

Enquiry Number 2771065E/12.10.2017

TITLE: Specification For Capital Item For E-Shop & Embedded Systems Lab

ITEM: ESD Safe Electronic Workbench

PREPARED BY:

NAME	DESIGNATION	DEPARTMENT	SIGNATURE
Arvind Tiwary	Senior Engineer	Embedded Systems	

CHECKED BY:

NAME	DESIGNATION	DEPARTMENT	SIGNATURE
Remya Kukkilliya	Senior Engineer	Embedded Systems	

APPROVED BY:

NAME	DESIGNATION	DEPARTMENT	SIGNATURE
V.S.Suresh Kumar	DGM	Embedded Systems	

ISSUED BY:

DEPARTMENT	REVISION NO
EDC- Embedded Systems	00

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TECHNICAL SPECIFICATION FOR ELECTRONIC WORKBENCH

The proposed Electrostatic Discharge (ESD) safe Electronic Workbench (EWB) is intended to be used in lab and production area for electronic controller (hardware & software) development, configuration, testing and repair activities. It should have the following features:

Feature	BHEL Requirement	Supplier comments
Construction	Modular, MS profile with powder coated finish for industrial use. 40mm X 40mm square tube frames or equivalent tubular frames may be used.	
Dimensions	Work area: 1500mm to 1800mm length X 700mm to 900mm breadth. Overall height : 1800mm to 2000mm	
ESD work area	Antistatic dissipative hard laminate work surface with surface resistance in the range 10^6 to 10^9 ohms. Thickness of work are should be minimum 15mm.	
Lighting	Overhead lighting (fluorescent/LED), along with the EWB canopy to cover the work area, with ON/OFF switch	
Power panel	16A MCB - 1 no 230V 5/15A- 3 pin socket with switch – 4 nos (minimum). Connector and cable for external main power input – 1 no Indicating lamps All wiring shall be concealed at the back.	
Grounding	Provision for grounding of the EWB must be available	
Wrist Strap	One number of wrist strap with connection to the EWB	
Storage	Storage drawers with keys and bin/shelves must be available	
Utility	Provision for PC mouse and keyboard placement (sliding tray) must be available	
Paint shade	Will be informed after PO	

Scope of supply:

1. ESD Safe Electronic Workbench (EWB) – Requirement is 22 Set

Note:

1. Supplier should specify concurrence to each point in the specification. List of deliverables should be mentioned in the offer. Packaging, delivery and installation shall be in the scope of supplier.

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2. Final drawings, dimensions and color shall be approved by M/s BHEL before manufacturing.
3. All electrical accessories in the EWB should be of ISI approved makes.
4. Supplier shall try to meet the minimum requirements as in or similar to drg no: 4-00-111-01113. The dimensions mentioned in the drawing are approximate. Minimum tolerance is acceptable.



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Pre-Qualification Criteria

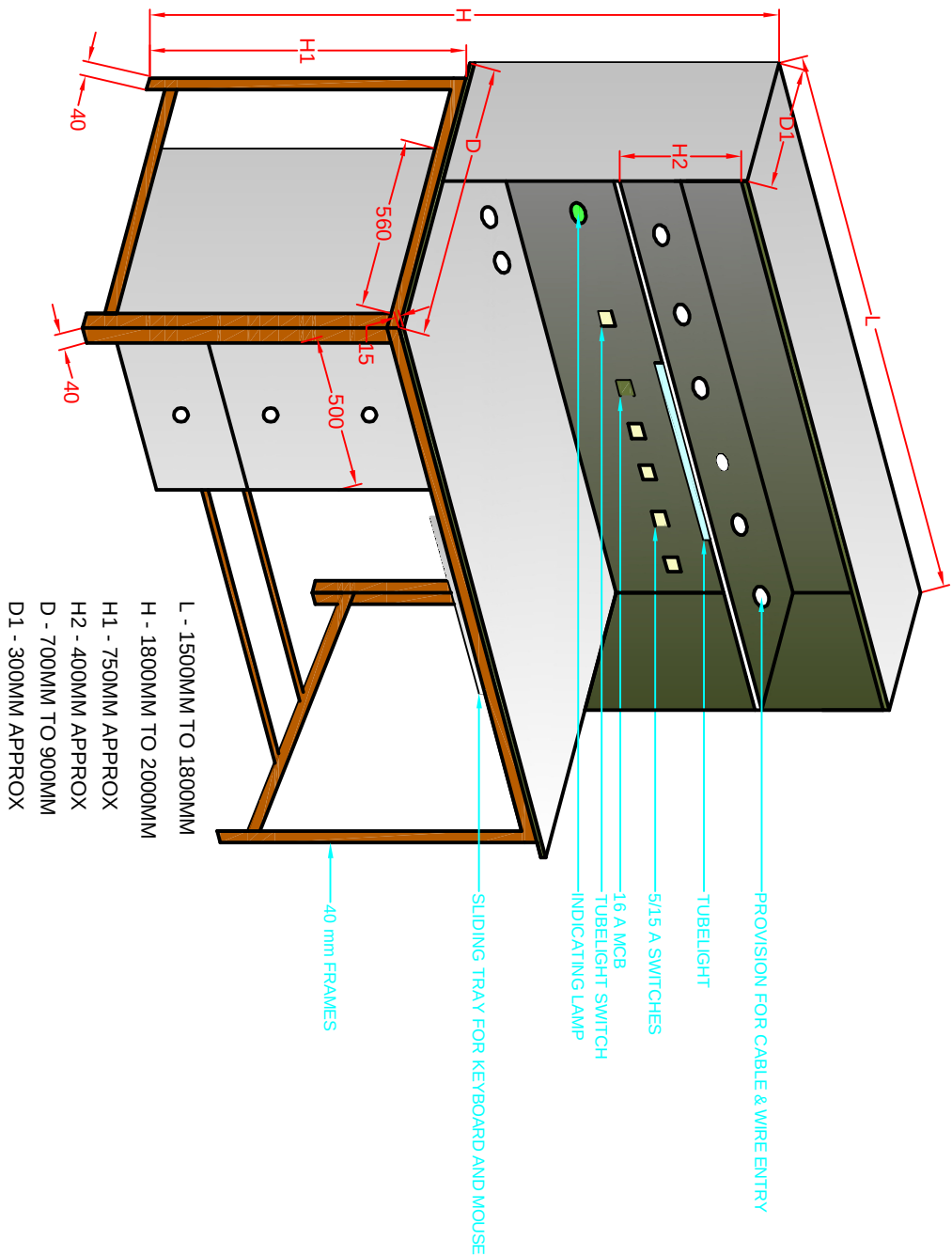
1	The Vendor should have supplied minimum of 05 No of ESD safe workbenches to any state/central government, public sector organisations/institutions/labs in last 5 years.
2	Along with the Offer the following information should be submitted by the vendor about the companies where similar Equipment has been supplied. 1. Name of the customer / company where installed. 2. Complete postal address of the customer. 3. Month & Year of supply 4. Name and designation of the contact person of the customer. 5. Phone, FAX no. and email address of the contact person of the customer.
3	Authorization certificate: Only the original equipment manufacturer Or their authorized Agents / distributors / dealers are eligible to quote. Along with the offer valid authorization certificate from the original equipment manufacturer should be submitted if the offer submitted by an Agent / distributor / dealers.
4	Catalogue & Drawings: The specification cum compliance certificate given in the annexure for the offered item should be duly filled & submitted along with the relevant catalogue & drawings for bid consideration.

After satisfactory fulfilment of all the above criteria condition / requirement, offer shall be considered for further evaluation as per NIT and all other terms of the tender.

NOTES:-

1. Bidders shall note & clearly mention their acceptance/remarks for the criteria's given above.
2. Duly filled copy of this format to be submitted along with the supporting documents for bid consideration.
3. After satisfactory fulfilment of all the above criteria/ requirement, offer shall be considered for further evaluation as per NIT and all other terms of the tender.

ELECTRONIC WORKBENCH



ALL DIMENSIONS IN MILLIMETERS

GENERAL

BHAAT HEAVY ELECTRICALS LIMITED, PLOT NO. 10, PHASE II, INDUSTRIAL AREA, GATE NO. 1, MUMBAI - 400 002				DEPT	CODE	DATE
				NAME	DATE	DATE
				DESIGN	DATE	DATE
				APPROV	DATE	DATE

BHEL/BHP Dwg No. 4-70-111-01113		SCALE : NTS		SHEET 01 OF 01		REV 00
						Rev 04