



MAZAGON DOCK SHIPBUILDERS LIMITED

(Formerly known as Mazagon Dock Ltd.)

CIN: L35100MH1934GOI002079

(A Government of India Undertaking)

Dockyard Road, Mumbai 400010. India.

Website: www.mazagondock.in

Expression of Interest (Eol) for Short Listing of Vendors for Design, Development and Supply of Lithium-Ion Battery System along with Battery Management System (BMS) for P75-India project

Department	Design Department
E-mail ID	tdhambir@mazdock.com
Phone no.	022-2376-3385
Eol no.	MDL/DESIGN/LIB/Eol/2026/01
Eol date	16-07-2026
Eol closing date	30-07-2026

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SECTION-1

SCHEDULE OF EoI PROCESS & CONTACT DETAILS

1.1 SCHEDULE OF EoI PROCESS

The schedule of activities during the EoI Process shall be as follows

Sl. No.	Description	Date
1	Issue of EoI document	16.07.2026
2	Last date of Submission of EoI response	30.07.2026 ,1700 Hrs.

1.2 CONTACT DETAILS:

Submission of proposal: Proposal (Original + one soft copy) super scribing the enquiry number, enquiry subject, last date for receipt of EoI response and all the correspondences shall be addressed to

Dy. Gen. Manager (Design Department
Mrs.Trupti Patange, DGM (Design-L&Wn)
Mail: tdhambir@mazdock.com
Phone no: 022-2376-3385

SECTION- 2

DETAILS OF EXPRESSION OF INTEREST (EoI)

2.1.ABOUT MDL

Mazagon Dock Shipbuilders Limited (MDL) is a leading submarine and shipbuilding company in the country with a Navratna Status. The company was taken over by the Government of India and established as a Public Sector Undertaking under the Ministry of Defence in 1960. Over the last six decades, MDL has delivered over 250 warships/submarines/ platforms to various customers in India and abroad. Out of these 30 major warships/submarines have been delivered to the Indian Navy. The diversified platforms delivered to various customers range from Destroyers, Stealth Frigates, Submarines, Missile Boats, Corvettes, Offshore Patrol Vessels, Multipurpose Support Vessels, Offshore Supply Vessels, Dredgers, Tugs and Cargo-Cum-Passenger Vessels.

2.2.TECHNICAL REQUIREMENT

2.3.AIM

Design, development and supply of Lithium-Ion Battery (LIB) System along with Battery Management System for P75-India project for 06 submarines. The total capacity of LIB system is envisaged to be approximately 20.64 MWh.

2.3.1. SCOPE OF THE PROJECT

- i. Selection of type of cells for making a battery module that would provide maximum capacity and robust safety.
- ii. Design and development of Cells and battery modules (arrangement of cells in parallel or series).
- iii. Design and development of battery packs for the capacity of approximately 20.64 MWh with 740-800VDC rated voltage for the LIB System.
- iv. Design and development of the Battery Management System (BMS)
- v. Design, development and integration of an efficient thermal management (cooling) system for the safe, reliable and efficient operation of the Lithium-Ion Battery (LIB).
- vi. Type testing of prototype for lithium-ion batteries as per standards.
- vii. Factory Acceptance trials (FAT) for production series of Lithium-ion battery system along with Battery Management System.
- viii. Supply of Lithium-ion battery system along with Battery Management System.
- ix. Test and Trials.

2.3.2. GENERAL REQUIREMENTS

- i. Type of Cell chemistry is Lithium-Iron Phosphate (LFP)
- ii. Cells must be manufactured in India and technology used for their production shall not be sourced from a country which shares a land border with India under GFR Rule 144 (xi) on the grounds of Defence of India and National Security for information and compliance. Firm shall submit a Compliance Certificate w.r.t.

Land Border Clause as per Annexure -4.

- iii. Land based test facilities (LBTF) is required to be arranged by the firm for prototype testing.
- iv. Actual production series will start after successful completion of prototype (Prototype capacity will be mutually decided during tendering process)
- v. Design, development and supply of actual series of Lithium-ion batteries are to be supplied within 36 months for 1 set from the date of order, including the prototype type testing.
- vi. If the firm has already developed LFP-based battery packs, please specify the Technology Readiness Level (TRL) achieved.
- vii. Firm shall submit a technical proposal detailing its technology validation process, covering the transition from prototype development to actual production on the platform
- viii. Firm shall submit a detailed design, development and supply plan including project timelines
- ix. Firm shall submit the risk mitigation plan for the overall end to end product for design, development and supply of lithium-ion batteries.
- x. Firm to propose the suitable firefighting system for lithium-ion battery system

Note: Detailed technical specifications will be shared against the Non-Disclosure Agreement (NDA)

2.3. SEALING AND MARKING OF RESPONSES:

The Firms shall submit their offers by e-mail, registered post, courier or by hand at the following office address on or before the last date and time for receipt of offers as mentioned in the EoI documents. The envelope shall be addressed to:

Mrs. Trupti Patange
Dy. Gen. Manager (Design Department)
2nd Floor, South block Building
Mazagon Dock Shipbuilders Limited, Dockyard Road,
Mumbai 400010
Phone no: 022-2376-3385
Mail: tdhambir@mazdock.com

2.4 SUBMISSION OF RESPONSE:

- i. The Firm(s) may submit the response as per EoI schedule. MDL may ask firm(s) for clarifications or additional documents/ credentials at its discretion. Clarifications (if any) will be e-mailed to the firm(s).
- ii. All pages of the response should be signed by only the authorized person(s) of the company/firm. Any interlineations, erases or overwriting shall be valid only if the person(s) signing the response authenticates them. The response should bear the rubber stamp of the firm on each page.

- iii. Firm can submit the Offer in sealed envelope super-scribing EoI no., Name of the EoI and Due Date.

2.5 PARTICULARS:

- i. This should not be treated as a commercial tender document and parties are advised not to offer their prices or include any financial aspect with the response to EoI.
- ii. MDL reserves the right to restrict the list of pre-qualified parties/firms to any number deemed suitable by it.
- iii. Even though firm may satisfy the above requirement, he would be liable to disqualification if it has made misleading or false representation or deliberately suppressed the information in the forms, statements and enclosures required in the EoI prequalification document.

2.6 CLARIFICATION OF EoI DOCUMENTS:

Raising of queries/clarifications on request for EoI document: The firm(s) requiring any clarification on this document should submit their written queries with EoI details to the following email:

tdhambir@mazdock.com

- i. The firm(s) are required to keep a watch on the MDL Web site portal w.r.t. any amendment in the EoI document or to clarification to the queries raised by the firms till a day prior to the opening of the response. MDL reserves the right for rejection of responses if the responses are submitted without taking into account these amendments/clarifications. Further firm will be fully responsible for downloading of the EoI document and amendments for their completeness.
- ii. The right to suspend the short-listing process or part of the process to accept or reject any or all applications at any stage of the process and/ or to modify the process or any part thereof at any time without assigning any reason is reserved by MDL without any obligation or liability whatsoever.

2.7 UNCONDITIONAL RESPONSES:

Firms may note that MDL may not entertain any deviations to the EoI Document at the time of submission of the Offer or thereafter. The Offer to be submitted by the Firms will be unconditional and the Firms would be deemed to have accepted the terms and conditions of the EoI Document with all its contents. Any conditional Offer may be regarded as non-responsive and could be liable for non-consideration. Firm has to submit no deviation certificate along with the response.

2.8 VALIDITY OF THE OFFER:

The offer shall be valid for a period of not less than 180 days from the offer due date, or any extensions.

2.9 AMENDMENT TO EoI DOCUMENTS:

- i. At any time, prior to the date of submission of offer, the MDL may for any reason, whether at its own initiative or in response to a clarification requested by a prospective firm, may modify/alter any terms & conditions of the EoI documents by amendments.
- ii. The amendments shall be posted on the MDL web site and these amendments will be binding on them.
- iii. In order to give prospective firms reasonable time to take the amendments into account while preparing their responses or for any other reason, the MDL may, at its discretion, extend the last date / time for the submission of responses suitably.

2.10 FINAL DECISION-MAKING AUTHORITY:

MDL reserves right to accept or reject any application and finalize the pre-qualification process and reject all application at any time, without assigning any reason whatsoever and shall not be held liable for any such action.

2.11 INSTRUCTIONS

- i. Language: All correspondences and documents related to the EoI response shall be in english language only.
- ii. The participating firm shall response by the terms & conditions, as applicable, of the EoI.
- iii. All pages of the response shall be duly signed by the authorized signatory.
- iv. The offer/response submitted shall be sealed properly
- v. Multiple proposals from the same participating firm or its subsidiaries/ancillaries should not be submitted.
- vi. MDL at their discretion shall inspect the participating firm works/office/reference site premises for the purpose of evaluation, as deemed necessary before selection of partner. MDL decision in this regard shall be final.
- vii. Any participating firm which has been debarred/blacklisted by Central/State Governments or by any entity controlled by Central/State Governments from participating in any of their project, as on date of submission of response, shall not be eligible to submit the response. Firm shall submit a declaration of not being blacklisted, debarred, or suspended by relevant authorities as per Annexure-5.

2.12 PROCESS TO BE CONFIDENTIAL

Information relating to the examination, clarification, evaluation and comparison of responses and recommendations shall not be disclosed to participating firm. Any effort by participating firm to influence MDL processing of EoI response or selection decisions may result in the rejection of the EoI response.

2.13 MISCELLANEOUS

2.13.1 RIGHT TO ACCEPT OR REJECT ANY OR ALL APPLICATIONS

- i. Notwithstanding anything contained in this EoI, MDL reserves the right to accept or reject any application and to annul the EoI process and reject all applications, at any time without any liability or any obligation for such acceptance, rejection or annulment and without assigning any reasons, thereof. In the event that MDL rejects or annuls all the applications, it may at its discretion, invite all eligible participating firms to submit fresh applications.
- ii. MDL reserves the right to disqualify any applicant during or after completion of EoI process, if it is found there was a material misrepresentation by any such applicant or the applicant fails to provide within the specified time, supplemental information sought by MDL.
- iii. MDL reserves the right to verify all statements, information and documents submitted by the applicant in response to the EoI. Any such verification or lack of such verification by MDL shall not relieve the applicant of his obligations or liabilities hereunder nor will it affect any rights of MDL.

2.13.2 GOVERNING LAWS & JURISDICTION

The EoI process shall be governed by and construed in accordance with, the laws of India and the Courts at Mumbai (India) shall have exclusive jurisdiction over all disputes arising under, pursuant to and / or in connection with the EoI process.

SECTION-3

PRE-QUALIFICATION CRITERIA

The determination of eligibility will take into account the technical and experience capabilities and past performance of the participating firm; it will be based upon an examination of documentary evidence of the participating firm qualifications submitted by the participating firm as well as such other information, as the MDL deems necessary and appropriate. The participating firm willing to associate with MDL should meet the following Pre-Qualification Criteria:

3.1. TECHNICAL QUALIFICATION

The Firms shall submit the following as a part of technical qualification.

- i. Firms Company Profile.
- ii. List of infrastructure/equipment's held by firm which shall include but not limited to R&D / product development facility, Manufacturing Facility, Quality Control and Testing Facility
- iii. Details of personnel (Project Management Team) with designation, qualification and experience in respective roles to determine their capabilities.
- iv. Firms to submit relevant documents showing experience the Energy Storage System (ESS)/project / work performed during last 05 years. (Should mention: Application, Types of Cells, Type of Battery and Energy Installation in kWh, % indigenization content to be indicated by this firm) in support of above. Firm has to submit documentary evidence (PO copies, Work Done Certificates/ Seller Tax invoice/ Third Party Inspection release note, Appreciation letter etc.) in support of the same.
- v. Valid ISO 9001:2015 Certificate
- vi. Firm should have expertise in cell manufacturing and Battery Management System or similar testing/management equipment design. Firm to submit earlier experience certificate related to Battery Management System design and details related to Manpower and Infrastructure for Battery Management System design.
- vii. Should be willing to undertake cell level testing of claimed parameters at any NABL accredited Lab and should be willing to submit a sample cell for verification trials.
- viii. Compliance and Certifications: The firm must be compliant with relevant industry standards, regulations, and certifications necessary for the manufacturing of defence related equipment.
- ix. Capacity and Timelines: MDL might evaluate the firm's capacity to handle the production volume within the specified timelines.
- x. Compliance with Security Protocols: Since defence-related projects involve sensitive information, the firm may need to demonstrate its ability to adhere to strict security protocols and maintain confidentiality.

3.2.COMMERCIAL QUALIFICATION

The EoI participant shall submit the following as a part of commercial qualification.

- 3.2.1.** The EoI participant shall not be under a declaration of ineligibility issued by Govt. of India / State govt. / Public Sector Undertakings etc. Firm should submit declaration in this respect.

3.2.2. Indian Firms

- I. Shop & Establishment registration certificate.
- II. Factory License.
- III. Certificate of Incorporation / Partnership deed as applicable.
- IV. Registration certificate from local bodies for conducting business.
- V. MSME, Startup certificate
- VI. GST certificate

3.3.FINANCIAL QUALIFICATION

- I. Shall have Average Annual turnover of Rs. 900 crores during the last three years ending as on 31 Mar 2026 to participate in this EoI. Balance sheet / other proof to be submitted.
- II. The Firms shall enclose with its Proposal as per Annexure-2, certificate issued by Chartered Accountant with their seal and signature, stating the firms net worth & turnover during the past three years. Firm to submit Audited Balance Sheet and Profit and Loss statement for last 3 years.
- III. Firms shall demonstrate access to unutilized line of credit / overdraft facility / cash credit facility from its consortium of banks. Alternatively, or complementarily should demonstrate liquid asset in form of cash / marketable securities in its balance sheet.

SECTION- 4

Response Rejection Criteria: - MDL may at its sole discretion and at any time during the evaluation of proposal, disqualify any Firms, if they have:

- i. Responses received after due date.
- ii. Firm's failure to furnish sufficient or complete details for evaluation of the responses within the given period.
- iii. Incomplete / misleading / false / ambiguous in the proof of eligibility requirements.
- iv. Failed to produce timely clarifications related thereto, when sought.
- v. Responses not meeting qualification criteria mentioned above.
- vi. Responses with technical requirements and or terms not acceptable to MDL.
- vii. Information relating to the evaluation, clarification and recommendation for pre-qualification shall not be disclosed to Firms or any other persons not officially concerned with such process until the pre-qualification process is completed. Any effort by the Firms to influence MDL prequalification process may result in rejection of his EoI-response.

SECTION- 5

DISCLAIMER

- i. MDL, its employees and advisors make no representation or warranty and shall incur no liability under any law, statute, rules or regulations as to the accuracy, reliability or completeness of the EoI document.
- ii. MDL may, in its absolute discretion, but without being under any obligation to do so, modify, amend or supplement the information in this EoI document.
- iii. The issue of this EoI does not imply that MDL is bound to select and shortlist any or all the participating firm. Even after selection of suitable participating firm, MDL is not bound to proceed ahead with the participating firm and in no case be responsible or liable for any commercial and consequential liabilities in any manner whatsoever.
- iv. The participating firm shall bear all costs associated with the preparation, technical discussion/presentation and submission of EoI response. MDL shall in no case be responsible or liable for these costs regardless of the conduct or outcome of the EoI process.
- v. Canvassing in any form by the participating firm or by any other agency on their behalf shall lead to disqualification of their EoI response.
- vi. This EoI is for the limited purpose of identifying competent firms for design, development and supply of Lithium-Ion Battery system along with Battery Management System for P75-India project.

SECTION-6

Documents to be submitted along with EoI Response

SUBMISSION OF EoI Response: List of documents to be submitted as part of EoI response

Participating firm should submit following documents along with their Proposal.

Sr.no	Document Description	Filled in Formats to be Submitted with Proposal	Remarks
1.	Covering Letter		As per attached format
2.	General information	Annexure-1	
3.	Financial Information	Annexure-2	
4.	Specification of Lithium-Ion Battery developed by Firm (To be filled by firm)	Annexure-3	
5.	Pre-Qualification Document		As per section-3
6.	Documents / Presentation in support of proposal		
7.	Compliance Certificate w.r.t. Land Border Clause	Annexure-4	
8	Declaration of not being blacklisted, debarred, or suspended by relevant authorities.	Annexure-5	

Eol FORMS

FORMAT FOR COVERING LETTER
[On the Letterhead of the Participating firm]

To,
Deputy General manager (Design)
Mazagon Dock Shipbuilders Limited (MDL)
Dockyard Road, Mumbai-400010, India
Ref: Submission of Expression of Interest (Eoi)

Sir,
Being duly authorized to represent and act on behalf of(Hereinafter Referred to as “the Applicant”), and having reviewed and fully understood the evaluation criteria and information provided, the undersigned hereby applies in response to the Eoi document. We would like to associate with MDL for Lithium-Ion Battery system along with Battery Management System for P75-India project.

We understand that you are not bound to accept the Eoi response.
I am enclosing the Expression of Interest with the details as per the requirements of the Eoi document, for your evaluation.

I hereby declare that the details furnished in this Eoi proposal are true and correct to the best of my knowledge and belief. In case any of the information is found to be false or untrue or misleading or misrepresenting, I am aware that I will be held liable for it and MDL is free to take any legal / commercial action not limited to barring / blacklisting.

We hereby declare that we are not under a declaration of ineligibility / blacklisting /debaring from doing business issued by Govt. of India / State govt. / Public Sector Undertakings etc.

Yours faithfully,

(Signature & Seal of Authorized Signatory) Name:

Designation: Date:

Address:

General Information to be submitted by Applicant along with cover letter

1. Name of the Company/ Companies (if consortium):
2. Legal status of the Company(ies):
3. Brief description of the Company(ies) including details of its business groups/subsidiaries/ affiliates:
4. Date of Incorporation:
5. Date of Commencement of Business:
6. Full address including Telephone nos. /
Fax nos.: Registered Office:
Head Office:
Address for communication:
Contact Details:
Office Address in India, if any:
7. Documents to be enclosed:
 - a. As per pre-qualification criteria

Signature & Seal: Authorized
Signatory of the Party

FINANCIAL INFORMATION

Name: [Insert Full Name]

Date: [Insert day, month, year] legal

1. Financial Data

Sl. No.	Last three Financial Year	Annual Turnover	Profit after Tax (PAT)	Net worth as at the end of the financial year
1				
2				
3				

2. Financial documents

The participating firm shall provide copies of the financial statements including balance sheets, P&L and related income statements for latest 3 years.

The financial statements shall:

- Reflect the financial situation of the participating firm submitting EoI response
- Be audited by a certified accountant.
- Be complete, including all notes to the financial statements.
- Correspond to accounting periods already completed and audited (no statements for partial periods shall be accepted).

(Signature & Seal)

Authorized Signatory of the Party

CERTIFICATE FROM CHARTERED ACCOUNTANT

This is to certify that _____ (name of the Applicant) has received the payments shown above against the respective years and that the net worth is as computed.

Name of the Authorized Signatory representing auditing firm:

Designation:

Name of firm (Chartered Accountant):

Signature of the Authorized Signatory:

Seal of Audit firm.

Annexure 3**Specification of Lithium-Ion Battery solution with Battery Management System developed by Firm (To be filled by firm)**

Firm shall submit the design and development documents regarding BMS along with following specification

Electrical		
Cell		
Module Configuration		
String Configuration		
Pack Configuration		
Capacity (Nominal)		
Voltage (Nominal)		
Charge rate		
Discharge rate		
Internal / external Communication Type		
Cooling		
Usable Pattern		
Charge end Voltage		
Discharge end Voltage		
Max Charge Current		
Max Discharge Current		
Environmental		
Operating Temperature		
Operating Humidity		
Storage Temperature		

Mechanical	
Module Dimension	
Module Weight	

Module Material	
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Protection	
Over/Under Voltage	
Over Temperature	
Over current	
Over/Under SOC	
Short Circuit	
Inrush Current	

Annexure 4

Declaration of Compliance of Order (Public Procurement No.1, 2 & 3) dtd 23 Jul 2020 & 24 Jul 2020 and OM No F.7/10/2021/-PPD(1) dated 23.02.2023 on Restrictions under Rule 144 (xi) of the General Financial Rules (GFRs), 2017

Before completing this declaration, bidders must study the General Conditions, Definitions, Govt. Directives applicable in respect of Public Procurement No.1, 2 & 3) dtd 23 Jul 2020 & 24 Jul 2020 and OM No F.7/10/2021/-PPD(1) dated 23.02.2023 on Restrictions under Rule 144 (xi) of the General Financial Rules (GFRs), 2017 & prescribed tender conditions).

DECLARATION BY AUTHORISED SIGNATORY OF THE FIRM

I, the undersigned, (full names),
do hereby declare, in my capacity as
of M/s (name of bidder entity), that:

1) The facts contained herein are within my own personal knowledge.

2) I have read the Order (Public Procurement No.1, 2 & 3) dtd 23 Jul 2020 & 24 Jul 2020 and OM No F.7/10/2021/-PPD(1) dated 23.02.2023 on the subject of Restrictions under Rule 144 (xi) of the General Financial Rules (GFRs), 2017 regarding restrictions on procurement from a bidder of a country which shares a land border with India and comply to all the provisions of the Order

3) I certify that M/s (name of bidder entity) **is not from such a country / is from such a country** and registered with the Competent Authority (strike out whichever is not applicable). I hereby certify that this SUPPLIER fulfills all requirements in this regard and is eligible to be considered. [Where applicable, evidence of valid registration by the Competent Authority is attached]

4) I understand that the submission of incorrect data and / or if certificate / declaration given by M/s (name of bidder entity) is found to be false, this would be a ground for immediate termination and further legal action in accordance with law as per Clause 12 of the Public Order on Restrictions under Rule 144 (xi) of the General Financial Rules (GFRs), 2017

AUTHORISED SIGNATURE: _____

DATE: _____

Seal / Stamp of Bidder

UNDERTAKING REGARDING NOT BEING BLACKLISTING

(Undertaking on Company Letter Head)

It is hereby certified that, I/we _____ are not blacklisted/debarred/suspended by any Ministry/ Departments of Central/ State Government, International bodies like United Nations, World Bank or any other organisation/ Funding Agencies as on date.

Place: _____

Date: __/__/__

Signature of Authorized
Signatory

Name: _____

Designation _____

Company Seal