sub P.O.,
Near Nagaravarm-Atchutapuram Highway
Visakhapatnam 531011

4. PAYMENT TERMS:
   a) Part payment/Advance or against delivery cannot be made.
   b) Payment will be made only after satisfactory completion of work and on production of (along with Delivery Challan):
      i. Bill/Invoice containing Location of supply, separate tax components along with PAN and GSTN numbers
      ii. Advance Stamped Receipt
      iii. Bank Account No, Bank and Branch name with IFSC code.
      iv. Undertaking stating that GST has been promptly deposited with the authorities
   c) It may be noted that:
      i. Income tax @2% will be deducted from your bill.
      ii. TDS(under GST) will be deducted as applicable from your bill of taxable goods and/or services, where the total value of such supply exceeds 2.50 lakh.

5. CONFIDENTIALITY CLAUSE:

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

“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.

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.

You may contact us for any clarification before 06.09.2020 (Shri Rahulnath P.P., 8985875318, rahulnath@barc.gov.in)

(Rahulnath P.P.)
SO/D, CAD
**Scope of work**

Fabrication of Trolley, Granite surface table, Electrical workbenches and Pneumatic Vessel assembly along with the supply of necessary accessories.

**Brief Description:**
The scope of work includes fabrication of:
- **I. Trolley:** Quantity-01 No.
- **II. Granite surface table:** Quantity-01 No.
- **III. Electrical workbench-Track:** Quantity-01 No.
- **IV. Electrical workbench-1 track:** Quantity-02 Nos.
- **V. Pneumatic vessel assembly:** Quantity-01 No.
- **VI. Supply of accessories.**

Note: The quotation must clearly indicate the cost of each item (SL No. 1 - VI) separately.

**I. Trolley (Drg. No. 01-07):**
*Qtv.: 01 No.*

<table>
<thead>
<tr>
<th>Drawing No</th>
<th>Title</th>
<th>Materials to be fitted</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>01 Frame</td>
<td></td>
<td>1. Channel: 75x75x5mm 2. Teflon wheel (1 Ton each)-04 Nos. with brakes. 3. Teflon Omni wheel (1 Ton)-01 No. with brake. 4. Sheets to be welded. 5. Handles-02 Nos.</td>
<td>1. Using MS channels. 2. Fabrication process: Cutting and welding. 3. Powder coating to be done for all MS components. 4. Provide through holes of 10mm size on channels wherever needed for bolting of external components. 5. A minimum of 3 holes of each channel must be provided.</td>
</tr>
<tr>
<td>02 Top sheet</td>
<td></td>
<td>Material: FRP</td>
<td>1. Attached to frame by bolting. 2. Suitable through holes must be made on the corresponding channels. 3. See Drg. no.07 also.</td>
</tr>
<tr>
<td>03 Front sheet</td>
<td></td>
<td>Material: Acrylic</td>
<td>1. Attached to frame by bolting. 2. Suitable through holes must be made on the corresponding channels. 3. See Drg. no.07 also.</td>
</tr>
<tr>
<td>04 MS sheet</td>
<td></td>
<td>Material: Acrylic</td>
<td>Attached to frame by welding. See Drg. no.07 also.</td>
</tr>
<tr>
<td>05 Bottom sheet</td>
<td></td>
<td>Material: FRP</td>
<td>1. Attached to frame by bolting. 2. Suitable through holes must be made on the corresponding channels. 3. See Drg. no.07 also.</td>
</tr>
<tr>
<td>No</td>
<td>Bottom sheet</td>
<td>Material: FRP</td>
<td>Remarks</td>
</tr>
<tr>
<td>----</td>
<td>--------------</td>
<td>--------------</td>
<td>---------</td>
</tr>
<tr>
<td>07</td>
<td>Assembly drawing</td>
<td>All components (Drg.No.01-05)</td>
<td>1. Provide through holes of 10mm size on channels wherever needed for bolting of external components. 2. A minimum of 3 holes of each channel must be provided.</td>
</tr>
</tbody>
</table>

II. **Granite surface table (Drg. No. 08-11):**

<table>
<thead>
<tr>
<th>Drawing No</th>
<th>Title</th>
<th>Requirements/Specification</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>08</td>
<td>Granite table: Frame</td>
<td>Welded square tubes 50x50x3mm.</td>
<td>4. Using MS square/rectangular pipe as specified in drawing. 5. Fabrication process: Cutting and welding 6. Powder coating to be done.</td>
</tr>
<tr>
<td>09</td>
<td>Granite slab</td>
<td>1. Size:1000x1000x100mm 2. Calibration certificate must be provided recognised under national standards. 3. Mohs hardness greater than 6. 4. Accuracy less than 7µm. 5. Must be polished on all sides with chamfering at the edges and corners. <em>(All certificate regarding the above mentioned points are to be submitted)</em></td>
<td>1. Granite plate must be placed on top of frame and ensure proper alignment. 2. Powder coating to be done on all MS components.</td>
</tr>
<tr>
<td>10</td>
<td>Granite table</td>
<td>Material to be fitted; 1. Omni Teflon wheels-04Nos. 2. Adjustable rubber legs-04Nos. 3. Sliding Drawers-04Nos. 4. Hinged Door-01No.</td>
<td>1. Granite top must be parallel to the ground. 2. Legs should be adjustable. 3. Wheels to be provided for smooth movement of table.</td>
</tr>
</tbody>
</table>

III. **Fabrication of workbench-2Rack (Drg. No. 12-13):**

<table>
<thead>
<tr>
<th>Drawing No</th>
<th>Title</th>
<th>Components to be fitted/used</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>12</td>
<td>WorkBench-1: Frame</td>
<td>Welded square tubes</td>
<td>1. Using MS square/rectangular pipe as specified in drawing. 2. Fabrication process: Cutting and welding. 3. Powder coating to be done.</td>
</tr>
</tbody>
</table>
### IV. Fabrication of workbench-1 Rack (Drg. No. 14-15): Qty.: 02Nos.

Following Fabrications are to be carried out: (Refer Assembly Drawings in Annexure IV)

<table>
<thead>
<tr>
<th>Drawing No</th>
<th>Title</th>
<th>Components to be fitted/used</th>
<th>Remarks</th>
</tr>
</thead>
</table>
| 14         | Frame:Workbench-2      | Welded square tubes                              | 1. Using MS square/rectangular pipe as specified in drawing.  
2. Fabrication process: Cutting and welding  
3. Powder coating to be done on all MS components. |
| 15         | Workbench-2            | 1. Frame-MS  
2. Wood-Engineering Wood-20mm  
3. Insulating mat-2mm  
4. MCB-01Nos.(Total)  
5. Switch Board (16AMPS)-04Nos.  
6. Industrial connector-01No.  
8. Acrylic sheet.  
9. Sliding Drawers-02Nos. | 1. Proper wiring has to be done.  
2. Input power through 1 industrial connector only.  
3. Wood attachment to frame by bolting/screwing.  
4. Insulation mat is attached to wood by adhesive. (Please see the drawing attached.) |

### V. Pneumatic Vessel components (Drg. no. 16-24): Qty.: 01No.

Following Fabrications are to be carried out:

<table>
<thead>
<tr>
<th>Drawing No</th>
<th>Title</th>
<th>Material</th>
<th>Remarks</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>16</td>
<td>Pneumatic Vessel Assembly</td>
<td>See the attached drawing</td>
<td></td>
<td>01Set.</td>
</tr>
<tr>
<td>17</td>
<td>Anode</td>
<td>ETP grade Copper</td>
<td>OD should match the ID of DRG No. 1.6</td>
<td>01No.</td>
</tr>
</tbody>
</table>
| 18         | Cathode – 14 mm        | ETP grade Copper  | OD threadings should match the ID of DRG. 22  
ID threadings should match the ID of DRG. 21 | 01No.     |
<table>
<thead>
<tr>
<th>Sl.No</th>
<th>Items</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>3/8” (10mm) Pneumatic Pipes.</td>
<td>25m</td>
</tr>
<tr>
<td>2</td>
<td>6mm Pneumatic-Pipes.</td>
<td>100m</td>
</tr>
<tr>
<td>3</td>
<td>8mm Pneumatic-Pipes.</td>
<td>25m</td>
</tr>
<tr>
<td>4</td>
<td>10mm-to-8mm Pneumatic-Push-I-Connector (Reducer)-Plastic</td>
<td>10Nos.</td>
</tr>
<tr>
<td>5</td>
<td>10mm-to-6mm Pneumatic-Push-I-Connector (Reducer)-Plastic</td>
<td>10Nos.</td>
</tr>
<tr>
<td>6</td>
<td>6mm Pneumatic-Push-I-Connector(Straight Union)-Plastic</td>
<td>20Nos.</td>
</tr>
<tr>
<td>7</td>
<td>6mm Pneumatic-Push-T-Connector(Straight Union)-Plastic</td>
<td>20Nos.</td>
</tr>
<tr>
<td>8</td>
<td>6mm Pneumatic-Push-Elbow (Union Elbow)-Plastic</td>
<td>20Nos.</td>
</tr>
<tr>
<td>9</td>
<td>6mm-Push-Fit-male connector-Threading M10-Plastic</td>
<td>20Nos.</td>
</tr>
<tr>
<td>10</td>
<td>6mm-Cross Union-Push-Elbow Plastic</td>
<td>20Nos.</td>
</tr>
<tr>
<td>11</td>
<td>Tube cutter(Cutting range up to 12mm)</td>
<td>02Nos.</td>
</tr>
<tr>
<td>12</td>
<td>Pneumatic values-6mm-10kgf-SS Gate</td>
<td>10Nos.</td>
</tr>
<tr>
<td>13</td>
<td>Magnetic V-Block(4”)</td>
<td>02Nos.</td>
</tr>
<tr>
<td>14</td>
<td>Copper braided wire (5mm)</td>
<td>6m</td>
</tr>
</tbody>
</table>

VI. List of Required Accessories:
The following items must be supplied:
VII. **General requirements:**

1. The quotation must clearly indicate the cost of each item (I-VI) separately.
2. In case of any clarifications regarding the scope of work, please contact the undersigned.
3. One-Year (or more) Standard Warranty has to be provided on the fabricated items. The supply items (accessories) must carry manufacturer’s warranty.
4. The vendors are encouraged to hold prior discussions with the indenter for any clarifications or suggestions.

Rahulnath P.P.
SO/D, CAD
Indenting Officer

**Contact Person**

Shri Rahulnath P.P. *(Indenting Officer)*
SO/D, Computational Analysis Division
CAD, BARC-Vizag
Ph: 0891-283-2036
Email: rahulnathpp@gmail.com
raulnath@barc.gov.in
MS Sheet 3mm

Handle: 02nos.

1160.00

350.00

654.00

540.00

1306.00

450.00

Teflon wheel: 1 ton capacity-04Nos.

All channel size: 75x40x40x5

Teflon Roller 1 Ton: OmniWheel-01Nos.

Quantity: 01 No.

All dimensions are in mm

**Frame**

<table>
<thead>
<tr>
<th>DIV: CAD</th>
<th>DRG. No.: 01</th>
<th>SCALE: 1:20</th>
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</thead>
<tbody>
<tr>
<td>WO/MF:</td>
<td>Material: MS</td>
<td></td>
</tr>
<tr>
<td>DATE: 24/07/2020</td>
<td>NAME: Rahulnath</td>
<td></td>
</tr>
<tr>
<td>DIV: CAD</td>
<td>DRG. No.: 02</td>
<td>SCALE: 1:10</td>
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<tr>
<td>---------</td>
<td>---------------</td>
<td>-------------</td>
</tr>
<tr>
<td>WO/MF:</td>
<td>Material: FRP</td>
<td></td>
</tr>
<tr>
<td>DATE: 24/07/2020</td>
<td>NAME: Rahulnath</td>
<td></td>
</tr>
</tbody>
</table>

Top Sheet

Quantity: 01 No.

All dimensions are in mm
Quantity: 01 No.

All dimensions are in mm

Front sheet

DIV: CAD | DRG. No.: 03 | SCALE: 1:10
---|---|---
WO/MF: | Material: Acrylic | 
DATE: 24/07/2020 | NAME: Rahulnath |
Quantity: 02 Nos.

All dimensions are in mm

MS sheet

DIV: CAD
DRG. No.: 04
SCALE: 1:5

WO/MF: Material: MS

DATE: 24/07/2020 NAME: Rahulnath
Quantity: 01 No.

All dimensions are in mm

Bottom sheet

DIV: CAD | DRG. No.: 05 | SCALE: 1:5
---|---|---
W.O./MF: | Material: FRP
DATE: 24/07/2020 | NAME: Rahulnath
Quantify: 01 No.

All dimensions are in mm

<table>
<thead>
<tr>
<th>Bottom sheet-2</th>
</tr>
</thead>
<tbody>
<tr>
<td>DIV: CAD</td>
</tr>
<tr>
<td>WO/MF:</td>
</tr>
<tr>
<td>DATE: 24/07/2020</td>
</tr>
</tbody>
</table>
Fig.02-Top sheet
Fig.04-MS sheet
Fig.01-Frame
Fig.03-Front sheet
Fig.05-Bottom sheet
Teflon wheel-1Ton-01No.(Omniwheel)
Teflon wheel-1Ton-04Nos

All dimensions are in mm

Assembly drawing

DIV: CAD
WO/MF:
DATE: 24/07/2020
NAME: Rahulnath

DRG. No.: 07
SCALE: 1:20
Cross section: Square Tube
(50x50x2mm)

All dimensions are in mm

Granite table: Frame

DIV: CAD
WO/MF: Material: MS square tube
DATE: 30/07/2020
NAME: Rahulnath
Granite slab

All dimensions are in mm

<table>
<thead>
<tr>
<th>DIV:CAD</th>
<th>DRG. No.:09</th>
<th>SCALE:1:10</th>
</tr>
</thead>
<tbody>
<tr>
<td>WO/MF:</td>
<td>Material:Granite</td>
<td></td>
</tr>
<tr>
<td>DATE:30/07/2020</td>
<td>NAME:Rahulnath</td>
<td></td>
</tr>
</tbody>
</table>
Granite Top

Omni Teflon wheel rollers-01Ton-04Nos.

MS Sheet 3mm thick

Sliding Drawer:-04Nos.

Adjustable legs:-04Nos.

Hinged door:-01 No.

MS Sheet 3mm thick

All dimensions are in mm

Granite table

DIV: CAD
DRG. No.: 10
SCALE: 1:15

WO/MF: Material:
DATE: 30/07/2020
NAME: Rahulnath
Adjustable legs

Quantity: 04 Nos.

All dimensions are in mm.

DIV: CAD
WO/MF:
DATE: 30/07/2020

DRG. No.: 11
Material: Rubber
NAME: Rahulnath
All parts are Powder coated
All dimensions are in mm

Workbench-1: Frame

<table>
<thead>
<tr>
<th>DIV: CAD</th>
<th>DRG. No.: 12</th>
<th>SCALE: 1:25</th>
</tr>
</thead>
<tbody>
<tr>
<td>WO:MF</td>
<td>Material: MS square tube</td>
<td></td>
</tr>
<tr>
<td>DATE: 30/07/2020</td>
<td>NAME: Rahulnath</td>
<td></td>
</tr>
</tbody>
</table>
**Workbench-1**

- **DIV:** CAD
- **DRG. No.:** 13
- **SCALE:** 1:20

**WO/MF:**
- Material: MS square tube

**DATE:** 30/07/2020
**NAME:** Rahuhnath

All dimensions are in mm
All MS components are powder coated
All dimensions are in mm

Frame: Workbench-2

DIV: CAD
WO/MF:
DATE: 04/06/2020

D RG. No.: 14
Material: MS square tube
SCALE: 1:25
NAME: Rahulinath
All MS components are powder coated
All dimensions are in mm

Workbench-2

DIV: CAD | DRG. No.: 15 | SCALE: 1:12
WO/MF: | Material: |
DATE: 04/08/2020 | NAME: Rahulnath
Pneumatic Vessel Assembly

DIV: CAD

WO/MF: 

DATE: 12/03/2020

NAME: Rahuhnath 

Pneumatic Vessel Assembly

DIV: CAD

WO/MF: 

DATE: 12/03/2020

NAME: Rahuhnath 

All dimensions are in mm
All dimensions are in mm

Anode

<table>
<thead>
<tr>
<th>DIV: CAD</th>
<th>DRG. No.: 17</th>
<th>SCALE:</th>
</tr>
</thead>
<tbody>
<tr>
<td>WO/MF:</td>
<td>Material: Cu-ETP</td>
<td></td>
</tr>
<tr>
<td>DATE: 12/08/2020</td>
<td>NAME: Rahul</td>
<td></td>
</tr>
</tbody>
</table>
Cathode - 14mm ID

External Threading 1.5 mm pitch

Internal Threading 1.5 mm pitch

All dimensions are in mm
Cathode - 12mm ID

All-dimensions are in mm

DIV: CAD | DRG. No. 19 | SCALE:
---|---|---
WO/MF: | Material: Cu-ETP | 
DATE: 12/08/2020 | NAME: Rahul |
**Insulator Nut**

DIV: CAD | DRG. No.: 20 | SCALE:  
---|---|---
WO/MF: | Material: Teflon |  
DATE: 12/08/2020 | NAME: Rahulnath |
All dimensions are in mm

**insulator**

DIV: CAD       DRG.: 21       SCALE:

WO/MF:         Material: Teflon

DATE: 12/03/2020       NAME: Rahulnath
Internal Tapping Match with Copper Cathode

All dimensions are in mm

Nozzle

DIV: CAD  DRG. No.: 22  SCALE:

WO/MF: Material: Cu-ETP

DATE: 12/08/2020  NAME: Rahulnath
All dimensions are in mm

**Teflon C**

<table>
<thead>
<tr>
<th>DIV: CAD</th>
<th>DRG. No.: 23</th>
<th>SCALE:</th>
</tr>
</thead>
<tbody>
<tr>
<td>WO/ MF:</td>
<td>Material: Teflon</td>
<td></td>
</tr>
<tr>
<td>DATE: 12/08/2020</td>
<td>NAME: Rahulnath</td>
<td></td>
</tr>
<tr>
<td>Plates</td>
<td></td>
<td></td>
</tr>
<tr>
<td>-------</td>
<td></td>
<td></td>
</tr>
<tr>
<td>DIV: CAD</td>
<td>DRG. No.: 24</td>
<td>SCALE:</td>
</tr>
<tr>
<td>WO/MF:</td>
<td>Material:</td>
<td></td>
</tr>
<tr>
<td>DATE: 12/08/2020</td>
<td>NAME: Rahulnath</td>
<td></td>
</tr>
</tbody>
</table>

All dimensions are in mm