

**MAZAGON DOCK SHIPBUILDERS LIMITED**

(Formerly known as Mazagon Dock Ltd.)

**CIN: U35100M****H1934GOI002079**

(A Government of India Undertaking)

Dockyard Road, Mazgaon, Mumbai 400010. India.

Certified – ISO 9001:2008 for Shipbuilding Division

Website: [www.mazagondock.in](http://www.mazagondock.in)**EXPRESSION OF INTEREST (EOI)**

<b>Department</b>	<b>: Planning Additional Project – East Yard</b>
<b>E-mail ID</b>	<b>: <a href="mailto:atulkverma@mazdock.com">atulkverma@mazdock.com</a>/subhendusingh@mazdock.com</b>
<b>Phone no.</b>	<b>: 022 - 23763596</b>
<b>Fax</b>	<b>: 022 - 23724932</b>
<b>EOI no.</b>	<b>: EY/PLG/AP/UV/2020/05</b>
<b>EOI date</b>	<b>: 19 August 2020</b>
<b>EOI closing date &amp; time</b>	<b>: 10 September 2020, 15:00hrs. IST</b>
<b>EOI opening date &amp; time</b>	<b>: 10 September 2020, 15:15hrs.</b>

**CALL FOR EXPRESSION OF INTEREST FOR PARTICIPATION IN  
BUILDING UNDERWATER VEHICLE & SPECIAL PURPOSE CRAFT**

**1. Introduction**

- a) Mazagon Dock Shipbuilders Limited (MDL) is a premier Shipbuilding Yard in India, located in Mumbai, under the Administrative control of Department of Defence Production, Ministry of Defence, Government of India.
- b) MDL has state of the art infrastructure, expertise & requisite technology for new submarine construction and submarine refit.
- c) To diversify its product portfolio, MDL is looking forward to collaborate with firms, which are technically competent and have proven track record of undertaking work in Design and/or Manufacturing of Underwater vehicles, Special Purpose Craft & Artificial Intelligence in marine application. The list of vessels under this category for collaboration is attached as Annexure-1.
- d) Vessels enlisted for collaboration will be constructed on work share basis with the utilization of each other's facilities.

- e) Interested parties should submit relevant documents of similar completed/on-going projects for evaluation. Firm can submit product catalogue of similar vessel, indicating physical & operation characteristics, essential features and other relevant details. Broad specification & required features of the vessel are placed as Annexure-2 which is required to be filled by firm and submit along with the proposal.
- f) The qualified firms of this EOI shall be short listed accordingly and a Non-Disclosure Agreement (NDA) shall be signed between MDL and each of these parties regarding the confidentiality of Techno Commercial Aspects. Other terms and conditions will be discussed & finalized with the shortlisted firms. Subsequently, tender will be issued only to these shortlisted firms through Limited Tender Enquiry (LTE). Shortlisting of firms will be done as per MDL procurement procedure based on prequalification (technical, commercial and financial) documents submitted by firm & this will be binding on bidders.

## **2. Pre-Qualification Criteria**

### **Bidder shall Submit**

#### **a) Technical Qualification: -**

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

- i. Bidders Company Profile.
- ii. List of infrastructure/equipment held by them along with details of their manufacturing facilities.
- iii. Details and personnel (Project Management Team) with designation, qualification and experience to determine their capabilities.
- iv. Bidder to submit relevant documents for the similar project / work performed during last 03 years. Tentative required Technical specification of required Vessels is enclosed as **Annexure-2**. Firm can submit product catalogue of similar vessel, indicating physical & operation characteristics, essential features and other relevant details.
- v. Bidder to submit a declaration on its letter head stating that firm is not under any litigation and under any notice of ineligibility issued by Govt. of India/State Govt./ Public Sector Undertakings etc.
- vi. ISO 9001:2005 or higher certificate

#### **b) Financial Qualification: -**

- i. Shall have Avg Annual turnover of **Rs. 30 Cr (min)** during the last three years ending as on 31 Mar 2020 to participate in this EOI. However, this criteria may be relaxed for the Start-ups/MSMEs companies, having

- developed or in the process of developing innovative products for marine application. MDL reserves the right for final decision.
- ii. The Bidder shall enclose with its Proposal as per **Annexure-3**, certificate issued by Chartered Accountant with their seal and signature, stating the firms net worth & turnover during the past three years.
  - iii. Bidder shall demonstrate access to unutilised line of credit / overdraft facility / cash credit facility from its consortium of banks. Alternatively, or complimentarily should demonstrate liquid asset in form of cash / marketable securities in its balance sheet.

**3. Instruction to Bidders Responding to EOI: -**

- a) MDL reserves the right to modify, expand, restrict, scrap this proposal or reject any Expression of Interest without assigning any reason thereof.
- b) MDL reserves the right to make inquiries with any of the clients listed by the bidders in their previous experience record. Further MDL may ask the firm to make presentation to understand the capability of the firm w.r.t project planning, capability, experience, approach methodology etc.
- c) The interested parties may visit MDL facilities at Mumbai and Nhava to assess the workplace and get first-hand information regarding the infrastructure.
- d) It may be noted that MDL will not reimburse any cost incurred by the bidders towards the preparation and submission of the EOI.
- e) The proposal and all associated correspondence shall be in English.
- f) MDL reserves the right to visit the work facility of bidders to verify the adequacy of specialised work being undertaken vis-a-vis the infrastructure available. In the absence of adequate infrastructure facilities, the offer submitted is liable for rejection and hence will not be considered for prequalification.

**4. Bid Rejection Criteria: -MDL may at its sole discretion and at any time during the evaluation of proposal, disqualify any bidder, if they have:**

- a. Bids received after due date.
- b. Bidder's failure to furnish sufficient or complete details for evaluation of the bids within the given period.
- c. Incomplete / misleading / false / ambiguous in the proof of eligibility requirements.
- d. Failed to produce timely clarifications related thereto, when sought.
- e. Bids not meeting qualification criteria mentioned at Para 2 above.
- f. Declared ineligible by the Government of India / State govt. / Public sector undertaking.
- g. Bids with technical requirements and/or terms not acceptable to MDL.
- h. Information relating to the evaluation, clarification and recommendation for pre-qualification shall not be disclosed to bidders or any other persons not officially concerned with such process until the pre-qualification process is

completed. Any effort by the bidder to influence MDL prequalification process may result in rejection of his EOI.

**5. Submission of Proposal Against Expression of Interest: -**

Proposal (Original + one soft copy) super-scribing the enquiry number, enquiry subject, last date for receipt of EOI and shall be addressed to '*Chief Manager (Planning-East Yard), Mazagon Dock Shipbuilders Limited, Dockyard road, Mumbai 400010*', with all credentials mentioned above.

**6. The contact point for any clarification / correspondence at MDL, Mumbai is:**

Sanjay K Singh  
AGM (PLG-EY)  
Contact No- 022-23763591

Atul Kr. Verma (CM)/  
Subhendu K. Singh(M)(PLG-EY)  
Contact no- 022-23763596

Yours faithfully,  
For Mazagon Dock Shipbuilders Limited,

HOD (Commercial-EY)

**List of annexures:**

- a. Annexure - 1: Area of collaboration
- b. Annexure - 2: Tentative required Technical specification of Vessel
- c. Annexure - 3: Format for Financial Capability

**Annexure-1**  
**Area of collaboration**

A) MDL is looking forward to finalize collaborator, having expertise in the field of design and/or manufacture of Underwater Vehicles and Special Purpose Craft (SPCs) as enumerated below:

Underwater Vehicle:

- a) Unmanned Underwater Vehicle
  - (i) Autonomous Underwater Vehicle (AUV): With defence, commercial and research capability
  - (ii) ROV: Intended for Defence, Commercial and research purpose
- b) Hybrid Remotely Operated Vehicle (HROVs): Dual functionality of AUV & ROV in a single platform
- c) Human Occupied Vehicle (HOVs)
- d) Manned Submersible
- e) Hybrid Submersible/Surface Vessel

Special Purpose Craft:

- a) Seal Delivery Vehicle (SDV): Primarily intended for defence purpose. The vessel should have capability of clandestine insertion and extraction at extended ranges in high threat density areas.
  - b) Unmanned Surface Vehicle: With defence, commercial and research capability
- B) Firms with expertise in Artificial Intelligence in Marine application may also respond to this EOI.
- C) The broad operation requirements and physical features are attached as **Annexure-2**. Firm is requested to fill Annexure-2 and submit along with proposal.
- D) MDL is having expertise in new submarine construction and submarine refit. Any firm having interest to collaborate with MDL to leverage respective expertise for future business can respond to this EOI.
- E) Start-ups/MSMEs companies, having developed or in the process of developing innovative products for marine application, can also participate against this EOI.

**Annexure-2****Tentative required Technical specification of Vessel**

Bidders are required to specify the tentative required technical specification relevant to type of vessels enlisted in **Annexure-1**. MDL expects the collaborators to provide the option of best vehicle with optimum performance and high range of operation. Collaborators may add on additional features for its best performance and can be mentioned in their technical specification.

Sr. No.	Descriptions	Firm to specify relevant data
<b>Operational features</b>		
01	<ul style="list-style-type: none"> <li>a) Operational range (at various speed)</li> <li>b) Mission depth</li> <li>c) Mode of deployment: Can it be launched from surface craft, rotary wing aircraft, and submarine.</li> <li>d) Capability of vessel to operate in each mode: (Autonomous / semi-autonomous/Remote)</li> <li>e) Manoeuvrability capability of vehicle, Turning Radius.</li> <li>f) Whether vessel is a modular design?</li> <li>g) Details of payload sensors that the Vessel may be equipped with.</li> <li>h) Endurance (at various speed and power option)</li> <li>i) Stealth features</li> <li>j) Details of payloads with its specification available for various defence application:               <ul style="list-style-type: none"> <li>i) Mine Countermeasures (MCM)</li> <li>ii) Rapid Environmental assessment (REA)</li> <li>iii) Intelligence, surveillance and reconnaissance (ISR)</li> <li>iv) Anti-Submarine Warfare (ASW)</li> <li>v) Force Protection Measure (FPM)</li> </ul> </li> <li>k) Details of the payload with its specification for various commercial and Research purposes:               <ul style="list-style-type: none"> <li>i) FPSO, Rigs, Subsea Works</li> <li>ii) Mining, Bathymetry</li> <li>iii) Deep Water Survey, Inspection</li> </ul> </li> <li>l) Details of comprehensive software suite for mission planning, real time mission monitoring as well as data post processing</li> <li>m) Low acoustic signature, magnetic field around the vehicle body, Radar cross section, IR signature</li> <li>n) Replaceable payload modules /Sensor modules for military and commercial purposes</li> <li>o) Vehicle operation capability in varying condition of temperature and humidity.</li> </ul>	
<b>Physical features</b>		

02	<ul style="list-style-type: none"> <li>a) Dimension of the craft (Length, Depth, Beam. O.D.).</li> <li>b) Displacement.</li> <li>c) Operational life of vehicle.</li> <li>d) Weight.</li> <li>e) Speed (Maximum and Economical).</li> <li>f) Stability calculation of the vehicle (if yes, whether it is certified from any international classification society under IACS).</li> <li>g) Any other International certification/compliance report relevant to vehicle or equipment.</li> <li>h) Reserve Buoyancy.</li> <li>i) Hull form and material of construction</li> </ul>	
<b>Propulsion and Power Management system</b>		
03	<ul style="list-style-type: none"> <li>a) Type of propulsion.</li> <li>b) Type of propeller and rudder.</li> <li>c) Type of power generation (such as rechargeable batteries, aluminium based semi-fuels) on craft and its specification.</li> <li>d) Power Management System for the vehicle</li> <li>e) Mention the equipment fitted on the vehicle and its power rating.</li> <li>f) Redundancy in propulsion and power management system.</li> </ul>	
<b>Navigation and Communication</b>		
04	<ul style="list-style-type: none"> <li>a) Elaborate on the navigational equipment with its operation and Technical parameters.</li> <li>b) Details of Communication options with its range of connectivity to control station.</li> <li>c) Modes of connectivity of Vessel with control station.</li> </ul>	
<b>Emergency system and Safety</b>		
05	<ul style="list-style-type: none"> <li>a) Mention the emergency response of the Vessel.</li> <li>b) Equipment installed to ensure safety of vessel under emergency situation.</li> </ul>	

**Annexure-3****FORMAT FOR FINANCIAL CAPABILITY**

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

**To be signed by the Authorized Signatory of the Applicant with Name, Designation, seal and date.**

\_\_\_\_\_

**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**