

**GOVERNMENT OF INDIA
BHABHA ATOMIC RESEARCH CENTRE
ATOMIC FUELS DIVISION**

Ref: AFD/ESAS/22/43000

Date: 06/06/2022

Sub: Fabrication, Erection and Commissioning of ESD Workbenches for Electronics Lab at AFD, South Site, BARC

Scope of work:

Fabrication, Erection and Commissioning of the following:

Sr No.	Name of Items	Qty
1.	Single Phase ESD Workbench with Cockpit	1
2.	Three Phase ESD Workbench with Cockpit	1
3.	Mechanical Workbench	2
4.	ESD Chair with PU Integral foam Seat & Back with Conductive Castor	2
5.	ESD High Stool with PU Integral foam Seat & Back with Conductive Castor	2

Other details:

1. The completion period of this job should be within **1 month** from the date of issue of Work Order.
2. Persons having valid PVC will only be allowed to enter BARC to execute the job.
3. Warranty period should be 12 months after completion of work.
4. The payment will be made after the satisfactory completion of the work.
5. Income tax and S.C. as applicable will be deducted from the bill.
6. Any delay which is attributed to the contractor is liable for penalty @0.5% per week (max. 5%) will be imposed on contractor.
7. The offer shall be forwarded as per following guidelines:
 - a) Quotations are to be on printed letter head/ quotation format which should consist of sales tax registration number registered with local ST authority/ CST authority/ GST PAN of the firm, Service Tax registration number etc., and Computer generated quotation shall be considered invalid and rejected.
 - b) Sealed offer with tender number and due date legibly written on the sealed envelope should reach through speed post/registered post only on or before **29/07/2022**.

To,

**N. N. Satvilkar, (022-25594964/7)
Atomic Fuels Division
South Site, BARC
Trombay, Mumbai – 400085.**

- b) The contractor shall have to visit the site to comprehend the scope of work and equipment condition. The same will be arranged by the undersigned. The site can be visited between **04/07/2022 to 08/07/2022** on working days between 10:30am to 4:00 pm. however prior intimation of at least three working days is necessary.

The quotation submitted without site visit will not be considered.

Details and Confidentially & Publicity Clause

- I. 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-contractor, consultant, adviser or employees engaged by a party with equal force
- II. **"Restricted information" categories under section 18n of the Atomic Energy Act, 1962 and "Official Secret under Section 5 of the Official Secret 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 consequence under the aforesaid legislation.
- III. Prohibition against use of BARC's name without permission for the publicity purpose:
The contractor, 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 of BARC. Contractor shall obtain Police verification certificate for all his employees including his supervisors and workers engaged in the work.



(N. N. Satvilkar)

SO/E, ESAS, AFD

For & On behalf of President of India

**GOVERNMENT OF INDIA
BHABHA ATOMIC RESEARCH CENTRE
ATOMIC FUELS DIVISION**

Sub: Annexure to the Enquiry with Ref: AFD/ESAS/22/43000 for Fabrication, Erection and Commissioning of ESD Workbenches for Electronics Lab at AFD, South Site, BARC

Brief Description of the items to be Fabricated, Erected and Commissioned:

1. Single Phase ESD Workbench with Cockpit:

a. ESD Table:

- i. Aluminum table - 1800x1000x780mm (LxDxH)
- ii. 4 pieces of Right angle (100x100mm) shaped aluminum Leg profiles
- iii. 28 mm thick conductive (HPL) ESD Volumetric Worktop, with front edges rounded by 50 mm.
- iv. 40 X 40 mm heavy duty table frame made of aluminum.
- v. Completely grounded with special set of screws.
- vi. ESD Range: 10^4 to 10^8 Ohms confirming to IEC 61340-5-1 & ANSI ESD S20.20.2014
- vii. Weight carrying capacity : upto 400Kg

b. Extended Leg profile:

Aluminum Leg profile -1600 mm length.

c. Instrument Panel:

Instrument Panel with Dimensions 1800x500(LXD) mm.

d. LED Lighting

Touch Sensor based LED lighting system with 3000 lumens intensity, fitted in below the proposed 19" Cockpit/Panel.

e. Perforated sheet with 10x10mm standard square shaped perforations.

f. Energy Channel Horizontal mounting:

- i. 2 nos 6A power socket, 2nos 20A power socket,
- ii. RJ 45 Socket -4nos
- iii. USB Port -4nos (2 Version 3.0 & 2 version 2.0)
- iv. DB9 Sockets -2nos
- v. HDMI -2nos
- vi. Power Supply Terminal – 2'set - 3nos, 3's set - 2nos
- vii. Emergency Stop, MCB 1no, ELCB 1no, with indication

g. 6U ESD Cockpit/ Panel : 1800mm cockpit mounted on rear L Profile

h. Storage Drawer -3 equal compartmental drawers with central locking facility.

2. Three Phase ESD Workbench with Cockpit:

a. ESD Table:

- i. Aluminum table - 1800x1000x780mm (LxDxH)
- ii. 4 pieces of Right angle (100x100mm) shaped aluminum Leg profiles
- iii. 28 mm thick conductive (HPL) Volumetric ESD Worktop, with front edges rounded by 50 mm
- iv. 40 X 40 mm heavy duty table frame made of aluminum
- v. Completely grounded with special set of screws.
- vi. ESD Range: 10^4 to 10^8 Ohms confirming to IEC 61340-5-1 & ANSI ESD S20.20.2014
- vii. Weight carrying capacity : upto 400Kg

b. Extended Leg profile:

Aluminum Leg profile -1600 mm length.

c. Instrument Panel:

Instrument Panel with Dimensions 1800x500(LXD) mm.

d. LED Lighting:

Touch Sensor based LED lighting system with 3000 lumens intensity, fitted in below the proposed 19" Cockpit/Panel.

e. Perforated sheet with 10x10mm standard square shaped perforations.

f. Energy Channel Horizontal mounting:

- i. 2 nos. 6A power socket
- ii. 2 nos. 20A power socket
- iii. 3 Phase Socket
- iv. Emergency Stop, MCB 64A, 4 pole, with indication
- v. Isolation Transformer 200VA

g. 6U ESD Cockpit/ Panel : 1800mm cockpit mounted on rear L Profile

h. Storage Drawer -3 equal compartmental drawers with central locking facility

3. Mechanical Workbench:

a. Table:

- i. Aluminum table - 1200mm (L) X 1000 mm (D) X 780 mm (H))
- ii. 4 pieces of Right angle (100x100mm) shaped aluminum Leg profiles
- iii. 40 mm thick Solid wood Worktop
- iv. 40 X 40 mm heavy duty table frame made of aluminum
- v. Weight carrying capacity : upto 400Kg

b. Extended Leg profile:

Aluminum Leg profile -1350 mm length

c. Instrument Shelf:

Instrument Shelf with Dimensions 1200x500(LXD) mm

d. LED Tube light:

20-watt LED Tube light

e. Perforated sheet with 10x10mm standard square shaped perforations, Storage Bins with tool hanging & other accessories.

f. Energy Channel Horizontal mounting

6 nos 5/15A power Sockets with MCB.

g. Storage Drawer -3 equal compartmental drawers with central locking facility

4. ESD Chair with PU Integral foam Seat & Back with Conductive Castor:


Backrest and seat made with ESD Thermoplastic PU Integrated Foam with:

- a. Adjustable back
- b. Height Adjustment: 480 – 600mm
- c. ESD Casters/Glides
- d. ESD Range: 10^6 to 10^7 Ohms confirming to IEC 61340-5-1 & ANSI ESD S20.20.2014
- e. Weight carrying capacity : up to 120Kg
- f. Seat – 440x420 (WxD) mm and Backrest – 420x310 (WxD) mm
- g. die cast aluminium 5 star base with conductive castors

5. ESD High Stool with PU Integral foam Seat & Back with Conductive Castor:

Seat made with ESD Thermoplastic PU Integrated Foam with:

- a. Height adjustment: 580 – 840mm
- b. ESD Casters
- c. ESD Range: 10^6 to 10^7 Ohms confirming to IEC 61340-5-1 & ANSI ESD S20.20.2014
- d. Seat – 350x75 (Dia x T) mm
- e. Weight carrying capacity : up to 120Kg
- f. die cast aluminium 5 star base with conductive castors


सतवीलकर एन. एन. / SATVILKAR N. N.
वैज्ञानिक अधिकारी (E) / Scientist Officer (E),
परमाणु ईंधन विभाग / Atomic Fuel Division,
भारत सरकार, Government of India,
भाभा परमाणु अनुसंधान केंद्र,
For & On behalf of President of India
Bhabha Atomic Research Centre,
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