

बिड दस्तावेज़ / Bid Document

बिड विवरण / Bid Details	
बिड बंद होने की तारीख/समय / Bid End Date/Time	03-10-2025 13:00:00
बिड खुलने की तारीख/समय / Bid Opening Date/Time	03-10-2025 13:30:00
बिड पेशकश वैधता (बंद होने की तारीख से) / Bid Offer Validity (From End Date)	180 (Days)
मंत्रालय/राज्य का नाम / Ministry/State Name	Ministry Of Defence
विभाग का नाम / Department Name	Department Of Defence Production
संगठन का नाम / Organisation Name	Mazagon Dock Shipbuilders Limited
कार्यालय का नाम / Office Name	*****
कुल मात्रा / Total Quantity	1
वस्तु श्रेणी / Item Category	LT Distribution Pannels
GeMARPTS में खोजी गई स्ट्रिंग्स / Searched Strings used in GeMARPTS	Survey of site, Design and Manufacture, Testing at manufacturers workshop, Packing & Forwarding, Unloading, dismantling of existing panels & switches, shifting of the new panels to the site, Installation, Testing and commissioning of separate 17 nos. Power Distribution Panels with MCCBs, inbuilt TPN DBs containing MCBs.
GeMARPTS में खोजा गया परिणाम / Searched Result generated in GeMARPTS	Category not available on GeM for the text string uploaded by the buyer
अधिसूचना के लिए चयनित प्रासंगिक श्रेणियाँ / Relevant Categories selected for notification	<ul style="list-style-type: none"> • LT Spacer • Power Distribution Box • Protected Power supply and Distribution system (PPDS)
वर्षों के अनुभव एवं टर्नओवर से एमएसई को छूट प्राप्त है / MSE Exemption for Years Of Experience and Turnover	Yes Complete
स्टार्टअप के लिए अनुभव के वर्षों और टर्नओवर से छूट प्रदान की गई है / Startup Exemption for Years Of Experience and Turnover	Yes Complete
विक्रेता से मांगे गए दस्तावेज़ / Document required from seller	<p>Experience Criteria, Certificate (Requested in ATC), OEM Authorization Certificate, Additional Doc 1 (Requested in ATC), Additional Doc 2 (Requested in ATC)</p> <p>*In case any bidder is seeking exemption from Experience / Turnover Criteria, the supporting documents to prove his eligibility for exemption must be uploaded for evaluation by the buyer</p>

बिड विवरण/Bid Details	
क्या आप निविदाकारों द्वारा अपलोड किए गए दस्तावेजों को निविदा में भाग लेने वाले सभी निविदाकारों को दिखाना चाहते हैं? संदर्भ मेनू है/Do you want to show documents uploaded by bidders to all bidders participated in bid?	Yes (Documents submitted as part of a clarification or representation during the tender/bid process will also be displayed to other participated bidders after log in)
बिड लगाने की समय सीमा स्वतः नहीं बढ़ाने के लिए आवश्यक बिड की संख्या। / Minimum number of bids required to disable automatic bid extension	2
दिनों की संख्या, जिनके लिए बिड लगाने की समय-सीमा बढ़ाई जाएगी। / Number of days for which Bid would be auto-extended	7
ऑटो एक्सटेंशन अधिकतम कितनी बार किया जाना है। / Number of Auto Extension count	2
बिड से रिवर्स नीलामी सक्रिय किया/Bid to RA enabled	No
क्रेता के लिए उपलब्ध आईटीसी/ITC available to buyer	Yes
बिड का प्रकार/Type of Bid	Two Packet Bid
तकनीकी मूल्यांकन के दौरान तकनीकी स्पष्टीकरण हेतु अनुमत समय /Time allowed for Technical Clarifications during technical evaluation	3 Days
निरीक्षण आवश्यक (सूचीबद्ध निरीक्षण प्राधिकरण /जेम के साथ पूर्व पंजीकृत एजेंसियों द्वारा)/Inspection Required (By Empanelled Inspection Authority / Agencies pre-registered with GeM)	No
Payment Timelines	Payments shall be made to the Seller within 15 days of issue of consignee receipt-cum-acceptance certificate (CRAC) and on-line submission of bills (This is in supersession of 10 days time as provided in clause 12 of GeM GTC)
मूल्यांकन पद्धति/Evaluation Method	Total value wise evaluation
मध्यस्थता खंड/Arbitration Clause	No
सुलह खंड/Mediation Clause	No

ईएमडी विवरण/EMD Detail

एडवाइजरी बैंक/Advisory Bank	State Bank of India
ईएमडी राशि/EMD Amount	700000

ईपीबीजी विवरण /ePBG Detail

एडवाइजरी बैंक/Advisory Bank	State Bank of India
ईपीबीजी प्रतिशत (%) / ePBG Percentage (%)	5.00
ईपीबीजी की आवश्यक अवधि (माह) / Duration of ePBG required (Months).	22

(a). जेम की शर्तों के अनुसार ईएमडी छूट के इच्छुक बिडर को संबंधित केटेगरी के लिए बिड के साथ वैध समर्थित दस्तावेज़ प्रस्तुत करने हैं। एमएसई केटेगरी के अंतर्गत केवल वस्तुओं के लिए विनिर्माता तथा सेवाओं के लिए सेवा प्रदाता ईएमडी से छूट के पात्र हैं। व्यापारियों को इस नीति के दायरे से बाहर रखा गया है।/EMD EXEMPTION: The bidder seeking EMD exemption, must submit the valid supporting document for the relevant category as per GeM GTC with the bid. Under MSE category, only manufacturers for goods and Service Providers for Services are eligible for exemption from EMD. Traders are excluded from the purview of this Policy.

(b). ईएमडी और संपादन जमानत राशि, जहां यह लागू होती है, लाभार्थी के पक्ष में होनी चाहिए। / EMD & Performance security should be in favour of Beneficiary, wherever it is applicable.

लाभार्थी /Beneficiary :

GM (M)

Mumbai, Department of Defence Production, Mazagon Dock Shipbuilders Limited, Ministry of Defence

(H.r.singh)

विभाजन/Splitting

बोली विभाजन लागू नहीं किया गया/ Bid splitting not applied.

एमआईआई खरीद वरीयता/MII Purchase Preference

एमआईआई खरीद वरीयता/MII Purchase Preference	Yes
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एमएसई खरीद वरीयता/MSE Purchase Preference

एमएसई खरीद वरीयता/MSE Purchase Preference	Yes
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1. If the bidder is a Micro or Small Enterprise as per latest orders issued by Ministry of MSME, the bidder shall be exempted from the eligibility criteria of "Experience Criteria" as defined above subject to meeting of quality and technical specifications. The bidder seeking exemption from Experience Criteria, shall upload the supporting documents to prove his eligibility for exemption.
2. If the bidder is a Micro or Small Enterprise (MSE) as per latest orders issued by Ministry of MSME, the bidder shall be exempted from the eligibility criteria of "Bidder Turnover" as defined above subject to meeting of quality and technical specifications. If the bidder itself is MSE OEM of the offered products, it would be exempted from the "OEM Average Turnover" criteria also subject to meeting of quality and technical specifications. The bidder seeking exemption from Turnover, shall upload the supporting documents to prove his eligibility for exemption.
3. If the bidder is a DPIIT registered Startup, the bidder shall be exempted from the the eligibility criteria of "Experience Criteria" as defined above subject to their meeting of quality and technical specifications. The bidder seeking exemption from Experience Criteria, shall upload the supporting documents to prove his eligibility for exemption.
4. If the bidder is a DPIIT registered Startup, the bidder shall be exempted from the the eligibility criteria of "Bidder Turnover" as defined above subject to their meeting of quality and technical specifications. If the bidder is DPIIT Registered OEM of the offered products, it would be exempted from the "OEM Average Turnover" criteria

also subject to meeting of quality and technical specifications. The bidder seeking exemption from Turnover shall upload the supporting documents to prove his eligibility for exemption.

5. Preference to Make In India products (For bids < 200 Crore): 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 minimum local content to qualify as a Class 1 local supplier is denoted in the bid document. 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. In case the bid value is more than Rs 10 Crore, the declaration relating to percentage of local content shall be certified by the statutory auditor or cost auditor, if the OEM is a company and by a practicing cost accountant or a chartered accountant for OEMs other than companies as per the Public Procurement (preference to Make-in -India) order 2017 dated 04.06.2020. Only Class-I and Class-II Local suppliers as per MII order dated 4.6.2020 will be eligible to bid. Non - Local suppliers as per MII order dated 04.06.2020 are not eligible to participate. However, eligible micro and small enterprises will be allowed to participate. The buyers are advised to refer the OM No.F.1/4/2021-PPD dated 18.05.2023.

[OM No.1 4 2021 PPD dated 18.05.2023](#) for compliance of Concurrent application of Public Procurement Policy for Micro and Small Enterprises Order, 2012 and Public Procurement (Preference to Make in India) Order, 2017.

6. Purchase preference will be given to MSEs having valid Udyam Registration and whose credentials are validated online through Udyam Registration portal 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 themselves of the Purchase preference, the bidder must be the manufacturer / OEM of the offered product on GeM. Traders are excluded from the purview of Public Procurement Policy for Micro and Small Enterprises and hence resellers offering products manufactured by some other OEM are not eligible for any purchase preference. In respect of bid for Services, the bidder must be the Service provider of the offered Service. Relevant documentary evidence in this regard shall be uploaded along with the bid in respect of the offered product or service and Buyer will decide eligibility for purchase preference based on documentary evidence submitted, while evaluating the bid. If L-1 is not an MSE and MSE Seller (s) has / have quoted price within L-1+ 15% (Selected by Buyer) of margin of purchase preference /price band defined in relevant policy, such MSE Seller shall be given opportunity to match L-1 price and contract will be awarded for 100% (selected by Buyer) percentage of total quantity. The buyers are advised to refer the OM No. F.1/4/2021-PPD dated 18.05.2023 [OM No.1 4 2021 PPD dated 18.05.2023](#) for compliance of Concurrent application of Public Procurement Policy for Micro and Small Enterprises Order, 2012 and Public Procurement (Preference to Make in India) Order, 2017. Benefits of MSE will be allowed only if seller is validated on-line in GeM profile as well as validated and approved by Buyer after evaluation of documents submitted.

If the buyer has mentioned MSE purchase preference in ATC then service provider is required to upload necessary documents for MSE purchase preference for verification by the buyer during evaluation.

LT Distribution Pannels (1 set)

(क्रमशः श्रेणी 1 और श्रेणी 2 के स्थानीय आपूर्तिकर्ता के रूप में अर्हता प्राप्त करने के लिए आवश्यक/Minimum 50% and 20% Local Content required for qualifying as Class 1 and Class 2 Local Supplier respectively)

तकनीकी विशिष्टियाँ /Technical Specifications

क्रैता विशिष्टि दस्तावेज़ /Buyer Specification Document	Download
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इनपुट कर क्रेडिट(आईटीसी) तथा रिवर्स प्रभार (आरसीएम)/Input Tax Credit(ITC) and Reverse Charge(RCM) Details

जीएसटी पर इनपुट कर क्रेडिट /ITC on GST	जीएसटी उपकर कर क्रेडिट /ITC on GST Cess
100%	100%

परेषिती/रिपोर्टिंग अधिकारी तथा मात्रा/Consignees/Reporting Officer and Quantity

क्र.सं./S.N o.	परेषिती/रिपोर्टिंग अधिकारी /Consignee Reporting/Officer	पता/Address	मात्रा /Quantity	डिलीवरी के दिन/Delivery Days
1	*****	*****Mumbai	1	240

Buyer added Bid Specific Additional Scope of Work

क्र.सं./S.N o.	Document Title	Description	रिवर्स प्रभार के अनुसार जीएसटी/Applicable i.r.o. Items
1	SOW View	Scope Of Work	LT Distribution Pannels(1)

The uploaded document only contains Buyer specific Additional Scope of Work and / or Drawings for the bid items added with due approval of Buyer's competent authority. Buyer has certified that these additional scope and drawings are generalized and would not lead to any restrictive bidding.

क्रेता द्वारा जोड़ी गई बिड की विशेष शर्तें/Buyer Added Bid Specific Terms and Conditions**1. Generic**

Actual delivery (and Installation & Commissioning (if covered in scope of supply)) is to be done at following address

SB- Maintenance
Mazagon Dock Shipbuilders Limited
Dockyard Road,
Mazagaon, Mumbai
400 010
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2. Generic

Bidders are advised to check applicable GST on their own before quoting. Buyer will not take any responsibility in this regards. GST reimbursement will be as per actuals or as per applicable rates (whichever is lower), subject to the maximum of quoted GST %.

3. Generic

Bidder shall submit the following documents along with their bid for Vendor Code Creation:

- Copy of PAN Card.
- Copy of GSTIN.
- Copy of Cancelled Cheque.
- Copy of EFT Mandate duly certified by Bank.

4. Generic

Installation, Commissioning, Testing, Configuration, Training (if any - which ever is applicable as per scope of supply) is to be carried out by OEM / OEM Certified resource or OEM authorised Reseller.

5. **Generic**

Supplier shall ensure that the Invoice is raised in the name of Consignee with GSTIN of Consignee only.

6. **Generic**

OPTION CLAUSE: The Purchaser reserves the right to increase or decrease the quantity to be ordered up to 50 percent of bid quantity at the time of placement of contract. The purchaser also reserves the right to increase the ordered quantity up to 50% of the contracted quantity during the currency of the contract at the contracted rates. The delivery period of quantity shall commence from the last date of original delivery order and in cases where option clause is exercised during the extended delivery period the additional time shall commence from the last date of extended delivery period. The additional delivery time shall be $(\text{Increased quantity} \div \text{Original quantity}) \times \text{Original delivery period (in days)}$, subject to minimum of 30 days. If the original delivery period is less than 30 days, the additional time equals the original delivery period. The Purchaser may extend this calculated delivery duration up to the original delivery period while exercising the option clause. Bidders must comply with these terms.

7. **Inspection**

Nominated Inspection Agency: On behalf of the Buyer organization, any one of the following Inspection Agency would be conducting inspection of stores before acceptance:
Pre-dispatch Inspection at Seller Premises (applicable only if pre-dispatch inspection clause has been selected in ATC):

SB-MAINTENANCE

Post Receipt Inspection at consignee site before acceptance of stores:
SB-MAINTENANCE

8. **Certificates**

Bidder's offer is liable to be rejected if they don't upload any of the certificates / documents sought in the Bid document, ATC and Corrigendum if any.

9. **Warranty**

Warranty period of the supplied products shall be 1 years from the date of final acceptance of goods or after completion of installation, commissioning & testing of goods (if included in the scope of supply), at consignee location. OEM Warranty certificates must be submitted by Successful Bidder at the time of delivery of Goods. The seller should guarantee the rectification of goods in case of any break down during the guarantee period. Seller should have well established Installation, Commissioning, Training, Troubleshooting and Maintenance Service group in INDIA for attending the after sales service. Details of Service Centres near consignee destinations are to be uploaded along with the bid.

10. **Forms of EMD and PBG**

Bidders can also submit the EMD with Payment online through RTGS / internet banking in Beneficiary name

Mazagon Dock Shipbuilders Limited
Account No.
10005255246
IFSC Code
SBIN0009054
Bank Name
State Bank of India
Branch address
Mazagaon Dock Branch, opp. Nirman Bhavan, Mazagaon

Bidder to indicate bid number and name of bidding entity in the transaction details field at the time of on-line transfer. Bidder has to upload scanned copy / proof of the Online Payment Transfer along with bid.

11. **Forms of EMD and PBG**

Successful Bidder can submit the Performance Security in the form of Payment online through RTGS / internet banking also (besides PBG which is allowed as per GeM GTC). On-line payment shall be in Beneficiary name

Mazagon Dock Shipbuilders Limited

Account No.

10005255246

IFSC Code

SBIN0009054

Bank Name

State Bank of India

Branch address

Mazagaon Dock Branch, opp. Nirman Bhavan, Mazagaon

. Successful Bidder to indicate Contract number and name of Seller entity in the transaction details field at the time of on-line transfer. Bidder has to upload scanned copy / proof of the Online Payment Transfer in place of PBG within 15 days of award of contract.

12. **Generic**

Buyer Organization specific Integrity Pact shall have to be complied by all bidders. Bidders shall have to upload scanned copy of signed integrity pact as per Buyer organizations policy along with bid. [Click here to view the file](#)

13. **Generic**

Bidders shall quote only those products (Part of Service delivery) in the bid which are not obsolete in the market and has at least 2 years residual market life i.e. the offered product shall not be declared end-of-life by the OEM before this period.

14. **Generic**

Manufacturer Authorization:Wherever Authorised Distributors/service providers are submitting the bid, Authorisation Form /Certificate with OEM/Original Service Provider details such as name, designation, address, e-mail Id and Phone No. required to be furnished along with the bid

15. **Inspection**

Pre-dispatch inspection at Seller premises (Fee/Charges to be borne by the BUYER):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 specifications. Fee/Charges taken by the External inspection Agency and any external laboratories testing charges shall be borne by the Buyer. For in-house testing, the Sellers will provide necessary facilities free of cost. Seller shall notify the Buyer through e-mail about readiness of goods for pre-dispatch inspection and Buyer will notify the Seller about the Authorized Representative/ Nominated External Inspection Agency and the date for testing. The goods would be dispatched to consignee only after clearance in pre-dispatch inspection. Consignee's right of rejection as per GTC in respect of the goods finally received at his location shall in no way be limited or waived by reason of the goods having previously been inspected, tested and passed by Buyer/ Consignee or its Nominated External Inspection Agency prior to the goods' shipment. While bidding, the sellers should take into account 7 days for inspection from the date of email offering the goods for inspection. Any delay in inspection beyond 7 days shall be on the part of the buyer and shall be regularised without Liquidated Damages.

When there is requirement of submission the advance sample, the seller shall inform the buyer promptly through emails about the date of submission of sample to the buyer nominated Inspection agency.

16. **Buyer Added Bid Specific ATC**

Buyer uploaded ATC document [Click here to view the file](#).

17. **Buyer Added Bid Specific ATC**

Buyer Added text based ATC clauses

A. Technical Prequalification Criteria:

- i. Bidders shall submit at least one Purchase order copy and its work completion certificate for successful supply, installation, testing and commission of LT distribution Panel with MCCB/ACB of 440V or higher ratings during last three years from the tender closing date.
- ii. The bidder shall be an OEM of the offered LT panel or bidder shall have valid Authorisation Certificate from OEM's of offered LT distribution panels.
- iii. The bidder shall submit "BIDDER DECLARATION FOR SITE VISIT" as mentioned in SOW para 17, site visit before tender closing date is mandatory.

Vendor to furnish complete documentary evidences in support of above qualification and experience criteria as mentioned at 1(a), 1(b) & 1(c) above. Offers from vendors not complying with above requirements and not submitting requisite documents are liable for rejection.

B. Commercial Prequalification Criteria:

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- i. The average annual financial turnover of 'The bidder' during the last three years, ending 31st March of the previous financial year excluding the calendar year of tendering should be at **Rs .1,05,00,000/-** (Rupees One Crore Five Lakhs only) as per the annual report (audited balance sheet and profit and loss account) of the relevant period, duly authenticated by a Chartered Accountant/Cost Accountant in India. The bidder shall submit last Three years audited balance sheet & Profit & Loss account statements.
- ii. Bidders Shop and establishment registration certificate or registration certificate from registrar of firms or certificate of incorporation from Registrar of Companies or any other valid document that confirms the firm's status. (Not required for permanent registered vendors with MDL).

Note:

(a) Start-ups shall be given 100% relaxation in prior turnover and prior experience subject to meeting of quality and technical specification and bidder shall submit the valid Start-up certificate as recognized by Department of Industrial policy and Promotion (DIPP).

(b) MSEs shall be given 100% relaxation in prior turnover and prior experience subject to meeting of quality and technical specification and bidder shall submit the valid MSE Udyam certificate.

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अस्वीकरण/Disclaimer

The additional terms and conditions have been incorporated by the Buyer after approval of the Competent Authority in Buyer Organization, whereby Buyer organization is solely responsible for the impact of these clauses on the bidding process, its outcome, and consequences thereof including any eccentricity / restriction arising in the bidding process due to these ATCs and due to modification of technical specifications and / or terms and conditions governing the bid. If any clause(s) is / are incorporated by the Buyer regarding following, the bid and resultant contracts shall be treated as null and void and such bids may be cancelled by GeM at any stage of bidding process without any notice:-

1. Definition of Class I and Class II suppliers in the bid not in line with the extant Order / Office Memorandum issued by DPIIT in this regard.
2. Seeking EMD submission from bidder(s), including via Additional Terms & Conditions, in contravention to exemption provided to such sellers under GeM GTC.
3. Publishing Custom / BOQ bids for items for which regular GeM categories are available without any Category item bunched with it.
4. Creating BoQ bid for single item.
5. Mentioning specific Brand or Make or Model or Manufacturer or Dealer name.
6. Mandating submission of documents in physical form as a pre-requisite to qualify bidders.

7. Floating / creation of work contracts as Custom Bids in Services.
8. Seeking sample with bid or approval of samples during bid evaluation process. (However, in bids for [attached categories](#), trials are allowed as per approved procurement policy of the buyer nodal Ministries)
9. Mandating foreign / international certifications even in case of existence of Indian Standards without specifying equivalent Indian Certification / standards.
10. Seeking experience from specific organization / department / institute only or from foreign / export experience.
11. Creating bid for items from irrelevant categories.
12. Incorporating any clause against the MSME policy and Preference to Make in India Policy.
13. Reference of conditions published on any external site or reference to external documents/clauses.
14. Asking for any Tender fee / Bid Participation fee / Auction fee in case of Bids / Forward Auction, as the case may be.
15. Buyer added ATC Clauses which are in contravention of clauses defined by buyer in system generated bid template as indicated above in the Bid Details section, EMD Detail, ePBG Detail and MII and MSE Purchase Preference sections of the bid, unless otherwise allowed by GeM GTC.
16. In a category based bid, adding additional items, through buyer added additional scope of work/ additional terms and conditions/or any other document. If buyer needs more items along with the main item, the same must be added through bunching category based items or by bunching custom catalogs or bunching a BoQ with the main category based item, the same must not be done through ATC or Scope of Work.

Further, if any seller has any objection/grievance against these additional clauses or otherwise on any aspect of this bid, they can raise their representation against the same by using the Representation window provided in the bid details field in Seller dashboard after logging in as a seller within 4 days of bid publication on GeM. Buyer is duty bound to reply to all such representations and would not be allowed to open bids if he fails to reply to such representations.

All GeM Sellers / Service Providers are mandated to ensure compliance with all the applicable laws / acts / rules including but not limited to all Labour Laws such as The Minimum Wages Act, 1948, The Payment of Wages Act, 1936, The Payment of Bonus Act, 1965, The Equal Remuneration Act, 1976, The Payment of Gratuity Act, 1972 etc. Any non-compliance will be treated as breach of contract and Buyer may take suitable actions as per GeM Contract.

[यह बिड सामान्य शर्तों के अंतर्गत भी शासित है /This Bid is also governed by the General Terms and Conditions](#)

जेम की सामान्य शर्तों के खंड 26 के संदर्भ में भारत के साथ भूमि सीमा साझा करने वाले देश के बिडर से खरीद पर प्रतिबंध के संबंध में भारत के साथ भूमि सीमा साझा करने वाले देश का कोई भी बिडर इस निविदा में बिड देने के लिए तभी पात्र होगा जब वह बिड देने वाला सक्षम प्राधिकारी के पास पंजीकृत हो। बिड में भाग लेते समय बिडर को इसका अनुपालन करना होगा और कोई भी गलत घोषणा किए जाने व इसका अनुपालन न करने पर अनुबंध को तत्काल समाप्त करने और कानून के अनुसार आगे की कानूनी कार्यवाई का आधार होगा।/In terms of GeM GTC clause 26 regarding Restrictions on procurement from a bidder of a country which shares a land border with India, 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. While participating in bid, Bidder has to undertake compliance of this and any false declaration and non-compliance of this would be a ground for immediate termination of the contract and further legal action in accordance with the laws.

---धन्यवाद/Thank You---



MAZAGON DOCK SHIPBUILDERS LIMITED, MUMBAI

ADDITIONAL TERMS & CONDITIONS (ATC)

Procurement of LT Distribution Panels- 17 Nos.

- 1. Integrity Pact (IP):** The Integrity pact essentially envisages the agreement between prospective vendors / bidders & buyers committing the person/officials of both the parties not to exercise any corrupt influence on any aspects of the contract. Only those vendors/bidders who enter into such an integrity pact with the buyer would be competent to participate in the bid. The format of integrity Pact is enclosed with tender documents. IP shall be submitted on plain paper.

The 'Integrity pact' dully filled as per enclosed format to be submitted along with the offer. Bidders to ensure that each page of Integrity pact shall be duly signed by the bidder. In case of non-acceptance and non-submission of Integrity Pact by the bidders, duly signed on each page, with Part-I of the bid, shall render the bid liable for rejection. The original IP shall reach MDL within 14 days from Tender Opening date at below address;

General Manager (Material)

Material Purchase, 2nd Floor, South Block-II,
Mazagon Dock Shipbuilders Ltd,
Dockyard Road, Mumbai - 400010

- 2. EMD Exemption:** EMD shall be submitted as mentioned in the GeM bid and as per GeM Terms & Condition. EMD exemption is as per GeM conditions, bidders shall submit valid EMD/EMD exemption certificate at the time of bidding. In case valid exemption certificate is not submitted along with the bid then bid will be rejected. In addition to that EMD is exempted for following,
- Firms registered with MDL. To qualify for EMD exemption, firms should necessarily submit valid copy of the Registration Certificate issued by MDL, for the items for which the offer is being submitted. Firms in the process of obtaining MDL registration will not be considered for EMD exemption.
 - Common/Deemed DPSU registered vendors qualify for EMD exemption. Such firms shall submit valid copy of the registration certificate issued by DPSUs (other than MDL) for the items /services for which the offer is being submitted in Part-I offer/bid. Firms in process of obtaining registration in other DPSUs will not be considered for EMD exemption.
 - Green Channel Status vendors qualify for EMD exemption. Such firms shall submit valid copy of the Green channel certificate issued by MoD for the items for which the offer is being submitted in Part-I offer/bid. Firms in process of obtaining this certificate will not be considered for EMD exemption.

Note:

- Firm not having valid certificate or certificate in process or other than above category of EMD exemption (including EMD exemption as per GeM conditions) has to submit EMD otherwise their offer will be rejected.
- For EMD exemption under MSE category, bidders who are holding valid Udyam registration and are manufacturer of the offered product are eligible. Hence MSE bidders who seek EMD exemption, are required to furnish declaration of being manufacturer of offered product in the format given at Enclosure-6 of this document.

3. Mandatory Site Visit

- The Bidder is advised to visit and examine the installation site and its surroundings and obtain for itself on its own responsibility all information that may be necessary for preparing the Bid. The costs of visiting the site shall be borne by the Bidder.
- The Bidder representative shall be allowed entry upon consignee premises for such visits, only upon the express conditions that the Bidder will release and indemnify the Buyer and Consignee against all liabilities arising out of such visit including death or injury, loss or damage to property, and any other loss, damage, costs, and expenses incurred as a result of such visit.
- The Bidder shall not be entitled to hold any claim against Buyer for noncompliance due to lack of any kind of pre-requisite information as it is the sole responsibility of the Bidder to obtain all the necessary information with regard to site, surrounding, working conditions, weather etc. on its own before submission of the bid.

Bidder has to submit site declaration form undersigned by user dept. at the time of bidding. Kindly contact Mr. Ashish Kumar Yadav AM (SB-MTC) – +91 22 2376 3122 / 9833870098 (ashishkyadav@mazdock.com) for site visit.



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4. Compliance Statement for Scope of Work(SOW):

Bidder should fill the format of **Technical Offer Details** and the **bidder declaration for site visit** & submit along with acceptance of detailed Scope of Work/ Technical Specification as attached in SOW of bid document.

5. WARRANTY/GUARANTEE: Refer Scope of work Sr. No.-9

The items/equipment including entire setup shall be under warranty for 1 years. Any defective part will be repair/replaced by the vendor free of cost. The warranty starts after the date of commissioning of entire system followed by date of issue of work completion certificate by user department the AMC of 1 year will be started after completion of warranty of one year.

6. PRICING: Bidders shall quote for delivery of the items to the following destination including charges towards inland transportation, insurance, unloading charges and other local costs incidental to the delivery of the Goods/Services.

Delivery Address:

Mazagon Dock Shipbuilders Limited, Dockyard Road, Mumbai -400010.

7. Performance Bank Guarantee:

Please note that Performance Bank Guarantee should be valid till end of Guarantee/Warranty period + additional 02 months

8. ALTERNATE MSME VENDOR PAYMENT THROUGH TREDS:

- i) In order to address the financial needs of MSME firms, GoI has introduced a platform for facilitating the financing of trade receivables of MSMEs from buyers, through multiple financiers which is termed as Trade Receivables Discounting System (TReDS). At TReDS, auctioning of invoices at competitive & transparent environment is done by financiers based on Buyer's credit profile.
- ii) MDL is registered on the "Invoicemart" TReDS platform, M1xchange of M/s Mynd Solutions Pvt. Ltd and M/s Recieveable Exchange of India Ltd(RXIL).
- iii) MSME bidders desirous to receive payments through TReDS platform may avail the facility if they are already registered on
 - a) "Invoicemart" TReDS platform or by registering on it.
Contact details at "Invoicemart" TReDS platform are as below:
Mr. Amit Kumar Dutta, +91-8600179668 and a new mail id amit1.dutta@invoicemart.com.
 - b) "M1xchange" TReDS platform or by registering on it.
Contact details at "M1xchange" TReDS platform are as below:
Mr. Shaiwal Sinha Contact No. +91-9599224595 email id: shaiwal.sinha@mlxchange.com, Mr. Ankit Singh No . +91-9800250395 email id: ankit.singh@mlxchange.com
 - c) "RXIL" TReDS platform or by registering on it.
Contact Details at RXIL: Mr Santosh Yadav, Senior Relationship Manager, Business Development
Contact No. +91-9167708156, Email id : santosh.yadav@rxil.com

Ms. Angelin Anbarasan, contact no + 91-8451975191 Email id:- angelin.anbarasan@rxil.in

All the above three discounting firm have offered waiver of Registration / On boarding fees to MDL vendors.

- #### 9. E INVOICE: Bidder, whose aggregate turnover in any preceding financial year from FY 2017-18 onwards, exceeds INR 5 crore as per GST Act or as applicable from time to time, will have to submit an e- Invoice with a Quick Response (QR) code and Invoice Registration No.(IRN). Wherever GST is applicable, payment will be released against e-Invoice, or Invoice accompanied with Vendor's Self Declaration that " We do not fall under the category of registered persons notified under Rule 48(4) of the Central GST Rules, 2017 and we are not required to comply with e-Invoicing provisions under GST Act, as our aggregate turnover in any preceding financial year from 2017-18 onwards has not exceeded Rs. 5 Crores as per GST act".

10. CONSIGNEE:

- (a) Material to be delivered at: Mazagon Dock Shipbuilders Limited, Dockyard Road, Mumbai-400010.



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- (b) In order to avoid inconvenience during the delivery of material, it is advisable for supplier to depute their representative in their own interest to coordinate the activities between the transporter, and MDL stores.
- (c) Following document should be submitted along with material:
- PO copy & subsequent amendments issued to it, if any.
 - Mill Test Certificate if applicable as per tender/TSP.
 - Delivery Challans clearly indicating MDL GeM Contract No.
 - Packing List co-relating the items in the MDL GeM Contract.
 - Copy of Warranty Certificate, Preservation Certificate etc. as applicable
 - E-Way bill (if applicable).
 - GeM Invoice and Commercial Invoice.

Note: Any discrepancy, shortfall, mismatch, incompleteness in above documents may lead to delay in CRAC / GRN and subsequent payment, for which MDL shall not be held responsible.

- (d) Unloading of Material at MDL Stores shall be the responsibility of Vendor.

11. INSPECTION:

- i. **PRE-DISPATCH INSPECTION:** ALL tests shall be performed in presence of MDL's representatives. The contractor shall give at least fifteen (15) days advance notice of the date when tests are to be carried out. MDL representative may visit the factory for stage inspection during painting of the panel to ensure that proper painting procedures are followed by the vendor
- ii. **RECEIPT INSPECTION:** MDL user dept / inspection cell shall carry out necessary inspection of the items on receipt of item at MDL stores. Any objection raised by MDL user dept / inspection cell against quality of materials or workmanship shall be satisfactorily corrected by the Contractor at his expense including replacement as may be required within shortest possible time within 30 days. Items damaged during transit shall also be rectified/replaced by the Contractor within shortest possible time. Goods accepted by the purchaser at the initial and final inspections, in terms of the contract, shall in no way dilute the purchaser's right to reject them later, if found deficient in terms of the warranty clause of the contract.
- iii. **REJECTION OF MATERIAL:** Rejected materials, if any, shall have to be promptly lifted by the supplier at his own expenses with his labour / transport as the case may be.

Note: MDL reserves the right to test the supplied product at Govt. or NABL lab for verifying the compliance of the supplied products to the specification of the PO. If the test result confirms the compliance of the product to the specification of the PO, then the testing charges shall be borne by MDL. However, if the test result confirms non-compliance of the product to the specification of the PO, then the whole lot shall be rejected and the testing charges shall be recovered from the supplier.

12. PUBLIC PROCUREMENT POLICY (PREFERENCE TO MAKE IN INDIA) ORDER 2017:

Minimum local content: The Minimum local content requirement is 20% and 50% for Class-II and Class-I vendor respectively i.e. Only Class-I and Class-II suppliers are eligible to bid.

Purchase preference shall be given to local supplier in all procurement undertaken by MDL in line with The Govt of India has issued revised public procurement (Preference to Make in India) order 2017, issued on 19.07.2024. Revised Order 2017 is enclosed with ATC.

Explanatory notes for calculation of local content given below: -

- Imported items sourced locally from resellers/ distributors shall be excluded from Calculation of local content.
- The license fees / royalties paid / technical charges paid out of India shall be excluded from local content calculation.
- Procurement / supply repackaged / refurbished / rebranded imported products as understood commonly shall be treated as reselling of imported products and shall be excluded from calculation of local content. The definition of repackaged / refurbished / rebranded imported product is as follows.

Refurbishing means repair or reconditioning of an imported product does not amount to manufacture because no new goods come into existence.

Repackaging means repacking of imported goods from bulk pack to smaller packs would not ordinarily amount to manufacture of a new item.



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- Rebranding means relabeling or renaming or change in symbol or logo/ makes or corporate image of a company/organization/firm for an imported product would amount to rebranding.
- d. To ensure that imported items sourced locally from resellers/ distributors are excluded from calculation of local content, procuring entities to obtain from bidders, the cost of such locally – sourced imported items (Inclusive of taxes) along with break-up on license / royalties paid / technical expertise cost etc. sourced from outside India. For items sold by bidder as reseller OEM certificate of country of origin to be submitted.
 - e. For Contracts involving supply of multiple items, Weighted average of all items to be taken while calculating the local content.
 - f. Bidder shall give self-certification for local content in the quoted item at the time of tendering. However, at the time of execution of the project, for all contract above INR 10 crore, the contractor / supplier shall submit the local content certification duly certified by cost accountant / chartered accountant in practice. For cases where it is not possible to provide certification by Cost / Chartered Accountant at the time of execution of project, the supplier shall be permitted to provide the certificate for local content from Cost Accountant / Chartered Accountant after completion of the contract, within time limit acceptable to the procuring entity (30 days of completion). In case the contractor / supplier does not meet the stipulated local content requirement and the category of supplier changes from Class-I to Class-II / Non-local or Class-II to Non-local, a penalty of 10% of the contract value shall be imposed which shall be withheld from payment due to the bidder. However, contract once awarded shall not be terminated on this account. Further, it must be informed that once declaration / certification is committed at tender stage, the same cannot be altered subsequently at technical negotiation stage or after award of contract. Doing so would be treated / considered as false declaration by bidder and necessary action shall be initiated as per para 9 of the said Order for debarment.

(i) The local content can be increased by vendors through partnerships, cooperation with local companies, establishing production units in India or Joint Ventures (JV) with Indian suppliers, increasing the participation of local employees in services and training them.

(ii) DPIIT vide OM No. P-45021/102/2019-BE-IIPaRT(1)(E-50310) dated 04 Mar 2021 has clarified that Bidders offering imported products will fall under the category on Non-local suppliers and they cannot claim themselves as Class-I local suppliers / Class-II local suppliers by claiming the services such as transportation, insurance, installation, commissioning, training and after sales service support like AMC / CMC, etc. as local value addition. Hence, bidders offering imported products will be treated as Non-local suppliers.

13. INDEPENDENT EXTERNAL MONITORS (IEM): The following Independent External Monitors (IEMs) will have the power to access the entire project document and examine any complaints received by him. In case of any change in IEM it will be informed accordingly.

For any administrative enquires and clarification on tender, bidders shall contact Commercial Dealing Executive. In case of issues related to Integrity Pact (IP) please contact Independent External Monitor (IEM) whose details are as below:

- i) Mr. P V Rao, IRS (Retd) (Email id: pasupuletirao@yahoo.co.in)
- ii) Mr. M N Krishnamurthy, IPS (Retd) (Email id : krishnamurthymn19@gmail.com)

14. HINDRANCE REGISTER:

- a. Wherever submission, approvals and clearances are required, hindrances, if any, with date of occurrences and removal shall be noted in the Hindrance Register.
- b. The Hindrance Register shall document the following aspects post Placement of PO/Contract:
 - i. Reasons for the delay vis-à-vis the mutually agreed schedule (Hindrance) viz. delay in MDL Inputs (Drawings/Material/Documents/Services/ Inspection call), delay by TPI/Inspection Agency/Customer(Navy), delay on account of specialist services, non-performance by the contractor, delinquency by the vendor, force majeure or any other relevant reason shall be recorded.
 - ii. Source for delay (Attributability) viz. Delinquent vendor, Contractor, MDL, TPI/Customer (Navy), specialists, Inspection agency like DQA(N) or equivalent, any other agency.
 - iii. All the hindrances with date of occurrence and removal are to be noted in the Hindrance Register. Hindrance Register will be signed by both the parties i.e. User Dept and Contractor. Executive in the rank of CM and above in case of MDL, the nodal executive of the user department and site-in-charge of the supplier or their authorized signatories are only authorized to sign the Hindrance Register. In



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case of goods / supply orders, correspondence done with supplier / customer shall be recorded by Commercial / Material department in the Hindrance Register.

- iv. The contractor may also record their observations in the Hindrance Register. Any objection raised by the contractor should be promptly attended and resolved without any delay.
- v. In case the contractor has a different opinion for hindrance and a dispute arises, then the matter shall be referred to the next higher authority and the decision to be communicated within 15 days. The decision of the next higher authority in case of dispute in respect of hindrances during the course of executing an order/contract shall be final and binding on the contractor.
- vi. In case MDL is unable to remove hindrance immediately, and if it is likely to take some time, the contractor shall be informed accordingly by the User. In such cases the contractor may reduce manpower deployed on the work. Under no circumstances, contractor should be paid for idle manpower.

15. WORKING ON MDL HOLIDAYS: Intimation for working on Saturday / Sunday / holidays if required, should be submitted 2 working days prior to the date of holiday indicating names of personnel to Personnel Department and Security through concerned Department.

16. CONFLICT OF INTEREST AMONG BIDDERS/ AGENTS: Bidders having a conflict of interest shall not be eligible to participate in the tender process unless the conflict stemming from such relationship has been resolved in a manner acceptable to the Procuring Entity throughout the Tender process and execution of the Contract.

The bidder shall be considered to have a conflict of interest in this tender process and execution of the resultant contract in the following situations: -

- (i) If its personnel have a close personal, financial, or business relationship with any personnel of the procuring entity who are directly or indirectly related to the procurement or execution process of the contract, which can affect the decision of the procuring entity directly or indirectly;
- (ii) The bidder (or his allied firm) provided services for the need assessment/ procurement planning of the Tender process in which it is participating;
- (iii) A Principal can authorize only one agent, and an agent should not represent or quote on behalf of more than one Principal. However, this shall not debar more than one Authorized distributor (with/ or without the OEM) from quoting equipment manufactured by an Original Equipment Manufacturer (OEM) in procurements under a Proprietary Article Certificate or
- (iv) A bidder participates in more than one bid in this tender process. Participation in any capacity by a Bidder (including the participation of a Bidder as a partner/ JV member or sub-contractor in another bid or vice versa) in more than one bid shall result in the disqualification of all bids in which he is a party. However, this does not limit the participation of an entity as a sub-contractor in more than one bid if he is not bidding independently in his own name or as a member of a JV;

Note: Participation of any bidder in this tender is construed as the bidder unconditionally agree and abide by the content of undertaking at Enclosure-7.

17. CONTACTING MDL DURING THE EVALUATION: From the time of bid submission to awarding the contract, no bidder shall contact MDL on any matter relating to the submitted bid. If a Bidder needs to contact MDL for any reason relating to this tender and/ or its bid, it should do so only in writing or electronically. Any effort by a Bidder to influence MDL during the processing of bids, evaluation, bid comparison or award decisions shall be construed as a violation of the Code of Integrity, and bid shall be liable to be rejected as nonresponsive in addition to other punitive actions for violation of Code of Integrity as per the Tender Document.

18. CARTEL FORMATION/POOL RATES

It is possible that sometimes a group of bidders quote the same rate against a tender. Such pool/cartel formation is against the basic principle of competitive bidding and defeats the very purpose of an open and competitive tendering system. Such and similar tactics to avoid/control true competition in a tender leading to "Appreciable Adverse Effect on Competition" (AAEC) have been declared as an offence under the Competition Act, 2002, as amended by the Competition (Amendment) Act, 2007. In case of evidence of cartel formation, detailed cost analysis may be done by associating experts if necessary. Besides, suitable administrative actions can be resorted to, such as rejecting the offers, reporting the matter to trade associations, the Competition Commission or NSIC, etc., and requesting them, inter-alia, to take suitable strong actions against such firms. Purchaser may also debar the tenderers indulging in cartel



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formation/collusive bidding/bid rigging for a period of two years from participation in the tenders of the Purchaser.

19. Scrutiny of Offers:

Bidders to ensure the completeness and clarity in their online offer by ensuring that complete/relevant documents/details required as per tender are uploaded ALONG WITH THEIR PART I ONLINE BID on GeM PORTAL. During evaluation and comparison of bids, MDL may, at its discretion, ask the bidder for clarifications on the bid. In case of shortfall documents, opportunity may be given to the bidder to submit the shortfall/supportive document through GeM portal. Bidder to note that The shortfall information/documents will be sought only in case of historical documents which pre-existed at the time of the tender opening and which have not undergone change since then.

Bidders shall regularly check their GeM bid status on GeM portal for any such clarifications. Bidders are expected to provide clarification before the deadline on GeM portal. If the bidder does not comply or respond by the date, his offer will be liable to be rejected.

No change in prices or substance of the bid shall be sought, offered or permitted. No post-bid clarification at the initiative of the bidder shall be entertained.

20. ADDITIONAL INSTRUCTIONS:

- (a) The bidder shall also abide to all statutory requirements, Official Secret Act 1923, Security and Safety Rules as per references, which are part of this tender. If contractors' employees are not adhering to the health, safety and environment norms and the contractors not equipping their employees with suitable safety gears, will be viewed seriously. For non-adherence to above will be levied as per extant guidelines of Security and Safety Rules prevailing time to time, to the contractor without prejudice to other rights to enforce the safety requirements.
- (b) MDL shall not be bound by any printed conditions or provisions in the sellers bid forms or acknowledgement of contract, invoices, packing list and any other documents which purport to impose any conditions at variance with the tender terms / final negotiated & accepted terms.
- (c) No claims by the firms will be entertained after 03 years from date of execution/completion of order.
- (d) Once the Local Content declaration / certification is committed at tender submission stage, the same cannot be altered subsequently at technical negotiation stage or after award of contract. Doing so would be treated / considered as false declaration by bidder and necessary action shall be initiated including debarment as deemed fit.
- (e) Public Grievance Cell: Details of the Public Grievance Cell is as below;
 - i. President - Shri R. R. Kumar, ED(Tech). Email ID – rrkumar@mazdock.com
 - ii. Member - Shri A K Chand, ED(HR). Email ID – akchand@mazdock.com
 - iii. Member - Shri E R Thomas, GM(Tech). Email ID – erthomas@mazdock.com
 - iv. Member - Shri S C Mandal, GM(Tech). Email ID – smandal@mazdock.com
- (f) **Complaints / Grievance:** Any complaints / grievances relating to implementation of revised Public Procurement (Preference to Make in India) Order 2017, issued on 19.07.2024 shall be taken up by Public Grievance Cell of MDL headed by ED(Tech). Fees for filing a complaint under the order shall be Rs. 10,000/- per case. The complaints shall be filed to the Chairman, Public Grievance Cell. Verification of Declared Local Content shall be carried out by seeking additional info as deemed necessary and the bidders (including unsuccessful bidders) against the tender shall be obliged to furnish the necessary documents. Failing to do so, the vendor may invite penal action as per the provisions of the Order. The fee shall be deposited in MDL's Account by NEFT. However, if in the opinion of MDL matter needs to be dealt at higher level, then the complaint shall be referred to Nodal Ministry and their fees / expenses / charges applicable as per the Nodal Ministry shall be borne by the complainant and paid by the complainant before referring the matter.

The Bank Account details of MDL are as follows:

Beneficiary's Name:	Mazagon Dock Shipbuilders Limited
Name of Bank:	State Bank of India
Branch:	Mazagon Br. Branch Code 9054
Bank Address:	Mazagon Branch, Mazagon, Mumbai - 400 010.
Telephone No. of Bank:	23752802
Account No.:	10005255246



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Account Type:
IFSC Code:
RTGS Code:
NEFT Code:

Current Account
SBIN0009054
SBIN0009054
SBIN0009054

- (g) **Corrigendum** to the Bid, if any, shall be published on GeM Portal and MDL website. Bidders are advised to visit the GeM Portal and MDL website regularly to remain updated for any such Corrigendum. It is bidder's responsibility to check the GeM Portal, MDL website for any Corrigendum.

21. CONTACT DETAILS FOR QUERIES: All bidders are requested to get their queries, if any, clarified in advance (i.e. 7 days in advance to tender closing date) to avoid last minute delay. In case of any clarifications regarding tender, bidders are requested to contact the following executives.

Dept.	Name of Executives	Contact No	Email
Technical	Mr. Ashish Kumar Yadav AM (SB-MTC)	+912223763122 9833870098	ashishkyadav@mazdock.com
	Mr. Sanjay D Bhendarkar DGM (SB-MTC)	+912223763116 9869211190	sdbhendarkar@mazdock.com
Commercial	Mr. Datta Wadne M (C-MP)	+912223763256 86522277 25	djwadne@mazdock.com
	Msr. Vaishali Gharat DGM(Materials-Capital)	022-23763246	vgharat@mazdock.com

22. Note: -

- Bidders who are debarred under PPP MII order 2017, GeM, CPPP including Tender holiday issued by MDL will be rejected.
- Bids received without EMD (other than those who are exempted from payment of EMD) will be rejected.
- Bidders asking for exemption against Start-up certificate, has to submit declaration that the start-up certificate submitted is valid as on date for exemption
- Bids received without mandatory site visit and not submitted site declaration form as attached in SOW clause no. 17 will be rejected.
- Non-compliance/non-acceptance to any of the terms and conditions of the tender is liable for rejection.
- Any deviation in delivery period is liable for rejection.
- Non submission of original Integrity Pact within 14 days from Tender Opening is liable for rejection.
- Firm has to submit the contact details like E-mail address, Name of the person, Phone number for further communications
- Firm has to submit the contact details like E-mail address, Name of the person, Phone number for further communications.
- LD will be applicable as per GeM Terms & Condition.

Enclosures: -

Enclosure-1	Declaration Certificate For Local Content
Enclosure-2	Contact Details Of Bidder
Enclosure-3	Turnover detail
Enclosure-4	Format for remittance towards EMD/Performance Security
Enclosure-5	Official Secret Act 1923
Enclosure-6	Declaration of manufacturer of offered product
Enclosure-7	Undertaking For Conflict Of Interest
Enclosure-8	PIDPI related information
Enclosure-9	Revised Public Procurement (Preference to Make in India) Order 2017, issued on 19.07.2024
Enclosure-10	Safety Instruction for Sub-Contractor
Enclosure- 11	Acceptance of detailed Scope of Work/ Technical Specification as attached in SOW of bid document



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Enclosure-1

DECLARATION CERTIFICATE FOR LOCAL CONTENT

This declaration must form part of all tenders & it contains general information and serves as a declaration form for all bidders. (Before completing this declaration, bidders must study the General Conditions, Definitions, Govt Directives applicable in respect of Local Content & prescribed tender conditions).

THE BIDDERS SHALL PROVIDE THIS CERTIFICATE FROM STATUTORY AUDITOR OR COST AUDITOR OF THE COMPANY (IN CASE OF COMPANIES) OR FROM A PRACTICING COST ACCOUNTANT OR PRACTICING CHARTED ACCOUNTANT (IN RESPECT OF SUPPLIER OTHER THAN COMPANIES) GIVING THE PERCENTAGE OF LOCAL CONTENT.

IN RESPECT OF BID/ TENDER No _____

ISSUED BY: Mazagon Dock Shipbuilders Ltd

I, the undersigned, (full names),
do hereby declare, in my capacity as (Capacity) of
.....(name of bidder entity), the following:

- (a) The facts contained herein are within my own personal knowledge.
- (b) I have read and understood the requirement of local content (LC) and same is specified as percentage calculated in accordance with the definition provided at clause 2 of revised Public Procurement (preference to Make in India) Order 2017.
- “Local content” as per above order means the amount of value added in India which shall be the total value of items 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.”
- (c) I have satisfied myself that the goods/services/works to be delivered in terms of the above specified bid comply with the local content requirements as specified in the tender for ‘Class-I Local Supplier’ / ‘Class-II Local Supplier’, and as above.
- (d) I understand that a bidder can seek benefit of either Public Procurement Policy for MSEs –Order 2012 or Public Procurement (preference to Make in India) Order 2017 and not both and once the option is declared / selected it is not permitted to be modified subsequently.

(e) The local content calculated using the definition given above are as under:

Tender Item Sr No	Local content calculated as above %	Location of local value addition (Location shall be the specified as name of city or district, etc. Location as name of country will be considered as ambiguous and such bids shall be rejected)
1		
2		

Attach separate sheet **duly signed** if the space not sufficient.



MAZAGON DOCK SHIPBUILDERS LIMITED, MUMBAI

Note:

1) Local content percentage shall be declared item wise or tender wise strictly as per the terms of the tender.

2) Format for actual local content declaration shall be provided to successful bidder along with PO copy. It is binding on the successful bidder to submit the actual local content declaration post PO placement & Execution as mentioned in tender.

(f) I accept that the Procurement Authority / Institution / MDL / Nodal Ministry has the right to request that the local content be verified in terms of the requirements of revised Public Procurement (preference to Make in India) Order 2017 dated 16.09.2020 and I shall furnish the document / information on demand. Failure on my part to furnish the data will be treated as false declaration as per PPP MII Order 2017. In case of contract being awarded, I undertake to retain the relevant documents for 7 years from date of execution.

(g) I understand that the submission of incorrect data, or data that are not verifiable as described in revised Public Procurement (preference to Make in India) Order 2017, may result in the Procurement Authority / Nodal Ministry / MDL imposing any or all of the remedies as provided for in Clause 9 of the Revised Public Procurement (preference to Make in India) Order 2017 dated 16.09.2020.

SIGNATURE: _____

DATE: _____

Seal / Stamp of Bidder



MAZAGON DOCK SHIPBUILDERS LIMITED, MUMBAI

Enclosure-2

CONTACT DETAILS OF BIDDER

Name of Bidder:	
Address:	
Contact Number:	
email id:	

Details of Authorized Representatives; (Three Levels)

1.

Name:	
Designation	
Direct Landline Number:	
Mobile Number:	
Email id:	

2.

Name:	
Designation	
Direct Landline Number:	
Mobile Number:	
Email id:	

3.

Name:	
Designation	
Direct Landline Number:	
Mobile Number:	
Email id:	



MAZAGON DOCK SHIPBUILDERS LIMITED, MUMBAI

Enclosure-3

Turnover Detail

Financial Year	Turnover (INR)	Relevant Document attached (Yes/No) Name of document attached



MAZAGON DOCK SHIPBUILDERS LIMITED, MUMBAI

Enclosure-4

Format for remittance towards EMD/Performance Security

1. MDL'S BANK ACCOUNT DETAILS:

NAME OF BANK A/C HOLDER : **MAZAGON DOCK SHIPBUILDERS LTD**

BANK AND BRANCH : **STATE BANK OF INDIA, COMMERCIAL BRANCH, FORT, MUMBAI-400023**

TYPE OF ACCOUNT : **CURRENT**

BANK ACCOUNT NO : **11079519138**

IFSC CODE : **SBIN0006070**

SWIFT CODE : **SBININBB101**

2. DETAILS OF REMITTANCE TO MDL'S BANK ACCOUNT:

(To be filled in by the vendors/firms making remittance of funds in MDL'S Bank Account)

Date of Remittance	Name of Firm	Vendor Code	MDL tender/ PO. Ref No.	Nature of Remittance viz. EMD/SD etc.	Amount Remitted (₹)	UTR No.

Signature of Vendor/Representative



OFFICIAL SECRET ACT 1923

(ILLUSTRATIVE FORMAT)

SECTION 2(B) ; “PROHIBITED PLACE”

It is defined as the place of any work of Defence Dockyard and other so belonging or occupied and used for the purpose of building, repairing, making or storing any ammunitions of war.

For the purpose of the above definition, sketch includes any photograph or other mode of representing any place or thing.

SECTION 3 : “PENALTIES FOR SPYING”

If any per unlawfully -

- a) approaches, inspects, passes over or is in the vicinity of any clear place; or
- b) make any sketches intended to be directly or indirectly useful to an enemy; or
- c) obtains, collects, records or communicates to any other person any secret official code.

Shall be liable for imprisonment of 14 years in case of Defence Installation.

SECTION 4 : “COMMUNICATION WITH FOREIGN AGENTS”

If Any person has been in communication with or attempted to communicate with foreign agents regarding the vital information of any “PROHIBITED PLACE” would be guilty of violating the provisions of this Act.

SECTION 5 : “WRONGFUL COMMUNICATION OF INFORMATION”

If any person having in his possession or control any official document;

- a) Willfully communicates to any person, other than a person, who is authorised to communicate it.
- b) Used the information in his possession for the benefit of any foreign power.
- c) Retain in his possession when he has no power to retain it
- d) Fails to take reasonable care of it.

Shall be guilty of an offence under this Act.

SECTION 6 : “UNAUTHORISED USE OF UNIFORMS”

If any person for the purpose of gaining admission or of assisting any other person to gain admission to a “PROHIBITED PLACE” wears uniforms without lawful authority shall be guilty of offence under this Section.

SECTION 7 : “INTERFERING WITH OFFICERS OF POLICE”

No person in the vicinity of any “PROHIBITED PLACE” shall abstract any Police Officer engaged on guard, sentry or similar duty. If any person move in the provisions of this section, shall be punishable with imprisonment, which may extend up to 3 years.

SECTION 8 : “DUTY OF GIVING INFORMATION”

It shall be duty of every person to give on demand to a superintendent of Police or any other Police Officer not below the rank of Inspector, any information in his power relating to an offence under this Act.

If any person fails to give such information, shall be punishable with imprisonment to 3 years or fine or with both.

SECTION 9 : “INCITEMENT”



MAZAGON DOCK SHIPBUILDERS LIMITED, MUMBAI

Any person who attempts to commit or debate the commission of an offence under this Act shall be punishable with the same punishment and be liable to be proceeded against in the same manner as if he had committed such offence.

SECTION 10 : “PENALTY FOR HARBOURING SPIES”

If any person whom he knows or has reasonable grounds for supposing to be person who is about to commit or who has committed offence under this Act shall be guilty of offence under this Section.

SECTION 11 : “SEARCH WARRANTS”

If a presidency Magistrate, Magistrate First Class or Sub-Divisional magistrate is satisfied with the information that there is reasonable ground for suspecting that an offence under this Act has been or is about to be committed, he may grant search warrant to any Police Officer to enter at any time any premises to force to search premises or the places.



MAZAGON DOCK SHIPBUILDERS LIMITED, MUMBAI

Enclosure-6

Confirmation of being manufacturer of offered product

(Compliance to Serial no. xiii (m) (i) of Para 4 of General Terms and Conditions on GeM) – To be submitted by MSE bidders on OEM letter head.

Tender No

WE M/s _____, hereby declare
that our firm is manufacturer of offered product.

Note:

1. As per Serial no. xiii (m) (i) of Para 4 of General Terms and Conditions on GeM, EMD exemption is applicable for those offered items of which the MSE bidder is a manufacturer. For the remaining products/items, MSE bidder shall not be eligible for exemption of EMD.
2. Above confirmation shall be duly filled (Yes or No) for each item/schedule by the bidder and it shall be uploaded along with the Part 1 bid.

M/s.-

Signature & Stamp of the Authorized Person of bidder



MAZAGON DOCK SHIPBUILDERS LIMITED, MUMBAI

Enclosure-7

UNDERTAKING REGARDING CONFLICT OF INTEREST

We do not have any conflict of interest with other bidders. We agree for the following compliance;

1. The bidder found to have a conflict of interest shall be disqualified.
2. The bidder shall be considered to have a conflict of interest in this tender process and execution of the resultant contract in the following situations: -
 - i) If its personnel have a close personal, financial, or business relationship with any personnel of the procuring entity who are directly or indirectly related to the procurement or execution process of the contract, which can affect the decision of the procuring entity directly or indirectly;
 - ii) The bidder (or his allied firm) provided services for the need assessment/ procurement planning of the Tender process in which it is participating;
 - iii) A Principal can authorize only one agent, and an agent should not represent or quote on behalf of more than one Principal. However, this shall not debar more than one Authorized distributor (with/ or without the OEM) from quoting equipment manufactured by an Original Equipment Manufacturer (OEM) in procurements under a Proprietary Article Certificate or
 - iv) A bidder participates in more than one bid in this tender process. Participation in any capacity by a Bidder (including the participation of a Bidder as a partner/ JV member or sub-contractor in another bid or vice versa) in more than one bid shall result in the disqualification of all bids in which he is a party. However, this does not limit the participation of an entity as a sub-contractor in more than one bid if he is not bidding independently in his own name or as a member of a JV;

Note: The undertaking by the bidders for above para (Conflict of Interest among Bidders/ Agents) to be submitted along with Part I bid.

SIGNATURE: _____

DATE: _____

Seal / Stamp of Bidder



PIDPI (Public Interest Disclosure & Protection of Informers Resolution) related information

सतर्कता जागरूकता सप्ताह Vigilance Awareness Week 2023
(30 अक्टूबर 2023 - 05 नवंबर 2023) (30 October 2023 - 05 November 2023)

जनहित प्रकटीकरण और मुखविर संरक्षण संकल्प
Public Interest Disclosure and Protection of Informers Resolution

क्या आपको पिडपी के बारे में पता है? Are you aware of PIDPI?

पिडपी क्या है? What is PIDPI?

- ❖ पिडपी भारत सरकार का एक संकल्प है।
PIDPI is a resolution of Government of India.
- ❖ इसके अंतर्गत दर्ज की गई सभी शिकायतों के शिकायतकर्ताओं की पहचान गोपनीय रखी जाती है।
Identity of the complainant is kept confidential for all complaints lodged under it.

पिडपी शिकायत कैसे की जाती है? How is PIDPI Complaint filed?

- 1

सचिव, केन्द्रीय सतर्कता आयोग, सतर्कता भवन, ब्लॉक-ए, नई दिल्ली - 23, को शिकायत भेजी जाए और लिफाफे पर "पिडपी" लिखा होना चाहिए।
The Complaint should be addressed to **Secretary, CVC, Satarkta Bhavan, Block-A, New Delhi - 23** and the envelope should be superscribed as "**PIDPI**".
- 2

शिकायतकर्ता का नाम और पता लिफाफे पर नहीं लिखा होना चाहिए अपितु बंद लिफाफे के अंदर पत्र में होना चाहिए।
Name and Address of the complainant should NOT be mentioned on the envelope but in the letter inside in a closed cover.

शिकायतकर्ता की पहचान गोपनीय रहे, ऐसा सुनिश्चित करने के लिए दिशानिर्देश
Guidelines to ensure identity of complainant remains Confidential

- ✓ जो शिकायतें व्यक्तिगत रूप से शिकायतकर्ता से संबंधित हैं या अन्य अधिकारियों को संबोधित हैं, उनमें पहचान प्रकट हो सकती है।
Complaints that are personally related to the complainant or addressed to other authorities may lead to disclosure of identity.
- ✓ शिकायतें सुप्रीम रिश्ता में या सार्वजनिक पोर्टल पर नहीं भेजी जाननी चाहिए।
Complaints should not be sent in open condition or on public portal.
- ✓ लिफाफे के अंदर पत्र पर नाम और पता पुष्टि के प्रयोजन से लिखा होना चाहिए।
Name and Address should be mentioned on the letter inside the envelope for confirmation purpose.

- ✓ जिन शिकायतों की पुष्टि प्राप्त नहीं होती है, उन्हें बंद कर दिया जाता है।
Complaints where confirmation is not received are closed.
- ✓ शिकायत में, पहचान प्रकट करने वाले दस्तावेज़ संलग्न नहीं करने चाहिए अथवा उनका उल्लेख नहीं किया जाना चाहिए जैसे: आर.टी.आई. के अंतर्गत प्राप्त दस्तावेज़।
Documents that reveal identity should not be enclosed or mentioned in the complaint. e.g.: documents received under RTI.
- ✓ अज्ञात/छद्मनाम पत्रों पर विचार नहीं किया जाता है।
Anonymous/Pseudonymous letters are not entertained.

एमडीएल सतर्कता विभाग MDL Vigilance Department



MAZAGON DOCK SHIPBUILDERS LIMITED, MUMBAI

Enclosure-9

No. P-45021/2/2017-PP (BE-II)-Part(4)Vol.II
Government of India
Ministry of Commerce and Industry
Department for Promotion of Industry and Internal Trade
(Public Procurement Section)

Vaniya Bhawan, New Delhi
Dated: 19 July, 2024

To

All Central Ministries/Departments/CPSUs/All concerned

ORDER

Subject: Public Procurement (Preference to Make in India), Order 2017– Revision; regarding.

Department for Promotion of Industry and Internal Trade, in partial modification [Paras 2, 3, 5, 10 & 13] of Order No.P-45021/2/2017-B.E.-II dated 15.6.2017 as amended by Order No.P-45021/2/2017-B.E.-II dated 28.05.2018, Order No.P-45021/2/2017-B.E.-II dated 29.05.2019, Order No.P-45021/2/2017-B.E.-II dated 04.06.2020 and Order No.P-45021/2/2017-B.E.-II dated 16.09.2020 hereby issues the revised 'Public Procurement (Preference to Make in India), Order 2017' dated 19.07.2024 effective with immediate effect.

Whereas it is the policy of the Government of India to encourage 'Make in India' and promote manufacturing and production of goods and services in India with a view to enhancing income and employment, and

Whereas procurement by the Government is substantial in amount and can contribute towards this policy objective, and

Whereas local content can be increased through partnerships, cooperation with local companies, establishing production units in India or Joint Ventures (JV) with Indian suppliers, increasing the participation of local employees in services and training them,

Now therefore the following Order is issued:

1. This Order is issued pursuant to Rule 153 (iii) of the General Financial Rules 2017.
2. **Definitions:** For the purposes of this Order:
'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.

Explanatory notes for calculation of local content given above

- a. Imported items sourced locally from resellers/distributors shall be excluded from calculation of local content.
- b. The license fees/royalties paid/ technical charges paid out of India shall be excluded from local content calculation.

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2



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- c. Procurement/Supply of repackaged/refurbished/rebranded imported products as understood commonly shall be treated as reselling of imported products and shall be excluded from calculation of local content. The definition of repackaged/refurbished/rebranded imported products is as follows;

'Refurbishing' means repair or reconditioning of an imported product does not amount to manufacture because no new goods come into existence.

'Repackaging' means repacking of imported goods from bulk pack to smaller packs would not ordinarily amount to manufacture of a new item.

'Rebranding' means relabeling or renaming or change in symbol or logo/makes or corporate image of a company/organization/ firm for an imported product would amount to rebranding.

- d. To ensure that imported items sourced locally from resellers/distributors are excluded from calculation of local content, procuring entities to obtain from bidders, the cost of such locally-sourced imported items (Inclusive of taxes) along with break-up on license/royalties paid/technical expertise cost etc. sourced from outside India. For items sold by bidder as reseller, OEM certificate for country of origin to be submitted.
- e. For contracts involving supply of multiple items, weighted average of all items to be taken while calculating the local content.

'Class-I local supplier' means a supplier or service provider, whose goods, services or works offered for procurement, meets the minimum local content as prescribed for 'Class-I local supplier' under this Order.

'Class-II local supplier' means a supplier or service provider, whose goods, services or works offered for procurement, meets the minimum local content as prescribed for 'Class-II local supplier' but less than that prescribed for 'Class-I local supplier' under this Order.

'Non - Local supplier' means a supplier or service provider, whose goods, services or works offered for procurement, has local content less than that prescribed for 'Class-II local supplier' under this Order.

'L1' means the lowest tender or lowest bid or the lowest quotation received in a tender, bidding process or other procurement solicitation as adjudged in the evaluation process as per the tender or other procurement solicitation.

'Margin of purchase preference' means the maximum extent to which the price quoted by a "Class-I local supplier" may be above the L1 for the purpose of purchase preference.

'Nodal Ministry' means the Ministry or Department identified pursuant to this order in respect of a particular item of goods or services or works.

'Procuring entity' means a Ministry or department or attached or subordinate office of, or autonomous body controlled by, the Government of India and includes Government companies as defined in the Companies Act.

a



MAZAGON DOCK SHIPBUILDERS LIMITED, MUMBAI

'Works' means all works as per Rule 130 of GFR- 2017, and will also include 'turnkey works'.

2A. Special treatment for items covered under PLI Scheme

The manufacturers manufacturing an item under PLI scheme shall be treated as deemed Class II local supplier for that item unless they have minimum local content equal to or higher than that notified for Class-I local supplier for that item, provided the manufacturer has received incentive from the concerned PLI Ministry for the item. The above shall be applicable for the specific time period only, as notified by concerned PLI Ministry.

3. Eligibility of 'Class-I local supplier'/ 'Class-II local supplier'/ 'Non-local suppliers' for different types of procurement

(a) In procurement of all goods, services or works in respect of which the Nodal Ministry / Department has communicated that there is sufficient local capacity and local competition, only 'Class-I local supplier', as defined under the Order, shall be eligible to bid irrespective of purchase value.

(b) Only 'Class-I local supplier' and 'Class-II local supplier', as defined under the Order, shall be eligible to bid in procurement undertaken by procuring entities, except when Global tender enquiry has been issued. In global tender enquiries, 'Non-local suppliers' shall also be eligible to bid along with 'Class-I local suppliers' and 'Class-II local suppliers'. In procurement of all goods, services or works, not covered by sub-para 3(a) above, and with estimated value of purchases less than Rs. 200 Crore, in accordance with Rule 161(iv) of GFR, 2017, Global tender enquiry shall not be issued except with the approval of competent authority as designated by Department of Expenditure.

(c) For the purpose of this Order, works includes Engineering, Procurement and Construction (EPC) contracts and services include System Integrator (SI) contracts.

3.1 Mandatory sourcing of items, with sufficient local capacity and competition, from Class-I local suppliers in SI/EPC/Turnkey Contracts/Service Tenders

- a. The items, notified as having sufficient local capacity and competition, shall mandatory be sourced from Class-I local suppliers in SI/EPC/Turnkey Contracts/ Services tenders. This provision will be applicable only for those items which have been notified by the Nodal Ministry as Class I i.e. having sufficient local capacity and competition, with specific HSN codes."
- b. Notwithstanding above, if in any project, it is considered that it is not practically feasible to source such items from Class I local suppliers, it may take relaxation from such stipulation with the approval of Secretary of the administrative Ministry/ Department concerned or with the approval of the Competent Authority specified by the Administrative Ministry/Department, on case-specific basis.

3A. Purchase Preference

(a) Subject to the provisions of this Order and to any specific instructions issued by the Nodal Ministry or in pursuance of this Order, purchase preference shall be given to 'Class-I local supplier' in procurement undertaken by procuring entities in the manner specified here under.

(b) In the procurement of goods or works, which are covered by para 3(b)





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above and which are divisible in nature, the 'Class-I local supplier' shall get purchase preference over 'Class-II local supplier' as well as 'Non-local supplier', as per following procedure:

- i. Among all qualified bids, the lowest bid will be termed as L1. If L1 is 'Class-I local supplier', the contract for full quantity will be awarded to L1.
 - ii. If L1 bid is not a 'Class-I local supplier', 50% of the order quantity shall be awarded to L1. Thereafter, the lowest bidder among the 'Class-I local supplier' will be invited to match the L1 price for the remaining 50% quantity subject to the Class-I local supplier's quoted price falling within the margin of purchase preference, and contract for that quantity shall be awarded to such 'Class-I local supplier' subject to matching the L1 price. In case such lowest eligible 'Class-I local supplier' fails to match the L1 price or accepts less than the offered quantity, the next higher 'Class-I local supplier' within the margin of purchase preference shall be invited to match the L1 price for remaining quantity and so on, and contract shall be awarded accordingly. In case some quantity is still left uncovered on Class-I local suppliers, then such balance quantity may also be ordered on the L1 bidder.
- (c) In the procurement of goods or works, which are covered by para 3(b) above and which are not divisible in nature, and in procurement of services where the bid is evaluated on price alone, the 'Class-I local supplier' shall get purchase preference over 'Class-II local supplier' as well as 'Non-local supplier', as per following procedure:
- i. Among all qualified bids, the lowest bid will be termed as L1. If L1 is Class-I local supplier', the contract will be awarded to L1.
 - ii. If L1 is not 'Class-I local supplier', the lowest bidder among the 'Class-I local supplier', will be invited to match the L1 price subject to Class-I local supplier's quoted price falling within the margin of purchase preference, and the contract shall be awarded to such 'Class-I local supplier' subject to matching the L1 price.
 - iii. In case such lowest eligible 'Class-I local supplier' fails to match the L1 price, the 'Class-I local supplier' with the next higher bid within the margin of purchase preference shall be invited to match the L1 price and so on and contract shall be awarded accordingly. In case none of the 'Class-I local supplier' within the margin of purchase preference matches the L1 price, the contract may be awarded to the L1 bidder.
- (d) "Class-II local supplier" will not get purchase preference in any procurement, undertaken by procuring entities.

3B. Applicability in tenders where contract is to be awarded to multiple bidders- In tenders where contract is awarded to multiple bidders subject to matching of L1 rates or otherwise, the 'Class-I local supplier' shall get purchase preference over 'Class-II local supplier' as well as 'Non-local supplier', as per following procedure:

- a. In case there is sufficient local capacity and competition for the item to be procured, as notified by the nodal Ministry, only Class I local suppliers shall be eligible to bid. As such, the multiple suppliers, who would be awarded the contract, should be all and only 'Class I Local suppliers'.
- b. In other cases, 'Class II local suppliers' and 'Non local suppliers' may also participate in the bidding process along with 'Class I Local suppliers' as per provisions of this Order.
- c. If 'Class I Local suppliers' qualify for award of contract for at least



MAZAGON DOCK SHIPBUILDERS LIMITED, MUMBAI

50% of the tendered quantity in any tender, the contract may be awarded to all the qualified bidders as per award criteria stipulated in the bid documents. However, in case 'Class I Local suppliers' do not qualify for award of contract for at least 50% of the tendered quantity, purchase preference should be given to the 'Class I local supplier' over 'Class II local suppliers'/'Non local suppliers' provided that their quoted rate falls within 20% margin of purchase preference of the highest quoted bidder considered for award of contract so as to ensure that the 'Class I Local suppliers' taken in totality are considered for award of contract for at least 50% of the tendered quantity.

- d. First purchase preference has to be given to the lowest quoting 'Class-I local supplier', whose quoted rates fall within 20% margin of purchase preference, subject to its meeting the prescribed criteria for award of contract as also the constraint of maximum quantity that can be sourced from any single supplier. If the lowest quoting 'Class-I local supplier', does not qualify for purchase preference because of aforesaid constraints or does not accept the offered quantity, an opportunity may be given to next higher 'Class-I local supplier', falling within 20% margin of purchase preference, and so on.
 - e. To avoid any ambiguity during bid evaluation process, the procuring entities may stipulate its own tender specific criteria for award of contract amongst different bidders including the procedure for purchase preference to 'Class-I local supplier' within the broad policy guidelines stipulated in sub- paras above.
4. **Exemption of small purchases:** Notwithstanding anything contained in paragraph 3, procurement where the estimated value to be procured is less than Rs. 5 lakhs shall be exempt from this Order. However, it shall be ensured by procuring entities that procurement is not split for the purpose of avoiding the provisions of this Order.
- 4A. Exemption in sourcing of spares and consumables of closed systems:**
- Procurement of spare parts, consumables for closed systems and Maintenance/ Service contracts with Original Equipment Manufacturer/Original Equipment Supplier/Original Part Manufacturer shall be exempted from this Order.
5. **Minimum local content:** The 'local content' requirement to categorize a supplier as 'Class-I local supplier' is minimum 50%. For 'Class-II local supplier', the 'local content' requirement is minimum 20%. Nodal Ministry/ Department may prescribe only a higher percentage of minimum local content requirement to categorize a supplier as 'Class-I local supplier'/'Class- II local supplier'. For the items, for which Nodal Ministry/ Department has not prescribed higher minimum local content notification under the Order, it shall be 50% and 20% for 'Class-I local supplier'/'Class-II local supplier' respectively.
6. **Margin of Purchase Preference:** The margin of purchase preference shall be 20%.
7. **Requirement for specification in advance:** The minimum local content, the margin of purchase preference and the procedure for preference to Make in India shall be specified in the notice inviting tenders or other form of procurement solicitation and shall not be varied during a particular procurement transaction.
8. **Government E-marketplace:** In respect of procurement through the Government E-marketplace (GeM) shall, as far as possible, specifically mark the items which meet the minimum local content while registering the item for



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display, and shall, wherever feasible, make provision for automated comparison with purchase preference and without purchase preference and for obtaining consent of the local supplier in those cases where purchase preference is to be exercised.

9. Verification of local content:

- a. The 'Class-I local supplier'/'Class-II local supplier' at the time of tender, bidding or solicitation shall be required to indicate percentage of local content and provide self-certification that the item offered meets the local content requirement for 'Class-I local supplier'/'Class-II local supplier', as the case may be. They shall also give details of the location(s) at which the local value addition is made.
- b. In cases of procurement for a value in excess of Rs. 10 crores, the 'Class-I local supplier'/'Class-II local supplier' shall be required to provide a certificate from the statutory auditor or cost auditor of the company (in the case of companies) or from a practicing cost accountant or practicing chartered accountant (in respect of suppliers other than companies) giving the percentage of local content.
- c. The bidder shall give self-certification for local content in the quoted item (goods/works/services) at the time of tendering. However, at the time of execution of the project, for all contracts above INR 10 Crore, the contractor/ supplier shall be required to give local content certification duly certified by cost/ chartered accountant in practice. For cases where it is not possible to provide certification by Cost/Chartered Accountant at the time of execution of project, the supplier shall be permitted to provide the certificate for local content from Cost/ Chartered Accountant after completion of the contract, within time limit acceptable to the procuring entity. In case the contractor/ supplier does not meet the stipulated local content requirement and the category of the supplier changes from Class-I to Class-II/ Non-local or from Class-II to Non-local, a penalty upto 10% of the contract value may be imposed. However, contract once awarded shall not be terminated on this account.
- d. Decisions on complaints relating to implementation of this Order shall be taken by the competent authority which is empowered to look into procurement-related complaints relating to the procuring entity.
- e. Nodal Ministries may constitute committees with internal and external experts for independent verification of self-declarations and auditor's/ accountant's certificates on random basis and in the case of complaints.
- f. Nodal Ministries and procuring entities may prescribe fees for such complaints.
- g. False declarations will be in breach of the Code of Integrity under Rule 175(1)(i)(h) of the General Financial Rules for which a bidder or its successors can be debarred for up to two years as per Rule 151 (iii) of the General Financial Rules along with such other actions as may be permissible under law.
- h. A supplier who has been debarred by any procuring entity for violation of this Order shall not be eligible for preference under this Order for procurement by any other procuring entity for the duration of the debarment. The debarment for such other procuring entities shall take effect prospectively from the date on which it comes to the notice of other procurement entities, in the manner prescribed under paragraph 9



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i below.

- i. The Department of Expenditure shall issue suitable instructions for the effective and smooth operation of this process, so that:
 - i. The fact and duration of debarment for violation of this Order by any procuring entity are promptly brought to the notice of the Member-Convenor of the Standing Committee and the Department of Expenditure through the concerned Ministry /Department or in some other manner;
 - ii. On a periodical basis such cases are consolidated and a centralized list or decentralized lists of such suppliers with the period of debarment is maintained and displayed on website(s);
 - iii. In respect of procuring entities other than the one which has carried out the debarment, the debarment takes effect prospectively from the date of uploading on the website(s) in the such a manner that ongoing procurement are not disrupted.

10. Specifications in Tenders and other procurement solicitations:

- a. Every procuring entity shall ensure that the eligibility conditions in respect of previous experience fixed in any tender or solicitation do not require proof of supply in other countries or proof of exports.
- b. Procuring entities shall endeavour to see that eligibility conditions, including on matters like turnover, production capability and financial strength do not result in unreasonable exclusion of 'Class-I local supplier/' 'Class-II local supplier' who would otherwise be eligible, beyond what is essential for ensuring quality or creditworthiness of the supplier.
- c. Procuring entities shall, within 2 months of the issue of this Order review all existing eligibility norms and conditions with reference to sub-paragraphs 'a' and 'b' above.
- d. **Reciprocity Clause**
 - i. When a Nodal Ministry/Department identifies that Indian suppliers of an item are not allowed to participate and/ or compete in procurement by any foreign government, due to restrictive tender conditions which have direct or indirect effect of barring Indian companies such as registration in the procuring country, execution of projects of specific value in the procuring country etc., it shall provide such details to all its procuring entities including CMDs/CEOs of PSEs/PSUs, State Governments and other procurement agencies under their administrative control and GeM for appropriate reciprocal action.
 - ii. Entities of countries which have been identified by the nodal Ministry/Department as not allowing Indian companies to participate in their Government procurement for any item related to that nodal Ministry shall not be allowed to participate in Government procurement in India for all items related to that nodal Ministry/ Department, except for the list of items published by the Ministry/ Department permitting their participation.
 - iii. The stipulation in (ii) above shall be part of all tenders invited by the Central Government procuring entities stated in (i) above. All purchases on GeM shall also necessarily have the above provisions for items identified by nodal Ministry/ Department.
 - iv. State Governments should be encouraged to incorporate similar provisions in their respective tenders.
 - v. The term 'entity' of a country shall have the same meaning as under the FDI Policy of DPIIT as amended from time to time.
- e. Specifying foreign certifications/ unreasonable technical specifications/



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brands/ models in the bid document is restrictive and discriminatory practice against local suppliers. If foreign certification is required to be stipulated because of non-availability of Indian Standards and/or for any other reason, the same shall be done only after written approval of Secretary of the Department concerned or any other Authority having been designated such power by the Secretary of the Department concerned.

- f. "All administrative Ministries/Departments *whose procurement exceeds Rs. 1000 Crore per annum* shall notify/update their procurement projections every year, including those of the PSEs/PSUs, for the next 5 years on their respective website."

10A. Action for non-compliance of the Provisions of the Order: In case restrictive or discriminatory conditions against domestic suppliers are included in bid documents, an inquiry shall be conducted by the Administrative Department undertaking the procurement (including procurement by any entity under its administrative control) to fix responsibility for the same. Thereafter, appropriate action, administrative or otherwise, shall be taken against erring officials of procurement entities under relevant provisions. Intimation on all such actions shall be sent to the Standing Committee.

11. **Assessment of supply base by Nodal Ministries:** The Nodal Ministry shall keep in view the domestic manufacturing / supply base and assess the available capacity and the extent of local competition while identifying items and prescribing the higher minimum local content or the manner of its calculation, with a view to avoiding cost increase from the operation of this Order.
12. **Increase in minimum local content:** The Nodal Ministry may annually review the local content requirements with a view to increasing them, subject to availability of sufficient local competition with adequate quality.
13. **Manufacture under license/ technology collaboration agreements with phased Indigenization:** While notifying the minimum local content, Nodal Ministries may make special provisions for exempting suppliers from meeting the stipulated local content if the product is being manufactured in India under a license from a foreign manufacturer who holds intellectual property rights and where there is a technology collaboration agreement / transfer of technology agreement for indigenous manufacture of a product developed abroad with clear phasing of increase in local content.

13A. In procurement of all goods, services or works in respect of which there is substantial quantity of public procurement and for which the nodal ministry has not notified that there is sufficient local capacity and local competition, the concerned nodal ministry shall notify an upper threshold value of procurement beyond which foreign companies shall enter into a joint venture with an Indian company to participate in the tender. Procuring entities, while procuring such items beyond the notified threshold value, shall prescribe in their respective tenders that foreign companies may enter into a joint venture with an Indian company to participate in the tender. The procuring Ministries/Departments shall also make special provisions for exempting such joint ventures from meeting the stipulated minimum local content requirement, which shall be increased in a phased manner.

14. **Powers to grant exemption and to reduce minimum local content:** The administrative Department undertaking the procurement (including

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procurement by any entity under its administrative control), with the approval of their Minister-in-charge, may by written order, for reasons to be recorded in writing,

- a. reduce the minimum local content below the prescribed level; or
- b. reduce the margin of purchase preference below 20%; or
- c. exempt any particular item or supplying entities from the operation of this Order or any part of the Order.

The Administrative Department, while seeking exemption under this para, shall certify that such an item(s) has not been notified by Nodal Ministry/ Department concerned under para 3 (a) of the Order.

A copy of every such order shall be provided to the Standing Committee and concerned Nodal Ministry / Department. The Nodal Ministry / Department concerned will continue to have the power to vary its notification on Minimum Local Content.

15. **Directions to Government companies:** In respect of Government companies and other procuring entities not governed by the General Financial Rules, the administrative Ministry or Department shall issue policy directions requiring compliance with this Order.
16. **Standing Committee:** A standing committee is hereby constituted with the following membership:
Secretary, Department for Promotion of Industry and Internal Trade - Chairman
Secretary, Commerce—Member
Secretary, Ministry of Electronics and Information Technology—Member Joint
Secretary (Public Procurement), Department of Expenditure—Member Joint
Secretary (DPIIT)—Member-Convenor

The Secretary of the Department concerned with a particular item shall be a member in respect of issues relating to such item. The Chairman of the Committee may co-opt technical experts as relevant to any issue or class of issues under its consideration.

17. **Functions of the Standing Committee:** The Standing Committee shall meet as often as necessary, but not less than once in six months. The Committee
 - a. shall oversee the implementation of this order and issues arising therefrom, and make recommendations to Nodal Ministries and procuring entities.
 - b. shall annually assess and periodically monitor compliance with this Order
 - c. shall identify Nodal Ministries and the allocation of items among them for issue of notifications on minimum local content
 - d. may require furnishing of details or returns regarding compliance with this Order and related matters
 - e. may, during the annual review or otherwise, assess issues, if any, where it is felt that the manner of implementation of the order results in any restrictive practices, cartelization or increase in public expenditure and suggest remedial measures
 - f. may examine cases covered by paragraph 13 above relating to manufacture under license/ technology transfer agreements with a view to satisfying itself that adequate mechanisms exist for enforcement of such agreements and for attaining the underlying objective of progressive indigenization



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g. may consider any other issue relating to this Order which may arise.

18. **Removal of difficulties:** Ministries /Departments and the Boards of Directors of Government companies may issue such clarifications and instructions as may be necessary for the removal of any difficulties arising in the implementation of this Order.

19. **Ministries having existing policies:** Where any Ministry or Department has its own policy for preference to local content approved by the Cabinet after 1st January 2015, such policies will prevail over the provisions of this Order. All other existing orders on preference to local content shall be reviewed by the Nodal Ministries and revised as needed to conform to this Order, within two months of the issue of this Order.

20. **Transitional provision:** This Order shall not apply to any tender or procurement for which notice inviting tender or other form of procurement solicitation has been issued before the issue of this Order.



(Himani Pande)

Additional Secretary to the Government of India

Tel: 011-23038888

E-mail: ashp.dplit@gov.in



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Enclosure-10

Mazagon Dock Shipbuilders Limited		Title: Safety Instruction for Sub-Contractor		
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1. Scope of Work:

- To develop consciousness and to create an awareness amongst the sub-contractor and their employees/workman regarding the general procedures and practices for safe conduct of their work at all times.
- This brings out procedures, standard practices etc. and would serve as the reference material to all Sub-Contractors.
- This document is only for providing guidance to the sub-contractors and does not replace the safety rules detailed in Factory Acts 1948 and Maharashtra Factory Rule 1963 as amended till date.

2. General Safety Guidelines:

- 1.1 The Contractor shall ensure that his employees/workmen subject themselves to medical examinations required under the law and keep a record of the same. (As per the "Factory Acts 1948" and the Maharashtra Factory Rules 1963 as amended till date).
- 1.2 Workers and supervisors engaged in the work shall be competent and undergone Safety training by MDL Safety section before deployment on job inside the MDL.
- 1.3 Contractor should go through MDL safety manual and follow the safety procedures wherever applicable.
- 1.4 The contractor must observe all safety precautions in connection with the work performed by him. No job should be undertaken where question of safety remains unanswered.
- 1.5 The Contractor shall not permit any employee/workmen to enter the work area under the influence of alcohol.
- 1.6 Smoking is strictly prohibited.
- 1.7 Fishing is not permitted in the yard.
- 1.8 Report promptly any situation affecting the safety of any person.
- 1.9 All stairways, Platforms and Walkways must be kept clean at all the times.
- 1.10 Make proper use of all safety devices and guards provided.
- 1.11 All employees shall wear personal protective equipment as appropriate while working.
- 1.12 The workmen of the contractor must wear fire retardant boiler suit/overall while working in MDL premises. The Sub-contractor shall be required to provide their workmen with Boiler suits of suitable colour with name of the contractor on the boiler suits in prominent letters.
- 1.13 The contractor should ensure that First Aid boxes are provided at the work place.
- 1.14 Do not leave tools/items on the floor or where they can fall on people below.
- 1.15 On completion of work in any location, the contractor must ensure that the place is left in a clean state and all scrap is disposed to nearby appropriate scrap bins.
- 1.16 All storage container must be clearly marked indicating the nature of contents.
- 1.17 No one except Driver (Operator) is allowed to ride/drive Jumbo/forklift/Powered trolleys/Crane etc.

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1.18 The contractor should ensure that adequate fire extinguishing arrangements are provided.

1.19 Action by person noticing Fire:

- Attempt to extinguish the fire with available fire-fighting equipment nearby.
- Operate fire alarm system or inform to fire station.

1.20 In order to ensure safety in all hazardous jobs such as excavation, work at height, fragile roof, work in confined spaces, on-board welding and gas cutting, electrical works etc., safety permit should be taken from authorize person.

3. Personnel Protective Equipment and other Safety Accessories:

All the contractors' employees shall wear the PPE's and other safety accessories relevant to the work. All safety equipment/accessories should confirm to the relevant Indian or International Standards e.g. ISI, BS, DIN, EN-ISO, ANSI and CE. The PPE matrix is as detailed below:

Sl. No.	Description of Activity	PPE's & Other essential Safety accessories to be used
1	Welding/Gouging	Boiler Suit, Helmet, Hand Gloves, Leg Guard, Face Shield with glass, Leather Aprons, Leather Sleeves, Skull Cap, Safety Shoe, Mask, ear plug etc.
2	Gas Cutting/Gas Welding	Boiler Suit, Helmet, Hand Gloves, Leg Guard, Cutting Goggle with glass, Leather Aprons, Skull Cap, Safety Shoe, Spark Light, ear plug, Tip Cleaner, Mask, Flash back arrestor etc.
3	Blasting & Painting	Boiler Suit, Helmet, Hand Gloves, Goggle, Leather Sleeves, Safety Shoes, Respiratory Mask, Apron, Ear Plug etc.
4	Manual Lifting	Boiler Suit, Helmet, Hand Gloves, Safety Shoe etc.
5	Working at Height	Boiler Suit, Helmet, Hand Gloves, Safety Shoe, Full Body Safety Harness etc.
6	Working on Fragile Roof	Helmet, Hand Gloves, Safety Shoe, Full Body Safety Harness, Scrawling Board, Duck Ladder, Lifeline system etc.
7	Working in Confined Spaces	Boiler Suit, Helmet, Hand Gloves, Safety Shoe, Respiratory Mask, Portable light, ear plug, Multi Gas Detector, Fume extractors etc.
8	Material Movement/Lifting/Turning	Boiler Suit, Helmet, Hand Gloves, Safety Shoe, Slings/Tackles/Shackles, Mask etc.

Signature



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Sl. No.	Description of Activity	PPE's & Other essential Safety accessories to be used
9	Grinding	Boiler Suit, Helmet, Hand Gloves, Face Shield, Skull Cap, Safety Shoe, Mask, Ear Plug etc.
10	Machining	Boiler Suit, Helmet, Hand Gloves, Face Shield/Google, Safety Shoe, Mask, Ear Plug etc.
11	Civil Construction	Boiler Suit, Helmet, Hand Gloves, Safety Shoe, Gum boots, Mask, Ear Plug etc.

4. Safety Guidelines:

4.1 Safety during Cutting & Welding:

- 4.1.1 Electrode Welding Holders, Gas Cutting Torches, Pressure Gauges, Welding Cables, Gouging torches, Gas Cutting Hoses etc. shall be of good quality confirming to relevant IS or EN standards with the relevant IS or EN stamping.
- 4.1.2 All welding and cutting operations must be carried out by qualified personnel while working inside the yard.
- 4.1.3 Welding machine should be properly earthed and secured.
- 4.1.4 Portable oven used on job should run with 110V power supply only.
- 4.1.5 Flash back arrestors shall be used for both on the cylinder/pipeline end as well as the cutting torch end. The flash back arrestor shall confirm to the relevant IS or EN standards with the relevant IS or EN stamping.
- 4.1.6 The Cylinders shall be kept upright during use and transportation. All industrial gas cylinders shall have Cylinder Cap/Guard for protection.
- 4.1.7 All Industrial gas cylinders shall be properly secured during use and storage.
- 4.1.8 When the cylinders are not in use, the valves must be closed. Prior to fitting the regulator, the valve should be opened slightly to blow away any dust or grit from the valve.
- 4.1.9 Metal wires shall not be used for connecting gas hoses with gas cutting torches, pressure gauges/regulators and for joining gas hoses with connectors.
- 4.1.10 The firm must ensure that the welding cables and gas hoses are well maintained and replaced if required.
- 4.1.11 All welding cables shall be fully insulated and periodically check for cuts and any damages.
- 4.1.12 Only Spark lights shall be used to ignite flame while using gas cutting/welding torches.



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- 4.1.13 All cutting equipment should be removed/shifted from compartments and confined spaces to open decks during breaks and at end of shift.
- 4.1.14 Gas hoses shall be disconnected from the manifold/cylinder after stoppage of work on the day.
- 4.1.15 All welding and cutting operations carried on in confined spaces shall be adequately ventilated to prevent the accumulation of toxic materials or possible oxygen deficiency.

4.2 Safety while Material Handling/Lifting and Turning:

- 4.2.1 All lifting slings/tackles/shackles shall be tested and certified with competent Authorities and shall be visually checked periodically for fitness for use.
- 4.2.2 All lifting equipment must be tested once in a year.
- 4.2.3 Use correct lifting hooks, ensure they are load tested.
- 4.2.4 Avoid manual handling operations as far as possible to minimize the risk of injury.
- 4.2.5 Position the lifting hook over the load as to prevent the load swinging when it is raised.
- 4.2.6 Ensure only competent persons are allowed to operate cranes.
- 4.2.7 Crane operators must only take Instruction from designated rigger.
- 4.2.8 Crane should not be left unattended unless all loads have been removed.
- 4.2.9 Leather gloves should be worn when working with sharp materials or when handling rigging equipment.
- 4.2.10 Crane/Rigging equipment shall not be loaded in excess of its recommended safe working load.
- 4.2.11 All employees shall be kept clear of loads about to be lifted and of suspended loads. No employee shall be allowed under a suspended load.
- 4.2.12 The proper methods of securing the load, attaching the load to the hook, lifting the load, handling of the load during the movement of the load and lowering and placement of load should be used.

4.3 Safety while working on height:

Working at height means working on 1.8 meters or above height (i.e. working on platform, stage, scaffolding).

- 4.3.1 Before starting work ensure that the supervisor is available at site and he has got the work permit issued by the authorised person.
- 4.3.2 Use a sufficient supply of sound staging material and appliances for the construction of scaffolding.
- 4.3.3 All planks and other materials intended to be used for staging shall be carefully examined before being taken into use.

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- 4.3.4 The Contractor shall ensure the use of sufficiently strong scaffolding with sufficiently strong hand railings during the execution of the job.
- 4.3.5 The Contractor shall ensure the use of scaffoldings at construction site by his personnel working at height, fabricated as per standard drawing for scaffolding. If the scaffolding as per the standard drawing is not found suitable at site, the Contractor shall make necessary modification to strengthen the same.
- 4.3.6 All planks forming staging shall be securely fastened to prevent them from slipping.
- 4.3.7 All staging to be used in connection with the operation shall be inspected before use, and thereafter at regular intervals.
- 4.3.8 There should not be any gaps in the working platform.
- 4.3.9 Stages suspended by ropes or chains shall be secured as far as possible to prevent them from swinging.
- 4.3.10 Hand rails with mid rails at one meter and half meter height should be ensured for the working platform.
- 4.3.11 Access ladders shall be provided to reach the working platform.
- 4.3.12 All ladders must be provided with non-skid shoes.
- 4.3.13 Regular inspection of scaffolding and staging are to be carried out.
- 4.3.14 While working on such job every workman must wear Full Body Safety Harness.
- 4.3.15 For any civil engineering job, the Contractor will provide adequate support before casting or any superstructure and provide approach, scaffolding etc., in such a manner that is safe, easy for movement of men, women and materials.

4.4 Hand Tools and Power Tools:

- 4.4.1 Tools shall be manufactured from the best materials by reputed tool companies with confirming to and stamped by the relevant Indian or International Standards e.g. IS, DIN, EN-ISO, ANSI and CE.
- 4.4.2 All power hand tool like grinder, weld flux remover etc. used onboard or inside the workshop must be run on either 110V power supply or by compressed air.
- 4.4.3 All compressed air hose must have standard hose coupling for fittings.
- 4.4.4 Compressed air tools, while under pressure, must not be left unattended.
- 4.4.5 All connections to air tools shall be made secure before turning on air pressure.
- 4.4.6 When working at elevated location, all tools should be placed in tool box to prevent loose tools being dropped from the heights.



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- 4.4.7 Wooden shaft must be of correct size and securely fixed to the hammer head with fitting wedges. The face of hammers should be kept clean and in good condition (Not mushroomed).
- 4.4.8 A file must be used with proper handle fitting and to maintain files when clogged with filings clean out the teeth with a file card or fine wire brush.
- 4.4.9 When using a screwdriver, make sure that the blade fits the slot in the screw properly. Too large or too small a blade will damage the screw and not work efficiently.
- 4.4.10 Select the correct hacksaws blades to carried out work and blade should always be correctly tensioned in the frame. After use when the hacksaw is to be stored, the tension on the blade should be released.
- 4.4.11 Always select a spanner which exactly fits the nut or bolt head, never use packing pieces to make the spanner fit. Piece of pipe or similar device must not be placed over the end of spanners as extensions to increase the torque.
- 4.4.12 All electrical hand tools shall be of double insulated and fiber body type.
- 4.4.13 The RPM of grinding machine should be lower than the RPM of the grinding disk/wheel.
- 4.4.14 Do not use a portable power tool (such as saw, grinder and drill) unless its dangerous parts have been effectively guarded.
- 4.4.15 Electrical tools shall not be used where there is hazard of flammable vapours, gases, or dusts without a valid Hot Work Permit.
- 4.4.16 Do not use compressed air/Oxygen to clean off overalls or clothing.

5. Electrical Safety:

- 5.1 The Contractor shall engage qualified, experienced and competent electricians and other electrical personnel while working on electrical lines (which may be High Tension, Medium Tension and Low Tension electrical lines) for safe execution of Contract.
- 5.2 The electricians and other electrical personnel must possess requisite certificate issued from competent authority.
- 5.3 The Contractor shall ensure proper earthing of all electrical equipment/machinery prior to start of the machine.
- 5.4 The Contractor shall also ensure daily examination of the earthing of equipment/machinery prior to start of the job in order to avoid electrical hazards.
- 5.5 The Contractor shall ensure use of proper cable (may be welding cable or power cable or control cable). The joints of the cables shall be perfectly insulated.
- 5.6 The Contractor shall also ensure the use of proper plugs & sockets.
- 5.7 Use of rubber hand gloves during monsoon season is very essential.
- 5.8 Repair and routine maintenance of electrical equipment shall be carried out by trained and qualified electricians.

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5.9 In case of Electrical work contract, the contractor shall have valid electrical License issued by PWD or any Govt. organization or shall have a valid MOU with the licensed contractor.

5.10 For onboard work, only 110V AC supply will be provided.

8. Safety while Working on Fragile Roof and Pitched Roof:

- 8.1 Do not step on any sheet without obtaining proper safety training.
- 8.2 Before starting work (i.e. before climbing on the access ladder) ensure that the supervisor is available at site and he has got the work permit issued by the authorised person.
- 8.3 Intimation shall be given to shop In-charge along with height permit, before going to roof of workshop.
- 8.4 Use suitable and sufficient access ladders, cat ladders, crawling boards, duck ladders etc. and fix them properly on the roof.
- 8.5 Use Full Body Safety Harness and anchor them properly with the anchorage points on the roof or to the lifeline available on roof or fall protection device.
- 8.6 Never step directly on any part of the roof. Always walk or step only on the ladders.
- 8.7 It is not safe anytime to walk on purlins. Do avoid it. Do not run on roof.
- 8.8 It is necessary to walk on ladders (and not on roof directly) while transporting these sheets on roof.
- 8.9 While working on the roof, ensure that no loose items are dropped down.
- 8.10 Always use suitable and strong ropes for taking sheets from ground to the roof.
- 8.11 Never leave any loose items (tools, cut sheets, broken sheets) on the roof after the work is over.
- 8.12 Never use any electrical equipment without proper earthing.
- 8.13 Ensure sufficient illumination while you are working on the fragile roof.

9. Safety while working in Confined Spaces:

- 9.1 Before starting work ensure that the supervisor is available at site and he has got the work permit issued by the authorised person.
- 9.2 Prepare adequate emergency arrangements before the work starts.
- 9.3 Testing the air is necessary to check before starting the work that it is free from both toxic and flammable gas/vapours and that it is fit to breathe. Testing should be carried out by a competent person using a suitable gas detector which is correctly calibrated.
- 9.4 Proper ventilation arrangement should be made before starting the work.
- 9.5 Adequate light arrangement should be available.
- 9.6 Use only 110V power supply while working in confined space.
- 9.7 When work is being carried out in a confined space, another person should be assigned to outside the confined space to maintain communication with the worker inside. Sufficient number of rescue personnel should also be made available outside the confined space. These persons need to be properly trained in rescues, physically fit and readily available to carry out rescue tasks, and capable of using any rescue tools.



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10. Safety while Blasting and Painting Operations:

- 10.1 Suitable blasting suits and hoods with coolant tube shall be used while carrying out blasting operations.
- 10.2 Immediate removal of spillage. Good housekeeping standards must be maintained at all times.
- 10.3 The contractor shall ensure that paint handed over to it for usage is safely stored in a suitable container.
- 10.4 Never allow Naked flames - matches - cigarettes -in the same area where paint is being applied or stored.
- 10.5 Airless spray must always be earthed as static electricity can develop within the system and be the cause of explosion.
- 10.6 All couplings must be of a close fit, especially on high pressure equipment. Replace damaged hoses.
- 10.7 The contractor shall ensure that its personnel have minimum contact of paint with skin.
- 10.8 Hand Gloves, Safety Shoes and eye protection must always be worn during work.
- 10.9 Usage of a suitable barrier cream on exposed skin must be considered.
- 10.10 Air fed hood/mask or respirator in confined spaces must be used.
- 10.11 Safe access and adequate lighting must be ensured.
- 10.12 Blasting proof, light and portable lamps shall be provided for the blasting operations inside of tanks and compartments.
- 10.13 The area where blasting or painting is being carried out must be provided with proper, visible safety barriers or signs.
- 10.14 Tarpaulins and other coverings should be used to cover dry dock channels / pump pits, compressor house, nearby electrical installation, machines and equipment which may otherwise be affected by blasting or painting operations.
- 10.15 Cleaning of the slipway, dry-dock, surrounding areas, machines and equipments, etc. of dust immediately after blasting has taken place.
- 10.16 Removal of spent/excess and reusable grits and empty paint drums.

11. Safety at Civil Construction Sites

- 11.1 The rock blaster should be a qualified and competent person for carrying out blasting work.
- 11.2 Before blasting, sufficient warning should be given to enable the people working in the area to get off the danger zone at least 10 minutes before the blasting starts.
- 11.3 Care should be taken that the blasting point is free of detonating gas, inflammable objects, sparking or damage wiring system, stray currents.
- 11.4 Underground utilities (such as water pipelines, sewers, gas mains, electrical conduit system) should be located and protected, wherever necessary, before the start of excavation.

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MAZAGON DOCK SHIPBUILDERS LIMITED, MUMBAI

Mazagon Dock Shipbuilders Limited		Title: Safety Instruction for Sub-Contractor		
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- 11.5 Measures should be taken to prevent persons who are not engaged in excavation work, from approaching excavation areas by placing warning signals, barricades etc. near the site of the excavation.
- 11.6 Excavated material should not be dumped within 1.5 m of the edges or half of the depth of the trench whichever is more.
- 11.7 Shoring (supporting the sides of the trench) and/or proper slopes to the trench walls should be provided.
- 11.8 Ladder access at suitable intervals with proper support in the trench should be provided and ladder should extend above the ground level.
- 11.9 Dewatering provisions should be considered while excavating a trench near a water body.
- 11.10 Temporary electrical connections provided in the trench area should be in compliance to the requirements of the Indian Electricity Act, Rules and Regulations.
- 11.11 Proper barricading of trenches with warning signals should be provided.
- 11.12 At all approaches and exits of the sites of excavations, danger and warning signals should be placed.
- 11.13 Excavation area should be adequately lighted for night work.
- 11.14 Test for oxygen level inside the shaft before start of work every day.
- 11.15 Effective communication system between the ground staff & the persons working in the shaft should always be there to ensure safe working environment.
- 11.16 The excavated material should be dumped sufficiently away from the edge of the excavated pit to avoid the excavated material slipping and falling into the pit.
- 11.17 Guard rails should be fitted to the working platform and should be secured to prevent their outward movement. The platform should be strong enough to bear the loads of workmen & materials.
- 11.18 Persons should not be allowed to work under the scaffold and if at all it is necessary to carry out work, then safety net should be provided to arrest the fall of materials & tools.
- 11.19 Safe access should be provided to the structures under erection.
- 11.20 Structures/ platforms should not have openings uncovered/unbarricaded.
- 11.21 Working under the structure should be prevented and if at all it is necessary to carry out work, then safety net should be used to arrest the fall of materials & tools.
- 11.22 In order to avoid the workers from being in contact with the moving parts of machinery such as conveyors, screens etc. machine guarding should be provided.
- 11.23 Health hazard from cement dust or wet cement should be controlled by avoiding engagement of workers in dusty areas and ensuring usage of PPEs especially filter respirators, goggles, gloves and boots.
- 11.24 When workmen are working/cleaning the inside of the drum of mixer, the power of mixer should be switched off and "Do not operate" tag should be provided.
- 11.25 Every opening in the floor of a building should be provided with suitable fencing/railing of one-meter height on all exposed sides with toe guard of 15 cm vertical height. Where barricades cannot be installed, safety net should be installed close to the level at which there is a danger of a fall.
- 11.26 All temporary wiring should be installed and supervised by a competent electrician.



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- 11.27 Adequate protection should be provided for all electrical wiring laid on floor which may be crossed over by construction machinery or by the workmen.
- 11.28 Suitable warning signs should remain displayed at conspicuous places to alert the workers of the potential dangers and to protect them from the risks of electrical accidents.
- 11.29 All necessary rescue equipment such as life buoys and life jackets should be provided and kept available for use at any time while working in and around water bodies.
- 11.30 Dispose all wastes, and unwanted materials must be disposed of at a designated place.
- 11.31 Do not leave planks with nails on passageways.

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Brief Scope of Work:

The Scope of Work is intended to cover the Survey of site, Design and Manufacture, testing at manufacturer's workshop, Packing & Forwarding, Unloading, dismantling of existing panels & switches, shifting of the new panels to the installation site, Installation, Testing and commissioning of separate 17 nos. **Power Distribution Panels with MCCBs, inbuilt TPN DBs containing MCBs in MDL.**

List of 17 nos. Power Distribution Panels are as follows,

- 1) Annex. Service Block Ground Floor North Side
- 2) Service Block Ground Floor South Side
- 3) Sb-Pipe Shop, Wall Side
- 4) Titanium Shop
- 5) Electrical Repair Shop (ERS)
- 6) Sb-Engineering Shop
- 7) Sheet Metal Shop(SMS)
- 8) Fitting Shop, Centre Panel
- 9) Fitting Shop, West Side Panel
- 10) North Side 1, New Assembly Shop NY
- 11) South Side, Assembly Shop NY
- 12) New Slipway South Side
- 13) P&O Substation, West Side
- 14) P&O Substation-East Side
- 15) Pipe Shop, Centre Area
- 16) Pipe Shop, Near Chain Centre
- 17) Diesel Repair Shop-Main Panel

Adish Kumar Yadav

P. K. X



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Scope of Work for Survey of site, Design and Manufacture, testing at manufacturer's workshop, Packing & Forwarding, Unloading, dismantling of existing panels & switches, shifting of the new panels to the installation site, Installation, Testing and commissioning of separate 17 nos. Power Distribution Panels with MCCBs, inbuilt TPN DBs containing MCBs in MDL.

Prepared By

Checked By

आशीष कुमार यादव
ASHISH KUMAR YADAV
सहायक प्रबंधक (ज. नि. - अनुरक्षण)
ASST. MANAGER (SB-MTC)
माझगांव डॉक शिपबिल्डर्स लिमिटेड
MAZAGON DOCK SHIPBUILDERS LIMITED

Ashish Kumar Yadav
AM(SB-Maintenance)

प्रेषित म. सावंत
PRESHIT M. SAWANT
मुख्य प्रबंधक (ज. नि. - अनुरक्षण)
CHIEF MANAGER (SB-MAINTENANCE)
माझगांव डॉक शिपबिल्डर्स लिमिटेड
MAZAGON DOCK SHIPBUILDERS LIMITED

P.M. Sawant
CM(SB-Maintenance)



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Brief Scope of Work

The Scope of Work is intended to cover the Survey of site, Design and Manufacture, testing at manufacturer's workshop, Packing & Forwarding, Unloading, dismantling of existing panels & switches, shifting of the new panels to the installation site, Installation, Testing and commissioning of separate **17 nos. Power Distribution Panels** 00000000000000000000 with **MCCBs**, inbuilt **TPN DBs containing MCBs in MDL**.

List of 17 nos. Power Distribution Panels are as follows,

- 1) Annex. Service Block Ground Floor North Side
- 2) Service Block Ground Floor South Side
- 3) Sb-Pipe Shop, Wall Side
- 4) Titanium Shop
- 5) Electrical Repair Shop (ERS)
- 6) Sb-Engineering Shop
- 7) Sheet Metal Shop(SMS)
- 8) Fitting Shop, Centre Panel
- 9) Fitting Shop, West Side Panel
- 10) North Side I, New Assembly Shop NY
- 11) South Side, Assembly Shop NY
- 12) New Slipway South Side
- 13) P&O Substation, West Side
- 14) P&O Substation-East Side
- 15) Pipe Shop, Centre Area
- 16) Pipe Shop, Near Chain Centre
- 17) Diesel Repair Shop-Main Panel

Note: The supplier shall survey the sites to understand the space constraints at the installation sites.

Sanjay Kumar Talwar

Tagor



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(A) Vendor's Scope includes the following activities

1. Intent of Specification

There are 17 nos of SFU (Switch Fuse Unit) type distribution panels installed in various locations of MDL workshop's and office buildings as mention in above. MDL has planned to replace these SFU type distribution panels with 4 pole, MCCB based LT distribution electrical panels equipped with latest technology.

All these panels are installed in different locations space available for these panels are limited. The design of the new panels shall be in such a way that the new panels should be installed in same space and location. The vendor will have to terminate all the incoming and outgoing cables with new panel. While cable termination vendor shall use proper gland and lugs as mention in this Scope of Work. Where ever required cable jointing for termination of cable vendor have to do proper cable joint for the same.

Note: The supplier shall visit / inspect the site before quoting and ensure that the offered panel can be accommodated in the available space. The firm shall submit the dimensional drawings of the distribution panel at the time of bidding itself.

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The detailed description of all 17 Nos of 4 pole, MCCB based LT distribution electrical panels are as follows -
PANEL NO. 1 (ANNEX. SERVICE BLOCK GROUND FLOOR NORTH SIDE)

Sr.no	I/C & O/G	Requirement	Current Capacity of MCCB	Qty (Nos)	Description of Connected Cable	Remark
1	I/C MCCB	415V AC, 4Pole 1000A, 50KA MCCB with MP(Microprocessor) based release, Protection Type-LS0IN (Low Side Over Current Protection) Ics=100%Icu, Adjustable Thermal Setting-0.7to1xIn, Adjustable Magnetic Setting-5to10xIr, Innovative Front Indication LED'S (Ready, Overload pre-alarm & Overload), earth fault protection, Adjustable Neutral Protection-N, N/2, OFF for 4Pole MCCB.	1000 A	1	1. 400Sqmm -1no 2. 95Sqmm -5nos 3. 50Sqmm -3nos 4. 16Sqmm -3nos 5. 240Sqmm -2no 6. 70Sqmm -1no 7. 35Sqmm -1no	The panels shall have Multi-Function Meter(MFM) which is enable to read Voltage, PF, Power, Energy, harmonics. The MFM should have RS485 Port.
2	O/G MCCB Type1	415V AC, 4Pole 200A, 50KA MCCB with MP(Microprocessor) based release, Protection Type-LS0IN (Low Side Over Current Protection) Ics=100%Icu, Adjustable Thermal Setting-0.7to1xIn, Adjustable Magnetic Setting-5to10xIr, Innovative Front Indication LED'S (Ready, Overload pre-alarm & Overload), earth fault protection, Adjustable Neutral Protection-N, N/2, OFF for 4Pole MCCB.	200 A	4		
3	O/G MCCB Type2	415V AC, 4Pole 100A, 50KA MCCB with MP(Microprocessor) based release, Protection Type-LS0IN (Low Side Over Current Protection) Ics=100%Icu, Adjustable Thermal Setting-0.7to1xIn, Adjustable Magnetic Setting-5to10xIr, Innovative Front Indication LED'S (Ready, Overload pre-alarm & Overload), earth fault protection, Adjustable Neutral Protection-N, N/2, OFF for 4Pole MCCB.	100 A	8		
4	O/G (MCB)TPN DB -1	415V AC, Vertical Three Phase Neutral with double Door Distribution Switch and 36 Nos of outgoing 4 pole modules (Capacity of Each Module should be 63 A).		1		These MCBs should be installed within the panel only. Transparent sheet should be provided in front door of TPN DB for visibility of MCB position.

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PANEL NO. 2 (SERVICE BLOCK GROUND FLOOR SOUTH SIDE)

Sr.no	I/C & O/G	Requirement	Current Capacity of MCCB	Qty (Nos)	Description of Connected Cable	Remark
1	I/C MCCB -1	415V AC, 4Pole 1000A, 50KA MCCB with MP(Microprocessor) based release, Protection Type-LS0IN (Low Side Over Current Protection) Ics=100%Icu, Adjustable Thermal Setting-0.7to1xIn, Adjustable Magnetic Setting-5to10xIr, Innovative Front Indication LED'S (Ready, Overload pre-alarm & Overload), earth fault protection, Adjustable Neutral Protection-N, N/2, OFF for 4Pole MCCB.	1000 A	1	1.400sqmm-1no 2.150Sqmm-1no 3.16Sqmm-1no 4.300Sqmm-1no 5.10Sqmm-1no 6.50Sqmm-3nos 7.95Sqmm-3nos	The panels shall have Multi-Function Meter(MFM) which is enable to read Voltage, PF, Power, Energy, harmonics. The MFM should have RS485 Port.
2	O/G MCCB 1	415V AC, 4Pole 200A, 50KA MCCB with MP(Microprocessor) based release, Protection Type-LS0IN (Low Side Over Current Protection) Ics=100%Icu, Adjustable Thermal Setting-0.7to1xIn, Adjustable Magnetic Setting-5to10xIr, Innovative Front Indication LED'S (Ready, Overload pre-alarm & Overload), earth fault protection, Adjustable Neutral Protection-N, N/2, OFF for 4Pole MCCB.	200 A	4	8.120Sqmm-3nos 9.35Sqmm-1no	
3	O/G MCCB 2	415V AC, 4Pole 100A, 50KA MCCB with MP(Microprocessor) based release, Protection Type-LS0IN (Low Side Over Current Protection) Ics=100%Icu, Adjustable Thermal Setting-0.7to1xIn, Adjustable Magnetic Setting-5to10xIr, Innovative Front Indication LED'S (Ready, Overload pre-alarm & Overload), earth fault protection, Adjustable Neutral Protection-N, N/2, OFF for 4Pole MCCB.	100 A	8		
4	O/G (MCB)TPN DB -1	415V AC, Vertical Three Phase Neutral with double Door Distribution Switch and 36 Nos of outgoing 4 pole modules (Capacity of Each Module should be 63 A).		1		These MCBs should be installed within the panel only. Transparent sheet should be provided in front door of TPN DB for visibility of MCB position.

*Ashish Kumar Yadav**Praveen*

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PANEL NO. 3 (SB-PIPE SHOP, WALL SIDE)

Sr. no	I/C & O/G	Requirement	Current Capacity of MCCB	Qty (Nos)	Description of Connected Cable	Remark
1	I/G MCCB	415V AC, 4Pole 800A, 50KA MCCB with MP(Microprocessor) based release, Protection Type-LS0IN (Low Side Over Current Protection) Ics=100%Icu, Adjustable Thermal Setting-0.7to1xIn, Adjustable Magnetic Setting-5to10xIr, Innovative Front Indication LED'S (Ready, Overload pre-alarm & Overload), earth fault protection, Adjustable Neutral Protection-N, N/2, OFF for 4Pole MCCB.	800 A	1	1.300 Sqmm-1no 2.50 Sqmm-1no 3.240 Sqmm-1no 4.95 Sqmm-1no 5.50 Sqmm-1no 6.95 Sqmm-1no 7.120 Sqmm-2no	The panels shall have Multi-Function Meter(MFM) which is enable to read Voltage, PF, Power, Energy, harmonics. The MFM should have RS485 Port.
2	O/G MCCB Type1	415V AC, 4Pole 200A, 50KA MCCB with MP(Microprocessor) based release, Protection Type-LS0IN (Low Side Over Current Protection) Ics=100%Icu, Adjustable Thermal Setting-0.7to1xIn, Adjustable Magnetic Setting-5to10xIr, Innovative Front Indication LED'S (Ready, Overload pre-alarm & Overload), earth fault protection, Adjustable Neutral Protection-N, N/2, OFF for 4Pole MCCB.	200 A	3		
3	O/G MCCB Type2	415V AC, 4Pole 100A, 50KA MCCB with MP(Microprocessor) based release, Protection Type-LS0IN (Low Side Over Current Protection) Ics=100%Icu, Adjustable Thermal Setting-0.7to1xIn, Adjustable Magnetic Setting-5to10xIr, Innovative Front Indication LED'S (Ready, Overload pre-alarm & Overload), earth fault protection, Adjustable Neutral Protection-N, N/2, OFF for 4Pole MCCB.	100 A	7		
4	O/G (MCB)TPN DB	415V AC, Vertical Three Phase Neutral with double Door Distribution Switch and 36 Nos of outgoing 4 pole modules (Capacity of Each Module should be 63 A).		1		These MCBs should be installed within the panel only. Transparent sheet should be provided in front door of TPN DB for visibility of MCB position.

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PANEL NO. 4 (TITANIUM SHOP)

Sr.no	I/C & O/G	Requirement	Current Capacity of MCCB	Qty (Nos)	Description of Connected Cable	Remark
1	I/C MCCB	415V AC, 4Pole 600A, 50KA MCCB with MP(Microprocessor) based release, Protection Type-LS0IN (Low Side Over Current Protection) Ics=100%Icu, Adjustable Thermal Setting-0.7to1xIn, Adjustable Magnetic Setting-5to10xIr, Innovative Front Indication LED'S (Ready, Overload pre-alarm & Overload), earth fault protection, Adjustable Neutral Protection-N, N/2, OFF for 4Pole MCCB.	600 A	1	1. 185 Sqmm-2nos 2. 50 Sqmm -1no 3. 35 Sqmm-2no 4. 16 Sqmm-4nos 5. 95 Sqmm-2no 6. 120 Sqmm-1no	The panels shall have Multi-Function Meter(MFM) which is enable to read Voltage, PF, Power, Energy, harmonics. The MFM should have RS485 Port.
2	O/G MCCB Type1	415V AC, 4Pole 200A, 50KA MCCB with MP(Microprocessor) based release, Protection Type-LS0IN (Low Side Over Current Protection) Ics=100%Icu, Adjustable Thermal Setting-0.7to1xIn, Adjustable Magnetic Setting-5to10xIr, Innovative Front Indication LED'S (Ready, Overload pre-alarm & Overload), earth fault protection, Adjustable Neutral Protection-N, N/2, OFF for 4Pole MCCB.	200 A	3		
3	O/G MCCB Type2	415V AC4Pole 100A, 50KA MCCB with MP(Microprocessor) based release, Protection Type-LS0IN (Low Side Over Current Protection) Ics=100%Icu, Adjustable Thermal Setting-0.7to1xIn, Adjustable Magnetic Setting-5to10xIr, Innovative Front Indication LED'S (Ready, Overload pre-alarm & Overload), earth fault protection, Adjustable Neutral Protection-N, N/2, OFF for 4Pole MCCB.	100 A	5		
4	O/G (MCB)TPN DB	415V AC, Vertical Three Phase Neutral with double Door Distribution Switch and 36 Nos of outgoing 4 pole modules (Capacity of Each Module should be 63 A).		1		These MCBs should be installed within the panel only. Transparent sheet should be provided in front door of TPN DB for visibility of MCB position.

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PANEL NO. 5 (ELECTRICAL REPAIR SHOP (ERS))

Sr.no	I/C & O/G	Requirement	Current Capacity of MCCB	Qty (Nos)	Description of Connected Cable	Remark
1	I/C MCCB -1	415V AC4Pole 1000A, 50KA MCCB with MP(Microprocessor) based release, Protection Type-LS01N (Low Side Over Current Protection) Ics=100%Icu, Adjustable Thermal Setting-0.7to1xIn, Adjustable Magnetic Setting-5to10xIr, Innovative Front Indication LED'S (Ready, Overload pre-alarm & Overload), earth fault protection, Adjustable Neutral Protection-N, N/2, OFF for 4Pole MCCB.	1000 A	1	1.400Sqmm-2nos 2.120 Sqmm-1no 3.95 Sqmm-2no 4.240 Sqmm-4no	The panels shall have Multi-Function Meter(MFM) which is enable to read Voltage, PF, Power, Energy, harmonics. The MFM should have RS485 Port.
2	O/G MCCB Type1	415V AC, 4Pole 200A, 50KA MCCB with MP(Microprocessor) based release, Protection Type-LS01N (Low Side Over Current Protection) Ics=100%Icu, Adjustable Thermal Setting-0.7to1xIn, Adjustable Magnetic Setting-5to10xIr, Innovative Front Indication LED'S (Ready, Overload pre-alarm & Overload), earth fault protection, Adjustable Neutral Protection-N, N/2, OFF for 4Pole MCCB.	200 A	4		
3	O/G MCCB Type2	415V AC, 4Pole 100A, 50KA MCCB with MP(Microprocessor) based release, Protection Type-LS01N (Low Side Over Current Protection) Ics=100%Icu, Adjustable Thermal Setting-0.7to1xIn, Adjustable Magnetic Setting-5to10xIr, Innovative Front Indication LED'S (Ready, Overload pre-alarm & Overload), earth fault protection, Adjustable Neutral Protection-N, N/2, OFF for 4Pole MCCB.	100 A	6		

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PANEL NO. 6 (SB-ENGINEERING SHOP)

Sr.no	I/C & O/G	Requirement	Current Capacity of MCCB	Qty (Nos)	Description of Connected Cable	Remark
1	I/C MCCB -1	415V AC, 4 Pole, 800 A, 4Pole 50KA MCCB with MP(Microprocessor) based release, Protection Type-LS0IN (Low Side Over Current Protection) Ics=100%Icu, Adjustable Thermal Setting-0.7to1xIn, Adjustable Magnetic Setting-5to10xIr, Innovative Front Indication LED'S (Ready, Overload pre-alarm & Overload), earth fault protection, Adjustable Neutral Protection-N, N/2, OFF for 4Pole MCCB.	800 A	1	1.400Sqmm-1no 2.120Sqmm-1no 3.16Sqmm-2no 4.35Sqmm-2no 5.50Sqmm-1no 6.120sqm-1no 7.95Sqmm-1no	The panels shall have Multi-Function Meter(MFM) which is enable to read Voltage, PF, Power, Energy, harmonics. The MFM should have RS485 Port.
2	O/G MCCB Type1	415V AC, 4 Pole, 200, 4Pole 50KA MCCB with MP(Microprocessor) based release, Protection Type-LS0IN (Low Side Over Current Protection) Ics=100%Icu, Adjustable Thermal Setting-0.7to1xIn, Adjustable Magnetic Setting-5to10xIr, Innovative Front Indication LED'S (Ready, Overload pre-alarm & Overload), earth fault protection, Adjustable Neutral Protection-N, N/2, OFF for 4Pole MCCB...	200 A	4		
3	O/G MCCB Type2	415V AC, 4 Pole, 100, 4Pole 50KA MCCB with MP(Microprocessor) based release, Protection Type-LS0IN (Low Side Over Current Protection) Ics=100%Icu, Adjustable Thermal Setting-0.7to1xIn, Adjustable Magnetic Setting-5to10xIr, Innovative Front Indication LED'S (Ready, Overload pre-alarm & Overload), earth fault protection, Adjustable Neutral Protection-N, N/2, OFF for 4Pole MCCB..	100 A	5		
4	O/G (MCB)TPN DB -1	415V AC, Vertical Three Phase Neutral with double Door Distribution Switch and 36 Nos of outgoing 4 pole modules (Capacity of Each Module should be 63 A).		1		These MCBs should be installed within the panel only. Transparent sheet should be provided in front door of TPN DB for visibility of MCB position.

*Arshith Kumar Yalavar**Amf*



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PANEL NO. 7 (SHEET METAL SHOP)

Sr.no	I/C & O/G	Requirement	Current Capacity of MCCB	Qty (Nos)	Description of Connected Cable	Remark
1	I/C MCCB -1	415V AC, 4 Pole, 1000 A, 50KA MCCB with MP(Microprocessor) based release, Protection Type-LS0IN (Low Side Over Current Protection) Ics=100%Icu, Adjustable Thermal Setting-0.7to1xIn, Adjustable Magnetic Setting-5to10xIr, Innovative Front Indication LED'S (Ready, Overload pre-alarm & Overload), earth fault protection, Adjustable Neutral Protection-N, N/2, OFF for 4Pole MCCB.	1000 A	1	1. 400 Sqmm-2no 2. 95 Sqmm-2no 3. 240 Sqmm-2no 4. 150 Sqmm-4no 5. 70Sqmm- 4no 6. 15 Sqmm-1no 7. 1no Cable for O/G DBs	The panels shall have Multi-Function Meter(MFM) which is enable to read Voltage, PF, Power, Energy, harmonics. The MFM should have RS485 Port.
2	O/G MCCB Type 1	415V AC, 4 Pole, 200 A, 50KA MCCB with MP(Microprocessor) based release, Protection Type-LS0IN (Low Side Over Current Protection) Ics=100%Icu, Adjustable Thermal Setting-0.7to1xIn, Adjustable Magnetic Setting-5to10xIr, Innovative Front Indication LED'S (Ready, Overload pre-alarm & Overload), earth fault protection, Adjustable Neutral Protection-N, N/2, OFF for 4Pole MCCB.	200 A	4		
3	O/G MCCB Type2	415V AC, 4 Pole, 100 A, 50KA MCCB with MP(Microprocessor) based release, Protection Type-LS0IN (Low Side Over Current Protection) Ics=100%Icu, Adjustable Thermal Setting-0.7to1xIn, Adjustable Magnetic Setting-5to10xIr, Innovative Front Indication LED'S (Ready, Overload pre-alarm & Overload), earth fault protection, Adjustable Neutral Protection-N, N/2, OFF for 4Pole MCCB.	100 A	4		
4	O/G (MCB)TPN DB -1	415V AC, Vertical Three Phase Neutral with double Door Distribution Switch and 36 Nos of outgoing 4 pole modules (Capacity of Each Module should be 63 A).		1		These MCBs should be installed within the panel only. Transparent sheet should be provided in front door of TPN DB for visibility of MCB position.

Arish Kumar Yada

Prashant



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PANEL NO. 8 (FITTING SHOP, CENTER PANEL)

Sr.no	I/C & O/G	Requirement	Current Capacity of MCCB	Qty (Nos)	Description of Connected Cable	Remark
1	I/C MCCB -1	415V AC, 4 Pole, 800 A, 50KA MCCB with MP(Microprocessor) based release, Protection Type-LS0IN (Low Side Over Current Protection) Ics=100%Icu, Adjustable Thermal Setting-0.7to1xIn, Adjustable Magnetic Setting-5to10xIr, Innovative Front Indication LED'S (Ready, Overload pre-alarm & Overload), earth fault protection, Adjustable Neutral Protection-N, N/2, OFF for 4Pole MCCB.	800 A	1	1. 120 Sqmm-2no 2. 70 Sqmm-3no 3. 50 Sqmm-7no	The panels shall have Multi-Function Meter(MFM) which is enable to read Voltage, PF, Power, Energy, harmonics. The MFM should have RS485 Port.
2	O/G MCCB 1	415V AC, 4 Pole, 200 A, 50KA MCCB with MP(Microprocessor) based release, Protection Type-LS0IN (Low Side Over Current Protection) Ics=100%Icu, Adjustable Thermal Setting-0.7to1xIn, Adjustable Magnetic Setting-5to10xIr, Innovative Front Indication LED'S (Ready, Overload pre-alarm & Overload), earth fault protection, Adjustable Neutral Protection-N, N/2, OFF for 4Pole MCCB.	200 A	3		
3	O/G MCCB 3	415V AC, 4 Pole, 100 A, 50KA MCCB with MP(Microprocessor) based release, Protection Type-LS0IN (Low Side Over Current Protection) Ics=100%Icu, Adjustable Thermal Setting-0.7to1xIn, Adjustable Magnetic Setting-5to10xIr, Innovative Front Indication LED'S (Ready, Overload pre-alarm & Overload), earth fault protection, Adjustable Neutral Protection-N, N/2, OFF for 4Pole MCCB.	100 A	5		

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PANEL NO. 9 (FITTING SHOP, WEST SIDE PANEL)

Sr.no	I/C & O/G	Requirement	Current Capacity of MCCB	Qty (Nos)	Description of Connected Cable	Remark
1	I/C MCCB -1	415V AC, 4 Pole, 800 A, 50KA MCCB with MP(Microprocessor) based release, Protection Type-LS0IN (Low Side Over Current Protection) Ics=100%Icu, Adjustable Thermal Setting-0.7to1xIn, Adjustable Magnetic Setting-5to10xIr, Innovative Front Indication LED'S (Ready, Overload pre-alarm & Overload), earth fault protection, Adjustable Neutral Protection-N, N/2, OFF for 4Pole MCCB.	800 A	1	1.240 Sqmm-1no 2.70 Sqmm-3no 3.95 Sqmm-3no	The panels shall have Multi-Function Meter(MFM) which is enable to read Voltage, PF, Power, Energy, harmonics. The MFM should have RS485 Port.
2	O/G MCCB Type 1	415V AC, 4 Pole, 200 A, 50KA MCCB with MP(Microprocessor) based release, Protection Type-LS0IN (Low Side Over Current Protection) Ics=100%Icu, Adjustable Thermal Setting-0.7to1xIn, Adjustable Magnetic Setting-5to10xIr, Innovative Front Indication LED'S (Ready, Overload pre-alarm & Overload), earth fault protection, Adjustable Neutral Protection-N, N/2, OFF for 4Pole MCCB.	200 A	3		
3	O/G MCCB Type 2	415V AC, 4 Pole, 100 A, 50KA MCCB with MP(Microprocessor) based release, Protection Type-LS0IN (Low Side Over Current Protection) Ics=100%Icu, Adjustable Thermal Setting-0.7to1xIn, Adjustable Magnetic Setting-5to10xIr, Innovative Front Indication LED'S (Ready, Overload pre-alarm & Overload), earth fault protection, Adjustable Neutral Protection-N, N/2, OFF for 4Pole MCCB.	100 A	5		



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PANEL NO. 10 (NORTH SIDE 1, NEW ASSEMBLY SHOP NY)

Sr.no	I/C & O/G	Requirement	Current Capacity of MCCB	Qty (nos)	Description of Connected Cable	Remark
1	I/C MCCB -1	415V AC, 4 Pole, 1000 A, 50KA MCCB with MP(Microprocessor) based release, Protection Type-LS0IN (Low Side Over Current Protection) Ics=100%Icu, Adjustable Thermal Setting-0.7to1xIn, Adjustable Magnetic Setting-5to10xIr, Innovative Front Indication LED'S (Ready, Overload pre-alarm & Overload), earth fault protection, Adjustable Neutral Protection-N, N/2, OFF for 4Pole MCCB.	1000 A	1	1. 400 Sqmm -2nos 2. 300Sqmm-2nos 3. 150Sqmm-1nos 4. 185Sqmm-2nos 5. 240Sqmm-4no 6. 95Sqmm-1	The panels shall have Multi-Function Meter(MFM) which is enable to read Voltage, PF, Power, Energy, harmonics. The MFM should have RS485 Port.
2	O/G MCCB 1	415V AC, 4 Pole, 200 A, 50KA MCCB with MP(Microprocessor) based release, Protection Type-LS0IN (Low Side Over Current Protection) Ics=100%Icu, Adjustable Thermal Setting-0.7to1xIn, Adjustable Magnetic Setting-5to10xIr, Innovative Front Indication LED'S (Ready, Overload pre-alarm & Overload), earth fault protection, Adjustable Neutral Protection-N, N/2, OFF for 4Pole MCCB.	200 A	5		
3	O/G MCCB 4	415V AC, 4 Pole, 100 A, 50KA MCCB with MP(Microprocessor) based release, Protection Type-LS0IN (Low Side Over Current Protection) Ics=100%Icu, Adjustable Thermal Setting-0.7to1xIn, Adjustable Magnetic Setting-5to10xIr, Innovative Front Indication LED'S (Ready, Overload pre-alarm & Overload), earth fault protection, Adjustable Neutral Protection-N, N/2, OFF for 4Pole MCCB.	100 A	4		
4	O/G (MCB)TPN DB -1	415V AC, Vertical Three Phase Neutral with double Door Distribution Switch and 36 Nos of outgoing 4 pole modules (Capacity of Each Module should be 63 A).		2		These MCBs should be installed within the panel only. Transparent sheet should be provided in front door of TPN DB for visibility of MCB position.

[Signature]

Ashish Kumar Kalra

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PANEL NO. 11 (SOUTH SIDE, ASSEMBLY SHOP NY)

Sr.no	I/C & O/G	Requirement	Current Capacit y of MCCB	Qty (Nos)	Description of Connected Cable	Remark
1	I/C MCCB -1	415V AC, 4 Pole, 1000 A, 50KA MCCB with MP(Microprocessor) based release, Protection Type-LS0IN (Low Side Over Current Protection) Ics=100%Icu, Adjustable Thermal Setting-0.7to1xIn, Adjustable Magnetic Setting-5to10xIr, Innovative Front Indication LED'S (Ready, Overload pre-alarm & Overload), earth fault protection, Adjustable Neutral Protection-N, N/2, OFF for 4Pole MCCB.	1000 A	1	1. 400Sqmm-2Nos 2. 150Sqmm-1Nos 3. 240Sqmm-5Nos 4. 95Sqmm-1Nos	The panels shall have Multi-Function Meter(MFM) which is enable to read Voltage, PF, Power, Energy, harmonics. The MFM should have RS485 Port.
2	O/G MCCB Type 1	415V AC, 4 Pole, 200 A, 50KA MCCB with MP(Microprocessor) based release, Protection Type-LS0IN (Low Side Over Current Protection) Ics=100%Icu, Adjustable Thermal Setting-0.7to1xIn, Adjustable Magnetic Setting-5to10xIr, Innovative Front Indication LED'S (Ready, Overload pre-alarm & Overload), earth fault protection, Adjustable Neutral Protection-N, N/2, OFF for 4Pole MCCB.	200 A	4		
3	O/G MCCB Type 2	415V AC, 4 Pole, 100 A, 50KA MCCB with MP(Microprocessor) based release, Protection Type-LS0IN (Low Side Over Current Protection) Ics=100%Icu, Adjustable Thermal Setting-0.7to1xIn, Adjustable Magnetic Setting-5to10xIr, Innovative Front Indication LED'S (Ready, Overload pre-alarm & Overload), earth fault protection, Adjustable Neutral Protection-N, N/2, OFF for 4Pole MCCB.	100 A	5		
4	O/G (MCB)TPN DB -1	415V AC, Vertical Three Phase Neutral with double Door Distribution Switch and 36 Nos of outgoing 4 pole modules (Capacity of Each Module should be 63 A).		1		These MCBs should be installed within the panel only. Transparent sheet should be provided in front door of TPN DB for visibility of MCB position.

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PANEL NO. 12 (NEW SLIPWAY SOUTH SIDE)

Sr.no	I/C & O/G	Requirement	Current Capacity of MCCB	Qty (Nos)	Description of Connected Cable	Remark
1	I/C MCCB - i	415V AC, 4 Pole, 1000 A, 50KA MCCB with MP(Microprocessor) based release, Protection Type-LS0IN (Low Side Over Current Protection) Ics=100%Icu, Adjustable Thermal Setting-0.7to1xIn, Adjustable Magnetic Setting-5to10xIr, Innovative Front Indication LED'S (Ready, Overload pre-alarm & Overload), earth fault protection, Adjustable Neutral Protection-N, N/2, OFF for 4Pole MCCB.	1000 A	1	1. 400Sqmm-2no 2. 300Sqmm-4no 3. 120Sqmm-1no 4. 185Sqmm-1no	The panels shall have Multi-Function Meter(MFM) which is enable to read Voltage, PF, Power, Energy, harmonics. The MFM should have RS485 Port.
2	O/G MCCB Type 1	415V AC, 4 Pole, 200 A, 50KA MCCB with MP(Microprocessor) based release, Protection Type-LS0IN (Low Side Over Current Protection) Ics=100%Icu, Adjustable Thermal Setting-0.7to1xIn, Adjustable Magnetic Setting-5to10xIr, Innovative Front Indication LED'S (Ready, Overload pre-alarm & Overload), earth fault protection, Adjustable Neutral Protection-N, N/2, OFF for 4Pole MCCB.	200 A	3		
3	O/G MCCB Type2	415V AC, 4 Pole, 100 A, 50KA MCCB with MP(Microprocessor) based release, Protection Type-LS0IN (Low Side Over Current Protection) Ics=100%Icu, Adjustable Thermal Setting-0.7to1xIn, Adjustable Magnetic Setting-5to10xIr, Innovative Front Indication LED'S (Ready, Overload pre-alarm & Overload), earth fault protection, Adjustable Neutral Protection-N, N/2, OFF for 4Pole MCCB.	100 A	5		

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PANEL NO. 13 (P&O SUBSTATION, WEST SIDE)

Sr.no	I/C & O/G	Requirement	Current Capacity of MCCB	Qty (Nos)	Description of Connected Cable	Remark
1	I/C MCCB -1	415V AC, 4 Pole, 800 A, 50KA MCCB with MP(Microprocessor) based release, Protection Type-LS0IN (Low Side Over Current Protection) Ics=100%Icu, Adjustable Thermal Setting-0.7to1xIn, Adjustable Magnetic Setting-5to10xIr, Innovative Front Indication LED'S (Ready, Overload pre-alarm & Overload), earth fault protection, Adjustable Neutral Protection-N, N/2, OFF for 4Pole MCCB.	800 A	1	1.300Sqmm-2no 2.120Sqmm-1no 3.95Sqmm-4no 4.16Sqmm-2no	The panels shall have Multi-Function Meter(MFM) which is enable to read Voltage, PF, Power, Energy, harmonics. The MFM should have RS485 Port.
2	O/G MCCB 1	415V AC, 4 Pole, 200 A, 50KA MCCB with MP(Microprocessor) based release, Protection Type-LS0IN (Low Side Over Current Protection) Ics=100%Icu, Adjustable Thermal Setting-0.7to1xIn, Adjustable Magnetic Setting-5to10xIr, Innovative Front Indication LED'S (Ready, Overload pre-alarm & Overload), earth fault protection, Adjustable Neutral Protection-N, N/2, OFF for 4Pole MCCB.	200 A	4		
3	O/G MCCB 4	415V AC, 4 Pole, 100 A, 50KA MCCB with MP(Microprocessor) based release, Protection Type-LS0IN (Low Side Over Current Protection) Ics=100%Icu, Adjustable Thermal Setting-0.7to1xIn, Adjustable Magnetic Setting-5to10xIr, Innovative Front Indication LED'S (Ready, Overload pre-alarm & Overload), earth fault protection, Adjustable Neutral Protection-N, N/2, OFF for 4Pole MCCB.	100 A	5		
4	O/G (MCB)TPN DB -1	415V AC, Vertical Three Phase Neutral with double Door Distribution Switch and 36 Nos of outgoing 4 pole modules (Capacity of Each Module should be 63 A).		1		These MCBs should be installed within the panel only. Transparent sheet should be provided in front door of TPN DB for visibility of MCB position.

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PANEL NO. 14 (P&O SUBSTATION-EAST SIDE)

Sr.no	I/C & O/G	Requirement	Current Capacity of MCCB	Qty (Nos)	Description of Connected Cable	Remark
1	I/C MCCB -1	415V AC, 4 Pole, 800 A, 50KA MCCB with MP(Microprocessor) based release, Protection Type-LSOIN (Low Side Over Current Protection) Ics=100%Icu, Adjustable Thermal Setting-0.7to1xIn, Adjustable Magnetic Setting-5to10xIr, Innovative Front Indication LED'S (Ready, Overload pre-alarm & Overload), earth fault protection, Adjustable Neutral Protection-N, N/2, OFF for 4Pole MCCB.	800 A	1	1. 300Sqmm-2no 2. 95sqmm-1no 3. 50sqmm-1no 4. 95Sqmm-6no	The panels shall have Multi-Function Meter(MFM) which is enable to read Voltage, PF, Power, Energy, harmonics. The MFM should have RS485 Port.
2	O/G MCCB 1	415V AC, 4 Pole, 200 A, 50KA MCCB with MP(Microprocessor) based release, Protection Type-LSOIN (Low Side Over Current Protection) Ics=100%Icu, Adjustable Thermal Setting-0.7to1xIn, Adjustable Magnetic Setting-5to10xIr, Innovative Front Indication LED'S (Ready, Overload pre-alarm & Overload), Adjustable Neutral Protection-N, N/2, OFF for 4Pole MCCB..	200 A	3		
3	O/G MCCB 4	415V AC, 4 Pole, 100 A, 50KA MCCB with MP(Microprocessor) based release, Protection Type-LSOIN (Low Side Over Current Protection) Ics=100%Icu, Adjustable Thermal Setting-0.7to1xIn, Adjustable Magnetic Setting-5to10xIr, Innovative Front Indication LED'S (Ready, Overload pre-alarm & Overload), earth fault protection, Adjustable Neutral Protection-N, N/2, OFF for 4Pole MCCB.	100 A	6		
4	O/G (MCB)TPN DB -1	415V AC, Vertical Three Phase Neutral with double Door Distribution Switch and 36 Nos of outgoing 4 pole modules (Capacity of Each Module should be 63 A).		1		These MCBs should be installed within the panel only. Transparent sheet should be provided in front door of TPN DB for visibility of MCB position.

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PANEL NO. 15 (PIPE SHOP, CENTER AREA)

Sr. no	I/C & O/G	Requirement	Current Capacity of MCCB	Qty (Nos)	Description of Connected Cable	Remark
1	I/C MCCB - 1	415V AC, 4 Pole, 1000 A, 50KA MCCB with MP(Microprocessor) based release, Protection Type-LS0IN (Low Side Over Current Protection) Ics=100%Icu, Adjustable Thermal Setting-0.7to1xIn, Adjustable Magnetic Setting-5to10xIr, Innovative Front Indication LED'S (Ready, Overload pre-alarm & Overload), earth fault protection, Adjustable Neutral Protection-N, N/2, OFF for 4Pole MCCB.	1000 A	1	1.400Sqmm-1no 2.240Sqmm-1no 3.95Sqmm-1no 4.70Sqmm-1no 5.35Sqmm-1no 6.300Sqmm-1no 7.240Sqmm-2nos	The panels shall have Multi-Function Meter(MFM) which is enable to read Voltage, PF, Power, Energy, harmonics. The MFM should have RS485 Port.
2	O/G MCCB 1	415V AC, 4 Pole, 400 A ,50KA MCCB with MP(Microprocessor) based release, Protection Type-LS0IN (Low Side Over Current Protection) Ics=100%Icu, Adjustable Thermal Setting-0.7to1xIn, Adjustable Magnetic Setting-5to10xIr, Innovative Front Indication LED'S (Ready, Overload pre-alarm & Overload), earth fault protection, Adjustable Neutral Protection-N, N/2, OFF for 4Pole MCCB.	400 A	1		
3	O/G MCCB 2	415V AC, 4 Pole, 200 A, 50KA MCCB with MP(Microprocessor) based release, Protection Type-LS0IN (Low Side Over Current Protection) Ics=100%Icu, Adjustable Thermal Setting-0.7to1xIn, Adjustable Magnetic Setting-5to10xIr, Innovative Front Indication LED'S (Ready, Overload pre-alarm & Overload), earth fault protection, Adjustable Neutral Protection-N, N/2, OFF for 4Pole MCCB.	200 A	4		
4	O/G MCCB 3	415V AC, 4 Pole, 100 A, 50KA MCCB with MP(Microprocessor) based release, Protection Type-LS0IN (Low Side Over Current Protection) Ics=100%Icu, Adjustable Thermal Setting-0.7to1xIn, Adjustable Magnetic Setting-5to10xIr, Innovative Front Indication LED'S (Ready, Overload pre-alarm & Overload), earth fault protection, Adjustable Neutral Protection-N, N/2, OFF for 4Pole MCCB.	100 A	4		
5	O/G (MCB) TPN DB -1	415V AC, Vertical Three Phase Neutral with double Door Distribution Switch and 36 Nos of outgoing 4 pole modules (Capacity of Each Module should be 63 A).		1		These MCBs should be installed within the panel only. Transparent sheet should be provided in front door of TPN DB for visibility of MCB position.

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PANEL NO. 16 (PIPE SHOP, NEAR CHAIN CENTER)

Sr.no	I/C & O/G	Requirement	Current Capacity of MCCB	Qty (Nos)	Description of Connected Cable	Remark
1	I/C MCCB -1	415V AC, 4 Pole, 600 A, 50KA MCCB with MP(Microprocessor) based release, Protection Type-LS0IN (Low Side Over Current Protection) Ics=100%Icu, Adjustable Thermal Setting-0.7to1xIn, Adjustable Magnetic Setting-5to10xIr, Innovative Front Indication LED'S (Ready, Overload pre-alarm & Overload), earth fault protection, Adjustable Neutral Protection-N, N/2, OFF for 4Pole MCCB..	600 A	1	1.95Sqmm-1no 2.35Sqmm-1no 3.35Sqmm-1no 4.95Sqmm-1no	The panels shall have Multi-Function Meter(MFM) which is enable to read Voltage, PF, Power, Energy, harmonics. The MFM should have RS485 Port.
2	O/G MCCB Type1	415V AC, 4 Pole, 200 A, 50KA MCCB with MP(Microprocessor) based release, Protection Type-LS0IN (Low Side Over Current Protection) Ics=100%Icu, Adjustable Thermal Setting-0.7to1xIn, Adjustable Magnetic Setting-5to10xIr, Innovative Front Indication LED'S (Ready, Overload pre-alarm & Overload), earth fault protection, Adjustable Neutral Protection-N, N/2, OFF for 4Pole MCCB.	200 A	2		
3	O/G MCCB Type 2	415V AC, 4 Pole, 100 A, 50KA MCCB with MP(Microprocessor) based release, Protection Type-LS0IN (Low Side Over Current Protection) Ics=100%Icu, Adjustable Thermal Setting-0.7to1xIn, Adjustable Magnetic Setting-5to10xIr, Innovative Front Indication LED'S (Ready, Overload pre-alarm & Overload), earth fault protection, Adjustable Neutral Protection-N, N/2, OFF for 4Pole MCCB.	100 A	4		
4	O/G (MCB)TPN DB -1	415V AC, Vertical Three Phase Neutral with double Door Distribution Switch and 36 Nos of outgoing 4 pole modules (Capacity of Each Module should be 63 A).		1		These MCBs should be installed within the panel only. Transparent sheet should be provided in front door of TPN DB for visibility of MCB position.

*Shrikumar Yekar**Rich*



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Panel no. 17 (DIESEL REPAIR SHOP-MAIN PANEL)

Sr.no	I/C & O/G	Requirement	Current Capacity of MCCB	Qty (Nos)	Description of Connected Cable	Remark
1	I/C MCCB -1	415V AC, 4 Pole, 800 A, 50KA MCCB with MP(Microprocessor) based release, Protection Type-LS0IN (Low Side Over Current Protection) Ics=100%Icu, Adjustable Thermal Setting-0.7to1xIn, Adjustable Magnetic Setting-5to10xIr, Innovative Front Indication LED'S (Ready, Overload pre-alarm & Overload), earth fault protection, Adjustable Neutral Protection-N, N/2, OFF for 4Pole MCCB.	800 A	1	1.300Sqmm-1no 2.95Sqmm-2no 3.95Sqmm-3no 4.120Sqmm-2no 5.35Sqmm-4no	The panels shall have Multi-Function Meter(MFM) which is enable to read Voltage, PF, Power, Energy, harmonics. The MFM should have RS485 Port.
2	O/G MCCB Type1	415V AC, 4 Pole, 200 A, 50KA MCCB with MP(Microprocessor) based release, Protection Type-LS0IN (Low Side Over Current Protection) Ics=100%Icu, Adjustable Thermal Setting-0.7to1xIn, Adjustable Magnetic Setting-5to10xIr, Innovative Front Indication LED'S (Ready, Overload pre-alarm & Overload), earth fault protection, Adjustable Neutral Protection-N, N/2, OFF for 4Pole MCCB.	200 A	4		
3	O/G Type 2	415V AC, 4 Pole, 100 A, 50KA MCCB with MP(Microprocessor) based release, Protection Type-LS0IN (Low Side Over Current Protection) Ics=100%Icu, Adjustable Thermal Setting-0.7to1xIn, Adjustable Magnetic Setting-5to10xIr, Innovative Front Indication LED'S (Ready, Overload pre-alarm & Overload), earth fault protection, Adjustable Neutral Protection-N, N/2, OFF for 4Pole MCCB.	100 A	6		
4	O/G (MCB)TPN DB -1	415V AC, Vertical Three Phase Neutral with double Door Distribution Switch and 36 Nos of outgoing 4 pole modules (Capacity of Each Module should be 63 A).		1		These MCBs should be installed within the panel only. Transparent sheet should be provided in front door of TPN DB for visibility of MCB position.

Adish Kumar Yadav

Prashant

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2. SCOPE OF SUPPLY

2.1 The scope of supply through this specification includes **but not limited to the following.**

2.2 A.C. Distribution Panels: 17 Nos. (With no. of I/C & O/G 4 Pole MCCBs and TPN DBs containing MCBs as indicated in sr. no. 1 above) with 1.5feet high metallic stand at the bottom of each panel.

2.3 The Incomer breakers of all 17 Nos of panels shall have:

Sr.No.	Description	Quantity(Nos)
1	Phase indicating lamps at Incoming Side	3 (R Y B)
2	Ammeter (0-1000A) with suitable for CT ratio	1
3	Volt meter (0-500V)	1
4	Ammeter Selector Switch(in support of panel)	1
5	Voltmeter Selector Switch(in support of panel)	1
6	CTs (for metering) with suitable CT ratio as per requirement.	3
7	Multi-Function Meter(MFM) which is enable to read Voltage, PF, Power, Energy, harmonics. The MFM should have RS485 Port.	1

The outgoing breakers of the panels shall have indicating lamps – 1 **each for On, Off and Trip indication.**

2.4 All required double compression Nickel/Chromium plated brass cable glands and crimping type copper lugs or of combined cu & aluminium lugs for termination of cable with electrical panel and use heat sinkable slue as and when required for termination of cable.

2.5 The base channel frame with hardware. Base frame to have a rectangular frame top fixed on vertical stands. It should have suitable strength and balance to hold the panel for very long time. It should be painted.

2.6 Set of accessories required for the operation and handling of the breakers – 1 Set for each MCCB used in the panel.

2.7 Essential spares for trouble free operation of the MCCBs.

2.8 All relevant drawings and documents.

2.9 Cable entry boxes with required sized bus links for termination of Incoming Feeder cables. The cables for Incoming feeder are short and will need Cable Entry Box with extension Bus-Links of suitable sizing. Same needs to be supplied with the panel. The quantity of inbuilt TPN switches are mentioned in Para1(Intent of Specification).

2.10 All TPN switches shall be installed inside the panel only and there should be transparent sheet/glass in front door of the TPN switches to see positioning of the switches without opening the door.

Ashish Kumar Talwar

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3. TECHNICAL REQUIREMENTS

3.1 Enclosure and Protection

3.1.1 The A.C. Distribution Panels and the components like MCCB, TPN DBs containing MCBs and measuring instruments etc. shall be fully conforming to respective/relevant IS standard/equivalent International standards.

3.1.2 The Distribution Panel shall be metal clad, on MS Angle Iron framework and shall comprise standard prefabricated, cold rolled, sheet steel, hot dip galvanized enclosure, free standing, unitized Distribution Panel. The minimum thickness for walls/doors and for internal partitions/barriers 2.5 mm,

3.1.3 The distribution panels shall be totally enclosed, dust and vermin proof. The degree of enclosure protection shall be **IP-54 for panel**.

3.1.4 All doors and openings shall be provided with gaskets of durable material. The gaskets shall be held in a groove and shall be continuous with ends fixed with adhesive material.

3.1.5 Each section of all the panels shall be provided with door switch operated lamp for illumination inside the panel. The lamp shall be suitably located to ensure visibility while working in the Electrical Panel.

3.2 CONSTRUCTIONAL FEATURES

3.2.1 Removable Eye bolt/lifting lugs shall be furnished on the Electrical Panels. Access to all equipment, bus bars and cable terminations shall be from front only and panel with back access is not acceptable. The panels should be design in such a way that all the operations can be perform from front side only.

3.2.2 The feeder modules shall be provided with compartment door with internal hinges. The compartment doors shall be interlocked mechanically with the operating handles / knobs of MCCB's such that the door cannot be opened when the MCCB is in 'ON' condition. Defeat feature for this interlock shall also be provided. Suitable diameter but not less than 15 mm, rotating knobs minimum 2 nos. per door shall be provided for all doors. **There should be provision for hanging the key of the panel door on outside of each panel.**

3.2.3 All the equipment inside the feeder compartment shall be housed on a metallic plate which shall be bolted within the compartment. All instruments, push buttons, indicating lamps etc. shall be located on the feeder compartment doors.

3.2.4 All hardware shall be corrosion resistant. All joints and connections shall be made by galvanized Zinc passivated or cadmium plated high tensile strength steel bolts, nuts and washers secured against loosening.

3.2.5 The Distribution Panels shall be designed to ensure maximum safety during operation, inspection, connection of cables and maintenance. Means shall be provided to prevent shorting of power and/or control terminals due to accidental dropping of maintenance tools etc. inside the distribution panels. Checking and removal of components shall be possible without disturbing adjacent equipment.

3.2.6 Necessary bolted type gland plate of 3.15 mm thickness and Nickel/Chromium plated brass double compression cable glands for all cable entries in the distribution panels shall be provided. Terminal blocks shall not be used for supporting cables. Due to space constraint, the design of the panel in such a way that cable entry shall be possible only from below the panel in cable alley. The extra space should be provided for cable alley, the space should be sufficient for proper glanding and termination of cables.

3.2.7 The complete distribution panels shall be mounted on an angle frame with suitable mode of fastening. The minimum size of the angle shall be 50x50x6 mm. The complete frame is to be supplied by the vendor duly fabricated and painted with Powder Coated paint with oven baking of grey color. The height of the base frame channel shall be 400 mm or more from the ground level for easy entry and termination of cables.

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[Signature]

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3.2.8 The supplier shall visit / inspect the site before quoting and ensure that the offered panel should be accommodated in the available space.

3.2.9 Panel shall be compartmentalized with separate bus bar chamber, incomer section & outgoing section.

3.2.10 All the Panels should be double door.

3.3 Busbars, Busbar Sizing, Connection and Supports

3.3.1 Bus bars shall be made of high conductivity electrolytic grade copper, supported on insulators made of non-hygroscopic, non-inflammable material. The busbars shall extend throughout the length of the two sections of distribution panels and shall be of uniform cross-section. All bus joints as well as the supports shall be designed to withstand the specified short circuit level for 1 second without permanent deformation. Dynamic stresses shall be calculated on the basis of peak short circuit current.

3.3.2 Busbar Chambers: The Horizontal and Vertical Busbars shall be placed in busbar chambers and busbars shall be easily accessible

3.3.3 Busbars shall be sleeved with Fire Resistant Low Smoke PVC for full voltage insulation. Identification rings of red, yellow, blue and black colour to identify phase and neutral busbars shall be provided over busbar sleeves.

3.3.4 Minimum clearance between two live parts shall be 20 mm. Minimum clearance between live parts/neutral to ground shall be 25 mm. The output terminals of MCCB should be wide enough so that multiple cable can be connected.

3.3.5 The current density for the copper shall not exceed 1000 A/sq. inch.

3.3.6 The space between the two output of Adjacent MCCBs should be optimal. Separator should be provided in between the output terminals of MCCB.

3.4 Power Connections

Power connections between the busbars and the incoming point of MCCB's module shall be done using suitably rated individual single core copper cable with FRLS PVC insulation/ sleeved bus bar of required size. Bunching of cables to meet the current requirements is not acceptable. The cables shall be terminated on the busbars and at the incoming point using crimping type tinned copper lugs of required design.

3.5 Control Wiring and Connections

3.4.1 The distribution panels shall be pre - wired and ready for use after external cable connection. Inside the panels, the control wiring shall be carried out using insulated copper conductors with PVC insulation. The insulation shall be rated for minimum 600V grade irrespective of the distribution panel voltage rating. The minimum size of conductor shall be 2.5 sq.mm. Wherever multi-strand wires are used; its ends shall be crimped in a suitably sized lug before connection.

3.4.2 Each wire shall be identified at both ends by PVC ferrules. The identifying wire numbers shall match with the terminal numbers of equipment device.

3.4.3 Internal wiring (of suitable size to be properly secured using cable tie and tie mounts. (Preferred make of internal wiring – KEI / Finolex / RR cables / Polycab).

3.4.4 All the control wiring should be made of Copper.

3.6 Control Circuit Protection

Control Circuit protection shall be provided by using MCBs. Use of fuses shall not be permitted.

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3.7 Earthing connections

Provision shall be provided for carrying out the earthing of all non-current carrying metallic parts through a copper earth bus. 2 nos. earthing bolts shall be provided on the distribution panels. It should not be available in the back side of the panel.

3.8 Name Plates

3.8.1 Nameplates (Panel Name & SB-MTC) of approved design shall be furnished for each panel. The material shall be lamicaid or anodized aluminium of 3 mm thick with white letter on black background. The nameplate shall be held by self-tapping screws. Nameplates shall be of suitable size but not less than 40mm x 100 mm for panels. The names of the panels are mention in introduction para.

3.8.2 Caution notice on suitable metal plate shall be affixed at each vertical panel. It shall be provided with Danger sign board in Marathi, English and Hindi.

3.8.3 It shall be provided with name plate showing the Manufacturer's details, SL. No. Rating etc.

3.8.4 Incomer to be marked/Named and emergency process for tripping the breaker in case of emergency.

3.8.5 All the indicators should be named properly.

3.9 Distribution Panel Components

3.9.1 Moulded Case Circuit Breakers (MCCBs)

- The MCCBs/MCBs shall be of reputed make. The supplier has to supply following make only **Legrand /Siemens /L&T or Lauritz Knudsen Electrical and Automation /Schneider Electric /ABB /Crompton**. Other than above mentioned make will be rejected.
- M.C.C.B. shall be provided with spring assisted quick make/break manually operated trip free mechanism.
- M.C.C.B. shall be provided with tripping device with inverse time characteristics for overload protection and instantaneous characteristics for short circuit protection.
- M.C.C.B. shall be rated for breaking the short circuit current specified for the distribution panels. Use of back-up fuses for extending the breaking capacity is not acceptable.
- The circuit breakers shall comply with the requirement of IEC 60947 / IS13947:1993. The MCCBs shall be suitable for nominal voltage of 3 phase, 440 VAC $\pm 5\%$, 50 Hz supply.
- The circuit breaker shall comply with the isolation function of IEC 60947-2 section 7.1.2 to be marked as suitable for isolation / disconnection to facilitate safety of operating personnel while the breaker is in use.
- The MCCBs shall be of double break contacts.
- The terminals shall be of liberal design with adequate clearances. With separator.

Shishu Kumar Yadav

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- The operating handle of the MCCBs shall have suitable ON, OFF & TRIPPED indicators.
- Earth fault protection wherever specified shall be an integral part of the breaker, direct operating type & adjustable.
- MCCBs shall be Fixed mounting type having front terminals connection.
- All incomer MCCB shall be microprocessor based Trip release which gives Overload, short-circuit & Ground fault protection with precision.

3.10 Miniature Circuit Breakers (MCBs) – For Control Circuit.

3.10.1 MCBs shall be of reputed make. The supplier has to supply following make only **Legrand /Siemens /L&T or Lauritz Knudsen Electrical and Automation /Schneider Electric /ABB /Crompton**. Other than above mentioned make will be rejected. The MCBs shall be of 6 Amp, 10 KA rated.

3.10.2 The MCBs shall be conforming to IS 8828: 1996.

3.11 Measuring Instruments

3.11.1 All measuring instruments shall be minimum 96 mm x 96 mm square pattern, flush mounting type.

3.11.2 All ammeters and voltmeters shall be moving iron type. Accuracy class shall be 1.5 for ammeters and voltmeters. The range shall be as indicated elsewhere. Selector switches for the meters also to be provided.

3.11.3 LED type Phase Indicating Lamps shall be provided on the Incoming MCCB Cubicle of each Distribution Panel.

3.12 Inbuilt 4Pole 63Am MCB Distribution switches in panel

The quantity of inbuilt 4Pole 63Am MCB Distribution switches in panel are mentioned in Para 1 (Intent of Specification). All TPN switches shall be installed inside the panel only and there should be transparent sheet in front door of the TPN switches to see positioning of the switches without opening the door.

The specification of each inbuilt 4Pole 63Am MCB Distribution switches in panel are as follows.

415V AC, Vertical Three Phase Neutral with double Door Distribution Switch and 36 Nos of outgoing 4 pole modules (Capacity of Each Module should be 63 A). along with IS standard /reputed MCBs like **Legrand /Siemens /L&T or Lauritz Knudsen Electrical and Automation /Schneider Electric /ABB /Crompton** are to be supplied, installed and I/C & O/G cables to be terminated.

1. 4Pole 63Am MCB Distribution Suitable for 3 phase/1phase distribution
2. Removable Gland plates at top & bottom
3. Breaking Capacity of MCBs: 10 kA or above
4. Outgoing MCB rating: 63A, 4Pole, C Curve (with Copper Spreader links for termination of larger size cables)
5. Voltage rating: 240/415 V, 3 Phase 4 Wire
6. Ingress Protection: Similar to Panel.
7. Conforming to IS 13032 / IS 8623-3
8. Ample wiring space for proper distribution of neutral and earth wires.

Ashish Kumar Yadav

Rest

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NOTE: The quantity of Inbuilt 4Pole 63Am MCB Distribution switches is mentioned in para 1 (Intent of Specification) from Panel no 1 to 17.

4. Documents required for approval before manufacturing of panel from MDL concerned executive after placement of order –

- 4.0 GA Drawing of panels
- 4.1 Single Line Diagrams
- 4.2 Control Schematic with detailed control wiring
- 4.3 Manual of multifunction meter.

5. PAINTING

1) All the panels should be Red coloured.

2) All the panels shall be painted with anti-corrosive EPOXY PAINT with OVEN BAKING. The painting procedure shall include DRYING & CURING in OVEN. The paint shall be suitable for MARINE APPLICATION. The colour of the panel shall be as specified in type of panel. The paint shall be of marine grade. All sheet steel surfaces shall be cleaned before painting using 7/9 tank processes. Sufficient quantity of touch up paint shall be furnished for application at site. The minimum DFT of the paint shall be as per relevant IS standards.

6. Factory Tests and Inspection

The Distribution Panels shall be completely assembled, wired, adjusted and tested at the factory as per the relevant standards.

6.1 Routine Test (as per IS 13947:1993) latest

The tests shall include but not necessarily be limited to the following:

- a) All wiring and current carrying part shall be given appropriate voltage test.
- b) Primary current and voltage shall be applied to all instruments.
- c) Routine test shall be carried out on all equipment such as circuit breakers, instrument transformers, meters etc.
- d) All other remaining test specified by vendor to check the required panels.

7. Pre Dispatch Inspection

All tests shall be performed in presence of MDL's representatives. The contractor shall give at least fifteen (15) days advance notice of the date when tests are to be carried out. MDL representative may visit the factory for stage inspection during painting of the panel to ensure that proper painting procedures are followed by the vendor.

8. Test Certificates

Certified reports of all the tests carried out at the works shall be furnished in three (3) copies. Laminated internal wiring diagram of each panel to be placed inside the door in the packet. And PDF copy of diagrams should be sent on official email id The Distribution Panels shall be dispatched from the works only after clearance of the same by MDL.

Ashish Kumar Vaidya

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9. Warranty

The vendor shall have final and total single point responsibility for the design and performance of the panels and all components supplied under this specification.

The supplier shall

9.0 Warrant that the panels and all materials to be free from defects in design, material and workmanship.

9.1 Warrant that the panels will satisfy the requirements of the intended use and be suitable for the application.

9.2 Agree to repair or replace any component under this warranty, which proves to be defective within a minimum period of 12 months' after being placed in operation at site.

9.3 Assume responsibility for obtaining manufacturer's performance warranty for all items purchased by the supplier.

10. Packing and Transportation

The offered panels along with their accessories shall be transported to site packed in wooden crates. They shall be wrapped with polythene sheets before being placed in the crates to prevent damage to finish. The crates shall have skid bottom for handling. The same shall be unloaded by the contractor at MDL site. MDL will provide only the crane facility for unloading and internal shifting (from unloading place) to the installation site. Labour/manpower shall be in contractor's scope.

11. Work Completion Period

The Design, Manufacture, testing at factory, Packing & forwarding, Installation at site, Testing and Commissioning of all the panels shall be completed within 8 months after receipt of order.

Note: Vendor has to consider that during installation, all the work regarding execution of this project will be done on holidays, Saturdays and Sunday only.

12. Detailed Requirement of Installation

12.1 Dismantling & removing of the existing Panels and SFU's. Removal of the dismantled Panels/SFU's from the site to the scrap area at NY Power House. Removing of redundant/unused cables is also in contractor's scope. **Note: Dismantling the old Panels & erection of new Panels shall be done on Saturdays, Sundays and**

Holidays and the restoration of normal supply must be done before the beginning of the next working day.

12.2 All alignment, levelling, grouting, anchoring & adjustment, cable terminations shall be carried out in accordance with manufacturer's instructions and or as directed by MDL Engineers.

12.3 Lifting/shifting of the new panel to the location, erection of the panel and MCB DBs' shall be done by the contractor. All connections in new panels shall be completed and checked to ensure safety & satisfactory operation of the Panels.

12.4 While designing the panel, due care shall be taken considering the available length of Incoming and Outgoing cables for termination. Cable entry boxes with required sized bus links for termination of Incoming Feeder cables. The cables for Incoming feeder are short and will need a Cable Entry Box with extension Bus-Links of suitable sizing. Same needs to be supplied with the panel.

12.5 There are some panels where fabrication and civil work will be required under the contractor's scope.

Anish Kumar Yadav

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13.Site Inspection

After completion of erection/installation each distribution panel shall be thoroughly inspected in presence of the MDL Engineer for correctness and completeness of erection and acceptability before switching ON.

14.Testing & Commissioning

14.1 After completion of erection work, tests shall be conducted by the supplier/erection contractor on each panel.

14.2 The contractor shall provide all tools, materials, labour and supervisory personnel for carrying out field tests on the panels and materials under his scope of work.

14.3 These tests shall be conducted in presence of MDL Engineer and according to his directions.

14.4 All temporary arrangements and connections required for tests shall be provided by the contractor.

14.5 The contractor shall record the test results on approved format and furnish four (4) copies of the results to MDL within a week of the date of test completed.

14.6 On successful inspection and testing, the equipment shall be commissioned and will be kept under observation for a minimum period of 7 days before declaring as commissioned.

15. General Notes

15.1 Any other activities which are not mentioned in this specification but required for the successful installation, testing and commissioning of the distribution panels shall be in contractor's scope.

15.2 Vendor shall furnish 3 sets of following final / as built drawings at the time of commissioning

- GA Drawing of panels
- Single Line Diagrams
- Control Schematic with detailed control wiring
- Bill of Materials
- Manual of multifunction meter.
- GA/Catalogues of all components.
- Any other drawing required for operation and maintenance of the panels.

16. Standards & Codes

Updated and current Indian Standard Specifications and Codes of Practice will apply to the equipment and the work covered by the scope of this contract.

Low Voltage Switchgear Assemblies: IEC 60439 / IS 8623

Low Voltage Switchgear & Control Gear: IEC60947 /IS 13947:1993 (Part I, II, III, IV & V)

Degree of Protection of Enclosures for Low Voltage Switchgear: IEC 60529 / IS 2147: 1962

IS: 4237-1982 General Requirements for Switchgear and Control gear for voltages not exceeding 1000V A.C or 1200 V D.C.

IS: 2147-1962 Degree of Protection provided by enclosures for low voltage switchgear and control gear.

IS: 1897-1983 Copper strips for Electrical purposes

Ashish Kumar

Prashant

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IS: 3618-1966 Phosphate Treatment of Iron and Steel for protection against corrosion.

IS: 6005 – 1998: - Code of practice for phosphating iron and steel

IS: 375-1963 and IS: 5578-1970 Marking and arrangement for Switchgear Main connections, Auxiliary Wiring and Insulated Conductors.

IS: 2032 Graphical Symbols used in electro technology

16.1 Vendor shall comply with provisions of all relevant acts of Central or state Governments such as:

Acts to be followed

- 1) Factories Act 1948
- 2) Minimum Wages Act 1948
- 3) Payment of wages Act 1936
- 4) Industrial Dispute Act 1947
- 5) Workmen's Compensation Act 1923
- 6) Employees State Insurance Act 1948
- 7) Contract labour (regulations & Abolishment) Act 1970
- 8) Indian Electricity Act 2003
- 9) Indian Electricity rules 1956
- 10) CEA Regulations – 2010 or latest
- 11) Any other act applicable during execution of order.

Note: - The latest version will be applicable for above mentioned acts of Central or state Governments

16.2 Vendor shall take permission for working in MDL on working on weekdays, Saturday/Sunday/ holidays if required for their personnel minimum 3 working days prior to the date of work. Vendor's shall comply with all safety & security regulations of MDL at site to avoid any accidents to his personnel / MDL's personnel.

PPE to be used by vendor's work team at all times inside MDL yard.

16.3 If any equipment is damaged due to negligence of Vendor's personnel, then same is to be made good by way of repair / replacement free of cost. All tools & tackles required for maintenance contract shall be arranged & maintained at site.

16.4 Maintain a suitable register for various equipment at site by Vendor to record for status execution of project.

Abhishek Kumar Yadav

Prashant



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16.5 Safety Requirements

- The Vendor shall take all necessary safety precautions while working project. Vendor should provide proper personal protective equipment & other safety equipment to his work team. Vendor should ensure that safety gear such as safety belts, safety ladder/s, safety helmets etc., are used by his work team at all times during execution of work.
- Work should be all the time during execution period to be supervised either by the contractor himself or by qualified authorized supervisor of the contractor.
- It is the responsibility of the contractor to ensure safe working of his workers while carrying out execution of the projects and should follow all Statutory Safety provisions and rules. Contractor should provide and ensure use of **full harness Safety Belts, good quality leather Safety Shoes, Safety Helmets as per IS – 2925, Welding Shields, Hand Gloves, etc. by workers for safe working.** The Contractor shall take all safety precautions and follow safety rules prevailing at MDL.
- Contractor should engage Skilled labour for execution of the project.
- Contractor should ensure that none of his employees work without safety shoes.
- The contractor shall be responsible for safety procedures strictly.
- Safety awareness training to be imparted to all workers and all safety regulation to be followed.
- In case of any Accident causing injury of causality to any of Contractor's worker or Contractor himself while carrying out the work, the complete responsibility lies with the Contractor. Contractor should ensure to provide immediate Medical help to his injured worker / workers and should provide Compensation as per Workmen Compensation Act 1923 (Latest Act) in case of injury or causality causing out of accident while on work to his workers.

Ashish Kumar Tada

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17. Declaration for Acceptances of all term and conditions

BIDDER DECLARATION FOR SITE VISIT

To,
Mazagon Dock Shipbuilders Ltd.,
Dockyard Road, Mumbai - 400010.

Ref: Tender No: _____ Dated _____/20__

Item Description: Survey of site, Design and Manufacture, testing at manufacturer's workshop, Packing & Forwarding, Unloading, dismantling of existing panels & switches, shifting of the new panels to the installation site, Installation, Testing and commissioning of separate **17 nos. Power Distribution Panels** with MCCBs, inbuilt TPN DBs containing MCCBs in MDL.

We have visited the installation site at MDL on _____ (Date) to survey the site and understand the scope.

We hereby confirm that we have understood the Scope of Supply, Scope of Work and other requirements given in the tender for, Design and Manufacture, testing at manufacturer's workshop, Packing & Forwarding, Unloading, dismantling of existing panels & switches, shifting of the new panels to the installation site, Installation, Testing and commissioning of separate **17 nos. Power Distribution Panels** with MCCBs, inbuilt TPN DBs containing MCCBs in MDL.

COMPANY NAME _____

SIGNATURE _____

NAME: _____

DISIGNATION: _____

DATE: _____

(To be submitted along with the Technical Bid, by the Bidder on their Company's Letter head, duly signed by Authorized Signatory with Company Seal & Date)

Handwritten signature

Handwritten signature

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(B) MDL's scope includes the following activities

MDL will provide Electricity, water, and compressed air at one point free of cost. Mobile crane will be provided only at the time of unloading of material. All other required materials / machinery / spares / equipment / consumables are to be arranged by Vendor.

(C) Penalty/LD

LD clause will be applicable for Supply installation and commissioning of all 17 Nos electrical distribution panels. All 17Nos of panels to be supplied as per delivery schedule, if delayed beyond delivery period LD@ 0.5% per week up to and maximum of 5% of total order value will be applicable.

Technical Offer Details Format

Sr. No.	Technical Particular	Details
1	Make of offered Panel	
2	Make of offered MCCBs	
3	Make of Offered TPN MCB	
4	Bus bar material	
5	Panel Dimensions(Length*Width *Height)	
5.1	Annex. Service Block Ground Floor North Side	
5.2	Service Block Ground Floor South Side	
5.3	Sb-Pipe Shop, Wall Side	
5.4	Titanium Shop	
5.5	Electrical Repair Shop (ERS)	



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5.6	Sb-Engineering Shop	
5.7	Sheet Metal Shop	
5.8	Fitting Shop, Centre Panel	
5.9	Fitting Shop, West Side Panel	
5.10	North Side 1, New Assembly Shop NY	
5.11	South Side, Assembly Shop NY	
5.12	New Slipway South Side	
5.13	P&O Substation, West Side	
5.14	P&O Substation-East Side	
5.15	Pipe Shop, Centre Area	
5.16	Pipe Shop, Near Chain Centre	
5.17	Diesel Repair Shop-Main Panel	

Ashish Kumar Verma

Prat