MAZAGON DOCK SHIPBUILDERS LIMITED, MUMBAI

GeM Tender no. GEM/2026/B/8200287, dt. 10-11-2026, Due on dt. 01-12-2026.

SITC of Load measurement and signaling horn systems on multiple cranes at MDL (Safety devices for EOT/LL/Goliath/Semi Goliath cranes) for MTC-EY.

ADDITIONAL TERMS & CONDITIONS (ATC)

1. **Description & Scope of supply/work: -** Supply, Installation, testing and commissioning of Load measurement and signaling horn systems on multiple cranes at MDL (Safety devices for EOT/LL/Goliath/Semi Goliath cranes) for MTC-EY.

2. **Compliance Statement for Scope of Work (SOW):** Bidder should fill the acceptance of detailed Scope of Work & fill the offered technical Specification/details as attached in SOW of bid document.

3. **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,

   i. Firms permanently registered with MDL for material group 1402169 (Repairs/modification of crane (EOT)). To qualify for EMD exemption, firms should necessarily submit valid copy of the Registration Certificate issued by MDL, for the items i.e. material group 1402169 (Repairs/modification of crane (EOT)) for which the offer is being submitted. Firms in the process of obtaining MDL registration will not be considered for EMD exemption.
   ii. Micro and Small Enterprises (MSEs) who are holding valid Udyam Registration and are manufacturer of the offered Product or Service (Primary Product / Service - in case of bunch bid with total value wise evaluation) and are required to furnish declaration of being manufacturer or service provider of offered product or service in the format given at **Enclosure-2** of this document at the time of bid submission and whose credentials are validated online through Udyam Registration website of Ministry of MSME.
   iii. Start-ups as recognized by Department of Industrial Policy and Promotion (DIPP).
   iv. State & Central Government of India Departments & Public Sector Undertakings.
   v. 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.
   iii 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:
   a. 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.

4. **Mandatory Site Visit**
   i. 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.
   ii. 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.
   iii. 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. Deepak Bandarkar M (L&WN-EY) – 022-23763659/9004701234,

dmbandarkar@mazdock.com or Mr. M.K.Ashraf - AGM (MTC-EY) – 23764615 / 8879657789, mkashraf@mazdock.com for site visit.

5. Delivery Schedule & delivery term:

Supply, Installation, testing and commissioning of all system/equipment's at site shall be completed within 2 months of receipt of order.

Material to be delivered & installed at:
Mazagon Dock Shipbuilders Limited,
Dockyard Road,
Mumbai-400010.

6. Warranty/Guarantee:
All the equipment supplied against this specification shall be guaranteed for 36 months from the date of commissioning. Clause no. 4 of SoW refers.

7. PRICING: Bidders shall quote firm and fixed prices 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.

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

9. 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 financers 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 Recievable 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.

10. 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".

11. CONSIGNEE:

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

(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.

12. INSPECTION:

i. **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.

ii. **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.

iii. **INSTALLATION & COMMISSIONING:** - MDL User dept will inspect after installation/erection of each piece of equipment for correctness and completion, carryout trials of its working to the satisfaction of MDL and accordingly issue Work done certificate/Installation, commissioning certificate for further release of payment. In case of delays, the duration along with numbers of delayed days shall be specified in respective WDCs to invoke LD clause and effect recoveries from sub contractor's invoice.

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.

13. 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 no. P-45021/2/2017-PP (BE-II)-Part (4) Vol.II, dated 19th July 2024 by Ministry of Commerce & Industries, Dept. of Promotion of Industries & Internal Trade (DPIIT) refers.

Explanatory notes for calculation of local content given below: -

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.

c. 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.

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.

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 (Attributably) 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 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 Enclsure-3.

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 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, GM(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
Account Type:	Current Account
IFSC Code:	SBIN0009054
RTGS Code:	SBIN0009054
NEFT Code:	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. Deepak Bandarkar Manager (L&WN-EY)	022-23763659/ 9004701234	dmbandarkar@mazdock.com
	Mr. M K Ashraf HOD (MTC-EY)	022-23764615 / 8879657789,	mkashraf@mazdock.com
Commercial	Mr. Chetan P Sakhare CM (C-MP)	022 2376 3256	cpsakhare@mazdock.com
	Mr. Shantaram Kurkute DGM(C-MP)	022-2376 3252	skurkute@mazdock.com

22. **Note: -**

a. Bidders who are debarred under PPP MII order 2017, GeM, CPPP including Tender holiday issued by MDL will be rejected.
b. Bids received without EMD (or without valid exemption certificate for bidders other than those who are exempted from payment of EMD) will be rejected.
c. 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.
d. Bids received without mandatory site visit and not submitted site declaration form as attached in SOW will be rejected.
e. Non-compliance/non-acceptance to any of the terms and conditions of the tender is liable for rejection. Bidder shall submit acceptance to tender terms and condition along with other documents.
f. Any deviation in delivery period is liable for rejection.
g. Firm has to submit the contact details like E-mail address, Name of the person, Phone number for further communications.
h. LD will be applicable as per GeM Terms & Condition.

GeM Tender no. GEM/2026/B/8200287, dt. 10-11-2026, Due on dt. 01-12-2026.

SITC of Load measurement and signaling horn systems on multiple cranes at MDL (Safety devices for EOT/LL/Goliath/Semi Goliath cranes) for MTC-EY.

23. Checklist of Documents to be uploaded at the time of bid: -

a) Bidder should fill the offered product data in SOW & submit the acceptance of detailed Scope of Work/ Technical Specification as attached in SOW (Annexure-2) of bid document (Sign and Stamp On each Page Of SOW)
b) MSME Udyam Certificate of latest year 2026-27
c) Shop & Establishment Certificate or Certificate of Incorporation or Factory Licence issued by government agency as per Commercial Prequalification Criteria.
d) GSTIN certificate all pages
e) PAN card
f) Cancelled Cheque
g) NEFT mandate certified by bank (Bank account details certified by bank).
h) Local Contain Declaration on OEM letter head (As per Enclosure-1 in GeM tender)
i) Bidder should fill the format of Enclosures- 1 to 7 & submit with Sign and Stamp on each Page.
j) Acceptance of all Tender terms & conditions (i.e. ePBG, Warranty, Delivery Period, Offer Validity, Payment Terms, LD applicability, GeM GTC, etc.) on Bidder letter head (Any Deviation not acceptable)

Enclosures to be submitted: -

Enclosure-1	Declaration Certificate for Local Content
Enclosure-2	Confirmation of being manufacturer of offered product /service provider of offered service
Enclsoure-3	Undertaking For Conflict of Interest
Enclsoure-4	Contact Details of Bidder
Enclosure-5	Turnover details
Enclosure-6	Format for remittance towards EMD/performance security
Enclsoure-7	Safety Instruction for Sub-Contractor

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 ACCOUTANT (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.

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

Enclosure-2

CONFIRMATION OF BEING MANUFACTURER OF OFFERED PRODUCT / SERVICE PROVIDER OF OFFERED SERVICE

(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 the offered product / Service provider of the offered services.

SR NO.	ITEM TITLE	ITEM DESCRIPTION	MANUFACTURER OF OFFERED PRODUCT/ SERVICE PROVIDER OF OFFERED SERVICE (YES/NO)
1			
2			

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/services of which the MSE bidder is a manufacturer or service provider. For the remaining products/items/services, MSE bidder shall not be eligible for exemption of EMD.

2. Above confirmation shall be duly filled (Yes or No) for each item by the bidder and it shall be uploaded along with the Part 1 bid.

Signature & Stamp of the Authorized Person of bidder

Enclosure-3

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

Enclosure-4

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:	

Enclosure-5

Turnover Detail

Financial Year	Turnover (INR)	Relevant Document attached (Yes/No) Name of document attached
2022-2023		
2023-2024		
2024-2025		

Enclosure-6

GeM Tender no. GEM/2026/B/8200287, dt. 10-11-2026, Due on dt. 01-12-2026.

SITC of Load measurement and signaling horn systems on multiple cranes at MDL (Safety devices for EOT/LL/Goliath/Semi Goliath cranes) for MTC-EY.

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. DETAILES 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

Enclosure-7

Mazagon Dock Shipbuilders Limited		Title: Safety Instruction for Sub-Contractor		
Doc. No.	Issue No	Issue Date	Revision No	Revision Date
SB-Works/Safety/01	01	03.08.2022	00	-

1. **Scope of Work:**
   a. 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.
   b. This brings out procedures, standard practices etc. and would serve as the reference material to all Sub-Contractors.
   c. 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.

Mazagon Dock Shipbuilders Limited		Title: Safety Instruction for Sub-Contractor		
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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.

GeM Tender no. GEM/2026/B/8200287, dt. 10-11-2026, Due on dt. 01-12-2026.

SITC of Load measurement and signaling horn systems on multiple cranes at MDL (Safety devices for EOT/LL/Goliath/Semi Goliath cranes) for MTC-EY.

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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 <u>Safety during Cutting & Welding:</u>

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.

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.

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 <u>Hand Tools and Power Tools:</u>

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.

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 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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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.

SCOPE OF WORK FOR SUPPLY, INSTALLATIONA AND COMMIMISIONING OF SAFETY DEVICES FOR EOT/ LEVEL LUFFING/ SEMI GOLIATH CRANES [LOAD CELLS, SIGNALLING HORN, INDICATING DISPLAY SYSTEMS]

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दिपक बंदरकर
DEEPAK BANDARKAR
प्रबंधक (विद्युत एवं आयुध - पूर्व खंड)
MANAGER (L&WN-EY)
माझगांव डॉक शिपबिल्डर्स लिमिटेड
MAZAGON DOCK SHIPBUILDERS LIMITED

एम. के. अशरफ
M. K. ASHRAF
अप्पर महा प्रबंधक (अनुरक्षण - पूर्व खंड)
ADDL.GENERAL MANAGER (MTC-EY)
माझगांव डॉक शिपबिल्डर्स लिमिटेड
MAZAGON DOCK SHIPBUILDERS LIMITED

1. SUMMARY OF REQUIREMENTS

1.1. This Scope of work document is intended to cover the Supply, Installation and Commissioning of Load Measurement and Signalling Horn Systems on various Cranes in the workshops of Mazagon Dock Shipbuilder Ltd, Dockyard Road, Mumbai. Vendor must be able to Supply, Install and Commission the same at the required location.

1.2. The list of Cranes and their details is as follows:

SNo	Crane No	Hook Capacity	Hook Type	Crane Type	Location
1	SSA CRANE 1	30T	MH	EOT	SSA Workshop
		10T	AH		
2	SSA CRANE 2	30T	MH	EOT	SSA Workshop
		10T	AH		
3	SSA CRANE 3	30T	MH	EOT	SSA Workshop
		10T	AH		
4	SSA CRANE 4	30T	MH	EOT	SSA Workshop
		10T	AH		
5	SSA CRANE 5	60T	MH	Semi Goliath	SSA Workshop
		20T	AH		
6	SSA CRANE 6	150T	MH	Semi Goliath	SSA Workshop
		30T	AH		
7	SSA CRANE 7	150T	MH	Semi Goliath	SSA Workshop
		30T	AH		
8	LL20	15T	MH	Level Luffing	Angre Wet Basin
		5T	AH		
9	LL21	15T	MH	Level Luffing	Angre Wet Basin
		5T	AH		
10	SA-1 Crane	40T	MH	EOT	Workshop A
		5T	AH		
11	SA-2 Crane	20T	MH	EOT	Workshop A
		5T	AH		
12	SB-1 Crane	60T	MH	EOT	Workshop B
		10T	AH		
13	SB-2 Crane	60T	MH	EOT	Workshop B
		10T	AH		
14	SC-1 Crane	90T	MH	EOT	Workshop C
		90T	MH		
		16T	AH		

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MANAGER (L&WN-EY)
माझगांव डॉक शिपबिल्डर्स लिमिटेड
MAZAGON DOCK SHIPBUILDERS LIMITED

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अप्पर महा प्रबंधक (अनुरक्षण- पूर्व खं
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माझगांव डॉक शिपबिल्डर्स लिमिटे
MAZAGON DOCK SHIPBUILDERS LIMIT

15	SC-2 Crane	90T	MH	EOT	Workshop C
		90T	MH		
		16T	AH		
16	SC-3 Crane	20T	MH	EOT	Workshop C
		5T	AH		
17	ES-1 Crane	5T	MH	EOT	EY Engg W/S
18	CAS-1 Crane	60T	MH	EOT	CAS Shop
		10T	AH		
19	CAS-2 Crane	60T	MH	EOT	CAS Shop
		10T	AH		
20	CAS-3 Crane	10T	MH	EOT	Piping Store, MMP Stores Complex-North Bay
		2T	AH		
21	CAS-4 Crane	10T	MH	EOT	Hull Store, MMP Stores Complex-South Bay
		2T	AH		
22	SD-1	10T	MH	EOT	Workshop D
		3T	AH		
23	New Shed A Crane	10T	MH	EOT	New Shed A, Anik Chembur Yard
		2T	AH		

Please note that Serial Nos 1-22 are located at our main yard at Dockyard Road, Mumbai whereas S.No. 23 is located at our facility at Anik Chembur Yard, Chembur-Mumbai.

1.3. The Summary Requirement for cranes listed at Para 2 is as follows:

SUMMARY REQUIREMENT		
SNo	**Technical Particulars**	**Quantity**
1	Load Cell	One per Hook (MH and AH)
	Auxiliary Hook	**22**
	10T	8
	16T	2
	20T	1
	2T	3
	30T	2
	3T	1
	5T	5
	Main Hook	**25**
	10T	4
	150T	2
	15T	2
	20T	2

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	30T	4
	40T	1
	5T	1
	60T	5
	90T	4
	TOTAL	**47**
2	Load Cell Indicator	23 Nos (One per Crane)
3	Signalling Horn	23 Nos (One per Crane)
4	HMI Panel	2 Nos (One per LL Crane)
5	Field Calibration kit	One per type of Load Cell
6	All other Accessories	Overload Relay, Mounting bracket kit, cables (power/communication) and all other devices/equipment that are part of the system for full functionality of the Load measurement and Signal horn systems.

2. Technical Specifications:

Technical Specifications for Quantity of items mentioned in Para 3 are as follows:

2.1. **Load Cell**

Technical Specifications for Primary Hook Load Cell		
SNo	**Technical Particulars**	**Rating/Specification**
1	Compatibility with Crane Cable Thickness	As per Para 2
2	Type	Dynamometer/Line Rider/Load Clamp/ Tensiometer based SLI or similar. Device to be installed without major modifications to Crane (Load Pin type is cell is not acceptable)
3	Max Rated Loading Capacity (SWL)	As per Table at Para 2
4	Mounting	As required
5	Material	SS or alloy with high corrosion resistance
	Output	2mV/V standard strain gauge or 4-20mA or RS-485 matching Load Cell Display Unit
6	Cable Length	As per site conditions
7	Calibration	Factory Calibration with Certificate, Field Calibration
8	Safety Features	Built-In Overload Alarm beyond 5% rated capacity
9	Shock/Vibration	5g Peak
10	EMC Compliance	IEC 61000-6-2 (industrial Immunity)
11	Overload Capacity	

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12	Operating Conditions	Shipyard Open Air Atmospheric, 10 deg C to 80 Deg C
13	Accuracy	+/- 1% upto 5T, +/-3.5% upto 60T
14	Installation Location	As per OEM
15	Minimum Lifespan	10 Years
16	Data Communication	4-20mA/RS485/CANBUS or equivalent as per load cell
17	Other Compliance	Industry 4.0
18	Data Logging	Internal Memory
19	Operating Supply Voltage	24VDC or 240 VAC
20	IP Rating	IP65 min

2.2. **Load Cell Indicator for Crane**

Technical Specifications for Load Cell Indicator		
SNo	**Technical Particulars**	**Rating/Specification**
1	Size	8''
2	Display Type	4 Digit Day Light LED/LCD with adaptive display for load values with decimals, wide viewing angle
3	Operating Conditions	Shipyard Open Air Atmospheric, 10 deg C to 80 Deg C
4	Accuracy	+/- 0.1 % of Full Scale
5	IP Rating	IP65 min
6	Functional Features	Zero/Tare Button, Peak Hold, Overload Alarm, Battery Backup
7	Minimum Lifespan	10 Years
8	Data Communication	4-20mA/RS485/CANBUS or equivalent matching Load Cell output
9	Other Compliance	Industry 4.0
10	Data Logging	Internal Memory
11	Operating Supply Voltage	24VDC or 240 VAC
12	Display Options	Bright LED/LCD for outdoor viewing
13	Vibration	2g
14	EMC Compliance	IEC 61000-6-2 (industrial immunity)
15	Mounting	Panel Mounting or as required on site

2.3. **Signalling Horn for Crane**

Technical Specifications for Load Cell Indicator		
SNo	**Technical Particulars**	**Rating/Specification**
1)	Horn Type	1) Normal: Single Tone 2kHz 2) Urgent: Dual tone 500Hz +2kHz

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		3) Emergency: Pulsed 1sec on-off
2)	Sound Level	95-110 dB(A) at 1m
3)	Operating Conditions	Shipyard Open Air Atmospheric, 10 deg C to 80 Deg C
4)	IP Rating	IP65 min
5)	Mounting	Panel/Bracket Mounting or as required on site
6)	Vibration	2g
7)	EMC Compliance	IEC 61000-6-2 (industrial immunity)

2.4. **HMI Panel for Operator Cabin**

Technical Specifications for Load Cell Indicator		
SNo	**Technical Particulars**	**Rating/Specification**
1)	Type	7"-12" TFT touchscreen (industrial grade)
2)	Functionality	Simultaneous display of parameters for both primary and auxiliary crane hooks per crane.
3)	Resolution	800 × 480 px (minimum)
4)	Power	24 V DC
5)	IP Rating	IP65 (front
6)	Communication	RS-485/Modbus or Ethernet/IP to indicator
7)	Software	Crane-specific SCADA/HMI runtime (e.g., Siemens WinCC, Allen-Bradley PanelView, etc)
8)	Features	Real-time weight display Trend graph (load vs. time) Alarm setpoints (overload, pre-alarm) Data logging (USB/SD card) Remote access via Ethernet

2.5. **Industry 4.0– Smart Monitoring via LAN Cable**

1. The system shall be equipped with an advanced Industry 4.0-ready Smart Monitoring (only monitoring is required on separate HMI Panel) enabling real-time remote monitoring, diagnostics, and data acquisition via LAN Cable.
2. The system shall support logging and visualization of all electrical and operational parameters, Operational Status, load history, emergencies, overloading, etc and other vital indicators.
3. The platform shall be capable of predictive maintenance analysis through trend monitoring, fault pattern detection, and event-based alerting.
4. The communication and data handling system must comply with relevant IEC 62443 standards or equivalent for industrial cybersecurity.

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5. Access to system parameters and diagnostics shall be possible through HMI, local computer for the following data:
   a. Integrated condition monitoring functions
   b. Historical event log
   c. Condition reporting
   d. On site fault finding
6. Licensed Software for above requirement will be provide by vendor with lifetime licence and updates.
7. Armoured Cable supply for communication of above switchboard will be in the scope of the bidder.

2.6. Other Specifications

1. Cable must be armoured PUR cable with resistance to rodent bites as this is a commonly faced issue.
2. The successful bidder shall carry out site inspection of all cranes to confirm actual size, location of equipment and to determine quantity of cable required along with any other accessories.

3. Scope of Work to be carried out

1. The scope of work of this tender consists of Supply, Installation and Commissioning of Items mentioned at Para 3 as per Specifications mentioned at Para 4, at the locations mentioned at Para 2, to be carried out by the vendor.
2. Manpower, transport, equipment, services, etc required to execute the above lies within the scope of the vendor.
3. Work shall be deemed completed only upon receipt of all listed equipment and completion of all inspections and training post commissioning of the same.

3.1. Supply

1. Supply of material shall be in brand new condition with packaging as per the quantity and specifications mentioned in various paragraphs of this document, with all the required paperwork.

3.2. Installation

Installation to be undertaken by a licensed Electrical technician and copy of valid electrical contractor license shall be submitted along with Part-1 technical bid.

The followings are in the vendor's scope:

1. Dismantling & removing of existing Equipment on Cranes that is to be replaced.
2. Installation, Testing and commissioning of all Equipment in the SOW work.

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3. Arranging Inspection by Electrical Inspector as per statutory requirements.
4. All statutory approvals permissions NOC required for supply, installation, testing and commissioning as per applicable laws / rules/ act/regulations shall be obtained by successful bidder.
5. The entire prospect including all expenses and liasoning with electrical inspectors and other agencies (i.e. Power supply authority) required for installation, testing and commissioning shall be in vendor's scope.
6. Any other items required for successful commissioning of Load Measurement and Signal Horn Systems on the mentioned cranes, but not listed explicitly in this document shall be in the scope of contractor.
7. Any specials tools required for installation is in vendor's scope
8. Responsibility for safety of technicians working to execute the SOW lies with the vendor. Provision of PPE and all other safety gear as well as obtaining all mandatory safety clearances for working at height on a crane shall be the responsibility of the vendor.

Note: Bidders shall visit the site to understand and assess the scope of work.

3.3. Commissioning

1. Post installation, setting to work of the system(s), any fine tuning, optimisation, calibration, setup of software, etc till achievement of full functionality in all cranes is in the scope of the vendor.
2. Post installation inspections, on site calibration, and other such activities are in the scope of the vendor.

3.4. Training and Maintenance

1. Training for Operation and routine maintenance of the equipment shall be provided to ten MDL personnel at the installation site by the supplier free of cost. The contractor will prepare a training journal (Qty 02) which will include SOPs (Standard Operating Procedures), Safety Precautions etc.
2. The supplier will prepare 10 Training documents containing SOPs (Standard operating Procedures) and actions to be taken in case of Emergency like fire, short-circuit etc
3. The supplier will have to provide a maintenance Preventive Chart consisting of Daily, monthly, quarterly, half yearly and yearly activities.
4. Supplier shall provide 02 sets of all accessories required for carrying out maintenance activities of all equipment supplied.
5. All relevant drawings, documents and instruction manuals to be submitted.

3.5. Testing

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1. Factory Tests

All routine tests shall be performed in presence of MDL's representatives. The supplier shall give at least fifteen (15) days advance notice of the date when tests are to be carried out at manufacturer site.

2. Test Certificate

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a. Certified reports of all the tests carried out at the works shall be furnished in three (3) copies for approval of MDL.
b. The equipment shall be dispatched from works only after receipt of clearance by MDL in writing.

4. Other Conditions

4.1. Warranty

1. Warranty must be for a period of 36 months from date of acceptance of Commissioning by MDL.
2. The vendor shall have final and total single point responsibility for the performance of the equipment and all components supplied under this specification.
3. The supplier shall

   a) Warrant that the equipment and all materials to be free from defects in design, material and workmanship.
   b) Warrant that the equipment/system will satisfy the requirements of the intended use and be suitable for the application.
   c) Agree to repair or replace any component under this warranty, which proves to be defective within a minimum time after being placed in operation at site.
   d) Assume responsibility for obtaining manufacturer's performance warranty for all items purchased by the supplier.
   e) Vendor shall provide responsive action within 24 hours of raising of any issue.

4.2. Service Level Agreement / Penalty during Warranty

1. All breakdown calls shall be logged by MDL by Verbal Communication, Phone /email.
2. Vendor should attend the call within 24 hours of reporting the issue and to be resolved within 48 hours failing which penalty of Rs. 1000/- per incident per calendar day will be imposed to vendor which includes Saturday, Sunday and Public Holidays.
3. Saturday, Sunday and Public holidays are included in penalty calculations. Ex. If an issue is reported on Friday or on a day (after which is there is public holiday), post 3 pm, then the next day shall be considered for start of resolution even if it is a Sat, Sun or Public Holiday.
4. If vendor fails to resolve issue within 15 days, or if the issue persists frequently, the complete defective item shall be replaced free of cost by the seller within a stipulated period of 30 days of receipt of notification from Buyer.

4.3. Packing and Transportation

Equipment shall be shall be wrapped with protective wrap transported to site packed in Wooden crates to prevent any damage. The crates shall have skid bottom for handling.

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The same shall be unloaded by the contractor at MDL site. MDL will provide only the crane facility for unloading.

4.4. Work Completion Period

The Supply, Installation, Commissioning and testing of all systems/equipment at site, shall be completed within **3 months** after receipt of order.

4.5. Deviation

In the event of any deviation from this specification the same shall be clearly indicated at the time of offer itself. No deviation will be accepted after the placement of the order.

4.6. Installation on site

1. Dismantling, removal and shifting of the old equipment to a designated place in MDL is in bidder's scope. MDL will provide forklift and Hydra if required.
2. Work shall be carried out during normal working days ie Mon-Friday during normal work hours ie 0830 hrs to 1700 hrs.

4.7. Inspection

1. After completion of erection/installation each piece of equipment, it shall be thoroughly inspected in presence of the MDL Engineer for correctness and completeness of erection and acceptability for start-up.
2. Inspection sheet for the same shall be issued by MDL.

4.8. Testing and Commissioning

a) After completion of erection work, tests shall be conducted by the supplier/OEM.
b) 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.
c) These tests shall be conducted in presence of MDL Engineer and according to his directions.
d) All temporary arrangements and connections required for tests shall be provided by the contractor.
e) 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.
f) Before commissioning of the equipment, the contractor should set all system parameters to their recommended values. The settings shall be conveyed to MDL in writing.
g) On successful inspection and testing. the equipment shall be commissioned and be kept under observation for a minimum period of 15 days before declaring as commissioned.

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4.9. Rectification

The contractor shall carry out all rectifications, repairs or adjustments work found necessary during testing, commissioning and observation period.

4.10. General

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

4.11. Vendor shall furnish 3 sets of following final / as built drawings

a) Single Line Diagrams & wiring diagrams
b) Bill of Materials
c) Operation Manual of System/Equipment
d) GA/Catalogues of all components.
e) Any other drawing required for operation and maintenance of the panels.

4.12. Bidders shall submit following in the techno-commercial Part- I bid for scrutiny

a) Bidders shall submit at least one Purchase order copy and its work completion certificate for successful supply of Load Cells, Displays and Signal Horns during last three years. Separate orders for each equipment may also be submitted.
b) The bidder shall be an OEM of the offered Equipment/ Systems or bidder shall have valid Authorisation Certificate from OEM's of offered Equipment/ Systems.
c) Bidder declaration for site visit confirmation
d) Duly filled Technical particulars format.

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BIDDER DECLARATION FOR SITE VISIT

To,

Mazagon Dock Shipbuilders Ltd.,

Dockyard Road, Mumbai – 400010.

Sub: Survey of the Cranes Located at Various Locations in Mazagon Dock Shipbuilder Ltd at Dockyard Campus as well as Anik Chembur Campus.

1. We have visited the installation sites on various Cranes in Mazagon Dock Shipbuilder Ltd at Dockyard Road Shipyard as well as Anik Chembur Yard on_____(Date) to survey the site and understand the scope.
2. We hereby confirm that we have understood Scope of Work For Supply, Installation and Commissioning Of Load Measurement And Signalling Horn Systems On Multiple Cranes At Mazagon Dock Shipbuilders Ltd, Mumbai.

M/s .....

SIGNATURE.....

NAME.....

DESIGNATION

COMPANY SEAL

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)

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Technical Pre-qualification (to be submitted along with Technical Bid Part-I

Sr. No.	Particulars	Documents Submitted by bidder.
Technical Pre-Qualification:		
1.	Bidder should have supplied, installed and commissioned Load Cells, Displays and Signal Horns during last three years. Bidders shall submit at least one Purchase order copy and its work completion certificate for successful supply of Load Cells, Displays and Signal Horns during last three years. Separate orders for each equipment may also be submitted.	1. Purchase Order Copy 2. Work Completion Certificate
2.	The bidder shall be an OEM of the offered Equipment/ Systems or bidder shall have valid Authorisation Certificate from OEM's of offered Equipment/ Systems.	OEM Certificate or Valid Authorization Letter from OEM
3.	Bidder shall possess valid electrical contractors license to work at designated locations.	valid electrical contractors license to work at designated locations.
4.	It is mandatory for bidder to have visited the site to understand the work and should submit the prescribed bidder declaration form for site visit.	Bidder Declaration for Site visit

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TECHNICAL PARTICULARS

(To be filled and submitted by the vendors along with the offer Tech Bid Part- I

Technical Specifications for Quantity of items mentioned in Para 3 are as follows:

4.13. **Load Cell**

Technical Specifications for Primary Hook Load Cell		
SNo	**Technical Particulars**	**Rating/Specification**
1	Compatibility with Crane Cable Thickness	
2	Type	
3	Max Rated Loading Capacity (SWL)	
4	Mounting	
5	Material	
	Output	
6	Cable Length	
7	Calibration	
8	Safety Features	
9	Shock/Vibration	
10	EMC Compliance	
11	Overload Capacity	
12	Operating Conditions	
13	Accuracy	
14	Installation Location	
15	Minimum Lifespan	
16	Data Communication	
17	Other Compliance	
18	Data Logging	
19	Operating Supply Voltage	
20	IP Rating	

4.14. **Load Cell Indicator for Crane**

Technical Specifications for Load Cell Indicator		
SNo	**Technical Particulars**	**Rating/Specification**
1	Size	
2	Display Type	
3	Operating Conditions	
4	Accuracy	
5	IP Rating	

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MANAGER (L&WN-EY)
माझगांव डॉक शिपबिल्डर्स लिमिटेड
MAZAGON DOCK SHIPBUILDERS LIMITED

एम. के. अशरफ
M. K. ASHRAF
अप्पर महाप्रबंधक (अनुरक्षण- पूर्व खंड)
ADDL.GENERAL MANAGER (MTC-EY)
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6	Functional Features	
7	Minimum Lifespan	
8	Data Communication	
9	Other Compliance	
10	Data Logging	
11	Operating Supply Voltage	
12	Display Options	
13	Vibration	
14	EMC Compliance	
15	Mounting	

4.15. **Signalling Horn for Crane**

Technical Specifications for Load Cell Indicator		
SNo	**Technical Particulars**	**Rating/Specification**
1)	Horn Type	
2)	Sound Level	
3)	Operating Conditions	
4)	IP Rating	
5)	Mounting	
6)	Vibration	
7)	EMC Compliance	

4.16. **HMI Panel for Operator Cabin**

Technical Specifications for Load Cell Indicator		
SNo	**Technical Particulars**	**Rating/Specification**
1)	Type	
2)	Functionality	
3)	Resolution	
4)	Power	
5)	IP Rating	
6)	Communication	
7)	Software	
8)	Features	

4.17. **Industry 4.0– Smart Monitoring via LAN Cable**

Industry 4.0 Compliance		
SNo	**Technical Particulars**	**Rating/Specification**

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1.	The system shall be equipped with an advanced Industry 4.0-ready Smart Monitoring (only monitoring is required on separate HMI Panel) enabling real-time remote monitoring, diagnostics, and data acquisition via LAN Cable.	
2.	The system shall support logging and visualization of all electrical and operational parameters, Operational Status, load history, emergencies, overloading, etc and other vital indicators.	
3.	The platform shall be capable of predictive maintenance analysis through trend monitoring, fault pattern detection, and event-based alerting.	
4.	The communication and data handling system must comply with relevant IEC 62443 standards or equivalent for industrial cybersecurity.	
5.	Access to system parameters and diagnostics shall be possible through HMI, local computer for the following data:	
	Integrated condition monitoring functions	
	Historical event log	
	Condition reporting	
	On site fault finding	
6.	Licensed Software for above requirement will be provide by vendor with lifetime licence and updates.	
7.	Cable supply for communication of above switchboard will be in the scope of the bidder.	

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ADDITIONAL GENERAL MANAGER (MTC-EY)

4.18. **Other Specifications**

	Other Specifications	
1.	Cable must be armoured PUR cable with resistance to rodent bites as this is a commonly faced issue.	
2.	The successful bidder shall carry out site inspection of all cranes to confirm actual size, location of equipment and to determine quantity of cable required along with any other accessories.	

Other Requirement :-		
1.	Copies of Type Test Certificates	
2.	Bidder declaration for site visit confirmation	
3.	Technical Particulars	

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