



ಭಾರತ್ ಹೆವಿ ಎಲೆಕ್ಟ್ರಿಕಲ್ಸ್ ಲಿಮಿಟೆಡ್
भारत हेवी इलेक्ट्रिकल्स लिमिटेड

Bharat Heavy Electricals Ltd.,
(A Government of India undertaking)
Electronics Division
PB 2606 , Mysore Road Bangalore , 560026 INDIA

**Tender Document for " Supply of Operator Desk & Furniture to ADANI MAHAN
ULTRAT SUPERCRITICAL TPS 2X800MW "**

TENDER REFERENCE	NJP0000075
TENDER DOCUMENT AVAILABLE FROM	As per https://eprocurebhel.co.in website
LAST DATE AND TIME FOR SUBMISSION OF TENDER	
DATE AND TIME FOR TENDER OPENING	
SUBMISSION OF TENDER	The bidder should submit their offer in eProcurement portal only : https://eprocurebhel.co.in

**Note: Bidder to refer E-procurement portal(<https://eprocurebhel.co.in>) for any
corrigendum, due date extension, etc. index:**

This tender Document contains documents as per below Index:

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<u>SL No.</u>	<u>DESCRIPTION</u>
1	SPECIAL COMMERCIAL CONDITIONS OF CONTRACT(SCC)
2	INSTRUCTIONS TO BIDDERS
3	GENERAL COMMERCIAL CONDITIONS FOR CONTRACT
4	TECHNICAL SPECIFICATION WITH PRE-QUALIFICATION REQUIREMENTS

Contact Person at BHEL: Nandjee Pandit, BHEL/Engineer(CE-MM-PR) Ph: 080-26998053,9591976250



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Bharat Heavy Electricals Ltd.,
(A Government of India undertaking)
Electronics Division

CE: PR: 003- Rev 02

PB 2606 , Mysore Road Bangalore , 560026 INDIA

SPECIAL COMMERCIAL CONDITIONS OF CONTRACT

Reference is brought to BHEL's Instructions to Bidders (Document Ref: CE: PR: 001- Rev 05) and General Commercial Conditions for Contract (Document Ref: CE: PR: 002- Rev 03).

These two documents along with Special Conditions of Contract annexed to this RFQ will form an integral part of the contract as and when the RFQ culminates into a Purchase Order / Contract.

RFQ No. : **NJP0000075**
RFQ Date : As per E-procurement website
RFQ Due Date : As per E-procurement website
Customer/Project : **ADANI MAHAN ULTRAT SUPERCRITICAL TPS 2X800MW**
Scope Description : **OPERATOR DESK AND FURNITURE**

Kindly submit your quotation as **two part bid** (Pre-Qualification Criteria & Techno-Commercial bid-1st part & Price bid-2nd Part) in E-Procurement System portal: <https://eprocurebhel.co.in> within the Due- Date of ____ As per E-procurement website ____ before ____ As per E-procurement website ____ hours IST and note that tenders will be opened on the same day at ____ As per E-procurement website ____ hours IST.

Purchase Executives: Clarifications with regard to the tender shall be addressed to purchase officers whose e-mail IDs are given below:

nandjee@bhel.in or rk.pandey@bhel.in

Splitting of tendered quantity to MSE vendors for Purchase preference: Non-Splitable

Destination: For Indigenous scope of supply, items are to be directly despatched to BHEL site office/stores located at **SINGRAULI** in **MADHYA PRADESH** state respectively, India. Detailed Consignee details will be issued by BHEL along with Despatch Clearance.

Terms of Delivery:

- **Indigenous scope of supply:** Ex-works, <indicate station of dispatch> (including Packing & Forwarding charges but excluding Taxes).

Under-mentioned details shall be provided against indigenous supplies & services:

a. GSTIN of place of supply : _____

b. HSN (Harmonized System of Nomenclature) code : _____
Applicable tax and Rate : _____ & _____

c. GSTIN of place of supply of service : _____

d. SAC (Service Accounting Code) : _____
Applicable tax and Rate : _____ & _____

e. GeM Seller ID mandatorily required for PO placement: _____

f. MSE vendor : Yes-MSE supporting documents enclosed/No
(If MSE, supporting documents such as Udyam certificate to be enclosed)

I. Bidders to mandatorily provide confirmation/compliance for the under-mentioned terms:

SL NO	TERMS	BHEL ACCEPTABLE TERM	BIDDER'S CONFIRMATION	REMARKS ,if any
01	Reverse Auction (RA)	BHEL shall be resorting to Reverse Auction (Guidelines as available on https://pem.bhel.com/Documents/VendorSection/RA%20Guidelines%202024.pdf) for this tender. RA shall be conducted among all the techno-commercially qualified bidders. Price bids of all techno-commercially qualified bidders shall be opened and same shall be considered as initial bids of bidders in RA. In case any bidder(s) do(es) not participate in online Reverse Auction, their sealed envelope price bid along with applicable loading, if any, shall be considered for ranking.	AGREE	
02	Delivery Period	Within 12 weeks from the date of issue of Manufacturing clearance along with approved document. Delay in contractual delivery will attract Penalty as per GCC Clause no.:04.b.	AGREE weeks	
03	Terms of Payment at the time of material supply	Refer Clause "F" of Instructions to Bidder for BHEL standard Payment terms and loading factors applicable for non-compliance against payment terms: <i>"100% of basic PO value with taxes and freight will be paid in 45 days from the date of dispatch or 15 days from the date of submission of complete set of documentation, whichever is later."</i> <u>Note:</u> MSME vendors may opt to get payment through Trade Receivables electronic Discounting System (TReDS)	AGREE	
04	Declaration of local content : The 'Class-I local supplier' shall be required to indicate percentage of local content and provide certification that the item offered meets the local content requirement for 'Class-I local supplier'.	'Local content' means the amount of value added in India which shall, unless otherwise prescribed by the Nodal Ministry, be the total value of the item procured (excluding net domestic indirect taxes) minus the value of imported content in the item (including all customs duties) as a proportion of the total value, in percent. (Refer Clause 'A' Sl. No. 12 of Instructions to Bidders).	Percentage of local content : _____% Details of the Location(s) at which the local value addition is made : _____	

II. Bidder to note that Deviations shall not be permitted for the below mentioned terms and are deemed to be complied. In case of non-compliance/deviation, offer shall be liable for rejection:

- (1) **Submission of documents post PO viz., drawings /data sheet etc. as indicated in Cl: 04 of GCC:** Within **02** weeks from the date of receipt of Purchase Order. Delay in submission of complete set of specified documents in NIT, will attract Penalty as per GCC Clause no.:04.a.
- (2) **Validity:** The offer will be valid for a period of **90** days from the date of part-I bid opening and in case of Negotiation/ Counter-offer/RA, price validity will apply afresh for a period of **60** days from the date of according final price by bidder (or) up to original validity period, whichever is later.
- (3) **Warranty:** Warranty period of the supplied products shall be applicable for a period of **24** months from the date of dispatch of goods or **18** months from date of commissioning whichever is earlier.
- (4) **Despatch Documents:** Complete set of despatch documents (original + 1 photocopy set) as per Purchase Order shall be forwarded to Purchase Executive/BHEL directly. Depending upon the project/customer demands, Despatch documents may include one (or) more documents from the following: Invoice (01 original and 01 copy with original sign & seal / digitally signed invoice), Lorry Receipt (L/R), Packing List, NIL Short-Shipment Certificate, Warranty certificate, insurance intimation letter, E-way bill, original POD (Proof of Delivery) on L/R.

The precise list of despatch documents needed for the project will be specified in the Purchase Order.

One set of Invoice, Packing List, Lorry Receipt (or) AWB/BOL shall be e-mailed immediately to BHEL-EDN at the time of despatch.

Note: Detailed Packing List should indicate package-wise content details and also Net & Gross weight of each package.

- (5) **Freight Charges:** Freight charges for complete scope of supply shall be to vendor's account. Bidder to quote reasonable Freight charges along with applicable tax, in price bid.
- (6) **Evaluation criteria to determine L1 bidder:** Items will not be split on item-wise lowest offer. The Procuring Entity reserves its right to grant preferences to eligible Bidders under various Government Policies/ directives (policies relating to Make in India, MSME etc.)

- a. Preference to Micro & Small Enterprises (MSEs): Purchase preference will be given to MSEs as defined in *Public Procurement Policy* for Micro and Small Enterprises (MSEs) Order, 2012 dated 23.03.2012 issued by Ministry of MSME (and its subsequent Orders/Notifications issued by concerned Ministry) & the latest *Office Memorandum* issued by Department of Expenditure dt:18.05.2023.

If the bidder wants to avail the Purchase preference, the bidder must be the manufacturer of the offered product in case of bid for supply of goods. Traders are excluded from the purview of Public Procurement Policy for Micro and Small Enterprises. Relevant documentary evidence in this regard shall be uploaded along with the bid in respect of the offered product.

- b. Preference to Make in India (MII) products: Preference shall be given to Class 1 local supplier as defined in public procurement (Preference to Make in India) order 2017 as amended from time to time (and its subsequent Orders/Notifications issued by concerned Nodal Ministry for specific Goods/Products) & the latest *Office Memorandum* issued by Department of Expenditure dt:18.05.2023 and Revision dt.19-07-2024

{‘Class-I local supplier’ means a supplier or service provider, whose goods, services or works offered for procurement, has local content equal to or more than 50%, as defined under Public procurement order no.P-45021/2/2017-PP (BE-II) dt: 16.09.2020 and revision dt.19-07-2024.

‘Class-II local supplier’ means a supplier or service provider, whose goods, services or works offered for procurement, has local content more than 20% but less than 50%, as defined under Public procurement order no.P-45021/2/2017-PP (BE-II) dt: 16.09.2020 and revision dt.19-07-2024}

In the event of any Nodal Ministry prescribing higher or lower margin of purchase preference and/or higher or lower percentage of local content in respect of this procurement, same shall be applicable.’}

If the bidder wants to avail the Purchase preference, the bidder must upload a certificate from the OEM regarding the percentage of the local content and the details of locations at which the local value addition is made along with their bid, failing which no purchase preference shall be granted.

Default margin of purchase preference shall be 20% to local suppliers with default minimum local content of 50%.

Note: For this procurement, the local content to categorize a supplier as a Class I local supplier/ Class II local Supplier/ Non local supplier and purchase preference to Class I local supplier, is as defined in Public Procurement (Preference to Make in India), Order 2017 dated 19.07.2024 issued by DPIIT. In case of subsequent orders issued by the nodal ministry, changing the definition of local content for the items of the NIT, the same shall be applicable even if issued after issue of this NIT, but before opening of Part-II bids against this NIT.

Operation methodology of Purchase preference clause to MSE & MII bidders is as detailed under clause:4.c.b) in the Office Memorandum issued by Department of Expenditure dt:18.05.2023 (ref. Annexure-VIII of ITB).

Note: In case of negotiations, the margin of purchase preference (20% for Class-I Non-MSE or 15% for MSE) shall be based on pre-negotiated L1 price and the eligible Class-I & MSE local bidder will have to match the negotiated L1 price.

(7) **Erection & Commissioning - Evaluation methodology:**

E&C charges should not be less than **05%** of the Main-item supply. In case the quoted total E&C value is less than **05%** of the Main-item supply value, BHEL shall evaluate Bidder’s Price deducting differential amount from supply price proportionally from all items and apportioning towards E&C charges.

Payment terms for E&C charges: 100% E&C charges along with tax as applicable, will be paid in 15 days from the date of submission of supplementary invoice/documents against proof of successful completion of installation & commissioning.

Note: Wherever bidders doesn’t agree for such apportioning, the differential charges shall be retained from main supply invoice and retention amount will be paid after successful completion of Erection & Commissioning.

(8) **Based on the under-mentioned declarations of Bidder as insisted under Rule 144(Xi) of General Financial Rules,2017 amendment dt 24.02.2023, eligibility of offer will be ascertained in the tender:**

"I have read the clause regarding restrictions on procurement from a bidder of a country which shares a land border with India; I certify that our firm is not from such a country or, if from such a country, has been registered with the Competent Authority. I hereby certify that our firm fulfils all requirements in this regard and is eligible to be considered."

Note: Wherever applicable, evidence of valid registration by the Competent Authority shall be attached.

Additional declaration by Bidder in the cases of specified Transfer of Technology (ToT):

"I have read the clause regarding restrictions on procurement from a bidder having Transfer of Technology (ToT) arrangement. I certify that our firm does not have any ToT arrangement requiring registration with the Competent Authority."

OR

"I have read the clause regarding restrictions on procurement from a bidder having Transfer of Technology (ToT) arrangement. I certify that our firm has valid registration to participate in this procurement."

(9) **Integrity Pact:** Not applicable.

(10) **EMD/Bid security:** Not Applicable

(11) **Performance security:** Not applicable.

With this, we hereby confirm that all the terms & conditions as indicated in Instructions to Bidders (Document Ref: CE: PR: 001- Rev 05) & General Commercial Conditions for Contract (Document Ref: CE: PR: 002- Rev 03) are accepted without any deviation.

Vendor's Signature with Seal



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Bharat Heavy Electricals Ltd.,
(A Government of India undertaking)
Electronics Division

PB 2606 , Mysore Road Bangalore , 560026 INDIA

CE:PR:001- Rev 05

INSTRUCTIONS TO BIDDERS

Bidder is requested to read the instructions carefully and submit their quotation taking into consideration of all the points:

A. GENERAL INSTRUCTIONS:

1. Any Purchase Order resulting from this enquiry shall be governed by the Instructions to Bidders (document reference: CE: PR: 001 – Rev 05), General Conditions of Contract (document reference: CE: PR: 002 - Rev 03) and Special Conditions of Contract, if any, of the enquiry. If any term mentioned in Special Conditions of Contract (SCC) contradicts relevant clause in either Instructions to Bidders (ITB) or General Conditions of Contract (GCC), the term mentioned in SCC will supersede the corresponding term in ITB / GCC.
2. Any deviations from or additions to the “General Conditions of Contract” or “Special Conditions of Contract” require BHEL’s express written consent. The general terms of business or sale of the bidder shall not apply to this tender.
3. Regret letter (either through post or by mail or by EPS) indicating reasons for not quoting must be submitted without fail, in case of non-participation in this tender.

Supplier shall be liable for removal as a registered vendor of BHEL when the supplier fails to quote against four consecutive tender enquiries for the same item or all enquiries in last two years for the same item, whichever is earlier.

4. Procurement directly from the manufacturers is preferred. However, if the OEM/ Principal insist on engaging the services of an agent, such agent shall not be allowed to represent more than one manufacturer/ supplier in the same tender.

Moreover, either the agent could bid on behalf of the manufacturer/ supplier or the manufacturer/ supplier could bid directly but not both. Agent/Representative authorized by the OEM/Principal in turn cannot further sub authorize any other firm for submitting the offer or for placement of order.

In case bids are received from the manufacturer/ supplier and his agent, bid received from the agent shall be ignored.

5. Consultant / firm (and any of its affiliates) shall not be eligible to participate in the tender/s for the related goods for the same project if they were engaged for consultancy services for the same project.
6. If an Indian representative/associate/liaison office quotes on behalf of a foreign based bidder, such representative shall furnish the following documents:
 - a. Authorization letter to quote and negotiate on behalf of such foreign-based bidder.
 - b. Undertaking from such foreign based bidder that such contract will be honored and executed according to agreed scope of supply and commercial terms and conditions.

- c. Undertaking shall be furnished by the Indian representative stating that the co-ordination and smooth execution of the contract and settlement of shortages/damages/replacement/repair of imported scope till the equipment is commissioned and handed over to customer will be the sole responsibility of the Indian representative/associates/agent/liaison office.

- d. Refer **Annexure I** on “Guidelines for Indian Agents”.

- 7. In case of imported scope of supply, customs clearance & customs duty payment will be to BHEL account after the consignment is received at Indian Airport /Seaport. Bidders must provide all original documents required for completing the customs clearance along with the shipment.

Warehousing charges due to incomplete or missing documentation will be to supplier’s account. All offers for imported scope of supply by air, must be made from any of the gateway ports (within the country) indicated **(Refer Annexure II)**.

- 8. The offers of the bidders who are on the banned list and also the offers of the bidders, who engage the services of the banned firms, shall be rejected. The list of the banned firms is available on BHEL website: http://www.bhel.com/vender_registration/vender.php
- 9. Business dealings with bidders will be suspended if they are found to have indulged in any malpractices/misconduct which are contrary to business ethics like bribery, corruption, fraud, pilferage, cartel formation, submission of fake/false/forged documents, certificates, information to BHEL or if they tamper with tendering procedure affecting the ordering process or fail to execute a contract, or rejection of 3 consecutive supplies or if their firms / works are under strike/lockout for a long period. Bidder may refer “Guidelines for Suspension of Business Dealings with Suppliers/ Contractors” available on www.bhel.com for more details.

The Bidder declares that they will not enter into any illegal or undisclosed agreement or understanding, whether formal or informal with other Bidder(s). This applies in particular to prices, specifications, certifications, subsidiary contracts, submission or non-submission of bids or any other actions to restrict competitiveness or to introduce cartelization in the bidding process. In case, the Bidder is found having indulged in above activities, suitable action shall be taken by BHEL as per extant policies / guidelines.

- 10. The bidder along with its associate/collaborators/sub-contractors/sub-vendors/consultants/service providers shall strictly adhere to BHEL Fraud Prevention Policy displayed on BHEL website <http://www.bhel.com> and shall immediately bring to the notice of BHEL Management about any fraud or suspected fraud as soon as it comes to your notice.

- 11. Offer is to be submitted in English language only.

- 12. For this procurement, the local content to categorize a supplier as a Class-I local supplier/ Class-II local supplier/ Non-local supplier and purchase preference to Class-I local supplier, is as defined in Public procurement (Preference to Make in India), Order 2017 dated 16.09.2020 issued by DPIIT.

In case of subsequent Orders issued by the Nodal Ministry, changing the definition of local content for the items of the NIT, the same shall be applicable even if issued after issue of this NIT, but before opening of price bids against this NIT. Default margin of purchase preference shall be 20% for Class-I local supplier only.

- 13. The Bidder shall mandatorily submit Declaration as mentioned under Rule 144(xi) of General Financial Rules, 2017 amendment dt 23.07.2020 issued by Ministry of Finance, Govt. of India. Where applicable, evidence of valid registration by the Competent Authority shall be attached.

The Competent Authority for the purpose of registration under this Order shall be the Registration Committee constituted by the Department for Promotion of Industry and Internal Trade (DPIIT). Refer Annexure-IX for 'Restrictions under Rule 144(Xi) of General Financial Rules, 2017 amendment dt: 23.07.2020'.

B. GUIDELINES FOR PREPARATION OF OFFER:

1. Quotation shall be submitted in Single Part Bid, Two Part Bid or Three Part Bid, as called for in the tender:

- **SINGLE PART BID:** Technical and Commercial Bid with prices along with price summary & filled in BHEL Standard Commercial terms and conditions in a single sealed envelope.
- **TWO PART BID:** Unpriced offer i.e. "Techno-commercial Bid" with filled in BHEL Standard Commercial terms and conditions in a sealed envelope **along with the copy of the "Price Bid" without the prices** should be enclosed in one cover and the cover must be super scribed "**Techno-commercial offer**) and Priced offer i.e. "Price Bid "containing price summary in a separate sealed envelope and must be super scribed "**Price Bid**".

Both these envelopes shall be enclosed in a single sealed envelope superscribed with enquiry number, due date of tender and any other details as called for in the tender document.

- **THREE PART BID:** Pre-qualification Bid (Part-I), Techno Commercial Bid with filled in BHEL Standard Commercial terms and conditions (Part-II), and Price Bid (Part-III). All three envelopes shall be enclosed in a single sealed envelope superscribed with enquiry number, due date of tender and any other details as called for in the tender document.

If any of the offers (Part I, Part II or Part III) are not submitted before the due date and time of submission (or) if any part of the offer is incomplete, the entire offer of the bidder is liable for rejection.

2. Supplier shall ensure to superscribe each envelope with RFQ number, RFQ Date, RFQ Due date and time, Item Description and Project clearly & boldly. Also mention on the envelope whether it is "Techno Commercial Bid" or "Price Bid" or "Pre-Qualification Bid".

Please ensure complete address, department name and purchase executive name is mentioned on the envelope (before dropping in the tender box or handing over) so that the tender is available in time for bid opening.

3. BHEL standard Commercial Terms and Conditions (duly filled, signed & stamped) must accompany Technical-Commercial offer without fail and should be submitted in original only.

The above indicated submission of Offers in "sealed envelope/hard copy" as mentioned in points B.1-B.3 is applicable for tenders that are not floated through E-Procurement System (EPS).

4. Validity: Unless otherwise specified in SCC (special commercial conditions of contract), the offer will be valid for a period of 90 days from the date of part-I bid opening and in case of Negotiation/Counter-offer/Reverse Auction, price validity will apply afresh for a period of 60 days from the date of according final price by bidder (or) up to original validity period, whichever is later.
5. Any of the terms and conditions not acceptable to supplier, shall be explicitly mentioned in the Techno-Commercial Bid.

If no deviations are brought out in the offer it will be treated as if all terms and conditions of this enquiry are accepted by the supplier without deviation.

6. Deviation to this specification/item description, if any, shall be brought out clearly indicating “DEVIATION TO BHEL SPECIFICATION” without fail, as a part of Techno-Commercial Bid.

If no deviations are brought out in the offer it will be treated as if the entire specification of this enquiry is accepted without deviation.

7. Suppliers shall submit one set of original catalogue, datasheets, bill of materials, dimensional drawings, mounting details and/or any other relevant documents called in purchase specification as part of Technical Bid.
8. “Price Bid” shall be complete in all respects containing price break-up of all components along with all applicable taxes and duties, freight charges (if applicable) etc. Once submitted no modification / addition / deletion will be allowed in the “Price Bid.” Bidders are advised to thoroughly check the unit price, total price to avoid any discrepancy.
9. In addition, bidder shall also quote for erection & commissioning charges/erection supervision & commissioning charges (E&C service charges), documentation charges, testing Charges (type & routine), training charges etc. if & as applicable along with corresponding tax. The price summary must indicate all the elements clearly.
10. Wherever applicable, bidders should indicate “lumpsum” Erection and Commissioning (or) Erection Supervision and Commissioning charges, as applicable (including To & Fro Fare, Boarding, Lodging, Local Conveyance etc.) for carrying out E&C activity and further handing over to customer.

The quotation shall clearly indicate scope of work, likely duration of commissioning, pre-commissioning checklist (if any).

11. Wherever bidders require PAC (Project Authority Certificate)/applicable certificates for import of raw materials, components required for DECC, EPCG Power Projects, Export Projects or other similar projects wherein supplies are eligible for customs duty benefits, lists and quantities of such items and their values (CIF) has to be mentioned in the offer. Prices must be quoted taking into account of such benefits.
12. Prices should be indicated in both figures & words. Bid should be free from correction/overwriting, using corrective fluid, etc. Any interlineation, cutting, erasure or overwriting shall be valid only if they are attested under full signature(s) of person(s) signing the bid else bid shall be liable for rejection.

Any typographical error, totalling mistakes, currency mistake, multiplication mistake, summing mistakes etc. observed in the price bids will be evaluated as per **Annexure III** “Guidelines for dealing with Discrepancy in Words & Figures – quoted in price bid” and BHEL decision will be final.
13. Documents submitted with the offer shall be signed and stamped in each page by authorized representative of the bidder. However, this requirement is not mandatory for offers uploaded through E-Procurement System (EPS).

C. GUIDELINES FOR OFFER SUBMISSION:

The under-mentioned clauses 1, 2&3 will not be applicable for EPS tenders.

1. Offers / Quotations must be dropped in tender box before 13.00 Hrs. on or before due date mentioned in RFQ. The offers are to be dropped in the proper slot of the Tender Box kept in our reception area with caption “CE, SC&PV, DEFENCE”.

Tenders are opened on 3 days in a week (Monday/Wednesday/Friday). Tender must be deposited in the slot corresponding to the day (Monday - Box no.4/Wednesday - Box no. 6 /Friday - Box no.8) while depositing the offer.

2. E-Mail/ Internet/EDI offers received in time shall be considered only when such offers are complete in all respects. In case of offers received through E-mail, please send the offer to the email ID specified in the SCC document of the tender.
3. Offers of Vendors who already have a valid Technical/Commercial MOU with BHEL-EDN for the items of the RFQ shall mention the relevant MOU reference no. and give only such other details not covered in the MOU.
4. In cases where tender documents are bulky, or due to some reasons tender documents are required to be submitted by hand or through posts/couriers, the offers are to be handed over either of the two purchase officers whose names are mentioned in the SCC document of tender RFQ.
5. Tenders will be opened on due date, time and venue as indicated in the RFQ in the presence of bidders at the venue indicated in the RFQ. For EPS tenders, e-mail notifications will be automatically generated and forwarded to registered e-mail ID/s of bidders during opening of tenders.
6. Bidder will be solely responsible:
 - a. For submission of offers before due date and time. Offers submitted after due date and time will be treated as "Late offers" and will be rejected.
 - b. For submission of offers in the correct compartment of the tender box based on the day of due date (Monday/Wednesday/Friday). Please check before dropping your offer in the correct tender box.
 - c. For depositing offers in proper sealed condition in the tender box. If the bidder drops the tender in the wrong tender box (or) if the tender document is handed over to the wrong person, BHEL will not be responsible for any such delays.
 - d. For offers received through email etc., suppliers are fully responsible for lack of secrecy on information and ensuring timely receipt of such offers in the tender box before due date & time (This clause will not be applicable for EPS tenders).

The above indicated submission of Offers as mentioned in points 6.a-6.d is applicable for tenders that are not floated through EPS.

- e. In case of e-tender, all required documents should be uploaded before due date and time. Availability of power, internet connections, system/software requirements etc. will be the sole responsibility of the bidder.

Wherever assistance is needed for submission of e-tenders, help-line numbers as available in the web-site of service provider of BHEL may be contacted.

Purchase Executive/ BHEL shall not be responsible for any of the activities relating to submission of offer.

D. PROCESSING OF OFFERS RECEIVED:

1. Any discount/ revised offer submitted by the supplier on its own shall be accepted provided it is received on or before the due date and time of offer submission (i.e. Part-I bid).
The discount shall be applied on pro-rata basis to all items unless specified otherwise by the bidder.
2. Changes in offers or Revised offers given after Part-I bid opening shall not be considered as a part of the original offer unless such changes/revisions are requested by BHEL.

In case of withdrawal of any Technical/Commercial deviation(s) by the bidder before opening of price bids/conducting the Reverse Auction, revision of price/impact bid will not be accepted.

3. In case there is no change in the technical scope and/ or specifications and/ or commercial terms & conditions, the supplier will not be allowed to change any of their bids after Technical bids are opened (after the due date and time of tender opening).
4. In case of changes in scope and/ or technical specifications and/ or commercial terms & conditions by BHEL and it accounts for price implications from bidders, all techno-commercially acceptable bidders shall be asked by BHEL (after freezing the scope, technical specifications and commercial terms & conditions) to submit the impact of such changes on their price bid.

Impact price will be applicable only for changes in technical specification / commercial conditions by BHEL. The impact price must be submitted on or before the cut-off date specified by BHEL and the original price bid and the price impact bid will be opened together at the time of price bid opening.

5. Un-opened bids (including price bids) will be returned to the respective bidders after release of Purchase order.

Regarding Offers for EPS tenders that get rejected on PQC/ techno-commercial grounds, the bids for the subsequent parts will not be opened i.e., both technical bid and price bid (Parts-II & III) will not be opened in case of rejection on PQC ground and price bid (Part-II/Part-III, as applicable) will not be opened in case of rejection on techno-commercial ground.

6. After receipt of Purchase Order, supplier should submit required documents viz., specified drawings, bill of materials, datasheets, catalogues, quality plan, test procedure, type test report, O & M Manuals and/or any other relevant documents as per Specification/Purchase Order, as and when required by BHEL/Customer.
7. Any deviation to the terms and conditions not mentioned in the quotation by supplier in response to this enquiry will not be considered, if put forth subsequently or after issue of Purchase Order, unless clarification is sought for by BHEL and agreed upon in the Purchase Order.
8. Evaluation shall be on the basis of delivered cost (i.e. "Total Cost to BHEL").

"Total Cost to BHEL" shall include total basic cost, packing & forwarding charges, taxes and/or duties (as applicable), freight charges, taxes on Services, customs clearance charges for imported items, any other cost indicated by bidder for execution of the contract and loading factors (for non-compliance to BHEL Standard Commercial Terms & Conditions).

Benefits arising out of Nil Import Duty on DEEC, EPCG, DFIA Projects, Physical Exports or such 100% exemptions (statutory benefits), project imports, customer reimbursements of statutory duties (like Basic Customs Duty and cess on customs duty), Input tax credits as applicable will also be taken into account for arriving at the Total cost to BHEL (wherever applicable and as indicated in SCC document of tender).

For EPS tenders, it shall be noted that the prices (including discounts) vis-a-vis currency quoted in EPS portal only will be considered as Final for the purpose of evaluation of the lowest bidder.

Bidder shall ensure to indicate the applicable taxes against each line item in online portal, failing to which the same will be considered as inclusive/NIL.

In the course of evaluation, if more than one bidder happens to occupy L-1 status, effective L-1 will be decided by soliciting discounts from the respective L-1 bidders.

In case more than one bidder happens to occupy the L-1 status even after soliciting discounts, the L-1 bidder shall be decided by a toss/draw of lots, in the presence of the respective L-1 bidder(s) or their representative(s).

Ranking will be done accordingly. BHEL's decision in such situations shall be final and binding.

9. The evaluation currency for this tender shall be INR. For evaluation of offers in foreign currency, the exchange rate (TT selling rate of SBI) shall be taken as under:

Single part bids: Date of tender opening

Two/three part bids: Date of Part-I bid opening

Reverse Auction: Date of Part-I bid opening

In case of Performance Bank Guarantee (PBG) also, exchange rate will be considered as mentioned above for converting foreign currency to Indian currency and vice versa.

If the relevant day happens to be a bank holiday, then the exchange rate as on the previous working day of the bank (SBI) shall be taken.

10. Ranking (L-1, L-2 etc.) shall be done only for the techno-commercially acceptable offers.
11. GeM Seller ID shall be mandatory before placement of order/award of contract for goods and services to the successful bidder(s), for orders exceeding Rs.25 lakhs (including all taxes etc.). Department of Expenditure (DoE) OM no.6/9/2020-PPD dated: 24.08.2020 may be referred in this regard.

E. INFORMATION ON PAYMENT TERMS:

1. All payments will be through Electronic Fund transfer (EFT). Vendor has to furnish necessary details as per BHEL standard format (**Refer Annexure IV**) for receiving all payments through NEFT. (Applicable for Indian vendors only).
2. In case of High Sea Sales transaction, customs clearance of the consignment landed on Indian Sea/Air ports will be done by BHEL based on the original HSS documents provided by vendors.

All warehousing charges due to delay in submission of complete and or correct HSS documents to BHEL will be to supplier's account only. Such recovery will be made out of any of the available bills (**Refer Annexure V**).

3. Statutory deductions, if any, will be made and the deduction certificate shall be issued.
 - A. In case vendor does not provide PAN details, the TDS deduction shall be at the maximum percentage stipulated as per the provisions of Income Tax Act.
In addition to the above, Foreign vendors shall also submit relevant details of their bankers like Swift Code, Banker's Name & Address etc.
 - B. TDS deduction as per section 51 of CGST Act, 2017 shall be applicable as per Gazette Notification No. 50/2018-Central Tax, Dated: 13th September 2018 and subsequent notification/s, as and when released by Govt. authorities.

4. Procurement of Goods/ Works/ Services/ Consultancy Services [under clause relating to "Income Tax and Corporate Tax" or "TDS"]

a) Provision w.r.t. TDS on Purchase of Goods under section 194Q of Income Tax Act applicable from 01.07.2021 is as under:

- i. TDS as applicable will be deducted by BHEL under section 194Q of the Income Tax Act, 1961 on Purchases exceeds, the amount of Rupees. 50 Lakhs or limit defined therein from time to time during the financial year under the Indian Income Tax act 1961.

ii. Since BHEL is liable to deduct Income Tax TDS under section 194Q, the provision of TCS as per section 206C(1H) of the Income Tax Act, 1961 shall not be applicable.

b) Higher rate of TDS for non-filers of ITR as per Section 206AB of Income Tax Act, 1961, in case of any vendor who does not filed their Income Tax Return for both of the two previous years preceding to current year and aggregate amount of TDS is more than or equal to Rs. 50,000/- in each of those previous two years (or limit defined by Govt. from time to time), then TDS will be deducted at the higher of following rates:

(i) Twice the rate mentioned in relevant TDS section.

(ii) Twice the rate or rates in force

(iii) 5%.

5. Incomplete documentation will not be accepted. Delayed submission of invoice / documents may result in corresponding delay in payment. In this connection, request to also refer clause: G about invoicing & payment formalities under GST regime.

Applicable documents shall be submitted to the purchaser at the time of execution of supplies/services for availing GST input credits.

F. STANDARD PAYMENT TERMS OF BHEL-EDN:

<u>PURCHASE ORDERS FOR:</u>	<u>SUPPLY WITH SERVICE(S)</u>	<u>SUPPLY ONLY</u>
<u>INDIGENOUS PROCUREMENT</u>	a. 100% of basic value with taxes and freight will be paid in 45 days from the date of dispatch or 15 days from the date of submission of complete set of documentation, whichever is later. <u>Note:</u> In case PBG is not furnished, only 90% payment will be released against 100% claim without the consent of Vendor. This 10% basic amount withheld towards PBG will be paid either against submission of supplementary invoice & Original PBG (or) against supplementary invoice without PBG after expiry of Warranty period.	b. 100% of PO value with taxes and freight will be paid in 45 days from the date of dispatch or 15 days from the date of submission of complete set of documentation, whichever is later.
<u>IMPORT PROCUREMENT</u>	c. 100% of basic value will be paid against usance draft of 45 days from the date of AWB/BOL on submission of complete set of documents. <u>Note:</u> In case PBG is not furnished, only 90% payment will be released against 100% claim without the consent of Vendor. This 10% basic amount withheld towards PBG will be paid either against submission of supplementary invoice & Original PBG (or) against supplementary invoice without PBG after expiry of Warranty period.	d. 100% of PO value will be paid against usance draft of 45 days from the date of AWB/BOL on submission of complete set of documents.

<u>HIGH-SEA SALES PROCUREMENT</u>	e. 100% of basic value will be paid in 45 days from the date of signing of High Sea Sale agreement or 15 days from the date of submission of complete set of documentation, whichever is later <u>Note:</u> In case PBG is not furnished, only 90% payment will be released against 100% claim without the consent of Vendor. This 10% basic amount withheld towards PBG will be paid either against submission of supplementary invoice & Original PBG (or) against supplementary invoice without PBG after expiry of Warranty period.	f. 100% of basic value will be paid in 45 days from the date of signing of High Sea Sale agreement or 15 days from the date of submission of complete set of documentation, whichever is later.
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g. Erection and Commissioning:

Evaluation methodology: Unless and otherwise specified in SCC, E&C charges should not be less than 05% of the main supply value. In case the quoted total E&C value is less than 05% of the main supply value, BHEL shall evaluate Bidders Price deducting differential amount from main supply price proportionally from all items and apportioning towards E&C charges.

Payment term: 100% E&C charges along with tax as applicable, will be paid in 15 days from the date of submission of supplementary invoice/documents against proof of completion of E&C.

h. Erection Supervision and Commissioning:

Evaluation methodology: Unless and otherwise specified in SCC, Commissioning charges should not be less than 05% of the main supply value. In case the quoted total Commissioning charges is less than 05% of the main supply value, BHEL shall evaluate Bidders Price deducting differential amount from main supply price proportionally from all items and apportioning towards Commissioning charges.

Payment term: 100% Commissioning charges along with tax as applicable, will be paid in 15 days from the date of submission of supplementary invoice/documents against proof of completion of Commissioning.

i. Comprehensive Annual Maintenance Contract:

Evaluation methodology: Unless and otherwise specified in SCC, CAMC will be applicable for a period of 04 years from the date of expiry of warranty period (or) from the date of completion of commissioning of equipment, whichever is later and the total CAMC value should not be less than 20% of the main supply value. In case the quoted total CAMC value is less than 20% of the main supply value, BHEL shall evaluate Bidders Price deducting differential amount from main supply price proportionally from all items and apportioning towards CAMC charges.

Payment terms: 100% CAMC charges along with tax as applicable, will be paid in 15 days from the date of submission of supplementary invoice/documents against proof of completion of CAMC on yearly basis.

j. Terms of Payment for Training: 100% payment will be made in 45 days from the date of completion of Training or 15 days from the date of submission of complete set of invoice along with documentary evidence, whichever is later.

LOADING FACTORS FOR DEVIATION IN PAYMENT TERMS:**i) INDIGENOUS PROCUREMENT:**

For payment term with credit period of less than 45 days for indigenous supply, 'Base rate of SBI (as applicable on the date of bid opening; Techno-commercial bid opening in case of two part bids) +6%', shall be considered for loading for the period of relaxation sought.

ii) IMPORT PROCUREMENT:

- 1) For offers received with Sight draft payment term in place of Usance draft, loading applicable will be 1.0% of basic value.
- 2) For offers received with Letter of Credit payment term with Usance of 45 days, loading applicable will be 2.5% of basic value. Additional loading of 2% will be applicable for payment term as Letter of Credit at Sight.

k. Any other variation of payment terms are liable for rejection.

l. Standard payment terms indicated in Clauses: F (a), (b), (c), (d), (e), (f), (g), (h), (i) & (j) will not attract any loading.

Note 1: Basic value of Purchase Order mentioned above will include all components of the purchase order and will exclude only taxes, duties, freight, training charges, E&C and AMC charges (wherever applicable). Wherever the Purchase Order is split into import portion and indigenous portion of supply, minimum % to be quoted for Services, wherever mentioned, will be of both purchase order values put together.

Note 2: In case of multiple packages/units in a power plant, payment of E&C charges will be processed on pro-rata basis.

Note 3: No deviation will be permitted from the duration of Guarantee/Warranty and/or Comprehensive Annual Maintenance Contract period specified in SCC.

Note 4: Indigenous bidder opting to quote with usance LC payment term of 120 days shall note that LC processing charges viz., opening, amendment/ discrepancy (if & as applicable) will be to supplier's account. Bank charges of Seller's bank shall be to Seller's account and bank charges of Owner's bank other than Bill collection charges shall be to Owner's account. Bill collection charges will be borne by Seller.

G. Terms & Conditions to be complied under GST regime:

1. All invoices to contain BHEL-EDN (buyer) GSTIN number: 29AAACB4146P1ZB. However for CGST +SGST/UGST billing outside the state of Karnataka, invoice has to be generated with BHEL's Nodal Agency GSTIN number. Address of Nodal Agency along with GSTIN number will be provided by BHEL at the time of issuing dispatch clearance.
2. The Bidder shall mention Bidder's GSTIN number in all quotations and Invoices submitted.
3. The Bidder shall also mention HSN (Harmonized System of Nomenclature) / SAC (Services Accounting Code) mandatorily in all quotations and invoices submitted.
4. Invoice submitted should be in the format as specified under GST Laws viz., all details as mentioned in Invoice Rules like GST registration number(GSTIN), invoice number with date of issue, quantity, rate, value, taxes with

nomenclature – CGST, SGST, UGST, IGST mentioned separately, HSN Code / SAC Code etc. Invoice should be submitted in original for buyer plus duplicate for credit availment.

5. Payment of GST to Vendor will be made only if it is matching with data uploaded by the Vendor in GST portal.
6. For invoices paid on Reverse charge basis – “Tax payable on reverse charge basis” to be mentioned on the invoice.
7. In case GST credit is delayed/denied to BHEL due to non/delayed receipt of goods and/or tax invoice or expiry of timeline prescribed in GST law for availing such ITC, or any other reasons not attributable to BHEL, GST amount will be recoverable from vendor along with interest levied/ leviable on BHEL.
8. In case vendor delays declaring such invoice in his return and GST credit availed by BHEL is denied or reversed subsequently as per GST law, GST amount paid by BHEL towards such ITC reversal as per GST law will be recoverable from vendor/contractor along with interest levied/ leviable on BHEL.
9. Vendor should intimate BHEL immediately on the same date of invoicing without any delay.
10. In case of discrepancy in the data uploaded by supplier in the GSTN portal or in case of any shortages or rejection in the supply, then BHEL will not be able to avail the tax credit and will notify the supplier of the same. Supplier has to rectify the data discrepancy in the GSTN portal or issue credit note (details to be uploaded in GSTN portal) for the shortages or rejections in the supplies, within the calendar month notified by BHEL.
11. Bidders to note that Rules & Regulations pertaining to E-way bill system are to be strictly adhered to, as and when notified by Govt. authorities.
12. As per Notification no.17/2022-Central Tax dated 01st August,2022 (applicable w.e.f. 01st day of October, 2022), the turnover for applicability of E-invoicing provisions has been reduced from 20 crore rupees to 10 crore rupees. In other words, registered person [other than a SEZ unit and those referred in Rule 54(2), 54(3), 54(4) and 54(4A) of the CGST Rules], whose aggregate turnover in any of the previous FY beginning from 2017-18 and onwards exceeds 10 crores, is required to comply with the requirement of IRN and QR code in respect of supply of goods or services or both to a registered person or for exports.

H. Performance security: To ensure due performance of the contract, Performance Bank Guarantee (PBG) or Security Deposit (SD), hereafter referred as performance security has to be submitted by successful bidder for 05% (unless specified otherwise) of the contract value.

Modes of deposit:

- a) Performance security may be furnished in the following forms:
 - (i) Local cheques of Scheduled Banks (subject to realization)/ Pay Order/ Demand Draft/ Electronic Fund Transfer in favour of BHEL.
 - (ii) Bank Guarantee from Scheduled Banks / Public Financial Institutions as defined in the Companies Act. PBG should be in the format specified in Annexure-VII of ITB and no deviation to this format will be allowed.

(iii) Fixed Deposit Receipt issued by Scheduled Banks / Public Financial Institutions as defined in the Companies Act (FDR should be in the name of the Contractor, a/c BHEL).

(iv) Securities available from Indian Post offices such as National Savings Certificates, Kisan Vikas Patras etc. (held in the name of Contractor furnishing the security and duly endorsed/ hypothecated/ pledged, as applicable, in favour of BHEL).

(v) Insurance Surety Bond.

Note: BHEL will not be liable or responsible in any manner for the collection of interest or renewal of the documents or in any other matter connected therewith)

- b) PBG has to be furnished within 14 days (unless specified otherwise) after notification of the award and it should remain valid for a period of 60 days beyond the date of completion of all contractual obligations, including warranty obligations.
- c) The Performance security will be forfeited and credited to BHEL's account in the event of a breach of contract by the supplier.
- d) Performance security shall be refunded to the supplier without interest, after duly performing and completing the contract in all respects but not later than 60 days of completion of all such obligations including the warranty under the contract.
- e) The Performance security shall not carry any interest.

I. PURCHASE PREFERENCE FOR MSE (MICRO AND SMALL ENTERPRISES) VENDORS:

Purchase preference will be given to MSEs as defined in Public Procurement Policy for Micro and Small Enterprises (MSEs) Order, 2012 dated 23.03.2012 issued by Ministry of Micro, Small and Medium Enterprises and its subsequent Orders/Notifications issued by concerned Ministry. If the bidder wants to avail the Purchase preference, the bidder must be the manufacturer of the offered product in case of bid for supply of goods.

Traders are excluded from the purview of Public Procurement Policy for Micro and Small Enterprises. Relevant documentary evidence in this regard shall be uploaded along with the bid in respect of the offered product. Purchase preference to Micro and Small Enterprises clause in the bid, the same will get precedence over this clause.

1. If tendered quantity is Splitable: In tender, participating MSEs quoting price within price band of L1+15 percent shall also be allowed to supply a portion of requirement by bringing down their price to L1 price in a situation where L1 price from someone other than a MSE and such MSE shall be allowed to supply at least 25% of total tendered value. In case of more than one such MSE, the supply shall be shared proportionately (to tendered quantity).

- 3% of the 25% will be earmarked for women owned MSEs.
- 25% of the 25% (i.e., 6.25% of the total enquired quantity) will be earmarked for SC/ST owned MSE firms provided conditions as mentioned in (1) & (2) are fulfilled.

- In case where no SC/ST category firms are meeting the conditions mentioned in (1) and (2) or have not participated in the tender, the 6.25% of earmarked quantity for SC/ST owned MSE firms will be distributed among the other eligible MSE vendors who have participated in the tender.

2. If tendered quantity is Non-Splittable: If L-1 is not an MSE and MSE Seller (s) has/have quoted price within L-1+ 15% of margin of purchase preference /price band defined in relevant policy, such Seller shall be given opportunity to match L-1 price and contract will be awarded for 100% of total value.

Operation methodology of Purchase preference clause to MSE & MII bidders is as detailed in the attached Office Memorandum issued by Department of Expenditure dt:18.05.2023 (Annexure-VIII).

J. INTEGRITY COMMITMENT IN THE TENDER PROCESS, AND EXECUTION OF CONTRACTS:

1. Commitment by BHEL: BHEL commits to take all measures necessary to prevent corruption in connection with the Tender process and execution of the Contract. BHEL will, during the tender process, treat all bidder / suppliers in a transparent and fair manner, and with equity.
2. Commitment by Bidder(s)/ Contractor(s):
 - a. The Bidder(s)/ Contractor(s) commit(s) to take all measures to prevent corruption and will not directly or indirectly try to influence any decision or benefit which he is not legally entitled to.
 - b. The Bidder(s)/ Contractor(s) will not enter with other Bidder(s) into any undisclosed agreement or understanding or any actions to restrict competition.
 - c. The Bidder(s)/ Contractor(s) will not commit any offence under the relevant Acts. The Bidder(s)/ Contractor(s) will not use improperly, for purposes of competition or personal gain or pass on to others, any information or document provided by BHEL as part of business relationship.
 - d. The Bidder(s)/ Contractor(s) will, when presenting his bid, disclose any and all payments he has made, and is committed to or intends to make to agents, brokers or any other intermediaries in connection with the award of the contract and shall adhere to the relevant guidelines issued from time to time by Government of India/ BHEL.

If the Bidder(s) / Contractor(s), before award or during execution of the Contract commit(s) a transgression of the above or in any other manner such as to put his reliability or credibility in question, BHEL is entitled to disqualify the Bidder(s) / Contractor (s) from the tender process or terminate the contract and/ or take suitable action as deemed fit.

K. Integrity Pact (IP):

- (a) IP is a tool to ensure that activities and transactions between the Company and its Bidders/ Contractors are handled in a fair, transparent and corruption free manner. Following Independent External Monitors (IEMs) on the present panel have been appointed by BHEL with the approval of CVC to oversee implementation of IP in BHEL.

Sl	IEM	Email
1.	Shri Otem Dai, IAS (Retd.)	iem1@bhel.in
2.	Shri Bishwamitra Pandey, IRAS (Retd.)	iem2@bhel.in
3.	Shri Mukesh Mittal, IRS (Retd.)	iem3@bhel.in

- (b) The IP as enclosed with the tender is to be submitted (duly signed by authorized signatory) along with techno-commercial bid (Part-I, in case of two/ three part bid). Only those bidders who have entered into such an IP with BHEL would be competent to participate in the bidding. In other words, entering into this Pact would be a preliminary qualification.
- (c) Please refer Section-8 of IP for Role and Responsibilities of IEMs. In case of any complaint arising out of the tendering process, the matter may be referred to any of the above IEM(s). All correspondence with the IEMs shall be done through email only.

Note: No routine correspondence shall be addressed to the IEM (phone/ post/ email) regarding the clarifications, time extensions or any other administrative queries, etc. on the tender issued. All such clarification/ issues shall be addressed directly to the tender issuing (procurement) department's officials whose contact details are provided in SCC document of tender.

L. Conflict of Interest among Bidders/Agents:

*"A bidder shall not have conflict of interest with other bidders. Such conflict of interest can lead to anti-competitive practices to the detriment of Procuring Entity's interests. **The bidder found to have a conflict of interest shall be disqualified.** A bidder may be considered to have a conflict of interest with one or more parties in this bidding process, if:*

- a) they have controlling partner (s) in common; **or***
- b) they receive **or** have received any direct or indirect subsidy/ financial stake from any of them; **or***
- c) they have the same legal representative/agent for purposes of this bid; **or***
- d) they have relationship with each other, directly or through common third parties, that puts them in a position to have access to information about or influence on the bid of another Bidder; **or***
- e) Bidder participates in more than one bid in this bidding process. Participation by a Bidder in more than one Bid will result in the disqualification of all bids in which the parties are involved. However, this does not limit the inclusion of the components/ sub-assembly/ Assemblies from one bidding manufacturer in more than one bid; **or***

- f) *In cases of agents quoting in offshore procurements, on behalf of their principal manufacturers, one agent cannot represent two manufacturers or quote on their behalf in a particular tender enquiry. One manufacturer can also authorise only one agent/dealer. There can be only one bid from the following:*
- 1. The principal manufacturer directly or through one Indian agent on his behalf; and*
 - 2. Indian/foreign agent on behalf of only one principal;*
- or**
- g) *A Bidder or any of its affiliates participated as a consultant in the preparation of the design or technical specifications of the contract that is the subject of the Bid; or*
- h) *In case of a holding company having more than one independently manufacturing units, or more than one unit having common business ownership/management, only one unit should quote. Similar restrictions would apply to closely related sister companies. Bidders must proactively declare such sister/ common business/ management units in same/ similar line of business."*

Annexure

Annexure I
Guidelines for Indian Agents

- **Definition of Indian Agent:** An Indian Agent of foreign principal is an individual, a partnership, an association of persons, a private or public company, that carries out specific obligation(s) towards processing of BHEL tender or finalization or execution of BHEL's contract on behalf of the foreign supplier.

In case of yes, vendor to note the following and reply accordingly:

- i. BHEL shall deal directly with foreign vendors, wherever required, for procurement of goods. However, if the foreign principal desires to avail of the services of an Indian agent, then the foreign principal should ensure compliance to regulatory guidelines - which require mandatory submission of an Agency Agreement.
- ii. It shall be incumbent on the Indian agent and the foreign principal to adhere to the relevant guidelines of Government of India, issued from time to time.
- iii. The Agency Agreement should specify the precise relationship between the foreign OEM / foreign principal and their Indian agent and their mutual interest in the business. All services to be rendered by agent/ associate, whether of general nature or in relation to the particular contract, must be clearly stated by the foreign supplier/ Indian agent. Any payment, which the agent or associate receives in India or abroad from the OEM, whether as commission or as a general retainer fee should be brought on record in the Agreement and be made explicit in order to ensure compliance to laws of the country.
- iv. Any agency commission to be paid by BHEL to the Indian agent shall be in Indian currency only.
- v. Tax deduction at source is applicable to the agency commission paid to the Indian agent as per the prevailing rules.
- vi. In the absence of any agency agreement, BHEL shall not deal with any Indian agent (authorized representatives / associate / consultant, or by whatever name called) and shall deal directly with the foreign principal only for all correspondence and business purposes.
- vii. The "Guidelines for Indian Agents of Foreign Suppliers" enclosed at annexure - 'A' shall apply in all such cases.

- viii. The supply and execution of the Purchase Order (including indigenous supplies/ service) shall be in the scope of the OEM/ foreign principal. The OEM/ foreign principal should submit their offer inclusive of all indigenous supplies/ services and evaluation will be based on 'total cost to BHEL'. In case OEM/ foreign principal recommends placement of order(s) towards indigenous portion of supplies/ services on Indian supplier(s)/ agent on their behalf, the credentials/ capacity/ capability of the Indian supplier(s)/ agent to make the supplies/ services shall be checked by BHEL as per the extant guidelines of Supplier Evaluation, Approval & Review Procedure (SEARP), before opening of price bids. In this regard, details may be checked as per Annexure-B (copy enclosed). It will be the responsibility of the OEM/ foreign principal to get acquainted with the evaluation requirements of Indian supplier/ agent as per SEARP available on www.bhel.com.

The responsibility for successful execution of the contract (including indigenous supplies/ services) lies with the OEM/ foreign principal. All bank guarantees to this effect shall be in the scope of the OEM/ foreign principal.

—X—

Vendor's Signature with Seal

Guidelines for Indian Agents of Foreign Suppliers

- 1.0 There shall be compulsory registration of agents for all Global (Open) Tender and Limited Tender. An agent who is not registered with BHEL shall apply for registration in the registration form in line with SEARP.
- 1.1 Registered agents will file an authenticated Photostat copy duly attested by a Notary Public/Original certificate of the Principal confirming the agency agreement and giving the status being enjoyed by the agent and the commission/ remuneration/ salary/ retainership being paid by the principal to the agent before the placement of order by BHEL.
- 1.2 Wherever the Indian representatives have communicated on behalf of their principals and the foreign parties have stated that they are not paying any commission to the Indian agents, and the Indian representative is working on the basis of salary or as retainer, a written declaration to this effect should be submitted by the party (i.e. Principal) before finalizing the order.
- 2.0 **Disclosure of particulars of agents/ representatives in India, if any.**
- 2.1 Tenderers of Foreign nationality shall furnish the following details in their offers:
 - 2.1.1 The Bidder(s)/ Contractor(s) of foreign origin shall disclose the name and address of the agents/ representatives in India if any and the extent of authorization and authority given to commit the Principals. In case the agent/ representative be a foreign Company, it shall be confirmed whether it is existing Company and details of the same shall be furnished.
 - 2.1.2 The amount of commission/ remuneration included in the quoted price(s) for such agents/ representatives in India.
 - 2.1.3 Confirmation of the Tenderer that the commission/ remuneration, if any, payable to his agents/ representatives in India, may be paid by BHEL in Indian Rupees only.
- 2.2 Tenderers of Indian Nationality shall furnish the following details in their offers:
 - 2.2.1 The Bidder(s)/ Contractor(s) of Indian Nationality shall furnish the name and address of the foreign principals, if any, indicating their nationality as well as their status, i.e. whether manufacturer or agents of manufacturer holding the Letter of Authority of the Principal specifically authorizing the agent to make an offer in India in response to tender either directly or through the agents/ representatives.
 - 2.2.2 The amount of commission/ remuneration included in the price (s) quoted by the Tenderer for himself.
 - 2.2.3 Confirmation of the foreign principals of the Tenderer that the commission/ remuneration, if any, reserved for the Tenderer in the quoted price(s), may be paid by BHEL in India in equivalent Indian Rupees on satisfactory completion of the Project or supplies of Stores and Spares in case of operation items.
- 2.3 In either case, in the event of contract materializing, the terms of payment will provide for payment of the commission/ remuneration, if any payable to the agents/ representatives in India in Indian Rupees on expiry of 90 days after the discharge of the obligations under the contract.
- 2.4 Failure to furnish correct and detailed information as called for in paragraph 2.0 above will render the concerned tender liable to rejection or in the event of a contract materializing, the same liable to termination by BHEL. Besides this there would be a penalty of banning business dealings with BHEL or damage or payment of a named sum.

ANNEXURE - II
LIST OF INTERNATIONAL GATEWAY AIRPORTS

For air based consignment, terms of delivery will be on FCA basis from following listed airports only. Vendors are requested to verify this list for use before submission of offer.

SCHEDULE NO	COUNTRY	CURRENCY CODE	AIRPORT
D01	UK	GBP	LONDON (HEATHROW)
D02	UK	GBP	NEW CASTLE
D03	UK	GBP	OXFORD. CHETLAM
D04	UK	GBP	BRISTOL. WELLINGBOROUGH
D05	UK	GBP	BIRMINGHAM
D06	UK	GBP	EAST MIDLANDS
D07	UK	GBP	MANCHESTER
D08	UK	GBP	LEEDS
D09	UK	GBP	GLASGOW
D10	FRANCE	EURO	PARIS (ROISSY) & LYON
D11	SWEDEN	EURO	STOCKHOLM
D12	SWEDEN	EURO	GOTHENBERG & MALMO
D13	ITALY	EURO	ROMA, MILAN
D14	ITALY	EURO	TURIN, BOLOGNA, FLORENCE
D15	NETHERLANDS	EURO	AMSTERDAM, ROTTERDAM
D16	AUSTRIA	EURO	VIENNA, LINZ, GRAZ
D17	BELGIUM	EURO	ANTWERP, BRUSSELS
D18	DENMARK	DKK	COPENHAGEN
D19	JAPAN	JPY	TOKYO, OSAKA
D20	SINGAPORE	SGD	SINGAPORE
D21	CANADA	CAD	TORONTO
D22	CANADA	CAD	MONTREAL
D23	USA	USD	NEW YORK, BOSTON
D24	USA	USD	CHICAGO
D25	USA	USD	SAN FRANCISCO, LOS ANGELES
D26	USA	USD	ALANTA, HOUSTON
D27	GERMANY	EURO	MUNICH, KOLN, DUSSELDORF, HANNOVER, HAMBURG, STUTTGART, DAMSTADT, MANIHIEM, NURUMBERG
D28	GERMANY	EURO	FRANKFURT
D29	GERMANY	EURO	BERLIN
D30	SWITZERLAND	SFR	BASLE, ZURICH, GENEVA
D31	SPAIN	EURO	BARCELONA
D32	AUSTRALIA	AUD	SYDNEY
D33	AUSTRALIA	AUD	MELBOURNE
D34	AUSTRALIA	AUD	PERTH
D35	CZECH	EURO	PRAGUE
D36	HONG KONG	HKD	HONG KONG
D37	NEW ZELAND	NZD	AUCKLAND
D38	RUSSIA	USD	MOSCOW
D39	SOUTH KOREA	USD	KIMPO INTERNATIONAL, INCHEON
D40	FINLAND	EURO	HELSINKI
D41	ROMANIA	EURO	BUCHAREST
D42	NORWAY	EURO	OSLO
D43	IRELAND	EURO	DUBLIN
D44	ISRAEL	USD	TEL AVIV
D45	UAE	USD	DUBAI
D46	OMAN	USD	MUSCAT
D47	EGYPT	USD	CAIRO
D48	TAIWAN	USD	TAIPEI
D49	UKRAINE	USD	KIEV
D50	CHINA	USD	SHANGHAI, SHENZHEN
D51	PHILIPINES	USD	MANILA
D52	MALAYSIA	USD	KUALALUMPUR, PE NANG
D53	CYPRUS	USD	LARNACA
D54	SOUTH AFRICA	USD	JOHANNESBERG, DURBAN
D55	SLOVAKIA	EURO	BARTISLOVA
D56	SAUDI ARABIA	SAR	RIYADH
D57	TURKEY	EURO	ISTANBUL
D58	THAILAND	USD	BANGKOK
D59	BRAZIL	USD	SAO PAULO, RIO DE JANEIRO

ANNEXURE – III

DISCREPANCY IN WORDS & FIGURES – QUOTED IN PRICE BID

Following guidelines will be followed in case of discrepancy in words & figures-quoted in price bid:

(a) If, in the price structure quoted for the required goods/services/works, there is discrepancy between the unit price and the total price (which is obtained by multiplying the unit price by the quantity), the unit price shall prevail and the total price corrected accordingly, unless in the opinion of the purchaser there is an obvious misplacement of the decimal point in the unit price, in which case the total price as quoted shall govern and the unit price corrected accordingly.

(b) If there is an error in a total corresponding to the addition or subtraction of subtotals, the subtotals shall prevail and the total shall be corrected; and

(c) If there is a discrepancy between words and figures, the amount in words shall prevail, unless the amount expressed in words is related to an arithmetic error, in which case the amount in figures shall prevail subject to (a) and (b) above.

(d) If there is such discrepancy in an offer, the same shall be conveyed to the bidder with target date upto which the bidder has to send his acceptance on the above lines and if the bidder does not agree to the decision of the purchaser, the bid is liable to be ignored.

ANNEXURE - IV
Electronic Funds Transfer (EFT) OR
Paylink Direct Credit Form

Please Fill up the form in **CAPITAL LETTERS** only.

TYPE OF REQUEST(Tick one): ☐ CREATE ☐ CHANGE

BHEL Vendor / Supplier Code:

Company Name :

Permanent Account Number(PAN):

Address

City:

PINCODE

STATE

Contact Person(s)

Telephone No:

Fax No:

e-mail id:

1 Bank Name:

2 Bank Address:

3 Bank Telephone No:

4 Bank Account No:

5 Account Type: Savings/Cash Credit

6 9 Digit Code Number of Bank and branch

appearing on MICR cheque issued by Bank

7 Bank IFSC Code(applicable for NEFT)

8 Bank IFSC code(applicable for RTGS)

(Indian Financial System Code)

- A I hereby certify that the particulars given above are true, correct and complete and that I, as a representative for the above named Company, hereby authorise BHEL, EDN, Bangalore to electronically deposit payments to the designated bank account.
- B If the transaction is delayed or not effected at all for reasons of incomplete or incorrect information, I would not hold BHEL / transferring Bank responsible.
- C This authority remains in full force until BHEL, EDN, Bangalore receives written notification requesting a change or cancellation.
- D I have read the contents of the covering letter and agree to discharge the responsibility expected of me as a participant under ECS / EFT.

Date:

Authorised Signatory:

Designation:

Telephone No. with STD Code

Company Seal

Bank Certificate

We certify that _____ has an Account No _____ with us and we confirm that the bank details given above are correct as per our records.

Date:

(.....)

Place:

Signature

Please return completed form along with a blank cancelled cheque or photocopy thereof to:

Bharath Heavy Electricals Ltd,

Attn:

Electronics Division, Mysore Road,

BANGALORE - 560 026

In case of any Query, please call concerned purchase executive.

ANNEXURE - V
PRESENT PROCEDURE FOR SALE IN TRANSIT (HIGH SEA SALES)

In case of High Sea Sales, vendor should submit following documents:

1. ORIGINAL HIGH SEA SALES AGREEMENT

- Sale agreement (on Rs. 200/- non-judicial stamp paper & notarised with 2 witnesses with identity) has to be signed between BHEL and the Party importing material. The date of the sale documents should be in between the date of House Air Way Bill / Bill of Lading and before landing of the goods in Indian origin.
- Following shall be included in the High Sea Sales Agreement:
"THE BUYER ALSO UNDERTAKE DISCHARGES, THE OBLIGATION AND FULFILLMENT OF CONDITIONS, IF ANY, ATTACHED TO THE IMPORTATION, ASSESSMENT AND CLEARANCE OF THE GOODS IN TERMS CUSTOMS TARIFF ACT 1975, THE CUSTOMS ACT 1962 & RULES & REGULATIONS MADE THERE UNDER AND OTHER RELEVANT ACTS, ORDERS, NOTIFICATIONS".

2. ORIGINAL INVOICES: INDIGENOUS RUPEE INVOICE & FOREIGN CURRENCY INVOICE

- Prices should be C.I.F., designated airport/seaport basis.
- I.E.C., C.S.T., K.S.T. Nos. to be mentioned.
- Description of item (Nomenclature), Unit & Quantity in both the Foreign Currency & the Indigenous Invoice in Rupee shall be exactly as per Purchase Order Description of item, Quantity and Unit. The Indigenous Invoice value shall be exactly as per Purchase Order value.
- Seller should give Foreign Currency Invoice from the original consignor. The Foreign Currency Invoice value should be at least 2% (two per cent) less than the Indigenous Rupee Invoice value in equivalent foreign currency.

4. ORIGINAL HOUSE AIR WAY BILL/ BILL OF LADING

- The sale agents should duly endorse House Air Way Bill (HAWB) for air shipments or original Bill of Lading (O.B.L.) for sea shipments and Foreign Currency Invoice in favour of BHEL-EDN.

5. ORIGINAL CARGO ARRIVAL NOTICE FROM FORWARDER.

6. ORIGINAL DELIVERY ORDER ISSUED IN NAME OF BHEL-EDN.

7. ORIGINAL PACKING LIST.

8. A LETTER TO THE COMMISSIONER OF CUSTOMS FOR EFFECTING ABOVE SALE.

9. A LETTER TO THE DEPUTY ASSESSOR (OCTROI) FOR EFFECTING ABOVE SALE IN FAVOUR OF BHEL.

REMARKS: In case vendor needs any clarifications on the above, the same may be sought in writing.

Sl. No.	Name of the bank
1	State Bank of India
2	Canara Bank
3	IDBI Bank Limited
4	ICICI Bank Limited
5	HDFC Bank Limited
6	Axis Bank
7	IndusInd Bank Limited
8	Bank of Baroda
9	Exim Bank
10	Indian Bank
11	Punjab National Bank
12	Union Bank of India
13	Yes Bank Limited
14	RBL Bank Ltd.
15	Standard Chartered Bank
16	Indian Overseas Bank
17	Kotak Mahindra Bank Limited
18	Federal Bank Limited
19	Hongkong and Shanghai Banking Corporation Ltd

Annexure-X

BANK GUARANTEE FOR PERFORMANCE SECURITY

Bank Guarantee No:

Date:

To
NAME
& ADDRESSES OF THE BENEFICIARY

Dear Sirs,

In consideration of Bharat Heavy Electricals Limited (hereinafter referred to as the 'Employer' which expression shall unless repugnant to the context or meaning thereof, include its successors and permitted assigns) incorporated under the Companies Act, 1956 and having its registered office at _____¹ through its Unit at.....(name of the Unit) having awarded to (Name of the Vendor / Contractor / Supplier) with its registered office at _____² hereinafter referred to as the 'Vendor / Contractor / Supplier', which expression shall unless repugnant to the context or meaning thereof, include its successors and permitted assigns), a contract Ref No.....dated³ valued at Rs.....⁴ (Rupees -----)/FC.....(in words.....) for⁵ (hereinafter called the 'Contract') and the Vendor / Contractor / Supplier having agreed to provide a Contract Performance Bank Guarantee, equivalent to% (.... Percent) of the said value of the Contract to the Employer for the faithful performance of the Contract,

we,, (hereinafter referred to as the Bank), having registered/Head office at and inter alia a branch at being the Guarantor under this Guarantee, hereby, irrevocably and unconditionally undertake to forthwith and immediately pay to the Employer any sum or sums upto a maximum amount of Rs —⁶ (Rupees -----) without any demur, immediately on first demand from the Employer and without any reservation, protest, and recourse and without the Employer needing to prove or demonstrate reasons for its such demand.

Any such demand made on the Bank shall be conclusive as regards the amount due and payable by the Bank under this guarantee. However, our liability under this guarantee shall be restricted to an amount not exceeding Rs. _____.

We undertake to pay to the Employer any money so demanded notwithstanding any dispute or disputes raised by the Vendor / Contractor / Supplier in any suit or proceeding pending before any Court or Tribunal, Arbitrator or any other authority, our liability under this present being absolute and unequivocal.

The payment so made by us under this Guarantee shall be a valid discharge of our liability for payment thereunder and the Vendor / Contractor / Supplier shall have no claim against us for making such payment.

We thebank further agree that the guarantee herein contained shall remain in full force and effect during the period that would be taken for the performance of the said Contract/satisfactory completion of the performance guarantee period as per the terms of the Contract and that it shall continue to be enforceable till

all the dues of the Employer under or by virtue of the said Contract have been fully paid and its claims satisfied or discharged.

WeBANK further agree with the Employer that the Employer shall have the fullest liberty without our consent and without affecting in any manner our obligations hereunder to vary any of the terms and conditions of the said Contract or to extend time of performance by the said Vendor / Contractor / Supplier from time to time or to postpone for any time or from time to time any of the powers exercisable by the Employer against the said Vendor / Contractor / Supplier and to forbear or enforce any of the terms and conditions relating to the said Contract and we shall not be relieved from our liability by reason of any such variation, or extension being granted to the said Vendor / Contractor / Supplier or for any forbearance, act or omission on the part of the Employer or any indulgence by the Employer to the said Vendor / Contractor / Supplier or by any such matter or thing whatsoever which under the law relating to sureties would but for this provision have effect of so relieving us.

The Bank also agrees that the Employer at its option shall be entitled to enforce this Guarantee against the Bank as a principal debtor, in the first instance without proceeding against the Vendor / Contractor / Supplier and notwithstanding any security or other guarantee that the Employer may have in relation to the Vendor / Contractor / Supplier's liabilities.

This Guarantee shall remain in force upto and including.....⁷ and shall be extended from time to time for such period as may be desired by Employer.

This Guarantee shall not be determined or affected by liquidation or winding up, dissolution or change of constitution or insolvency of the Vendor / Contractor / Supplier but shall in all respects and for all purposes be binding and operative until payment of all money payable to the Employer in terms thereof.

Unless a demand or claim under this guarantee is made on us in writing on or before the⁵ we shall be discharged from all liabilities under this guarantee thereafter.

We, BANK lastly undertake not to revoke this guarantee during its currency except with the previous consent of the Employer in writing.

Notwithstanding anything to the contrary contained hereinabove:

- a) The liability of the Bank under this Guarantee shall not exceed.....⁶
- b) This Guarantee shall be valid up to⁷
- c) Unless the Bank is served a written claim or demand on or before⁸ all rights under this guarantee shall be forfeited and the Bank shall be relieved and discharged from all liabilities under this guarantee irrespective of whether or not the original bank guarantee is returned to the Bank.

We, Bank, have power to issue this Guarantee under law and the undersigned as a duly authorized person has full powers to sign this Guarantee on behalf of the Bank.

For and on behalf of
(Name of the Bank)

Dated.....

Place of Issue.....

¹ NAME AND ADDRESS OF EMPLOYER i.e Bharat Heavy Electricals Limited

² NAME AND ADDRESS OF THE VENDOR /CONTRACTOR / SUPPLIER.

³ DETAILS ABOUT THE NOTICE OF AWARD/CONTRACT REFERENCE

⁴ CONTRACT VALUE

⁵ PROJECT/SUPPLY DETAILS

⁶ BG AMOUNT IN FIGURES AND WORDS

⁷ VALIDITY DATE

⁸ DATE OF EXPIRY OF CLAIM PERIOD

F. No. DPE/3(3)/10-Fin.
Government of India
Ministry of Finance
Department of Public Enterprises

Block No. 14, CGO Complex,
Lodi Road, New Delhi-110003
Dated the 29th May, 2023

To,

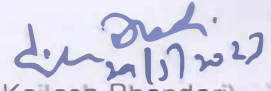
Chief Executives of all CPSEs

Subject:- Concurrent application of Public Procurement Policy for Micro and Small Enterprises Order, 2012 and Public Procurement (Preference to Make in India) Order, 2017 - regarding

Sir/Madam,

The undersigned is directed to forward herewith a copy of Department of Expenditure O.M. dated 18th May, 2023 on the subject mentioned above for information and strict compliance.

Encl : As stated


(Kailash Bhandari)
Deputy Director
Tel : 2436-6247

Copy to :- Shri Kanwalpreet, Director, Department of Expenditure, Room No. 264-C,
North Block, New Delhi.

No.F.1/4/2021-PPD
Government of India
Ministry of Finance
Department of Expenditure
Public Procurement Division

264-C, North Block, New Delhi.
18.05.2023.

OFFICE MEMORANDUM

Subject: Concurrent application of Public Procurement Policy for Micro and Small Enterprises Order, 2012 and Public Procurement (Preference to Make in India) Order, 2017.

The undersigned is directed to refer two Preferential Procurement Orders mandated for the Public Procurement in India, namely:

- i. Public Procurement Policy for Micro and Small Enterprises (MSEs) Order dated 23.03.2012 (PPP-MSE Order) issued by Ministry of Micro, Small and Medium Enterprises (MoMSME) in exercise of the powers conferred in Section 11 of the MSME Development Act, 2006. (Last revised on 09.11.2018)
 - ii. Public Procurement (Preference to Make in India) Order, 2017 (PPP-MII order), under Rule 153(iii) of the General Financial Rules (GFRs) 2017, approved by the Cabinet. Implementation of this PPP-MII order is monitored by Department for Promotion of Industry and Internal Trade (DPIIT). (Last revised on 16.09.2020.)
2. It has been brought to the notice of this Department that concurrent application of these two orders are creating confusion to the procuring entities and different procuring entities interpret them differently. In order to bring predictability both to the procuring entities as well as bidders, following guidelines are being issued.

Guidelines

3. The Class-I local suppliers, under PPP-MII Order, participating in any government tender, may or may not be MSEs, as defined under the MSME Act. Similarly, MSEs participating in any government tender, may or may not be Class-I local suppliers. Suppliers may be categorised in following four broad categories for consideration or applicability of purchase preference:

Category	Terminology
Supplier is both MSE & Class-I local supplier.	"MSE Class-I local supplier"
Supplier is MSE but not Class-I local supplier.	"MSE but non-Class-I local supplier"
Supplier is not MSE but is Class-I local supplier.	"Non-MSE but Class-I local supplier"
Supplier is neither MSE nor Class-I local.	"Non-MSE non-Class-I local supplier"

4. The applicability of PPP-MSE Order and PPP-MII Order in various scenarios, involving simultaneous purchase preference to MSEs and Class-I local suppliers under PPP-MSE Order and PPP-MII Order respectively, shall be as under:

a) *Items covered under Para 3(a) of PPP- MII Order, 2017 for which Nodal Ministry has notified sufficient local capacity and competition:* For these items, only Class-I local suppliers are eligible to bid irrespective of purchase value. Hence, Class-II local suppliers or Non-local suppliers, including MSEs which are Class-II local suppliers/ Non-local suppliers, are not eligible to bid. Possible scenarios can be as under:

- (i) L-1 is "MSE Class-I local supplier" - 100% of the tendered quantity is to be awarded to L-1.
- (ii) L-1 is "Non-MSE but Class-I local supplier" - Purchase preference is given to MSEs as per PPP-MSE Order. Balance quantity is to be awarded to the L-1 bidder.

b) *Items reserved exclusively for procurement from MSEs as per PPP-MSE Order:* These items are reserved exclusively for purchase from MSEs. Hence, non-MSEs are not eligible to bid for these items. Possible scenarios can be as under:

- (i) L-1 is "MSE Class-I local supplier" - 100% of the tendered quantity is to be awarded to L-1.
- (ii) L-1 is "MSE non-Class-I local supplier" - Purchase preference is to be given to Class-I local supplier as per PPP-MII Order. Balance quantity, is to be awarded to L-1 bidder.

c) *If items are neither notified for sufficient local capacity nor reserved for MSEs, then the process will be as follows:*

c (a) Items covered under Para 3A(b) of PPP-MII Order are divisible items and both MSEs as well as Class-I local suppliers are eligible for purchase preference. Possible scenarios can be as under:

- (i) L-1 is "MSE Class-I local supplier" - 100% of the tendered quantity is to be awarded to L-1.
- (ii) L-1 is "Non-MSE but Class-I local supplier" - Purchase preference is to be given to MSEs, if eligible, as per PPP-MSE Order. Balance quantity is to be awarded to L-1 bidder.
- (iii) L-1 is "MSE but non-Class-I local supplier" - Purchase preference is to be given to Class-I local suppliers, if eligible, as per PPP-MII Order. Balance quantity is to be awarded to L-1 bidder.
- (iv) L-1 is "Non-MSE non-Class-I local supplier" - Purchase preference is to be given to MSEs as per PPP-MSE Order. Thereafter, purchase preference is to be given to Class-I local suppliers for "50% of the tendered quantity minus quantity allotted to MSEs

above" as per PPP- MII Order. For the balance quantity, contract is to be awarded to L-1 bidder. (Kindly refer to the illustrative example in the annexure).

- c (b) Items covered under Para 3A(c) of PPP-MII Order, 2017 are non-divisible items and both MSEs as well as Class-I local suppliers are eligible for purchase preference. Possible scenarios can be as under:
- (i) L-1 is "MSE Class-I local supplier" - Contract is awarded to L-1.
 - (ii) L-1 is not "MSE Class-I local supplier" but the "MSE Class-I local supplier" falls within 15% margin of purchase preference - Purchase preference is to be given to lowest quoting "MSE Class-I local supplier". If lowest quoting "MSE Class-I local supplier" does not accept the L-1 rates, the next higher "MSE Class-I local supplier" falling within 15% margin of purchase preference is to be given purchase preference and so on.
 - (iii) If conditions mentioned in sub paras (i) and (ii) above are not met i.e. L-1 is neither "MSE Class-I local supplier" nor "MSE Class-I local supplier" is eligible to take benefit of purchase preference, the contract is to be awarded/ purchase preference to be given in different possible scenarios as under:
 - A. L1 is "MSE but non-Class-I local supplier" or "Non-MSE but Class-I local supplier" – Contract is to be awarded to L1.
 - B. L1 is "Non-MSE non-Class-I local supplier" - First purchase preference to be given to MSE as per PPP-MSE Order. If MSE not eligible/ does not accept - purchase preference to be given to Class- I Local supplier as per PPP-MII Order. If Class-I Local supplier also not eligible/ does not accept – contract to be awarded to L-1.
- d) *Items reserved for both MSEs and Class-I local suppliers:* These items are reserved exclusively for purchase from MSEs as well as Class-I local suppliers. Hence, only "MSE Class-I local supplier" are eligible to bid for these items. Non-MSEs/Class-II local suppliers/ Non-local suppliers cannot bid for these items. Hence the question of purchase preference does not arise.
- e) Non-local suppliers, including MSEs falling in the category of Non-local suppliers, shall be eligible to bid only against Global Tender Enquiry.

4
18/5/2023
(Kanwalpreet)
Director

Tel.: -223093811; email: - kanwal.irss@gov.in

To

1. Secretaries of all Central Government Ministries/ Departments.
2. Secretary Department of Public Enterprises with a request for issuing suitable instructions to all Central Public Sector Enterprises in this regard.

Example explaining applicability in scenario explained in para 4 c (a)(iv)

(Scenario: Divisible items, both MSEs as well as Class-I local suppliers eligible for purchase preference and L-1 is "Non-MSE non-Class-I local supplier")

Item – Desktop computer

Qty – 50 Nos.

Details of bids received

Sr. No.	Name of bidder	Rates quoted	Price Ranking	Status of bidder
1.	A	100	L1	"Non-MSE non- Class-I local supplier"
2.	B	110	L2	"Non-MSE but Class-I local supplier"
3.	C	112	L3	"MSE but non- Class-I local supplier"
4.	D	115	L4	"Non-MSE but Class-I local supplier"
5.	E	118	L5	"MSE but non- Class-I local supplier"
6.	F	120	L6	"MSE Class-I local supplier"

1. In this case, first purchase preference is to be given to MSEs as per PPP-MSE Order for 25% of tendered quantity of 50 Nos. i.e. 12.5 Nos. (rounded off to the next whole number say 13 Nos). Accordingly, invite L3 (bidder C), whose quoted rates falls within 15% margin of purchase preference to match L1 price i.e. Rs. 100/- for quantity of 13 Nos. Bidder "E" and "F", although MSEs, will not get purchase preference since their quoted rates don't fall within 15% margin of purchase preference. Bidder C will be considered for order of 13 Nos. on confirmation of reduction of price.
2. For 50% of balance quantity of 37 number (tendered quantity of 50 – 13 awarded to bidder C; assuming bidder C has confirmed to accept L1 rates), purchase preference will be given to lowest Class-I local supplier as per PPP-MII Order. Accordingly, bidder B will be invited to match L-1 price for 50% of 37 Nos i.e. 18.5 (say 19 Nos of computers). If bidder "B" does not accept the L1 price i.e. price of Rs. 100/- per unit, next higher Class-I local supplier falling within 20% margin of purchase preference, i.e. bidder "D", may be invited to match L-1 price for 19 Nos. of computers and so on.
3. For remaining quantity i.e. 18 Nos (50-13-19), the contract will be awarded to lowest quoting bidder i.e. Bidder "A", who is L-1 in the example.

Annexure-X

Restrictions under Rule 144(xi) of General Financial Rules, 2017 amendment dt: 23.07.2020

- I. Any bidder from a country which shares a land border with India will be eligible to bid in this tender only if the bidder is registered with the Competent Authority.
- II. "Bidder" (including the term 'tenderer', 'consultant' or 'service provider' in certain contexts) means any person or firm or company, including any member of a consortium or joint venture (that is an association of several persons, or firms or companies), every artificial juridical person not falling in any of the descriptions of bidders stated hereinbefore, including any agency branch or office controlled by such person, participating in a procurement process.
- III. "Bidder from a country which shares a land border with India" for the purpose of this Order means :-
 - a. An entity incorporated, established or registered in such a country; or
 - b. A subsidiary of an entity incorporated, established or registered in such a country; or
 - c. An entity substantially controlled through entities incorporated, established or registered in such a country; or
 - d. An entity whose *beneficial owner* is situated in such a country; or
 - e. An Indian (or other) agent of such an entity; or
 - f. A natural person who is a citizen of such a country; or
 - g. A consortium or joint venture where any member of the consortium or joint venture falls under any of the above
- IV. The *beneficial owner* for the purpose of (iii) above will be as under:
 1. In case of a company or Limited Liability Partnership, the beneficial owner is the natural person(s), who, whether acting alone or together, or through one or more juridical person, has a controlling ownership interest or who exercises control through other means.

Explanation--

 - a. "Controlling ownership interest" means ownership of or entitlement to more than twenty-five per cent of shares or capital or profits of the company;
 - b. "Control" shall include the right to appoint majority of the directors or to control the management or policy decisions including by virtue of their shareholding or management rights or shareholders agreements or voting agreements;
 2. In case of a partnership firm, the beneficial owner is the natural person(s) who, whether acting alone or together, or through one or more juridical person, has ownership of entitlement to more than fifteen percent of capital or profits of the partnership;

3. In case of an unincorporated association or body of individuals, the beneficial owner is the natural person(s), who, whether acting alone or together, or through one or more juridical person, has ownership of or entitlement to more than fifteen percent of the property or capital or profits of such association or body of individuals;
4. Where no natural person is identified under (1) or (2) or (3) above, the beneficial owner is the relevant natural person who holds the position of senior managing official;
5. In case of a trust, the identification of beneficial owner(s) shall include identification of the author of the trust, the trustee, the beneficiaries with fifteen percent or more interest in the trust and any other natural person exercising ultimate effective control over the trust through a chain of control or ownership.

V. An Agent is a person employed to do any act for another, or to represent another in dealings with third person.



ಭಾರತ್ ಹೆವಿ ಎಲೆಕ್ಟ್ರಿಕಲ್ಸ್ ಲಿಮಿಟೆಡ್
भारत हेवी इलेक्ट्रिकल्स लिमिटेड

Bharat Heavy Electricals Ltd.,
(A Government of India undertaking)
Electronics Division

PB 2606 , Mysore Road Bangalore , 560026 INDIA

CE: PR: 002- Rev 03

GENERAL COMMERCIAL CONDITIONS FOR CONTRACT

These 'General Commercial Conditions for Contract for Purchase' herein after referred to as GCC apply to all enquiries, tenders, requests for quotations, orders, contracts and agreements concerning the supply of goods and the rendering of related services (hereinafter referred to as "deliveries") to Bharat Heavy Electricals Limited and any of its units, regions or divisions (hereinafter referred to as "BHEL" or the Purchaser) or its projects/ customers.

Any deviations from or additions to these GCC require BHEL's express written consent. The general terms of business or sale of the vendor shall not apply to BHEL. Acceptance, receipt of shipments or services or effecting payment shall not mean that the general terms of business or sale of the vendor have been accepted.

Orders, agreements and amendments thereto shall be binding if made or confirmed by BHEL in writing. Only the Purchasing department of BHEL is authorized to issue the Purchase Order or any amendment thereof.

Definitions: Throughout these conditions and in the specifications, the following terms shall have the meanings assigned to them, unless the subject matter or the context requires otherwise.

- a) 'The Purchaser' means Bharat Heavy Electricals Limited, Electronics division, Mysore road, Bangalore 560 026, a Unit of Bharat Heavy Electricals Limited (A Govt. of India Undertaking) incorporated under the Companies Act having its registered office at BHEL House, Siri Fort, New Delhi-110049, India and shall be deemed to include its successors and assigns. It may also be referred to as BHEL.
- b) 'The vendor' means the person, firm, company or organization on whom the Purchase Order is placed and shall be deemed to include the vendor's successors, representative heirs, executors and administrator as the case may be. It may also be referred to as Seller, Contractor or Supplier.
- c) 'Contract' shall mean and include the Purchase Order incorporating various agreements, viz. tender/ RFQ, offer, letter of intent/acceptance/ award, the General Conditions of Contract and Special Conditions of Contract for Purchase, Specifications, Inspection/ Quality Plan, Schedule of Prices and Quantities, Drawings, if any enclosed or to be provided by BHEL or his authorized nominee and the samples or patterns if any to be provided under the provisions of the contract.
- d) 'Parties to the Contract' shall mean the 'The Vendor' and the Purchaser as named in the main body of the Purchase Order.

Order of Precedence:

In case of any inconsistency or contradiction between any of the documents, the order of precedence shall be Purchase Order, LOI / LOA, Special Conditions of Contract and General Conditions of Contract for commercial conditions; and specific agreement on technical conditions, RFQ/offer and specification for Technical Conditions.

Interpretation:

In the contract, except where the context requires otherwise:

- a) words indicating one gender include all genders;
- b) words indicating the singular also include the plural and words indicating the plural also include the singular;

- c) provisions including the word "agree", "agreed" or "agreement" require the agreement to be recorded in writing, and
- d) "Written" or "in writing" means hand-written, type-written, printed or electronically made, and resulting in a permanent record.

Applicable Conditions:

1. **Price Basis:** All prices shall be firm until the purchase order is executed / completed in all respects. No price variations / escalation shall be permitted.
2. **Ordering and confirmation of Order:** Vendor shall send the order acceptance on their company letter head/ through e-mail within a week from the date of receipt of Purchase Order or such other period as specified/ agreed by BHEL. BHEL reserves the right to revoke the order placed if the order confirmation differs from the original order placed. The acceptance of goods/services/supplies by BHEL as well as payments made in this regard shall not imply acceptance of any deviations.
The purchase order will be deemed to have been accepted if no communication to the contrary is received within one week (or the time limit as specified/agreed by BHEL) from the date of receipt of the purchase order.

3. **Documentation:** After receipt of Purchase Order, vendor should submit necessary documents (if & as applicable) like drawings specified, bill of materials, datasheets, catalogues, quality plan, test procedure, type test report, O & M Manuals and/or any other relevant documents as per Specification/Purchase Order, as and when required by BHEL/Customer.
At any stage within the contract period, the vendor shall notify of any error, fault or other defect found in BHEL's documents /specifications or any other items for reference. If and to the extent that (taking account of cost and time) any vendor exercising due care would have discovered the error, fault or other defect when examining the documents/specifications before submitting the tender, the time for completion shall not be extended. However if errors, omissions, ambiguities, inconsistencies, inadequacies or other defects are found in the vendor's documents, they shall be corrected at his cost, notwithstanding any consent or approval.

4. **Penalty:**

- a. **For delay in documentation:** In the event of delay in submission of complete set of specified documents ((like drawings, bill of materials, datasheets, catalogues, quality plan etc. as called in tender specifications including soft copies wherever applicable) in required sets beyond two(02) weeks (or as agreed/indicated in the SCC/Purchase Order) from the date of receipt of Purchase Order(by email), penalty at 0.5% (half percent) per week or part thereof, limited to a maximum of 5% (five percent) of the basic material value of the Purchase Order will be applicable.

Penalty for delayed documentation if applicable, shall be deducted at the time of first supply payment. If penalty is applicable for duration of less than a week, penalty @ 0.5% (half percent) of the basic material value will be deducted. GST as applicable will be recovered along with penalty amount.

- b. **For delay in delivery:** In the event of delay in agreed contractual delivery as per Purchase Order, penalty @ 0.5 % (half percent) per week or part thereof but limited to a max of 10% (ten percent) value of undelivered portion (basic material cost) will be applicable. Delivery will commence from the date of issue of Manufacturing clearance along with approved document. The date for which Inspection call is issued by vendor along with test certificates / test reports /Certificate of Conformance / calibration reports, as proof of completion of manufacturing will be treated as date of deemed delivery for penalty calculation. In the absence of furnishing such document indicated above as proof of completion of manufacturing along with inspection call, actual date of inspection will be considered as date of deemed delivery and BHEL will not be responsible for delay in actual date of inspection.

Penalty for delayed delivery if applicable, shall be deducted at the time of first supply payment. If penalty is applicable for duration of less than a week, penalty @ 0.5% (half percent) of the basic material value will be

deducted.

5. Contract variations (Increase or decrease in the scope of supply): BHEL may vary the contracted scope as per requirements at site. If vendor is of the opinion that the variation has an effect on the agreed price or delivery period, BHEL shall be informed of this immediately in writing along with technical details. Where unit rates are available in the Contract, the same shall be the basis for such additional work. Vendor shall not perform additional work before BHEL has issued written instructions/ amendment to the Purchase Order to that effect. The work which the vendor should have or could have anticipated in terms of delivering the service(s) and functionality (i.e.) as described in this agreement, or which is considered to be the result of an attributable error on the vendor's part, shall not be considered additional work.
6. Pre-dispatch inspection at Seller premises: Before dispatch, the goods will be inspected by Buyer / Consignee or their Authorized Representative or by Nominated External Inspection Agency (independently or jointly with Buyer or Consignee as decided by the Buyer) at Seller premises (or at designated place for inspection as declared / communicated by the seller) for their compliance to the contract specification. For in-house testing, the Sellers will provide necessary facilities free of cost.

Prior written notice of at least 10 days shall be given along with internal test certificates/COC and applicable test certificates. Buyer will notify the Seller about the Authorized Representative/ Nominated External Inspection Agency and the date for testing. Scope of inspection is limited to 'approved Quality plan or QA Checklist or Purchase specification'. BHEL reserves the right for conducting repeat test, if required. All tests have to be conducted as applicable in line with approved Quality plan or QA Checklist or Purchase specification and original reports shall be furnished to BHEL-EDN, Bangalore for verification/acceptance for issue of dispatch clearance.

All costs related to re-inspection(s) shall be borne by vendor. Whether the Contract provides for tests on the premises of the vendor or any of his Sub-contractor/s, vendor shall be responsible to provide such assistance, labour, materials, electricity, fuel, stores, apparatus, instruments as may be required and as may be reasonably demanded to carry out such tests efficiently. Cost of any type test or such other special tests shall be borne by BHEL only if specifically agreed to in the purchase order.

7. Transit Insurance: Transit insurance coverage between vendor's works and project site shall be to the account of BHEL, unless specifically agreed otherwise. However, vendor shall send intimation directly to insurance agency (as mentioned in dispatch instructions issued by BHEL) through fax/courier/e-mail, immediately on dispatch of goods for covering insurance. A copy of such intimation sent by vendor to insurance agency shall be given to BHEL along with dispatch documents. Dispatch documents will be treated as incomplete without such intimation copy. BHEL shall not be responsible for sending intimations to insurance agency on behalf of the vendor.
8. Mode of dispatch:
Indigenous Scope: By road on Door Delivery Consignee Copy attached basis through your approved transporter (unless otherwise indicated in Dispatch Instructions), only on receipt of Despatch Clearance from BHEL.
Import Scope: By Air/Sea through BHEL approved Freight Forwarder/supplier approved Consolidator respectively as per agreed contractual terms, only on receipt of Dispatch Clearance from BHEL.
9. Changes in Statutory levies:
 If any rates of Tax are increased or decreased, a new Tax is introduced, an existing Tax is abolished, or any change in interpretation or application of any Tax occurs in the course of the execution of Contract, which was or will be assessed on the bidder in connection with performance of the Contract, an equitable adjustment of the Contract Price shall be made to fully take into account any such change by addition to the Contract Price or deduction there from, as the case may be. However, these adjustments would be restricted to direct transactions between BHEL and the bidder /agent of foreign bidder (if applicable). These adjustments shall not be applicable on procurement of raw materials, intermediary components etc. by the bidder /agent.

It is the obligation on the part of supplier to discharge his liability by payment of GST to Government of India in cash (or) utilization of input Tax credit in respect of such supply or services through GST invoice under this contract, so that BHEL will avail input tax credit on such supply. In the event that the input tax credit of the GST charged by the supplier is denied by the tax authorities to BHEL due to reasons attributable to supplier, BHEL shall be entitled to recover such amount from the supplier by way of adjustment from the next invoice or from Bank Guarantee. In addition to the amount of GST, BHEL shall also be entitled to recover interest and penalty, in case same is imposed by the tax authorities on BHEL.

If BHEL is not able to avail the credit of CGST & SGST/IGST, partially or entirely because the supplier issued a defective invoice or failed to produce the requisite documents, then the supplier shall immediately indemnify BHEL for such loss of tax credit which would be otherwise available to BHEL. BHEL, in such case, may, at its sole discretion, decide to recover such loss by way of deduction from payment due to the supplier or invoking the contract Performance Bank Guarantee.

The classification of goods as per GST should be correctly done by the supplier to ensure that ITC benefit is not lost to the BHEL on account of any error on the part of the supplier.

Any statutory increase in the CGST & SGST / IGST or any new or additional taxes or duties imposed within the Contractual Delivery Period or extended Contractual Delivery Period shall be to BHEL's account whereas if it is after Contractual Delivery period, it shall be to supplier's account. Any corresponding decrease on account of above shall be passed on to BHEL.

In case GST or any taxes or duties is not applicable at present but become applicable at the time of contractual delivery period due to any reason other than statutory, the same shall be borne by supplier.

10. Availing duty/tax exemption benefits by bidder, wherever applicable: BHEL shall issue the required Certificate/s, as per relevant policies of the Govt. of India, to facilitate the bidders to avail any such benefits under the Contract. In case of failure of the bidders to receive the benefits partly or fully from the Govt. of India and/or in case of any delay in receipt of such benefits, BHEL shall neither be liable nor responsible in any manner whatsoever.
11. Taxes against sub-vendor dispatches: All taxes/levies, as applicable in respect of all components, equipments and material to be despatched directly from the sub-vendor's works to Site irrespective of the fact whether such taxes and levies are assessable and chargeable on Vendor or the BHEL, shall be to the vendor's account and no separate claim in this regard will be entertained by BHEL.
12. High Sea Sales (HSS): Customs clearance of the consignment landed on Indian Sea/Air ports will be done by BHEL based on the original HSS documents provided by vendors.
Any delay in submission of complete/correct HSS documents to BHEL may incur demurrage charges. All demurrage charges on account of incomplete /incorrect HSS documents submission by vendor will be to vendor's account and all such charges will be recovered from any of the available vendor bills with BHEL.
13. Packaging and dispatch: The Seller shall package the goods safely and carefully and pack them suitably in all respects considering the peculiarity of the material for normal safe transport by Sea/ Air / Rail/ Road to its destination suitably protected against loss, damage, corrosion in transit and the effect of tropical salt laden atmosphere. The packages shall be provided with fixtures/ hooks and sling marks as may be required for easy and safe handling. If any consignment needs special handling instruction, the same shall be clearly marked with standard symbols / instructions. Hazardous material should be notified as such and their packing, transportation and other protection must conform to relevant regulations.
The packing, shipping, storage and processing of the goods must comply with the prevailing legislation and regulations concerning safety, the environment and working conditions. *For facilitating smooth movement of shipment, the consignment has to be in stackable condition.* Any Imported/Physical Exports items packed with raw/ solid wood packing material should be treated as per ISPM – 15 (fumigation) and accompanied by Phytosanitary/ Fumigation certificate. If safety information sheets (MSDS – Material Safety Data Sheet)

exist for an item or the packaging, vendor must provide this information without fail along with the consignment.

Each package must be marked with Consignee name, Purchase order number, Package number, Gross weight and net weight, dimensions (LxBxH) and Seller's name. Packing list of goods inside each package with PO item number and quantity must also be fixed securely outside the box to indicate the contents of each box. Total number of packages in the consignment must also be indicated in the packing list.

Separate packing & identification of items should be as follows.

1. Main Scope - All items must be tagged with part no. & item description.
2. Commissioning accessories/spares - All items must be tagged with part no. & item description.
3. Mandatory spares - All items must be tagged with part no. & item description.

Nevertheless, vendor shall adhere to dispatch & packing instructions issued by BHEL at the time of dispatch.

14. Assignment of Rights & Obligations; Subcontracting: Vendor is not permitted to subcontract the delivery or any part thereof to third party or to assign the rights and obligations resulting from this agreement in whole or in part to third parties without prior written permission from BHEL. Any permission or approval given by the BHEL shall, however, not absolve the vendor of the responsibility of his obligations under the Contract.
15. Progress report: Vendor shall render such report as to the progress of work and in such form as may be called for by the concerned purchase officer from time to time. The submission and acceptance of such reports shall not prejudice the rights of BHEL in any manner.
16. Non-disclosure and Information Obligations: Vendor shall provide with all necessary information pertaining to the goods as it could be of importance to BHEL. Vendor shall not reveal any specified confidential information that may be divulged by BHEL to Vendor's employees not involved with the tender/ contract & its execution and delivery or to third parties, unless BHEL has agreed to this in writing beforehand. Vendor shall not be entitled to use the BHEL name in advertisements and other commercial publications without prior written permission from BHEL.
17. Cancellation /Termination of contract: BHEL shall have the right to completely or partially terminate the agreement by means of written notice to that effect. Termination of the Contract, for whatever reason, shall be without prejudice to the rights of the parties accrued under the Contract up to the time of termination.
BHEL shall have the right to cancel/foreclose the Order/ Contract, wholly or in part, in case it is constrained to do so on account of any decline, diminution, curtailment or stoppage of the business.
18. Breach of Contract, Remedies & Termination: In case of breach of contract (failure of supplier), wherever the value of Performance security available with BHEL against the said contract is atleast 10% of the contract value, the same shall be encashed.

In case the value of the security instruments available with BHEL is less than 10% of the contract value, the balance amount will be recovered from other financial remedies (i.e. available bills of the contractor, retention amount, etc. with BHEL) or legal remedies shall be pursued.

Further, levy of liquidated damages, debarment, termination, de-scoping, short-closure, etc. shall be applied as per provisions of the contract.

19. Shortages: In the event of shortage on receipt of goods and/or on opening of packages at site, all such shortages, caused by supplier's act or omission, shall be made good at free of cost within a reasonable time that BHEL may allow from such intimation.

Transit Damages: In the event of receipt of goods in damaged condition or having found them so upon opening of packages at site, supplier shall make good of all such damages within a reasonable time from such intimation by BHEL. In case BHEL raises an insurance claim, the cost of material limited to insurance settled amount less handling charges will be reimbursed to supplier.

20. Remedial work: Notwithstanding any previous test or certification, BHEL may instruct the vendor to remove and replace materials/goods or remove and re-execute works/services which are not in accordance with the purchase order. Similarly BHEL may ask the vendor to supply materials or to execute any services which are urgently required for any safety reasons, whether arising out of or because of an accident, unforeseeable event or otherwise. In such an event, Vendor shall provide such services within a reasonable time as specified by BHEL.
21. Indemnity Clause: Vendor shall comply with all applicable safety regulations and take care for the safety of all persons involved. Vendor is fully responsible for the safety of its personnel or that of his subcontractor's men / property, during execution of the Purchase Order and related services. All statutory payments including PF, ESI or other related charges have to be borne by the vendor. Vendor is fully responsible for ensuring that all legal compliances are followed in course of such employment. Vendor shall fully indemnify and keep indemnified BHEL against all claims of whatsoever nature arising during the course and out of execution of this Order/Contract.
22. Product Information, Drawings and Documents: All specified drawings, technical documents or other technical information received by Vendor from BHEL or vice versa shall not, without the consent of the other party, be used for any other purpose than that for which they were provided. They may not, without the consent of the Disclosing party, otherwise be used or copied, reproduced, transmitted or communicated to third parties. All information and data contained in general product documentation, whether in electronic or any other form, are binding only to the extent that they are by reference expressly included in the contract.

Vendor, as per agreed date/s but not later than the date of delivery, provide free of charge information and drawings which are necessary to permit and enable BHEL to erect, commission, operate and maintain the product. Such information and drawings shall be supplied in as many numbers of copies as may be agreed upon.

All intellectual properties, including designs, drawings and product information etc. exchanged during the formation and execution of the Contract shall continue to be the property of the disclosing party.

23. Intellectual Property Rights, Licenses: If any Patent, design, Trade mark or any other intellectual property rights apply to the delivery (goods/related service) or accompanying documentation shall be the exclusive property of the Vendor and BHEL shall be entitled to the legal use thereof free of charge by means of a non-exclusive, worldwide, perpetual license. All intellectual property rights that arise during the execution of the Purchase Order/ contract for delivery by vendor and/or by its employees or third parties involved by the vendor for performance of the agreement shall belong to BHEL. Vendor shall perform everything necessary to obtain or establish the above mentioned rights. The Vendor guarantees that the delivery does not infringe on any of the intellectual property rights of third parties. The Vendor shall do everything necessary to obtain or establish the alternate acceptable arrangement pending resolution of any (alleged) claims by third parties. The Vendor shall indemnify BHEL against any (alleged) claims by third parties in this regard and shall reimburse BHEL for any damages suffered as a result thereof.
24. Force Majeure: If at any time during the continuance of the Contract, the performance in whole or in part by either party of any obligation under this Contract shall be prevented or delayed by the reasons of any war, hostility, acts of the public enemy, epidemics, civil commotion, sabotage, fires, floods, explosion, quarantine restrictions, strikes, lockouts or act of God provided notice of happening of such event duly evidenced with documents is given by one party to the other within 10 days from the date of occurrence thereof, neither party shall be by reasons of such event, be entitled to terminate the Contract nor shall either party have any claim for damages against the other in respect of such non-performance or the delay in performance, and deliveries under the contract shall be resumed as soon as practicable after such event has come to an end or ceased to exist, and the decision of the Buyer as to whether the deliveries have been so resumed or not, shall be final and conclusive.

If force majeure applies, dates by which performance obligations are scheduled to be met will be extended for a period of time equal to the time lost due to any delay so caused.

Notwithstanding above provisions, in an event of Force Majeure, BHEL reserves for itself the right to cancel the order/ contract, wholly or partly, in order to meet the overall project schedule and make alternative arrangements for completion of deliveries and other schedules.

25. Warranty:

Wherever required, and so provided in the specifications/ Purchaser Order, the Seller shall ensure that the goods supplied shall comply with the specifications laid down, for materials, workmanship and performance.

Unless otherwise specified in SCC, warranty period shall be applicable for a period of 24 months from the date of delivery of goods or 18 months from the date of commissioning of goods, whichever is earlier.

The warranty period as described above shall apply afresh to replaced, repaired or re-executed parts of a delivery. Unless otherwise specifically provided in the Purchase Order, Vendor's liability shall be co terminus with the expiration of the applicable warranty period.

26. Limitation of Liability: Vendor's liability towards this contract is limited to a maximum of 100% of the contract value and consequential damages are excluded. However the limits of liability will have no effect in cases of criminal negligence or wilful misconduct.

The total liability of Vendor for all claims arising out of or relating to the performance or breach of the Contract or use of any Products or Services or any order shall not exceed the total Contract price.

27. Liability during warranty: Vendor shall arrange replacement / repair of all the defective materials / services under its obligation during the warranty period. The rejected goods shall be taken away by vendor and replaced / repaired. In the event of the vendor's failure to comply, BHEL may take appropriate action including disposal of rejections and replenishment by any other sources at the cost and risk of the vendor.

In case, defects attributable to vendor are detected during Warranty period or where the commissioning call is issued within the warranty period, vendor shall be responsible for replacement/ repair of the goods as required by BHEL at vendor's cost even after expiry of warranty period.

Further if the equipment or any part thereof cannot be used by reason of such defect and/or making good of such defect, the warranty period of the equipment or such part, as the case may be, shall be extended by a period equal to the period during which the equipment or such part cannot be used by BHEL because of any of the aforesaid reasons. Upon correction of the defects in the facilities or any part thereof by repair/replacement, such repair/replacement shall have the warranty period for a period of twelve (12) months from the time such replacement/repair of the equipment or any part thereof has been completed.

28. Liability after warranty period: At the end of the warranty, the Vendor's liability ceases except for latent defects. For the purpose of this clause, latent defects shall be the defects inherently lying within the material or arising out of design deficiency which do not manifest themselves during the warranty Period, but later. The Contractor's liability for latent defects warranty for the equipment including spares shall be limited to a period of six months from the end of the warranty period of the respective equipment including spares or first time commissioning, whichever is later but not later than one (01) year from the date of expiry of warranty period.

29. Compliance with Laws: Vendor shall, in performing the contract, comply with all applicable laws. The vendor shall make all remittances, give all notices, pay all taxes, duties and fees, and obtain all permits, licences and approvals, as required by the laws in relation to the execution and completion of the contract and for remedying of any defects; and the Contractor shall indemnify and hold BHEL harmless against and from the consequences of any failure to do so.

30. Settlement of Disputes: Except as otherwise specifically provided in the Purchase Order, decision of BHEL shall be binding on the vendor with respect to all questions relating to the interpretation or meaning of the

terms and conditions and instructions herein before mentioned and as to the completion of supplies/work/services, other questions, claim, right, matter or things whatsoever in any way arising out of or relating to the contract, instructions, orders or these conditions or otherwise concerning the supply or the execution or failure to execute the order, whether arising during the schedule of supply/work or after the completion or abandonment thereof. Any disputes or differences among the parties shall to the extent possible be settled amicably between the parties thereto, failing which the disputed issues shall be settled through arbitration. Vendor shall continue to perform the contract, pending settlement of dispute(s).

31. Arbitration Clause in case of Contract with vendors other than Public Sector Enterprise (PSE) or a Government Department:

Arbitration & Conciliation:

The parties shall attempt to settle any disputes or difference arising out of the formation, breach, termination, validity or execution of the Contract; or, the respective rights and liabilities of the parties; or, in relation to interpretation of any provision of the Contract; or, in any manner touching upon the Contract, or in connection with this contract through friendly discussions. In case no amicable settlement can be reached between the parties through such discussions, in respect of any dispute; then, either Party may, by a notice in writing to the other Party refer such dispute or difference to the sole arbitration of an arbitrator appointed by Head of the BHEL–EDN. Such Sole Arbitrator appointed, shall conduct the arbitration in English language.

The Arbitrator shall pass a reasoned award and the award of the Arbitration shall be final and binding upon the Parties.

Subject as aforesaid, the provisions of Arbitration and Conciliation Act 1996 (India) or statutory modifications or re-enactments thereof and the rules made thereunder and for the time being in force shall apply to the arbitration proceedings under this clause. The seat of arbitration shall be Bangalore.

The cost of arbitration shall be borne as decided by the Arbitrator upon him entering the reference.

Subject to the Arbitration Clause as above, the Courts at Bangalore alone shall have exclusive jurisdiction over any matter arising out of or in connection with this Contract.

Notwithstanding the existence or any dispute or differences and/or reference for the arbitration, the parties shall proceed with and continue without hindrance the performance of its obligations under this Contract with due diligence and efficiency in a professional manner except where the Contract has been terminated by either Party in terms of this Contract.

Arbitration Clause in case of Contract with a Public Sector Enterprise (PSE) or a Government Department:

In the event of any dispute or difference relating to the interpretation and application of the provisions of the Contract, such dispute or difference shall be referred by either party for Arbitration to the Sole Arbitrator in the Department of Public Enterprises to be nominated by the Secretary to the Government of India in-charge of the Department of Public Enterprises. The Arbitration and Conciliation Act, 1996 shall not be applicable to arbitration under this clause. The award of the Arbitrator shall be binding upon the parties to the dispute, provided, however, any Party aggrieved by such Award may make further reference for setting aside or revision of the Award to the Law Secretary, Department of Legal Affairs, Ministry of Law and Justice, Government of India. Upon such reference the dispute shall be decided by the Law Secretary or the Special Secretary or Additional Secretary when so authorized by the Law Secretary, whose decision shall bind the Parties hereto finally and conclusively. The Parties to the dispute will share equally the cost of arbitration as intimated by the Arbitrator.'

32. Applicable Laws and Jurisdiction of Courts: Prevailing Indian laws both substantive and procedural, including modifications thereto, shall govern the Contract. Subject to the conditions as aforesaid, the competent courts in Bangalore alone shall have jurisdiction to consider over any matters touching upon this contract.

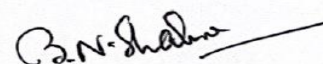
33. General Terms: That any non-exercise, forbearance or omission of any of the powers conferred on BHEL and /or any of its authorities will not in any manner constitute waiver of the conditions hereto contained in these presents.

That the headings used in this agreement are for convenience of reference only.

That all notices etc., to be given under the Purchase order shall be in writing, type script or printed and if sent by registered post or by courier service to the address given in this document shall be deemed to have been served on the date when in the ordinary course, they would have been delivered to the addressee.

PQC FOR CONTROL DESK

Sl. No.	PRE-QUALIFICATION CRITERIA	Vendor Compliance (Yes/No)
1	Upload Manufacturer authorization: The bidder should be Original Equipment Manufacturer OEM or authorized partner of OEM; Wherever Authorized Distributors are submitting the bid, Manufacturers Authorization Form (MAF) / Certificate with OEM details such as name, designation, address, e-mail Id and Phone No. required to be furnished along with the bid. to be furnished. CUSTOMER APPROVED SUPPLIERS ARE PYROTECH, ADARSHA & COSMOS. Note : If vendor is quoting any Make of desk other than above, clause-6 to be complied.	Manufacturer Authorization Form (MAF)
2	Bidders to provide compliance that same make/models (unit control desk with mosaic based console) quoted for this enquiry should have been earlier supplied for power Plant / process plant control rooms/any other control room application. Vendor should submit relevant PO copies with detailed BOM clearly indicating makes/models supplied as part of PO as a proof of supply.	
3	Experience Criteria: The Bidder or its OEM {themselves or through reseller(s)} should have regularly, manufactured, supplied & commissioned same or similar Category Products to any power plants or process industries for control room and should have successfully Commissioned (during past 5 years before the bid opening date). Copies of relevant contracts to be submitted along with bid in support of having supplied some quantity during each of the year. In case of bunch bids, the primary product having highest value should meet this criterion.	
4	The Bidder / OEM {themselves or through reseller(s)}, should have executed project for supply and installation / commissioning of same or similar Category Products during preceding 5 financial years (i.e. current year and five previous financial years) as on opening of bid, as per following criteria: (i) Single order of at least Rs. 25,000,00/- each; or (ii) Two orders of at least Rs. 15,000,00/- each; or (iii) Three orders of at least Rs. 10,000,00/- each ;	
5	Bidder's offer is liable to be rejected if they don't provide any of the certificates / documents sought in the Bid document, PQC and Corrigendum if any.	
6	Vendor to quote among the customer approved makes. If any other make is quoted, Vendor has to provide credentials and performance reports to get approval with customer. However, if the approval is not received within 21 days of submission, the offer shall be considered as rejected.	
7	Bidder's offer is liable to be rejected if they don't provide any of the certificates / documents sought in the Bid document, PQC and Corrigendum if any.	



Approved By
HoD (CE-Engg-HMI)



PURCHASE SPECIFICATION HMI OPERATOR DESK & FURNITURE (SECTION -1 &2)

PS4042951

REV No.: 01

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PURCHASE SPECIFICATIONS FOR OPERATOR DESK & FURNITURE

**PROJECT : MAHAN ULTRA SUPERCRITICAL
TPS 2x800MW**

CUSTOMER: M/s MEL LIMITED

TITLE
PURCHASE SPECIFICATION
HMI OPERATOR DESK

Dept Code	404
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DRN.	NAME	SIGN	DATE
PREPARED	AP		03.04.2025
CHECKED	AS		03.04.2025
APPROVED	BNS		03.04.2025

		A4-10	PURCHASE SPECIFICATION HMI OPERATOR DESK & FURNITURE (SECTION -1 &2)	PS4042951
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REVISION HISTORY SHEET

REV No.	DATE	NATURE OF CHANGE	REASON	PREPARED BY	CHECKED BY	REVIEWED BY
00	16.10.2024	FIRST ISSUE	---	HN	AS	BNS
01	03.04.2025	MINOR	ITEMS VARIANT ADDED	AP	AS	BNS



A4-10

PURCHASE SPECIFICATION
HMI OPERATOR DESK & FURNITURE
(SECTION -1 &2)

PS4042951

REV No.: 01

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TOTAL SCOPE OF SUPPLY

Quantity for Control Desk & Furniture - Adani Mahan USCTPP										
MATERIAL CODE	DESCRIPTION	Quantity Required								GRAND
		U-3	U-4	COMMON	OFFSITES					TOTAL
	DESK				AHP	CHP	WTP	FGD	BOP CMN	QTY (Set)
PR0500006491	7 Section Control Desk for Adani USCTPP							1		1
PR0500004455	6 Section Control Desk for Adani USCTPP						1			1
PR0500003750	4 Section Control Desk for Adani USCTPP				1	1			1	3
PR0500002215	1 Section Control Desk for Adani USCTPP	21	21	17	2	1	1			63
PR0500003092	8 Section Control Desk for Adani USCTPP			1						1
PR0900007265	CONTROL DESK-6 M (VARIANT-2) with console	1	1							2
PR0500002320	Mandatory spares for console (*)	1								1
PR0500002928	CONTROL DESK-5 M			1						1
PR5949002070	CONTROL DESK-3 M:			1						1
PR0500006500	CONTROL DESK-2 M			2						2
	FURNITURE									
PR0490000991	COMPUTER CHAIR	27	27	41	6	5	7	7	4	124
PR0500003045	Printer Table	5	5	8	1	1	1	1	1	23
PR0900005904	ALMIRAH				1	1	1	1	1	5
PR0900005920	LOCKER SET:				1	1	1	1	1	5
PR0900005912	KEYPAD LOCKER				1	1	1	1	1	5
	Installation & Commissioning charges for each visit <i>Note : Total 6 nos visit to be considered in lumpsum</i>	1	1	1	1	1	1			6

Note :

****Mandatory spares for console – Item breakup as per “Spares qty” column of Annexure-1A (Section-3) of Purchase specification***

		 A4-10	PURCHASE SPECIFICATION HMI OPERATOR DESK & FURNITURE (SECTION -1 &2)		PS4042951
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			SECTION-1 <u>1) CONTROL DESK-7 M - PR0500006491</u>		

Sl. No.	Specification	Supplier's Remark
1	Desk is required as per drawing enclosed (DRAWING-I). The desk should consist of vertical, horizontal and base support with their coverings for work surface, sliding keyboard trays, mouse pads, monitor arm (heavy duty suitable for 32" monitor)(heavy duty suitable for 32" monitor) and concealed cable and wire way management, perforated trays with covers on both horizontal and vertical section.	
2	The top surface of control desk shall be 30mm thick with the top 12mm of acrylic solid surface and remaining 18mm of laminated medium density fiber board. Foot, cantilever beams, Cable managers to be made of Extruded/Cast Aluminum/CRCA laminated steel, Support legs and Horizontal supports (if required) below Work surface to be of minimum 2.0 mm thick suitable extruded Aluminum /CRCA laminated steel profile.	
3	Control Desk (DESK) should be modular, without arc and with width and depth as per Drawing enclosed (DRAWING-I).	
4	Profiled extended support and cantilevered beam of Aluminum / steel with suspension hook (if required) to support legs to be provided which should have powder coated finish in approved color / shade.	
5	The CPU of OWS etc. should be within the control desk. CPU SIZE CONSIDERED:611(D) X 305(W) X 472(H) IN mm	
6	The Desk can be designed, manufactured and supplied in separate shipping sections. Indicative drawings attached. The general layout of one section is shown in the drawing.	
7	The design of the desk should be modular such that it shall be possible to add / remove any section/s of the desk if required.	

<u>1.1) CONTROL DESK-8 M - PR0500003092</u>		
Sl. No.	Specification	Supplier's Remark
1	Desk is required as per drawing enclosed (DRAWING-XIV). The desk should consist of vertical, horizontal and base support with their coverings for work surface, sliding keyboard trays, mouse pads, monitor arm (heavy duty suitable for 32" monitor)and concealed cable and wire way management, perforated trays with covers on both horizontal and vertical section.	
2	The top surface of control desk shall be 30mm thick with the top 12mm of acrylic solid surface and remaining 18mm of laminated medium density fiber board. Foot, cantilever beams, Cable managers to be made of Extruded/Cast Aluminum/CRCA laminated steel, Support legs and Horizontal supports (if required) below Work surface to be of minimum 2.0 mm thick suitable extruded Aluminum /CRCA laminated steel profile.	
3	Control Desk (DESK) should be modular, with arc and with width and depth as per Drawing enclosed (DRAWING-XIV).	
4	Profiled extended support and cantilevered beam of Aluminum / steel with suspension hook (if required) to support legs to be provided which should have powder coated finish in approved color / shade.	
5	The CPU of OWS etc. should be within the control desk. CPU SIZE CONSIDERED:611(D) X 305(W) X 472(H) IN mm	
6	The Desk can be designed, manufactured and supplied in separate shipping sections.	

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	Indicative drawings attached. The general layout of one section is shown in the drawing.	
7	The design of the desk should be modular such that it shall be possible to add / remove any section/s of the desk if required.	

2) CONTROL DESK-6 M (VARIANT-1) - PR0500004455

Sl. No.	Specification	Supplier's Remark
1	Desk is required as per drawing enclosed (DRAWING-II). The desk should consist of vertical, horizontal and base support with their coverings for work surface, sliding keyboard trays, mouse pads, monitor arm (heavy duty suitable for 32" monitor)and concealed cable and wire way management, perforated trays with covers on both horizontal and vertical section.	
2	The top surface of control desk shall be 30mm thick with the top 12mm of acrylic solid surface and remaining 18mm of laminated medium density fiber board. Foot, cantilever beams, Cable managers to be made of Extruded/Cast Aluminum/CRCA laminated steel, Support legs and Horizontal supports (if required) below Work surface to be of minimum 2.0 mm thick suitable extruded Aluminum /CRCA laminated steel profile.	
3	Control Desk (DESK) should be modular, without arc and with width and depth as per Drawing enclosed (DRAWING-II).	
4	Profiled extended support and cantilevered beam of Aluminum / steel with suspension hook (if required) to support legs to be provided which should have powder coated finish in approved color / shade.	
5	The CPU of OWS etc. should be within the control desk. CPU SIZE CONSIDERED:611(D) X 305(W) X 472(H) IN mm	
6	The Desk can be designed, manufactured and supplied in separate shipping sections. Indicative drawings attached. The general layout of one section is shown in the drawing.	
7	The design of the desk should be modular such that it shall be possible to add / remove any section/s of the desk if required.	

2.1) CONTROL DESK-6 M (VARIANT-2) - PR0900007265

Sl. No.	Specification	Supplier's Remark
1	Desk is required as per drawing enclosed (DRAWING-X). The desk should consist of vertical, horizontal and base support with their coverings for work surface, sliding keyboard trays, mouse pads, monitor arm (heavy duty suitable for 32" monitor)and concealed cable and wire way management, perforated trays with covers on both horizontal and vertical section.	
2	The top surface of control desk shall be 30mm thick with the top 12mm of acrylic solid surface and remaining 18mm of laminated medium density fiber board. Foot, cantilever beams, Cable managers to be made of Extruded/Cast Aluminum/CRCA laminated steel, Support legs and Horizontal supports (if required) below Work surface to be of minimum 2.0 mm thick suitable extruded Aluminum /CRCA laminated steel profile. Table top console to be provided on left-most portion/ right most-portion of desk , based on final approval. Table top console specifications are in Section-3 of this document (Pg. 27 onwards)	
3	Control Desk (DESK) should be modular, with arc and with width and depth as per Drawing enclosed (DRAWING-X).	
4	Profiled extended support and cantilevered beam of Aluminum / steel with suspension hook (if required) to support legs to be provided which should have powder coated finish in	

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		 A4-10	PURCHASE SPECIFICATION HMI OPERATOR DESK & FURNITURE (SECTION -1 &2)	PS4042951
				REV No.: 01
				Page 6 of 12
COPYRIGHT AND CONFIDENTIAL The information contained in this document is the property of BHARAT HEAVY ELECTRICALS LIMITED This must not be used directly or indirectly, in any manner detrimental to the interest of the company			approved color / shade.	
		5	The CPU of OWS etc. should be within the control desk. CPU SIZE CONSIDERED:611(D) X 305(W) X 472(H) IN mm	
		6	The Desk can be designed, manufactured and supplied in separate shipping sections. Indicative drawings attached. The general layout of one section is shown in the drawing.	
		7	The design of the desk should be modular such that it shall be possible to add / remove any section/s of the desk if required.	
		<u>2.2) CONTROL DESK-5 M - PR0500002928</u>		
		Sl. No.	Specification	Supplier's Remark
		1	Desk is required as per drawing enclosed (DRAWING-XIII). The desk should consist of vertical, horizontal and base support with their coverings for work surface, sliding keyboard trays, mouse pads, monitor arm (heavy duty suitable for 32" monitor)and concealed cable and wire way management, perforated trays with covers on both horizontal and vertical section.	
		2	The top surface of control desk shall be 30mm thick with the top 12mm of acrylic solid surface and remaining 18mm of laminated medium density fiber board. Foot, cantilever beams, Cable managers to be made of Extruded/Cast Aluminum/CRCA laminated steel, Support legs and Horizontal supports (if required) below Work surface to be of minimum 2.0 mm thick suitable extruded Aluminum /CRCA laminated steel profile.	
		3	Control Desk (DESK) should be modular, without arc and with width and depth as per Drawing enclosed (DRAWING-XIII).	
		4	Profiled extended support and cantilevered beam of Aluminum / steel with suspension hook (if required) to support legs to be provided which should have powder coated finish in approved color / shade.	
		5	The CPU of OWS etc. should be within the control desk. CPU SIZE CONSIDERED:611(D) X 305(W) X 472(H) IN mm	
		6	The Desk can be designed, manufactured and supplied in separate shipping sections. Indicative drawings attached. The general layout of one section is shown in the drawing.	
		7	The design of the desk should be modular such that it shall be possible to add / remove any section/s of the desk if required.	
		<u>3.) CONTROL DESK-4 M PR0500003750</u>		
		Sl. No.	Specification	Supplier's Remark
		1	Desk is required as per drawing enclosed (DRAWING-III). The desk should consist of vertical, horizontal and base support with their coverings for work surface, sliding keyboard trays, mouse pads, monitor arm (heavy duty suitable for 32" monitor)and concealed cable and wire way management, perforated trays with covers on both horizontal and vertical section.	
		2	The top surface of control desk shall be 30mm thick with the top 12mm of acrylic solid surface and remaining 18mm of laminated medium density fiber board. Foot, cantilever beams, Cable managers to be made of Extruded/Cast Aluminum/CRCA laminated steel, Support legs and Horizontal supports (if required) below Work surface to be of minimum 2.0 mm thick suitable extruded Aluminum /CRCA laminated steel profile.	
		3	Control Desk (DESK) should be modular, without arc and with width and depth as per	

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HMI OPERATOR DESK & FURNITURE
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	Drawing enclosed (DRAWING-III).	
4	Profiled extended support and cantilevered beam of Aluminum / steel with suspension hook (if required) to support legs to be provided which should have powder coated finish in approved color / shade.	
5	The CPU of OWS etc. should be within the control desk. CPU SIZE CONSIDERED:611(D) X 305(W) X 472(H) IN mm	
6	The Desk can be designed, manufactured and supplied in separate shipping sections. Indicative drawings attached. The general layout of one section is shown in the drawing.	
7	The design of the desk should be modular such that it shall be possible to add / remove any section/s of the desk if required.	

3.1) CONTROL DESK-3 M: PR5949002070

Sl. No.	Specification	Supplier's Remark
1	Desk is required as per drawing enclosed (DRAWING-XI). The desk should consist of vertical, horizontal and base support with their coverings for work surface, sliding keyboard trays, mouse pads, monitor arm (heavy duty suitable for 32" monitor)and concealed cable and wire way management, perforated trays with covers on both horizontal and vertical section.	
2	The top surface of control desk shall be 30mm thick with the top 12mm of acrylic solid surface and remaining 18mm of laminated medium density fiber board. Foot, cantilever beams, Cable managers to be made of Extruded/Cast Aluminum/CRCA laminated steel, Support legs and Horizontal supports (if required) below Work surface to be of minimum 2.0 mm thick suitable extruded Aluminum /CRCA laminated steel profile.	
3	Control Desk (DESK) should be modular, without arc and with width and depth as per Drawing enclosed (DRAWING-XI).	
4	Profiled extended support and cantilevered beam of Aluminum / steel with suspension hook (if required) to support legs to be provided which should have powder coated finish in approved color / shade.	
5	The CPU of OWS etc. should be within the control desk. CPU SIZE CONSIDERED:611(D) X 305(W) X 472(H) IN mm	
6	The Desk can be designed, manufactured and supplied in separate shipping sections. Indicative drawings attached. The general layout of one section is shown in the drawing.	
7	The design of the desk should be modular such that it shall be possible to add / remove any section/s of the desk if required.	

3.2) CONTROL DESK-2 M - PR0500006500

Sl. No.	Specification	Supplier's Remark
1	Desk is required as per drawing enclosed (DRAWING-XII). The desk should consist of vertical, horizontal and base support with their coverings for work surface, sliding keyboard trays, mouse pads, monitor arm (heavy duty suitable for 32" monitor)and concealed cable and wire way management, perforated trays with covers on both horizontal and vertical section.	
2	The top surface of control desk shall be 30mm thick with the top 12mm of acrylic solid surface and remaining 18mm of laminated medium density fiber board. Foot, cantilever beams, Cable managers to be made of Extruded/Cast Aluminum/CRCA laminated steel, Support legs and Horizontal supports (if required) below Work surface to be of minimum	

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	MDF board.	
4	Structure & legs: Al Extruded / ERW Tubes / MS with concealed wire management / wire carriers / cable raceways.	
5	4 way power distribution board should be provided.	
6	Item to be dismantled & packed for dispatch. Detailed bill of material & assembly drawing/instruction to be enclosed with packing during dispatch. All nuts, screws, bolts, other accessories required for assembly to be included.	
7	Assembly at site in vendor scope.	
8	Warranty: As per bid terms and conditions.	
9	Makes: Pyrotech, Cosmos, Adarsha.	

6.) COMPUTER CHAIR - PR0490000991

Computer chair as per drawing enclosed (DRAWING-VI) is required with the following additional specifications:

- 1. Seat/back assembly-** The cushioned seat is assembled with plywood & upholstered seat inner material is molded foam & Polyester fabric.
- 2. Net back** is made up of Back outer (Material-Glass Fiber Filled Nylon) & Back inner (material- ABS) upholstered with polyester Mesh fabric.
 - * Full back size: 48 cm(W) X 59 cm(H)
 - * Seat size: 50.5 cm(W) X 51 cm(D)

Polyurethane foam: The Polyurethane foam is molded with density = 55 +/- 2 kg/m³ and Hardness = 25 +/- 2 at 28% compression

Back spine: The support spine is made up of a glass fiber filled with PA6

Armrests:

 - *The 2-way adjustable armrests are designed to move up-down and swivel Adjustable
 - *Armrest is connected to seat rest and can be operated with or without a button.
 - *Swivel adjustment is provided in arm pad, Fixed to armrest structure.
 - *Arm pads are made up of PU molded over the plastic inner.
- 3. Front pivot synchro-mechanism:**

Single Lever Multilock Mechanism

 - * Tilt tension adjustment can be operated in a seating position.
 - *Lockable in 4 position
 - * Seat/back tilting ratio of 3:7 (30 seat tilt / 70 back tilt).
 - *The mechanism housing is made up of MS
- 4. Lumbar support assembly:** Lumbar Support spine is made up of glass fiber filled fixed to back spine. The Lumbar pad (material- Poly Propylene) is fixed to lumbar spine through lumbar Pad support. Lumbar Support Assembly has height adjustment of 60mm.
- 5. Pneumatic height adjustment:** The pneumatic height adjustment has an adjustment stroke of 10.0 cm.
- 6. PEDESTAL ASSEMBLY:** The pedestal is High Pressure Die cast polished Aluminum and fitted with 5 nos. twin wheel castors. The pedestal pitch-center dia. is 65.0cm without castors.
- 7. Twin wheel castors:** The twin wheel castors are injection moulded in black Nylon having 60mm wheel Diameter; conforming to BIFMA X5.1 standard tested to perform 1, 00,000 cycles with 253lbs. (114kg) Load

Note: These dimensions are product out to out dimension and variation within 2 cm are normal and acceptable.

Make: Godrej, Featherlite, Pyrotech or equivalent.



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PURCHASE SPECIFICATION

HMI OPERATOR DESK & FURNITURE

(SECTION -1 &2)

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Section-2

7.) ALMIRAH - PR0900005904

Almirah is required as per drawing (DRAWING-VII) and the following additional specifications:
Test certificate to be furnished for overall dimension, paint thickness and sheet thickness.

8.) LOCKER SET: PR0900005920

Locker set is required as per drawing (DRAWING-VIII) and the following additional specifications:
Test certificate to be furnished for overall dimension, paint thickness and sheet thickness.

9.) KEYPAD LOCKER: PR0900005912

Keypad Locker set is required as per drawing (DRAWING-IX) and the following additional specifications:
Test certificate to be furnished for overall dimension, paint thickness and sheet thickness.

GENERAL SPECIFICATIONS FOR MODULAR FURITURE

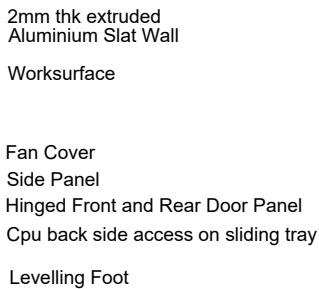
Sl. No.	Specification	Supplier's Remark
1	Finished surface to be free from waves, belies or other imperfections. Surface to be Powder Coated or if Spray painted, 2 coats of inhibitive epoxy primer surface to be applied. Paint with Minimum of 2 coats of Primer and 2 sprays of final finish color to be applied OR powder coated with epoxy paint. Exact color and shade of components will be specified at the time of Order placement. Minimum thickness for Aluminum Sheets: is 30 microns. For MS Components: is 65 microns	
2	Along with offer detailed drawings showing sectional view, top view, front view, and rear view of desks and tables, electrical wiring diagram with bill of materials for each item.	
3	Documents to be submitted for manufacturing approval: - Detailed OGA with front view, top view, rear view, sectional view, and floor cut-out details for desks and tables. - Electrical Wiring Diagram with BOM of racks, workstation furniture and printer racks. - Quality Plan - Color Shade options.	
4	Documents to be submitted after placement of PO: Datasheet to be submitted to BHEL for taking approval from Customer/Consultant; Manufacturing clearance will be provided after approval of datasheet by customer/consultant.	
5	Supplier internal Test certificate for dimensions, visual inspection, paint, HV, IR, electrical functions to be submitted before giving inspection calls to BHEL.	
6	Pre-dispatch inspection: Supplier internal test certificate for dimensions, visual inspection, paint, HV, IR, electrical functions to be submitted before giving inspection calls to BHEL. Physical inspection of all the above items will be carried out by BHEL/customer after submission of factory tested test certificate. All items will be directly dispatched to project site from supplier works after obtaining necessary clearance from BHEL.	
7	All items will be directly dispatched to project site from supplier works after obtaining necessary clearance from BHEL. Consignee details will be intimated at the	

	 A4-10	PURCHASE SPECIFICATION HMI OPERATOR DESK & FURNITURE (SECTION -1 &2)		PS4042951																																									
				REV No.: 01																																									
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	8		All items shall be packed in complete weather proof packing with sufficient cushioning to avoid transit damage. Suitable pallet shall be provided for handling and transportation																																										
	9		Name Plates with following details are to be provided for each shipping section. ▪ Item: As per PO ▪ Project Name / Unit no: As per PO ▪ Customer Name: As per PO ▪ BHEL Order No.: As per PO ▪ Date of dispatch to site: As per PO																																										
	10		Assembly, erection and installation, including laying of power cables, keyboard, mouse and monitor extender cables, termination of the cables, at site to be carried out by supplier. Offer to include charges for same along with necessary touch up etc.																																										
	11		Modifications as per site requirements to be done on free of cost to match with floor opening for cables. Site work for aligning and matching the curvature of desk as shown in enclosed drawing is under supplier scope.																																										
	12		Warranty: Offer to include "Two years warranty at site" for all items against manufacturing defects from date of supply. Warranty to include all costs towards material, labor, to fro, traveling, accommodation and stay etc. Exact location of the project site will be intimated at the time of PO.																																										
	Note: Supplier is required to submit the filled, signed and stamped copy of this specification along with the offer, failing which offer is liable for rejection. DRAWINGS: <table> <tr><td>DRAWING I</td><td>–</td><td>7 SECTION DESK</td></tr> <tr><td>DRAWING II</td><td>–</td><td>6 SECTION DESK – VARIANT-1</td></tr> <tr><td>DRAWING III</td><td>–</td><td>4 SECTION DESK</td></tr> <tr><td>DRAWING IV</td><td>–</td><td>1 SECTION DESK</td></tr> <tr><td>DRAWING V</td><td>–</td><td>PRINTER TABLE</td></tr> <tr><td>DRAWING VI</td><td>–</td><td>COMPUTER CHAIR</td></tr> <tr><td>DRAWING VII</td><td>–</td><td>ALMIRAH</td></tr> <tr><td>DRAWING VIII</td><td>–</td><td>LOCKER SET</td></tr> <tr><td>DRAWING IX</td><td>–</td><td>KEYPAD LOCKER</td></tr> <tr><td>DRAWING X</td><td>–</td><td>6 SECTION DESK VARIANT-2 with TABLE TOP CONSOLE</td></tr> <tr><td>DRAWING XI</td><td>–</td><td>3 SECTION DESK</td></tr> <tr><td>DRAWING XII</td><td>–</td><td>2 SECTION DESK</td></tr> <tr><td>DRAWING XIII</td><td>–</td><td>5 SECTION DESK</td></tr> <tr><td>DRAWING XIV</td><td>–</td><td>8 SECTION DESK</td></tr> </table>				DRAWING I	–	7 SECTION DESK	DRAWING II	–	6 SECTION DESK – VARIANT-1	DRAWING III	–	4 SECTION DESK	DRAWING IV	–	1 SECTION DESK	DRAWING V	–	PRINTER TABLE	DRAWING VI	–	COMPUTER CHAIR	DRAWING VII	–	ALMIRAH	DRAWING VIII	–	LOCKER SET	DRAWING IX	–	KEYPAD LOCKER	DRAWING X	–	6 SECTION DESK VARIANT-2 with TABLE TOP CONSOLE	DRAWING XI	–	3 SECTION DESK	DRAWING XII	–	2 SECTION DESK	DRAWING XIII	–	5 SECTION DESK	DRAWING XIV	–
DRAWING I	–	7 SECTION DESK																																											
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DRAWING XIV	–	8 SECTION DESK																																											

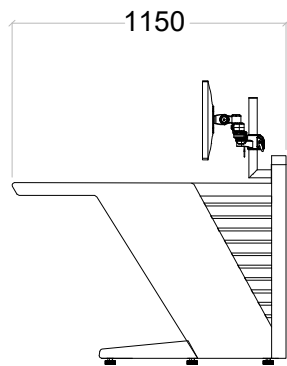
CONTROL DESK OF 7 SECTIONS



TOP VIEW



FRONT VIEW



SIDE VIEW

NOTES :

- 1) THE TOP SURFACE OF CONTROL DESK SHALL BE 30mm THICK WITH THE TOP 12mm OF ACRYLIC SOLID SURFACE (ASS) AND THE REMAINING 18mm OF LAMINATED MEDIUM DENSITY (MDF).
- 2) COLOR OF TABLE TOP : AS PER APPROVAL.
- 3) SEPARATE HORIZ. CABLE ROUTING WIRE BASKETS FOR POWER & DATA CABLES WILL BE PROVIDED DOUBLE COMPRESSION TYPE CABLE GLAND WILL BE PROVIDED
- 4) POWER DISTRIBUTION SOCKETS (EACH USER STATIONS WILL BE PROVIDED WITH 2 No's SEPARATE PDB UNITS (1 FOR MAIN & 1 FOR UPS LINE) EACH PDB UNIT WILL HAVE 6 POINTS OF 5/15A SOCKETS WITH MCB & INDICATOR
- 5) 18mm MDF FRONT & BACK MODESTY PANEL (OPENABLE WITH PUSH LOCKS)
- 6) VENTILATION LOUVERS WILL BE PROVIDED WITH FAN ON BOTH FRONT & REAR MODESTY WITH AIR FILTERS
- 7) CPU WILL BE MOUNTED ON CPU SLIDING TRAY
- 8) NEOPRENE GASKETS SHALL BE PROVIDED FOR FRONT & BACK CONSOLE DOORS.
- 9) HINGES FOR THE DOORS SHALL BE PROVIDED
- 10) EARTHING STRIP WILL BE PROVIDED
- 11) LED LAMP WILL BE PROVIDED FOR INTERNAL ILLUMINATION
- 12) IP CLASS SHALL BE IP:20

CPU SIZE CONSIDERED:680(D) X 305(W) X 472(H) IN mm

DIMENSIONS ARE INDICATIVE AND SUBJECT TO CHANGE BASED ON MODEL/SUPPLIER AVAILABILITY.

REV.	DATE	ALTERED	REV.	DATE	ALTERED	RB		NAME	SIGN	DATE
		CHECKED			CHECKED	HN				
		APPROVED			APPROVED	BNS				
			01	19.09.24						
			REVISED AS PER CUSTOMER COMMENTS				DRAWN	S.H.K		14.05.24
							CHECKED	H.N		14.05.24
							APPROVED	B.N.S		14.05.24



DEPT.
HMI

PRODUCT : MEL SINGARAULI PH-II BOP OFFSITE PKGS (2x800MW)
CUSTOMER: MEL ADANI

BHARAT HEAVY ELECTRICALS LIMITED.
ELECTRONICS DIVISION, BANGALORE

TITLE:

CONTROL DESK OF 7 SECTIONS

WBS. No.

CE/2057-PR1-56-01

DRG. No.	
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EN-DG-2057-56-01

No. OF

11

SHEET
No.

05

REV

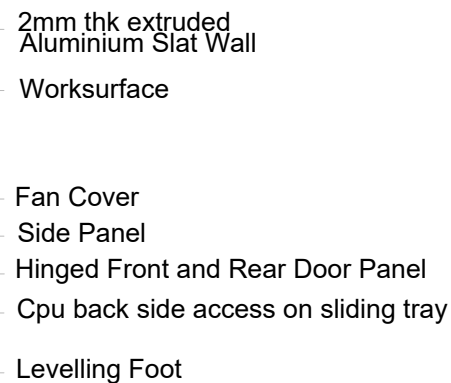
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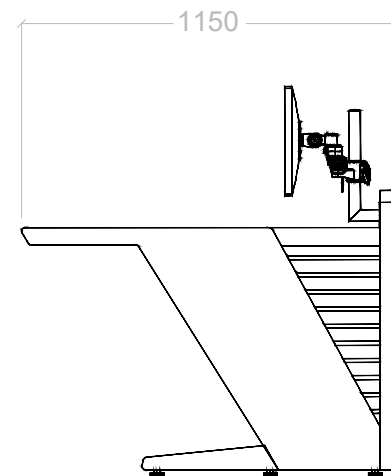
CONTROL DESK OF 4 SECTIONS



TOP VIEW



FRONT VIEW



SIDE VIEW

NOTES :

- 1) THE TOP SURFACE OF CONTROL DESK SHALL BE 30mm THICK WITH THE TOP 12mm OF ACRYLIC SOLID SURFACE (ASS) AND THE REMAINING 18mm OF LAMINATED MEDIUM DENSITY (MDF).
- 2) COLOR OF TABLE TOP : AS PER APPROVAL.
- 3) SEPARATE HORZ. CABLE ROUTING WIRE BASKETS FOR POWER & DATA CABLES WILL BE PROVIDED
DOUBLE COMPRESSION TYPE CABLE GLAND WILL BE PROVIDED
- 4) POWER DISTRIBUTION SOCKETS (EACH USER STATIONS WILL BE PROVIDED WITH 2 No's
SEPARATE PDB UNITS (1 FOR MAIN & 1 FOR UPS LINE) EACH PDB UNIT WILL HAVE 6 POINTS
OF 5/15A SOCKETS WITH MCB & INDICATOR
- 5) 18mm MDF FRONT & BACK MODESTY PANEL (OPENABLE WITH PUSH LOCKS)
- 6) VENTILATION LOUVERS WILL BE PROVIDED WITH FAN ON BOTH FRONT & REAR MODESTY WITH AIR FILTERS
- 7) CPU WILL BE MOUNTED ON CPU SLIDING TRAY
- 8) NEOPRENE GASKETS SHALL BE PROVIDED FOR FRONT & BACK CONSOLE DOORS.
- 9) HINGES FOR THE DOORS SHALL BE PROVIDED
- 10) EARTHING STRIP WILL BE PROVIDED
- 11) LED LAMP WILL BE PROVIDED FOR INTERNAL ILLUMINATION
- 12) IP CLASS SHALL BE IP:20

CPU SIZE CONSIDERED:680(D) X 305(W) X 472(H) IN mm
DIMENSIONS ARE INDICATIVE AND SUBJECT TO CHANGE BASED ON MODEL/SUPPLIER AVAILABILITY.

REV.	DATE	ALTERED	REV.	DATE	ALTERED	RB		NAME	SIGN	DATE
		CHECKED			CHECKED	HN				
		APPROVED			APPROVED	BNS				
			01	19.09.24						
			REVISED AS PER CUSTOMER COMMENTS				DRAWN	S.H.K		14.05.24
							CHECKED	H.N		14.05.24
							APPROVED	B.N.S		14.05.24



DEPT.	CODE
HMI	404

PRODUCT : MEL SINGARAULI PH-II BOP OFFSITE PKGS (2x800MW)
CUSTOMER: MEL ADANI

BHARAT HEAVY ELECTRICALS LIMITED.
ELECTRONICS DIVISION, BANGALORE

TITLE:

CONTROL DESK OF 4 SECTIONS

WBS. No.

CE/2057-PR1-56-01

DRG. No.	
----------	--

EN-DG-2057-56-01

No. OF SHEETS	11
SHEET No.	03

REV
01

CONTROL DESK OF 1 SECTION



- 1) THE TOP SURFACE OF CONTROL DESK SHALL BE 30mm THICK WITH THE TOP 12mm OF ACRYLIC SOLID SURFACE (ASS) AND THE REMAINING 18mm OF LAMINATED MEDIUM DENSITY (MDF).
- 2) COLOR OF TABLE TOP : AS PER APPROVAL.
- 3) SEPARATE HORZ. CABLE ROUTING WIRE BASKETS FOR POWER & DATA CABLES WILL BE PROVIDED
DOUBLE COMPRESSION TYPE CABLE GLAND WILL BE PROVIDED
- 4) POWER DISTRIBUTION SOCKETS (EACH USER STATIONS WILL BE PROVIDED WITH 2 No's
SEPARATE PDB UNITS (1 FOR MAIN & 1 FOR UPS LINE) EACH PDB UNIT WILL HAVE 6 POINTS
OF 5/15A SOCKETS WITH MCB & INDICATOR
- 5) 18mm MDF FRONT & BACK MODESTY PANEL (OPENABLE WITH PUSH LOCKS)
- 6) VENTILATION LOUVERS WILL BE PROVIDED WITH FAN ON BOTH FRONT & REAR MODESTY WITH AIR FILTERS
- 7) CPU WILL BE MOUNTED ON CPU SLIDING TRAY
- 8) NEOPRENE GASKETS SHALL BE PROVIDED FOR FRONT & BACK CONSOLE DOORS.
- 9) HINGES FOR THE DOORS SHALL BE PROVIDED
- 10) EARTHING STRIP WILL BE PROVIDED
- 11) LED LAMP WILL BE PROVIDED FOR INTERNAL ILLUMINATION
- 12) IP CLASS SHALL BE IP:20

CPU SIZE CONSIDERED:680(D) X 305(W) X 472(H) IN mm
DIMENSIONS ARE INDICATIVE AND SUBJECT TO CHANGE BASED ON MODEL/SUPPLIER AVAILABILITY.

REV.	DATE	ALTERED	REV.	DATE	ALTERED	RB		NAME	SIGN	DATE
		CHECKED			CHECKED	HN				
		APPROVED			APPROVED	BNS				
			01	19.09.24						
			REVISED AS PER CUSTOMER COMMENTS				DRAWN	S.H.K		14.05.24
							CHECKED	H.N		14.05.24
							APPROVED	B.N.S		14.05.24

	
DEPT. HMI	COD 404
	

PRODUCT : MEL SINGARAULI PH-II BOP OFFSITE PKGS (2x800MW)
CUSTOMER: MEL ADANI

BHARAT HEAVY ELECTRICALS LIMITED.
ELECTRONICS DIVISION, BANGALORE

TITLE:	CONTROL DESK OF 1 SECTION	No. OF SHEETS	11
		SHEET No.	06

WBS. No.	CE/2057-PR1-56-01
----------	-------------------

DRG. No.	REV
EN-DG-2057-56-01	01

10-99-2057-90-NE
DRG. No.

DRAWING-V

PRINTER TABLE

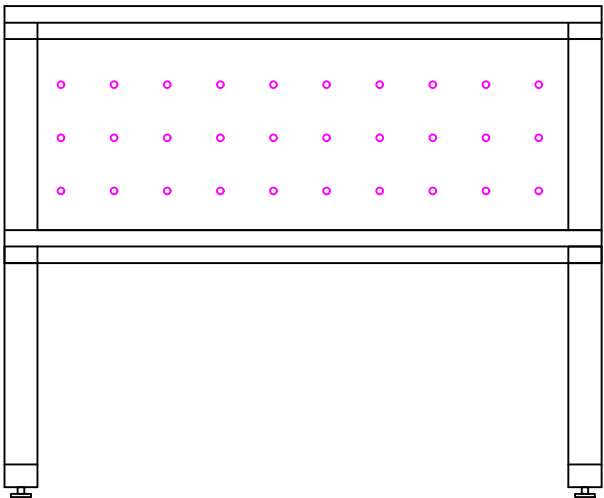
NOTES:-

- 1) Overall minimum dimension 900(W) x 650(D) x 740 (H)mm.
- 2) Table top : 25mm Thick MDF.
- 3) Structure & legs : Al Extruded / ERW tubes/ MS, with
Concealed wire management / Wire carriers / Cable raceways.
- 4) Modesty panel made of perforated backsheet.
- 5) Power distribution board with socket & switch for each socket.
- 6) Termite proof & water proof board to be used.

650

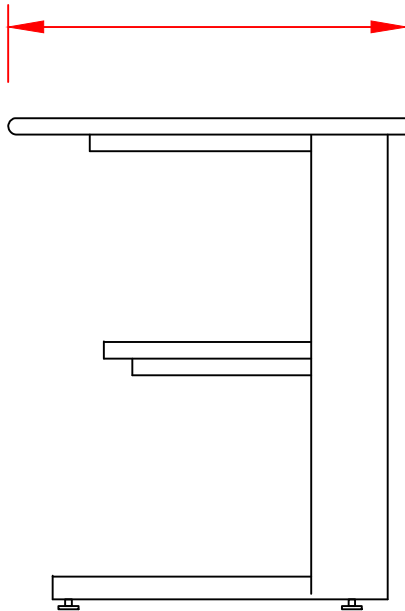
900

TOP VIEW



FRONT VIEW

650



SIDE VIEW

740

PRODUCT : MEL SINGARALI PH-II BOP OFFSITE PKGS (2x800MW)
CUSTOMER: MEL ADANI

BHARAT HEAVY ELECTRICALS LIMITED.
ELECTRONICS DIVISION, BANGALORE

OGA OF PRINTER TABLE

No. OF
SHEETS 11

SHEET
No. 07

REV
01

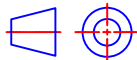
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01	19.09.24	APPROVED	BNS

	NAME	SIGN	DATE
DRAWN	S.H.K		14.05.24
CHECKED	H.N		14.05.24
APPROVED	B.N.S		14.05.24



DEPT.
HMI

CODE
404



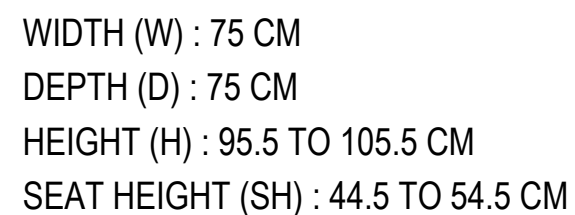
WBS. No.

CE/2057-PR1-56-01

DRG. No.

EN-DG-2057-56-01

COMPUTER CHAIR



Note: These dimensions are product out to out dimension and variation within 2 cm are normal and acceptable.

Make: Godrej, Featherlite, Pyrotech or equivalent.

	
DEPT. HMI	CODE 404
	

PRODUCT : MEL SINGARAULI PH-II UNIT MAIN PKGS (2x800MW)
CUSTOMER: MEL ADANI

BHARAT HEAVY ELECTRICALS LIMITED.
ELECTRONICS DIVISION, BANGALORE

TITLE:		OGA OF CHAIR	No. OF SHEETS	07
			SHEET No.	07
WBS. No.	CE/1988-SH3/4-56-01	DRG. No.	36594405369	REV
				01

EN-DG-2057-56-01

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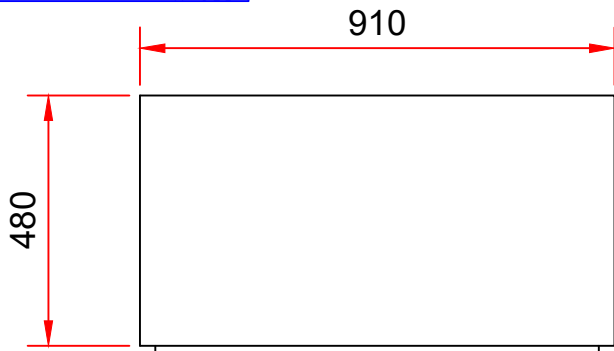
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D

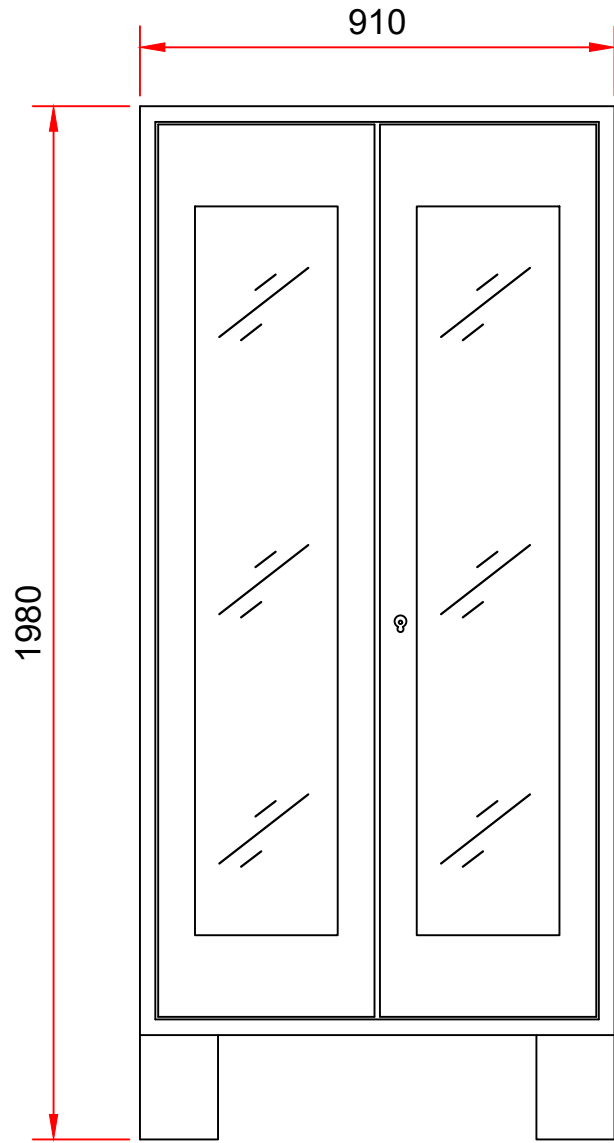
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F

G



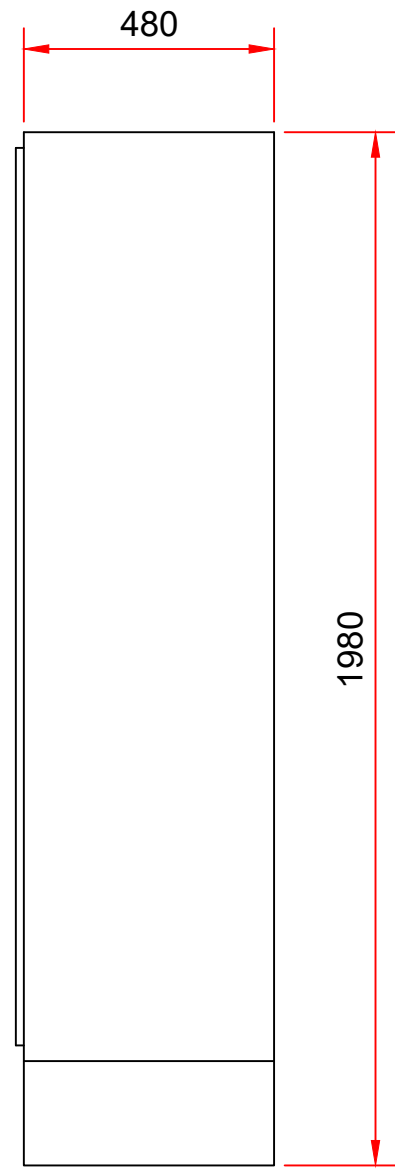
TOP VIEW



FRONT VIEW

DRAWING-VII

ALMIRAH



SIDE VIEW

NOTE :

1. MATERIAL : CRCA STEEL 18 GAUGE THICKNESS
2. ALMIRAH COLOR : LIGHT GREY TO SHADE RAL 7035 (SEMI GLOSSY)
3. IT SHOULD BE LOCKABLE WITH INDIVIDUAL KEY
4. GLASS DOORS
5. 3 WAY BOLTING ARRANGMENT WITH LOCK.

PRODUCT : MEL SINGARALI PH-II BOP OFFSITE PKGS (2x800MW)
CUSTOMER: MEL ADANI

BHARAT HEAVY ELECTRICALS LIMITED.
ELECTRONICS DIVISION, BANGALORE

OGA FOR ALMIRAH

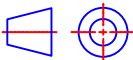
REV.	DATE	ALTERED CHECKED	REV.	DATE	ALTERED CHECKED	RB HN
		APPROVED	01	19.09.24	APPROVED	BNS

	NAME	SIGN	DATE
DRAWN	S.H.K		14.05.24
CHECKED	H.N		14.05.24
APPROVED	B.N.S		14.05.24



DEPT.
HMI

CODE
404



TITLE: OGA FOR ALMIRAH		No. OF SHEETS	11
		SHEET No.	09
WBS. No.	CE/2057-PR1-56-01	DRG. No.	EN-DG-2057-56-01
		REV	01

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REF. DRG. No.

SIGN. & DATE

INVENTORY No.

EN-DG-2057-56-01

DRG. No.

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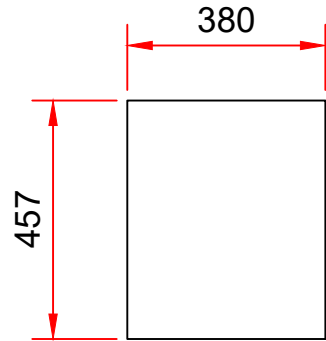
C

D

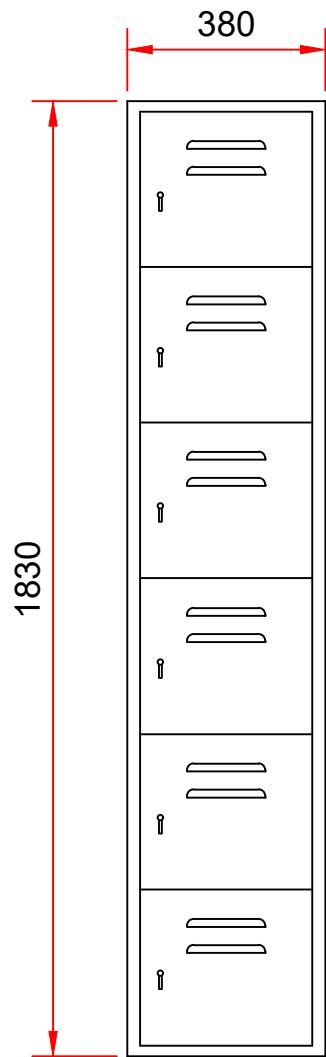
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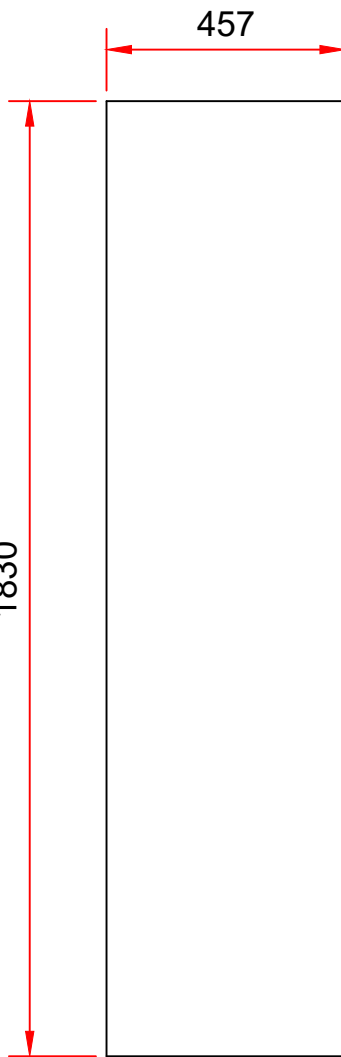
DRAWING-VIII
LOCKER SET



TOP VIEW



FRONT VIEW



SIDE VIEW

- 1.MATERIAL : CRCA STEEL
2. COLOR : ALUMINIUM GREY (RAL 9006)
- 3.LOCK REPUTED
- 4.OVER ALL DIMENSION
1830MM (H), 380MM (W), 457MM (D)

PRODUCT : MEL SINGARAULI PH-II BOP OFFSITE PKGS (2x800MW)
CUSTOMER: MEL ADANI

BHARAT HEAVY ELECTRICALS LIMITED.
ELECTRONICS DIVISION, BANGALORE

TITLE:		OGA FOR LOCKER SET	No. OF SHEETS	11
			SHEET No.	10
WBS. No.	CE/2057-PR1-56-01	DRG. No.	EN-DG-2057-56-01	
			REV	01

REV.	DATE	ALTERED	REV.	DATE	ALTERED	RB
		CHECKED	01	19.09.24	CHECKED	HN
		APPROVED			APPROVED	BNS

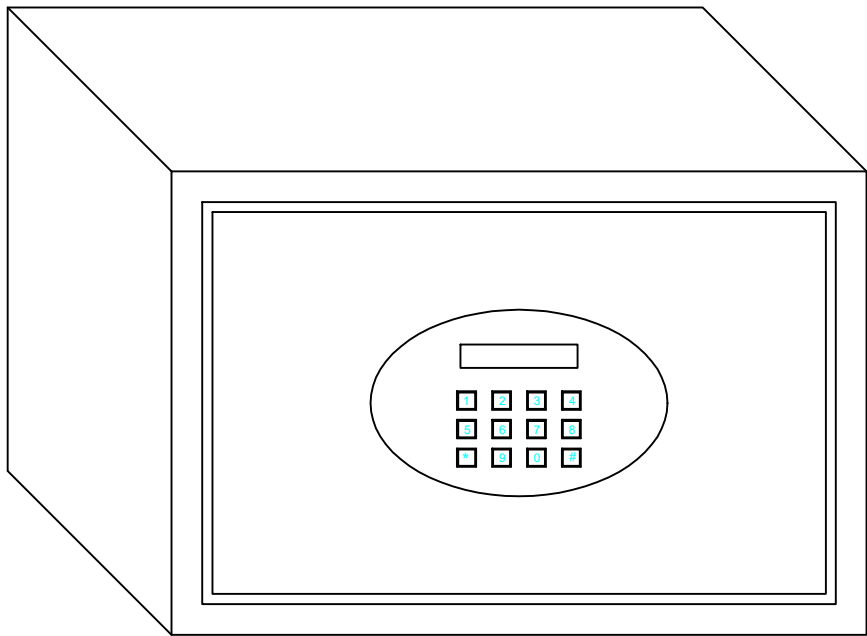
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DRAWN	S.H.K		14.05.24
CHECKED	H.N		14.05.24
APPROVED	B.N.S		14.05.24



DEPT. HMI	CODE 404

DRAWING-IX

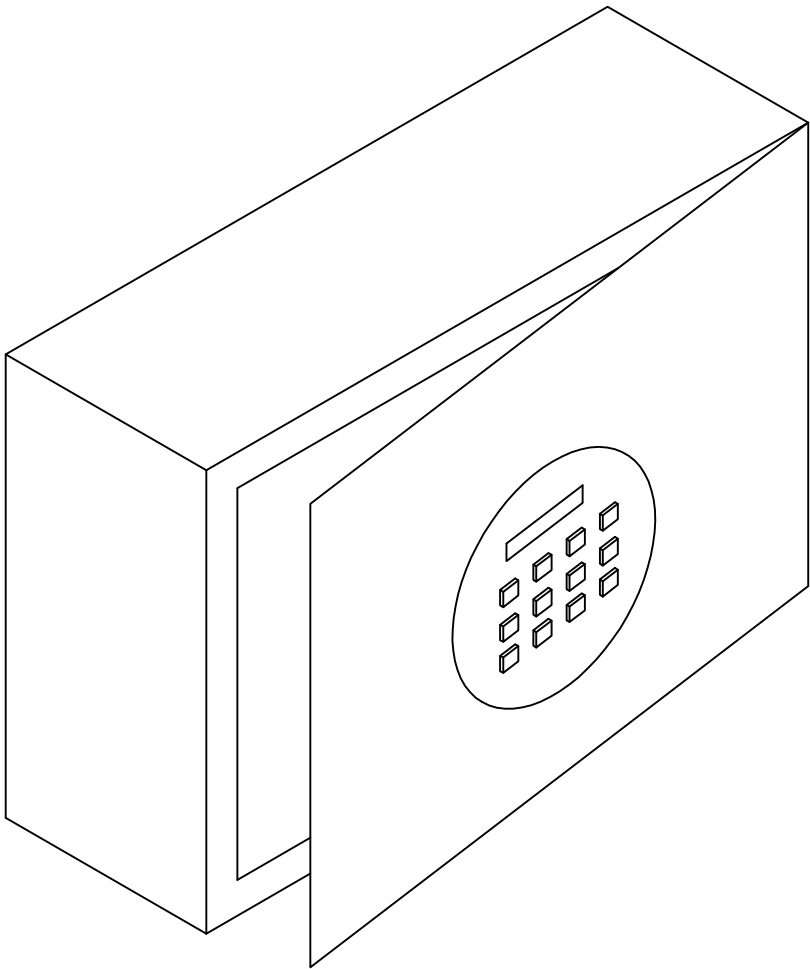
KEYPAD BOX



KEYPAD

- 1. Programmable master code of 6 digits.
- 2. User code can be set from 3-6 digits.
- 3. Keypad lock after 4 consecutive wrong codes.

Note: Drawing is indicative



Specification

Approximate External dimensions (mm) :
250 (H) X 350 (W) X 250 (D)

Net weight : 10 kg

PRODUCT : MEL SINGARAULI PH-II BOP OFFSITE PKGS (2x800MW)
CUSTOMER: MEL ADANI

BHARAT HEAVY ELECTRICALS LIMITED.
ELECTRONICS DIVISION, BANGALORE

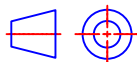
OGA OF KEYPAD BOX

REV.	DATE	ALTERED	RB	REV.	DATE	ALTERED	RB
		CHECKED	HN	01	19.09.24	CHECKED	HN
		APPROVED	BNS			APPROVED	BNS

DRAWN	S.H.K	14.05.24
CHECKED	H.N	14.05.24
APPROVED	B.N.S	14.05.24



DEPT. HMI
CODE 404



TITLE:

WBS. No.

CE/2057-PR1-56-01

DRG. No.

EN-DG-2057-56-01

REV

01

No. OF SHEETS

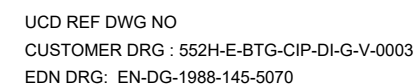
11

SHEET No.

11

DRG. NO.

CONTROL DESK OF 6 SECTIONS



UCD WILL BE PROVIDED LEFT SIDE CONTROL DESK FOR UNIT#3
UCD WILL BE PROVIDED RIGHT SIDE CONTROL DESK FOR UNIT#4



- NOTES :**
- 1) THE TOP SURFACE OF CONTROL DESK SHALL BE 30mm THICK WITH THE TOP 12mm OF ACRYLIC SOLID SURFACE (ASS) AND THE REMAINING 18mm OF LAMINATED MEDIUM DENSITY (MDF).
 - 2) COLOR OF TABLE TOP : AS PER APPROVAL.
 - 3) SEPARATE HORIZ. CABLE ROUTING WIRE BASKETS FOR POWER & DATA CABLES WILL BE PROVIDED DOUBLE COMPRESSION TYPE CABLE GLAND WILL BE PROVIDED
 - 4) POWER DISTRIBUTION SOCKETS (EACH USER STATIONS WILL BE PROVIDED WITH 2 No's SEPARATE PDB UNITS (1 FOR MAIN & 1 FOR UPS LINE) EACH PDB UNIT WILL HAVE 6 POINTS OF 5/15A SOCKETS WITH MCB & INDICATOR
 - 5) 18mm MDF FRONT & BACK MODESTY PANEL (OPENABLE WITH PUSH LOCKS)
 - 6) VENTILATION LOUVERS WILL BE PROVIDED WITH FAN ON BOTH FRONT & REAR MODESTY WITH AIR FILTERS
 - 7) CPU WILL BE MOUNTED ON CPU SLIDING TRAY
 - 8) NEOPRENE GASKETS SHALL BE PROVIDED FOR FRONT & BACK CONSOLE DOORS.
 - 9) HINGES FOR THE DOORS SHALL BE PROVIDED
 - 10) EARTHING STRIP WILL BE PROVIDED
 - 11) LED LAMP WILL BE PROVIDED FOR INTERNAL ILLUMINATION
 - 12) IP CLASS SHALL BE IP:20

CPU SIZE CONSIDERED: 450(H) X 319(W) X 170(D) IN mm

DIMENSIONS ARE INDICATIVE AND SUBJECT TO CHANGE BASED ON MODEL/SUPPLIER AVAILABILITY.

REV.	DATE	ALTERED	REV.	DATE	ALTERED	S.H.K		NAME	SIGN	DATE		
		CHECKED			CHECKED	A.S						
		APPROVED			APPROVED	B.N.S						
			01	04/04/25							DEPT. HMI CC 4C 	
			REVISED AS PER CUSTOMER COMMENTS				DRAWN	S.H.K		03.03.24		
							CHECKED	A.S		03.03.24		
							APPROVED	B.N.S		03.03.24		

PRODUCT : MEL SINGARAULI PH-II UNIT MAIN PKGS (2x800MW)
CUSTOMER: MEL ADANI

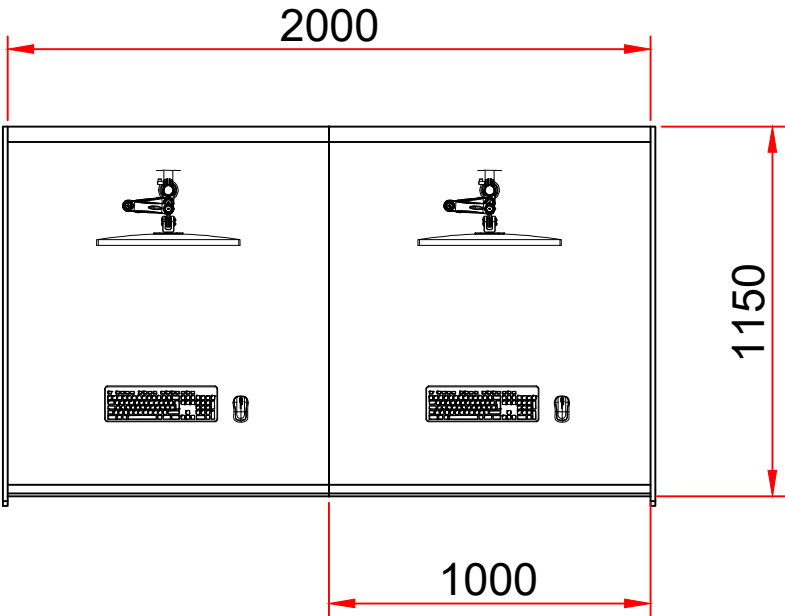
BHARAT HEAVY ELECTRICALS LIMITED.
ELECTRONICS DIVISION, BANGALORE

TITLE:			No. OF SHEETS	07
CONTROL DESK OF 6 SECTIONS (6 MTRS)			SHEET No.	04
			REV	01
WBS. No.	CE/2057-SH1-56-03	DRG. No.	3 659 44 05219	

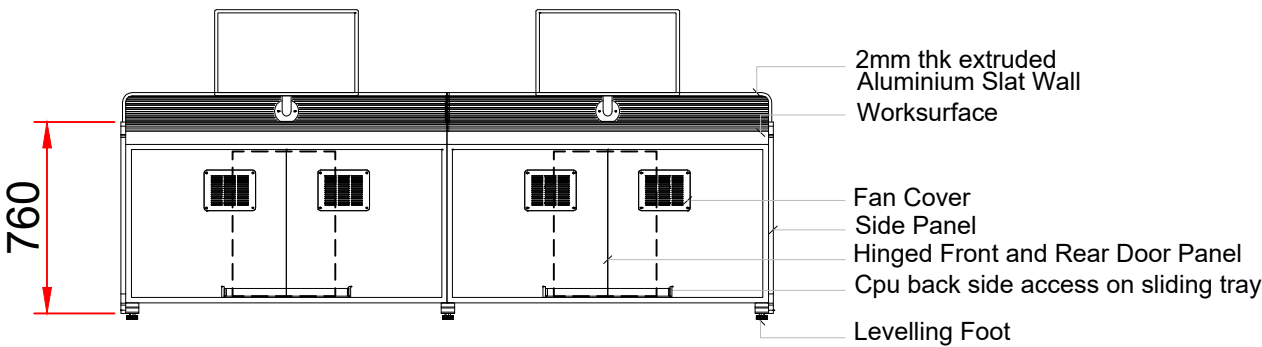
36594405369

DRAWING-XII

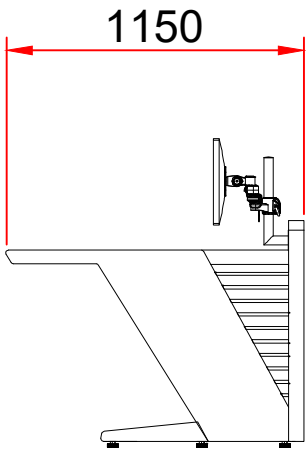
CONTROL DESK OF 2 SECTIONS



TOP VIEW



FRONT VIEW



SIDE VIEW

NOTES :

- 1) THE TOP SURFACE OF CONTROL DESK SHALL BE 30mm THICK WITH THE TOP 12mm OF ACRYLIC SOLID SURFACE (ASS) AND THE REMAINING 18mm OF LAMINATED MEDIUM DENSITY (MDF).
- 2) COLOR OF TABLE TOP : AS PER APPROVAL.
- 3) SEPARATE HORZ. CABLE ROUTING WIRE BASKETS FOR POWER & DATA CABLES WILL BE PROVIDED DOUBLE COMPRESSION TYPE CABLE GLAND WILL BE PROVIDED
- 4) POWER DISTRIBUTION SOCKETS (EACH USER STATIONS WILL BE PROVIDED WITH 2 No's SEPARATE PDB UNITS (1 FOR MAIN & 1 FOR UPS LINE) EACH PDB UNIT WILL HAVE 6 POINTS OF 5/15A SOCKETS WITH MCB & INDICATOR
- 5) 18mm MDF FRONT & BACK MODESTY PANEL (OPENABLE WITH PUSH LOCKS)
- 6) VENTILATION LOUVERS WILL BE PROVIDED WITH FAN ON BOTH FRONT & REAR MODESTY WITH AIR FILTERS
- 7) CPU WILL BE MOUNTED ON CPU SLIDING TRAY
- 8) NEOPRENE GASKETS SHALL BE PROVIDED FOR FRONT & BACK CONSOLE DOORS.
- 9) HINGES FOR THE DOORS SHALL BE PROVIDED
- 10) EARTHING STRIP WILL BE PROVIDED
- 11) LED LAMP WILL BE PROVIDED FOR INTERNAL ILLUMINATION
- 12) IP CLASS SHALL BE IP:20

CPU SIZE CONSIDERED: 450(H) X 319(W) X 170(D) IN mm
DIMENSIONS ARE INDICATIVE AND SUBJECT TO CHANGE BASED ON MODEL/SUPPLIER AVAILABILITY.

PRODUCT : MEL SINGARAU LI PH-II UNIT MAIN PKGS (2x800MW)
CUSTOMER: MEL ADANI

BHARAT HEAVY ELECTRICALS LIMITED.
ELECTRONICS DIVISION, BANGALORE

REV.	DATE	ALTERED	S.H.K	REV.	DATE	ALTERED	S.H.K		NAME	SIGN	DATE
02	18/04/25	CHECKED	A.S	01	04/04/25	CHECKED	A.S				
		APPROVED	B.N.S			APPROVED	B.N.S				

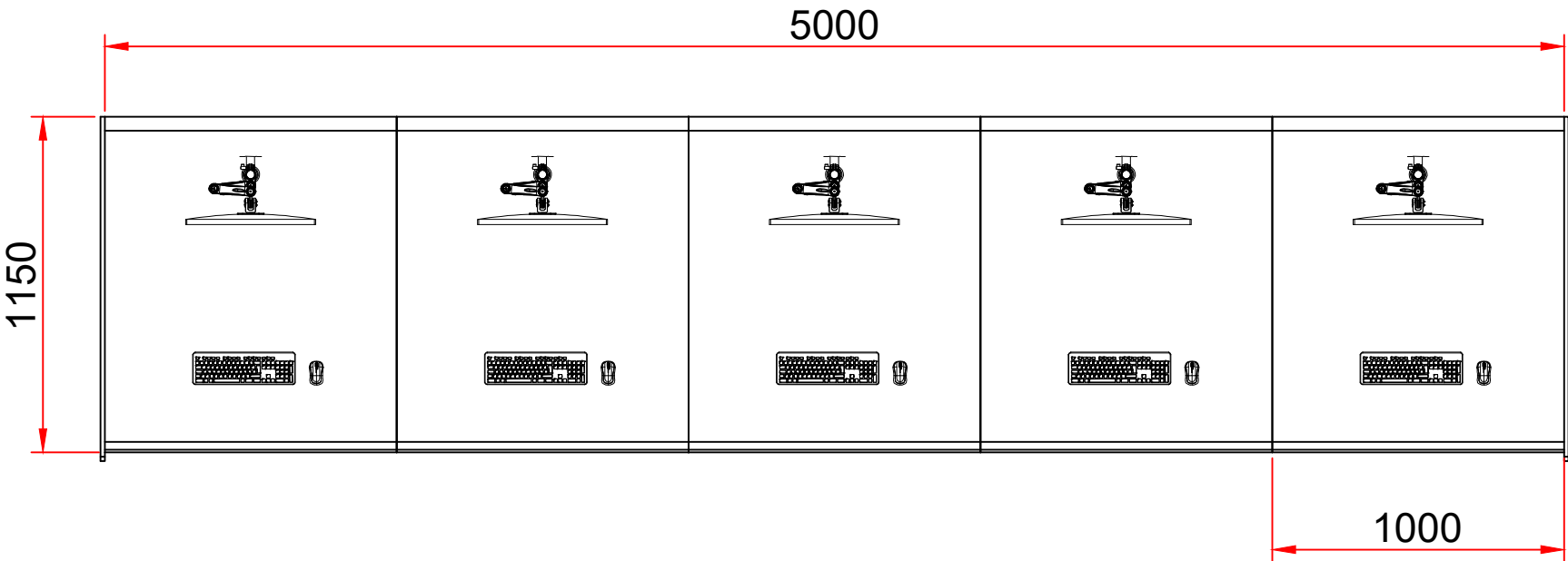
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CHECKED	A.S	03.03.24
APPROVED	B.N.S	03.03.24

DEPT. HMI		CODE 404		TITLE:	
CONTROL DESK OF 2 SECTIONS (2 MTRS)		No. OF SHEETS 12		SHEET No. 04	
WBS. No. CE/1988-SH3/4-56-01		DRG. No. 36594405369		REV 02	

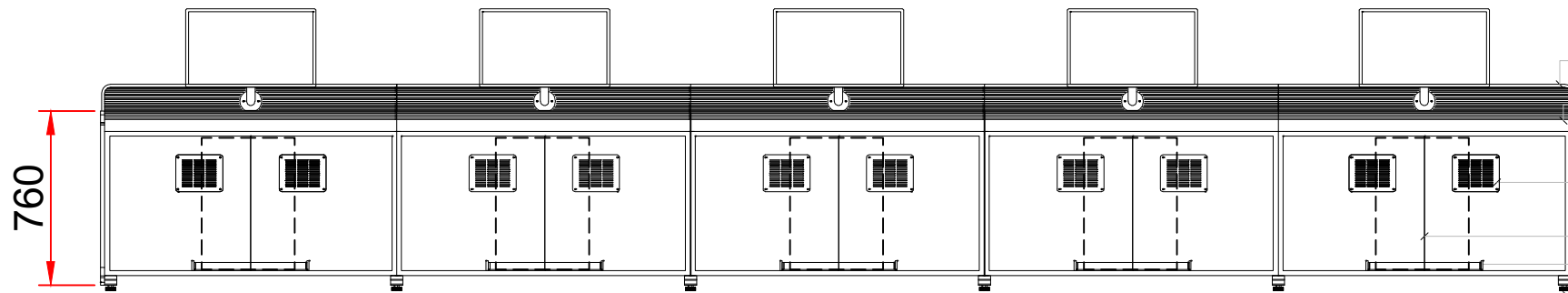
36594405369

DRAWING-XIII

CONTROL DESK OF 5 SECTIONS



TOP VIEW

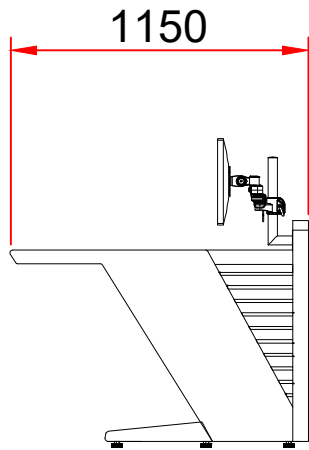


FRONT VIEW

NOTES :

- 1) THE TOP SURFACE OF CONTROL DESK SHALL BE 30mm THICK WITH THE TOP 12mm OF ACRYLIC SOLID SURFACE (ASS) AND THE REMAINING 18mm OF LAMINATED MEDIUM DENSITY (MDF).
- 2) COLOR OF TABLE TOP : AS PER APPROVAL.
- 3) SEPARATE HORZ. CABLE ROUTING WIRE BASKETS FOR POWER & DATA CABLES WILL BE PROVIDED DOUBLE COMPRESSION TYPE CABLE GLAND WILL BE PROVIDED
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- 7) CPU WILL BE MOUNTED ON CPU SLIDING TRAY
- 8) NEOPRENE GASKETS SHALL BE PROVIDED FOR FRONT & BACK CONSOLE DOORS.
- 9) HINGES FOR THE DOORS SHALL BE PROVIDED
- 10) EARTHING STRIP WILL BE PROVIDED
- 11) LED LAMP WILL BE PROVIDED FOR INTERNAL ILLUMINATION
- 12) IP CLASS SHALL BE IP:20

CPU SIZE CONSIDERED: 450(H) X 319(W) X 170(D) IN mm
DIMENSIONS ARE INDICATIVE AND SUBJECT TO CHANGE BASED ON MODEL/SUPPLIER AVAILABILITY.



SIDE VIEW

- 2mm thk extruded Aluminium Slat Wall
- Worksurface
- Fan Cover
- Side Panel
- Hinged Front and Rear Door Panel
- Cpu back side access on sliding tray
- Levelling Foot

PRODUCT : MEL SINGARALI PH-II UNIT MAIN PKGS (2x800MW)
CUSTOMER: MEL ADANI

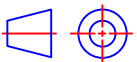
BHARAT HEAVY ELECTRICALS LIMITED.
ELECTRONICS DIVISION, BANGALORE

REV.	DATE	ALTERED	S.H.K	REV.	DATE	ALTERED	S.H.K		NAME	SIGN	DATE
02	18/04/25	CHECKED	A.S	01	04/04/25	CHECKED	A.S				
		APPROVED	B.N.S			APPROVED	B.N.S				
REVISED AS PER CUSTOMER COMMENTS				REVISED AS PER CUSTOMER COMMENTS				DRAWN	S.H.K		03.03.24
								CHECKED	A.S		03.03.24
								APPROVED	B.N.S		03.03.24



DEPT.
HMI

CODE
404



TITLE:		No. OF SHEETS		12
CONTROL DESK OF 5 SECTIONS (5 MTRS)		SHEET No.		06
WBS. No.	CE/1988-SH3/4-56-01	DRG. No.	36594405369	
		REV	02	

3 659 44 05219

DRG. No.

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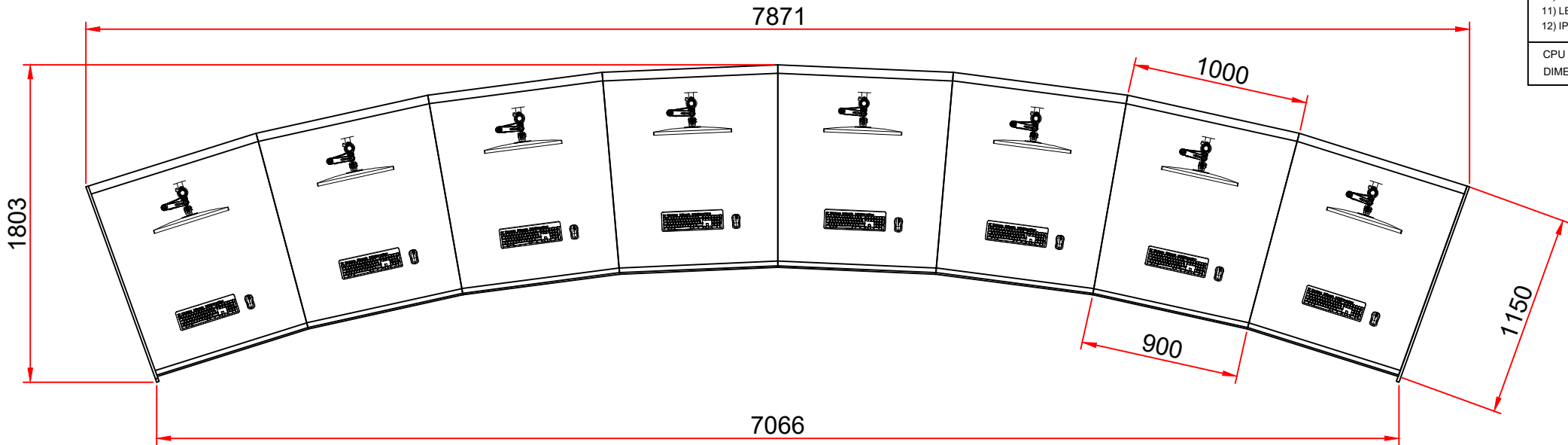
DRAWING-XIV

CONTROL DESK OF 8 SECTIONS

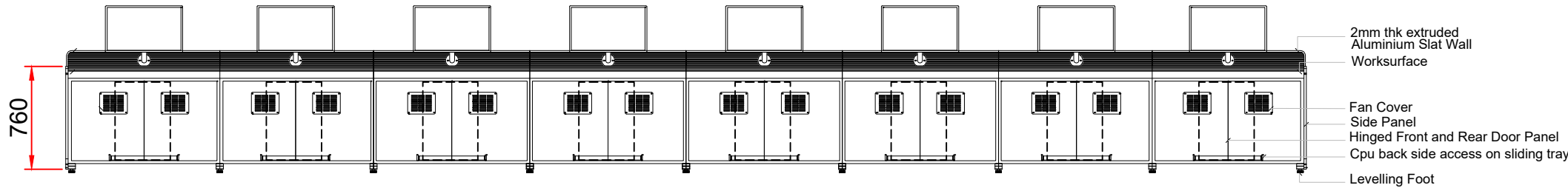
NOTES :

- 1) THE TOP SURFACE OF CONTROL DESK SHALL BE 30mm THICK WITH THE TOP 12mm OF ACRYLIC SOLID SURFACE (ASS) AND THE REMAINING 18mm OF LAMINATED MEDIUM DENSITY (MDF).
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- 11) LED LAMP WILL BE PROVIDED FOR INTERNAL ILLUMINATION
- 12) IP CLASS SHALL BE IP:20

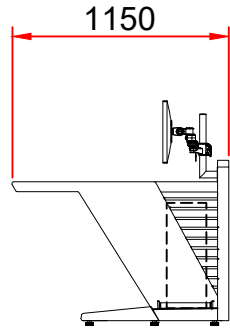
CPU SIZE CONSIDERED: 450(H) X 319(W) X 170(D) IN mm
DIMENSIONS ARE INDICATIVE AND SUBJECT TO CHANGE BASED ON MODEL/SUPPLIER AVAILABILITY.



TOP VIEW



FRONT VIEW



SIDE VIEW

PRODUCT : MEL SINGARAU LI PH-II UNIT MAIN PKGS (2x800MW)
CUSTOMER: MEL ADANI

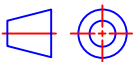
BHARAT HEAVY ELECTRICALS LIMITED.
ELECTRONICS DIVISION, BANGALORE

REV.	DATE	ALTERED	S.H.K	REV.	DATE	ALTERED	S.H.K		NAME	SIGN	DATE
02	18/04/25	CHECKED	A.S	01	04/04/25	CHECKED	A.S				
		APPROVED	B.N.S			APPROVED	B.N.S				
REVISED AS PER CUSTOMER COMMENTS				REVISED AS PER CUSTOMER COMMENTS				DRAWN	S.H.K		03.03.24
								CHECKED	A.S		03.03.24
								APPROVED	B.N.S		03.03.24



DEPT.
HMI

CODE
404



TITLE:		No. OF SHEETS		12
CONTROL DESK OF 6 SECTIONS (6 MTRS)		SHEET No.		08
WBS. No.	CE/2057-SH1-56-03	DRG. No.	3 659 44 05219	REV
				02

				PURCHASE SPECIFICATION FOR TABLE TOP CONSOLE MAHAN ULTRA SUPERCRITICAL TPS 2x800MW (SECTION-3)		PS4042951 (SECTION-3)	
		A4 – 11				REV. NO. 00	
						PAGE 01 OF 05	
COPY RIGHT AND CONFIDENTIAL THE INFORMATION ON THIS DOCUMENT IS THE PROPERTY OF BHARAT HEAVY ELECTRICALS LIMITED. IT MUST NOT BE USED DIRECTLY OR INDIRECTLY IN ANY WAY DETRIMENTAL TO THE INTEREST OF THE COMPANY. PURCHASE SPECIFICATIONS FOR TABLE-TOP CONSOLE ON OPERATOR DESK (MAIN PLANT) PROJECT : MAHAN ULTRA SUPERCRITICAL TPS 2x800MW CUSTOMER: M/s MEL LIMITED							
				CHECKED BY JANAK KUMAR		APPROVED BY	
				PREPARED SURESH B		MALA SIBOO	
				ISSUED 428 ENGG		DATE 07.04.2025	

		ଭାରତୀୟ  A4 – 10	PURCHASE SPECIFICATION FOR TABLE TOP CONSOLE MAHAN ULTRA SUPERCRITICAL TPS 2x800MW (SECTION-3)	PS4042951 (SECTION-3)
				REV. NO. 00
				PAGE 02 OF 05
SPECIFICATION OF TABLE TOP CONSOLES ON OPERATOR DESK (MAIN PLANT)				
1.0 CONSTRUCTION				
1.1 Scope includes supply & commissioning support of fully assembled, wired mosaic grid (24 mm x 24 mm) based console assembly for facilitating emergency operation of main plant. This console assembly to be flush mounted on the operator desk as per console desk drawing.				
1.2 The metallic mosaic grid and mosaic items to be mounted on the above consoles shall be in the scope of the supplier. These mosaic grids and items [other than what is specified under 'Notes' in the subsequent annexures], shall be from either of the following sources: i) TEW, Germany. ii) Pro-plan, Germany. The overall dimensions along with framework for the required mosaic grids shall be clearly brought out in the offer.				
1.3 The Layout drawings are subject to approval by customer. If the item/quantity shown is revised, or any additional items are added in the final approved drawing, the same to be taken care by the supplier. Console assembly to manufactured as per drawing EN-DG-1988-145-5070.				
1.4 An overall general specification of all items is given in Annexure 1A. However, these has to be taken in conjunction with the Drg No.: EN-DG-1988-145-5070.				
1.5 Necessary support arrangements as required for the consoles shall be provided by the supplier.				
1.6 Below the console, necessary arrangements shall be made for housing terminal blocks with 20% spares and such other components as may be required for complete wiring of the consoles.				
1.7 The control desk section enclosures shall have necessary door arrangements for accessing the components and terminal blocks and wires. Suitable lighting to be provided for accessing the above mentioned items in this clause.				
1.8 The control desk section will have removable gland plates made of 3.0 mm thick CRCA sheet. The gland plates shall be provided along with neoprene gasket. It should be fixed to the top flange of the bottom frame. The size of gland plates for each shipping section shall be suitably selected for easy handling.				

		बि. एच. ई. लि.  A4 – 10	PURCHASE SPECIFICATION FOR TABLE TOP CONSOLE MAHAN ULTRA SUPERCRITICAL TPS 2x800MW (SECTION-3)	PS4042951 (SECTION-3)
				REV. NO. 00
				PAGE 04 OF 05
COPY RIGHT AND CONFIDENTIAL THE INFORMATION ON THIS DOCUMENT IS THE PROPERTY OF BHARAT HEAVY ELECTRICALS LIMITED. IT MUST NOT BE USED DIRECTLY OR INDIRECTLY IN ANY WAY DETRIMENTAL TO THE INTEREST OF THE COMPANY.		1.18 In the event of P.O., the vendor is required to submit BOM with Console Layout drawings, Internal General Arrangement drawings for the internal arrangement of components & Electrical schematic drawing with wiring of all console items up to the terminal blocks and Quality plan. BOM to include the following: - All mosaic mounted items with make/part no., inside mounted item details, datasheets of mosaic mounted items. All the above documents are required to be submitted to BHEL within 10 days of award of contract. All documents are required to be submitted to customer for approval. 1.19 Supplier to provide assistance at site for - erection of the console desk sections. - any modification or alteration w.r.t addition/deletion/relocation of components and - any wiring to be done at site. 2.0 <u>GENERAL TECHNICAL REQUIREMENTS:</u> 2.1 Protection class shall be IP-40. 2.2 All the cable entries shall be from the bottom. 2.3 The console section shall be provided with a continuous bare copper ground bus. The ground bus shall be bolted to the panel structure on bottom on both sides. The bolts shall face inside of panels. All internal component grounds or common shall be connected to the system ground, which shall be fabricated of copper flat (size 25mm x 6mm min., length as applicable). 2.4 Terminal blocks shall be Rail mounted 650 V AC grade Terminal blocks (Screw less cage clamp type for push button, LED wirings and Clip-on TB 10 sqmm for rest connections) with markers and 20% spare wired terminals of each type. The terminal blocks shall be located to allow easy access.		

		 A4 – 10	PURCHASE SPECIFICATION FOR TABLE TOP CONSOLE MAHAN ULTRA SUPERCRITICAL TPS 2x800MW (SECTION-3)	PS4042951 (SECTION-3)
				REV. NO. 00
				PAGE 05 OF 05
COPY RIGHT AND CONFIDENTIAL THE INFORMATION ON THIS DOCUMENT IS THE PROPERTY OF BHARAT HEAVY ELECTRICALS LIMITED. IT MUST NOT BE USED DIRECTLY OR INDIRECTLY IN ANY WAY DETRIMENTAL TO THE INTEREST OF THE COMPANY.	2.5	Console section shall be provided with LED based illuminating lamps with door switch and six (6) point 5/15A, 240V AC universal type power sockets with switch for maintenance purposes. These switches shall be with quick make and break mechanism. 100 % spare LED lamps shall also be provided.		
	2.6	All fuses, if required shall be fast acting semiconductor types for AC/DC supply. All the AC power supplies shall be provided with the protection of Fast acting semi conductor fuses & 2 P thermo magnetic type MCBs with C characteristic. For all the DC power supply circuits, electronic type DC MCBs shall be used only. 50 % spare fuses shall be provided with each panel, these are in additional to mandatory spares.		
	2.7	Miniaturized push buttons shall be provided as actuating elements to meet the functional requirements for start/stop of Motor/pump, open/close of damper/valve/ electrical breakers, safe shut down of the unit.		
	2.8	While all efforts have been made to make the specification requirement complete & unambiguous, it shall be bidders' responsibility to ask for missing information, ensure completeness of specification, to bring out any contradictory/ conflicting requirement in different sections & sub -sections of the specification and within a section itself to the notice of BHEL and to seek any clarification on specification requirement during pre-bid clarification stage. In absence of any such clarifications, in case of any contradictory requirement, the more stringent requirement as per interpretation of BHEL / Customer shall prevail and shall be complied by the bidder without any commercial / delivery implication on account of the same.		
	2.9	Suppliers internal test certificates for dimensions, visual, paint, HV, IR, electrical functions etc. to be submitted to BHEL before giving inspection call.		
	2.10	Inspection by BHEL/Customer at the vendors works. Items will be directly dispatched to project site. Details shall be intimated at the time of PO		
	2.11	Modification if necessitated as per site requirement, to be done at no additional cost.		
	2.12	Any item/work either supply of equipment or erection material which have not been specifically mentioned in but are necessary to complete the woks for trouble free and efficient operation of the plant shall be deemed to be included within the scope of this specification and shall be in bidder's scope without any commercial, technical and delivery implication to BHEL.		



PS4042951
(SECTION-3)

REV. NO. 00

ANNEX-IV / Page 02 of 03

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Sr. No	DESCRIPTION [INSIDE MOUNTED ITEMS]	TOTAL QUANTITY
1.	Crimp contacts suitable for inserting into connectors for wiring	As required
2.	Cage clamp 8 level TBs with 2 input and 2 outputs with accessories	As required +20% spare
3.	Fuse TB with blown fuse indication along with Fuse Cartridges. To be provided for input power supply to each digital indicators.	As required +20% spare
4.	Door switches.	02
5.	LED Lamp.	01
6.	Fuse 4A with fuse base.	01
7.	HRC Link.	01
8.	Power socket 5/15A.	01
9.	Miniature Ckt. Breaker. 230/400 VAC, Double pole 6A.C-characteristic	01

NOTES:

1. Inscriptions on the mosaic tiles shall be provided as per final approved Layout drawing.
2. Internally mounted items and their quantities will be as per requirement in final approved layout.
3. Internally mounted items & their quantities are subjected to change, based on the final approved schematic diagram.
4. Total no. of connections will be approximately:
CWD01: 175 connections.



BTG & AUXILIARIES

	OWNER 2x800 MW ULTRA SUPER CRITICAL THERMAL POWER PROJECT, MAHAN (PHASE-II), SINGRAULI, M.P.
	OWNER'S ENGINEER TATA CONSULTING ENGINEERS LIMITED
LOGO	BTG CONTRACTOR BHEL
LOGO	SUB-CONTRACTOR / SUB-SUPPLIER XXXX

PLANT	2x800 MW MEL BANDHAURA USTPS PROJECT (BTG), PH- II
DOCUMENT TITLE	Layout & Schematic Drawing of Unit Control Desk
OWNER DOC. NO.	552H-E-BTG-CIP-DI-G-V-0003
CONTRACTOR / SUPPLIER DOC. NO.	EN-DG-1988-145-5070
PACKAGE DISCIPLINE	C&I
PREPARED BY	GP
REVIEWED BY	Suresh Bhaskaran
APPROVED BY	Janak Kumar

	Categories: ☐ Cat-I Approved. Good for Manufacturing/Construction/Fabrication. ☒ Cat-I* Approved with minor comments. No resubmission is required. To be incorporated in As-Built. Good for Manufacturing/ Construction/ Fabrication subject to incorporation of comments. ☐ Cat-II Resubmission is required. Approved & Released for Manufacturing/ fabrication/ construction subjected to incorporation of comments.
Reviewer	☐ Cat-III Not Approved. Revise & Resubmit for Approval ☐ Cat-IV For Information & Records. ☐ Cat-IV* Incorporate Comments & resubmit for Information & records.
Approver	Note: "Approval of this document does not absolve the Contractor/ Supplier/Fabricator from fulfilling Contractual obligations in any way"

TATA CONSULTING ENGINEERS LIMITED CONTRACTOR DOCUMENT REVIEW STATUS	
☐ 1 ☒ 1* ☐ 2 ☐ 3 ☐ 4 ☐ 4*	1 Approved, Further work can Proceed 1* Approved with minor comments. No resubmission is required. To be incorporated in As-Built. Good for Manufacturing/Construction / Fabrication subject to incorporation of comments. 2 Approved with comments. Work can proceed subject to incorporation of comments 3 Not Approved. Revise according to comments & resubmit 4 Retained for Information 4* Incorporate Comments & resubmit for Information & records
Approval conveyed herein neither relieves CONTRACTOR of his contractual obligations and his responsibilities for correctness of dimensions, materials of construction, weights, quantities, design details, assembly fits, system / performance requirements and conformity of supplies with National/ international statutory laws as may be applicable , nor does it limit the Employer's rights under the contract.	
Reviewed by: <u>MR</u>	Date: <u>03-02-2025</u>

	BTG & AUXILIARIES	OWNER: 552H-E-BTG-CIP-DI-G-V-0003
		CONTRACTOR: EN-DG-1988-145-5070
MAHAN ENERGEN LTD. (PHASE-II)	Layout & Schematic of UCD	Page 2 of 2
BHEL		

Revision Control History

Sr. No.	Revision No.	Date	Reasons for Change
1	0	18-01-2025	First issue

A

B

C

D

E

F

1

1

1

1

1

1

CUST. DRG No :- 552H-E-BTG-CIP-DI-G-V-0003

WBS No.	DRG. No.	REV.
	3 659 00 55300	00



DEPT.	CODI
FNCG	410

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REF. DRG. No.

SIGN. & DATE

INVENTORY No.

FIRST ANGLE PROJECTION

(ALL DIMENSIONS ARE IN mm)

00399 00 659 00 55300

DRG. No. 2 3 4 5 6 7 8

A

B

C

D

E

F

PAGE No.	TITLE	DATE	10.01.25						
01	TITLE PAGE	00	01	02	03	04	05	06	07
02	REVISION STATUS	00							
03	LEGEND	00							
04	SCHEMATIC DIAGRAM FOR UNIT CONTROL DESK (CWD01)	00							
05	-D0-	00							
06	-D0-	00							
07	-D0-	00							

PROJECT : 2X800MW ULTRA STPP MAHAN(PH-II), SINGARULI, MP
CUSTOMER: M/S MEL, PHASE-II

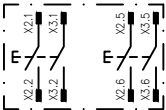
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						CHECKED	SB		10.01.25	
						APPROVED	JK		10.01.25	
								DEPT. ENGG	CODE 410	

BHARAT HEAVY ELECTRICALS LIMITED. ELECTRONICS DIVISION, BANGALORE		CARD CODE	
TITLE: SCHEMATIC DIAGRAM FOR UNIT CONTROL DESK (CWD01)		No. OF SHEETS	7
		SHEET No.	2
WBS No.		DRG. No.	3 659 00 55300
		REV	00

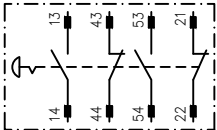
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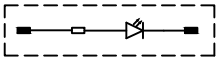
SPRING CAGE CLAMP TYPE TB



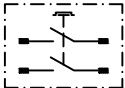
PUSH BUTTON MODULE



EMERGENCY PUSH BUTTON MODULE



LED MODULE

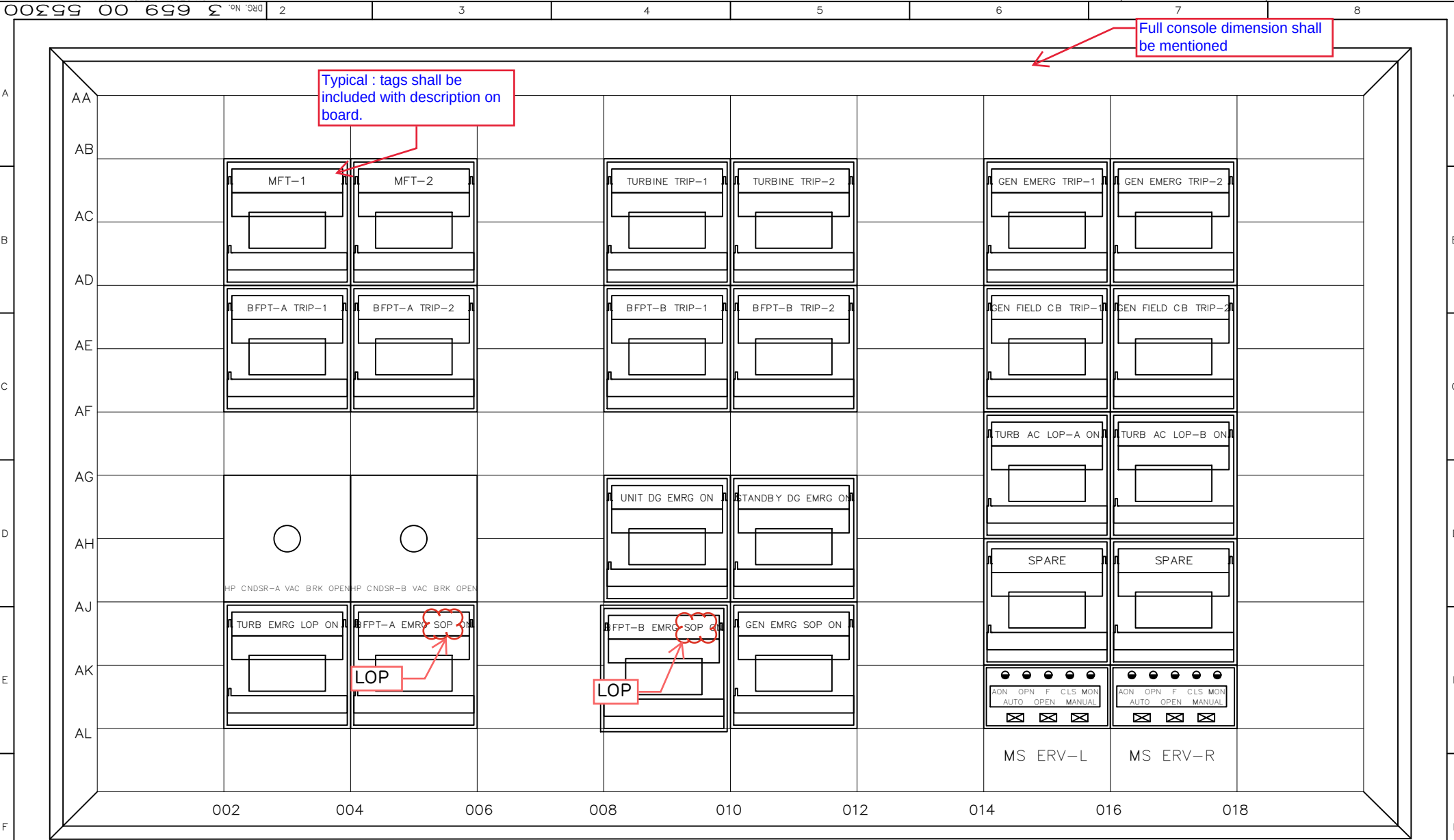


RECESSED PUSH BUTTON MODULE

PROJECT : 2X800MW ULTRA STPP MAHAN(PH-II), SINGARULI, MP
CUSTOMER: M/S MEL, PHASE-II

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		APPROVED			APPROVED						
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						CHECKED	SB		10.01.25		
						APPROVED	JK		10.01.25		

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WBS No.					DRG. No.	3 659 00 55300				REV	00

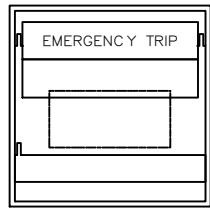


PROJECT : 2X800MW ULTRA STPP MAHAN(PH-II), SINGARULI, MP
CUSTOMER: M/S MEL, PHASE-II

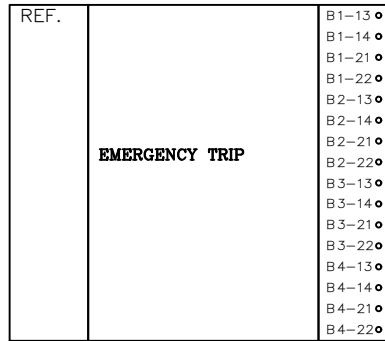
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		APPROVED			APPROVED							
						CHECKED	SB		10.01.25			
						APPROVED	JK		10.01.25			

BHARAT HEAVY ELEC TRICALS LIMITED. ELECTRONICS DIVISION, BANGALORE										CARD CODE	
TITLE: SCHEMATIC DIAGRAM FOR UNIT CONTROL DESK (CWD01)										No. OF SHEETS	7
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										REV	00

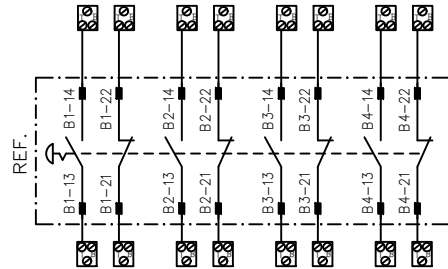
EMERGENCY OFF PB :-



SCHEMATIC BLOCK :



CIRCUIT SYMBOL :



EMERGENCY OFF PB

DEV. REF.	SERVICE DESC.	PIN NO.	TBB
AB002	MFT-1	B1-13 B1-14 B1-21 B1-22 B2-13 B2-14 B2-21 B2-22 B3-13 B3-14 B3-21 B3-22 B4-13 B4-14 B4-21 B4-22	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
AB004	MFT-2	B1-13 B1-14 B1-21 B1-22 B2-13 B2-14 B2-21 B2-22 B3-13 B3-14 B3-21 B3-22 B4-13 B4-14 B4-21 B4-22	17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32
AB008	TURBINE TRIP-1	B1-13 B1-14 B1-21 B1-22 B2-13 B2-14 B2-21 B2-22 B3-13 B3-14 B3-21 B3-22 B4-13 B4-14 B4-21 B4-22	33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48

EMERGENCY OFF PB

DEV. REF.	SERVICE DESC.	PIN NO.	TBB
AB010	TURBINE TRIP-2	B1-13 B1-14 B1-21 B1-22 B2-13 B2-14 B2-21 B2-22 B3-13 B3-14 B3-21 B3-22 B4-13 B4-14 B4-21 B4-22	49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64
AB014	GEN EMERG TRIP-1	B1-13 B1-14 B1-21 B1-22 B2-13 B2-14 B2-21 B2-22 B3-13 B3-14 B3-21 B3-22 B4-13 B4-14 B4-21 B4-22	65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80
AB016	GEN EMERG TRIP-2	B1-13 B1-14 B1-21 B1-22 B2-13 B2-14 B2-21 B2-22 B3-13 B3-14 B3-21 B3-22 B4-13 B4-14 B4-21 B4-22	81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96

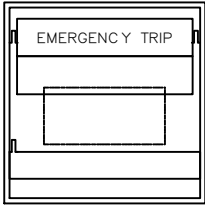
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		CHECKED			CHECKED						
		APPROVED			APPROVED						
						DRAWN	GP		09.01.25		
						CHECKED	SB		10.01.25		
						APPROVED	JK		10.01.25	DEPT. ENGG	CODE 410

PROJECT : 2X800MW ULTRA STPP MAHAN(PH-II), SINGARULI, MP
CUSTOMER: M/S MEL, PHASE-II

BHARAT HEAVY ELEC TRICALS LIMITED. ELECTRONICS DIVISION, BANGALORE										CARD CODE	
TITLE: SCHEMATIC DIAGRAM FOR UNIT CONTROL DESK (CWD01)										No. OF SHEETS	7
										SHEET No.	5
WBS No.										DRG. No.	REV 00

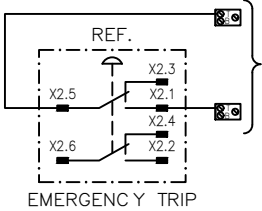
EMERGENCY OFF PB :-



SCHEMATIC BLOCK :

REF.	EMERGENCY TRIP	X2.5
		X2.1

CIRCUIT SYMBOL :



EMERGENCY OFF PB

DEV. REF.	SERVICE DESC.	PIN NO.	TBC
AD002	BFPT-A TRIP-1 EMERGENCY TRIP	X2.5 X2.1	1 2
AD004	BFPT-A TRIP-2 EMERGENCY TRIP	X2.5 X2.1	3 4
AD008	BFPT-B TRIP-1 EMERGENCY TRIP	X2.5 X2.1	5 6
AD010	BFPT-B TRIP-2 EMERGENCY TRIP	X2.5 X2.1	7 8
AD014	GEN FIELD CB TRIP-1 EMERGENCY TRIP	X2.5 X2.1	9 10
AD016	GEN FIELD CB TRIP-2 EMERGENCY TRIP	X2.5 X2.1	11 12
AF014	TURB AC LOP-A ON EMERGENCY TRIP	X2.5 X2.1	13 14
AF016	TURB AC LOP-B ON EMERGENCY TRIP	X2.5 X2.1	15 16
AG008	UNIT DG EMRG ON EMERGENCY TRIP	X2.5 X2.1	17 18
AG010	STANDBY DG EMRG ON EMERGENCY TRIP	X2.5 X2.1	19 20
AJ002	TURB EMRG LOP ON EMERGENCY TRIP	X2.5 X2.1	21 22
AJ004	BFPT-A EMRG SOP ON EMERGENCY TRIP	X2.5 X2.1	23 24

LOP

EMERGENCY OFF PB

DEV. REF.	SERVICE DESC.	PIN NO.	TBC
AJ008	BFPT-B EMRG SOP ON EMERGENCY TRIP	X2.5 X2.1	25 26
AJ010	GEN EMRG SOP ON EMERGENCY TRIP	X2.5 X2.1	27 28
AH014	(SPARE)	X2.5 X2.1	29 30
AH016	(SPARE)	X2.5 X2.1	31 32

NOTE: PIN NUMBER SHALL CHANGE ACCORDING TO THE ACTUAL MAKE.

REV.	DATE	ALTERED	REV.	DATE	ALTERED		NAME	SIGN	DATE	
		CHECKED			CHECKED					
		APPROVED			APPROVED					
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						CHECKED	SB		10.01.25	
						APPROVED	JK		10.01.25	
										DEPT. ENGG
										CODE 410

PROJECT : 2X800MW ULTRA STPP MAHAN(PH-II), SINGARULI, MP
CUSTOMER: M/S MEL, PHASE-II

BHARAT HEAVY ELEC TRICALS LIMITED.
ELECTRONICS DIVISION, BANGALORE

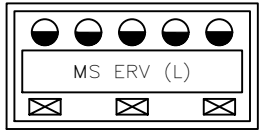
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UNIT CONTROL DESK (CWD01)

CARD CODE

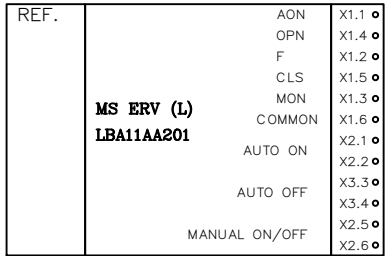
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SHEET No. 6

WBS No. 3 659 00 55300 REV 00

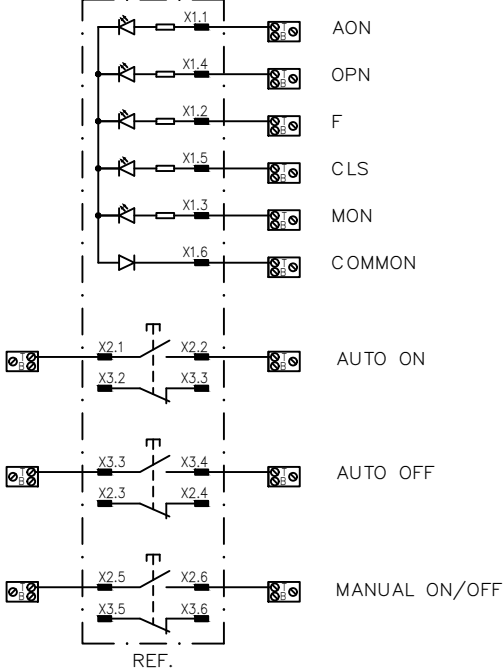
3PB+5LED MODULE :-



SCHEMATIC BLOCK :



CIRCUIT SYMBOL :



3PB 5LED

DEV. REF.	SERVICE DESC.	PIN NO.	TBC
AK014	MS ERV-L	AON X1.1	33
		OPN X1.4	34
		F X1.2	35
		CLS X1.5	36
		MON X1.3	37
		COMMON X1.6	38
		AUTO X2.1	39
		OPEN X2.2	40
		MANUAL X3.3	41
		MANUAL X3.4	42
AK016	MS ERV-R	COMMON X2.5	43
		MANUAL X2.6	44
		AON X1.1	45
		OPN X1.4	46
		F X1.2	47
		CLS X1.5	48
		MON X1.3	49
		COMMON X1.6	50
		AUTO X2.1	51
		OPEN X2.2	52
		MANUAL X3.3	53
		MANUAL X3.4	54
		MANUAL X2.5	55
		MANUAL X2.6	56

LEGEND: -

- RED COLOURED PUSH BUTTON
- DUSTY GREY COLOURED PUSH BUTTON
- GREEN COLOURED PUSH BUTTON
- GREEN COLOURED LED
- YELLOW COLOURED LED
- RED COLOURED LED

NOTE: PIN NUMBER SHALL CHANGE ACCORDING TO THE ACTUAL MAKE.

PROJECT : 2X800MW ULTRA STPP MAHAN(PH-II), SINGARULI, MP
CUSTOMER: M/S MEL, PHASE-II

BHARAT HEAVY ELEC TRICALS LIMITED.
ELECTRONICS DIVISION, BANGALORE

TITLE: SCHEMATIC DIAGRAM FOR
UNIT CONTROL DESK (CWD01)

CARD CODE

No. OF SHEETS

SHEET No.

REV

WBS No.

DRG. No.