

## **REQUEST FOR INFORMATION**

1. The Indian Coast Guard (ICG), Ministry of Defence, Government of India, intends to procure **27 Flexible barges (30 tons capacity) and 21 Flexible Barges (10 tons capacity) during pollution response operation at sea.**

2. This Request for Information (RFI) consists of three parts as indicated below:-

(a) **Part-I.** The first part of the RFI incorporates operational characteristics and features that should be met by the equipment. Few important technical parameters of the proposed equipment are also mentioned.

(b) **Part-II.** The second part of the RFI states the methodology of seeking response of vendors. Submission of incomplete response format will render the vendor liable for rejection.

### **PART-I**

3. **Intended Use of Equipment (Operational Requirements).**

The flexible barges will be used during pollution response operation at sea for collection, storage and disposal of recovered oil.

4. **Important Technical Parameters.** As per RFI Questionnaire (Appendix C).

5. Vendors should confirm that following conditions are acceptable:-

(a) The solicitation of offers will be as per 'Single Stage -Two Bid System'. It would imply that a 'Request for Proposal' would be issued soliciting the technical and commercial offers together, but in two separate sealed envelopes. The validity of commercial offers would be at least 18 months from the last date of submission of offers.

(b) The technical offers would be evaluated by a Technical Evaluation Committee (TEC) to check its compliance with RFP.

(c) The equipment of all TEC cleared vendors would be put through a trial evaluation with ICG ships on a 'No Cost No Commitment' basis. A staff evaluation would be carried out by ICG to analyse the result of field evaluation and shortlist the equipment.

(d) Amongst the vendors cleared by GS evaluation, a Contract Negotiations Committee would decide the lowest cost bidder (L1) and conclude the appropriate contract.

(e) Vendor would be bound to provide product support for time period specified in the RFP, which includes spares and maintenance tools/ jigs /fixtures for field and component level repairs.

(f) The vendor would be required to accept the general conditions of contract given in the Standard Contract Document at Chapter VI of DAP.

(g) **Performance-cum-Warranty Bond.** Performance-cum-Warranty Bond both equal to **5%** value of the contract inclusive of taxes and duties is required to be submitted after signing of contract.

## **PART-II**

### **6. Procedure for Response.**

(a) Vendors must fill the form of response as given in **Appendix B**. Apart from filling details about company, details about the exact product meeting other generic technical specifications should also be carefully filled. Additional literature on the product can also be attached with the form.

(b) The filled form should be dispatched at under mentioned address:-

**Address:** The Director General  
{for Director (FE)}  
Directorate of Fisheries and Environment,  
Room No – 10,  
Coast Guard Headquarters,  
National Stadium Complex,  
Purana Quila Road,  
New Delhi – 110 001

**Phone No:** +91 11 2338 8668

**Telefax:** +91 11 2307 4131

**Email:** [dte-fe@indiancoastguard.nic.in](mailto:dte-fe@indiancoastguard.nic.in)

(c) Last date of acceptance of filled form is **26 Aug 21**. The vendors short listed for issue of RFP would be intimated. An online interaction with vendors is planned at 1500 Hrs on 05 Aug 21. Vendors desirous for interaction may forward willingness by 1700 Hrs on 02 Aug 21 in e-mail id [dte-fe@indiancoastguard.nic.in](mailto:dte-fe@indiancoastguard.nic.in) . Meeting ID and Password will be shared with desirous vendors.

7. The Government of India invites responses to this request only from Original Equipment Manufacturers (OEM)/ Government Sponsored Export Agencies (applicable in the case of countries where domestic laws do not permit direct export by OEMs). The end user of the equipment is the Indian Coast Guard.

8. This information is being issued with no financial commitment and the Ministry of Defence reserves the right to change or vary any part thereof at any stage. The Government of India also reserves the right to withdraw it should be so necessary at any stage. The acquisition process would be carried out under the provisions of DAP.

**REQUEST FOR INFORMATION: PROCEDURE FOR RESPONSE**

**Request for Information for Procurement of 27 Flexible Barges (30 tons capacity) and 21 Flexible Barges (10 tons capacity) during pollution response operation at sea**

1. The Indian Coast Guard (ICG) is planning to procure **27 Flexible Barges (30 tons capacity) and 21 Flexible Barges (10 tons capacity) during pollution response operation at sea**. With the view to identify probable vendors who can undertake the said project, OEMs are requested to forward information on the product which they can offer. The parameters/ broad specifications of the item are mentioned in the questionnaire attached as per **Appendix C**. In addition the vendors are required to furnish details as per Proforma at **Appendix B**.
2. Apart from the information as per the Appendices the vendors may also forward technical details/product brochures/literature etc pertaining to the item in question.
3. The required information/ details may please be forwarded at the following address by **26 Aug 21:-**

(a) User Directorate

**Address:** The Director General  
{for Director (FE)}  
Directorate of Fisheries and Environment,  
Room No – 10,  
Coast Guard Headquarters,  
National Stadium Complex,  
Purana Quila Road,  
New Delhi – 110 001

**Phone No:** +91 11 2338 8668

**Telefax:** +91 11 2307 4131

**Email:** dte-fe@indiancoastguard.nic.in

## (b) ADG Acquisition Technical

**Address:** The ADG (Acquisition-Technical)  
Marine and System  
Defence Procurement Board  
Room No – 05, D-2 Wing  
Ministry of Defence  
Sena Bhawan  
New Delhi – 110 011

**Phone No:** +91 11 21411712

**Telefax:** +91 11 21411710

**Email ID:** [tmms-modacq@navy.gov.in](mailto:tmms-modacq@navy.gov.in)

**VENDOR INFORMATION PROFORMA**

1. **Name of the Vendor/Company/Firm.**

(Company profile including Share Holding pattern, in brief, to be attached)

2. **Type (Tick the relevant category).**

Original Equipment Manufacturer (OEM) Yes/No  
Authorised Vendor of foreign Firm Yes/No(attach details,  
if yes) Others (give specific details) )

3. **Contact Details.**

**Postal Address:**

City: \_\_\_\_\_ State: \_\_\_\_\_  
Pin Code: \_\_\_\_\_ Tele: \_\_\_\_\_  
Fax: \_\_\_\_\_ URL/Web Site: \_\_\_\_\_  
Email: \_\_\_\_\_

4. **Local Branch/Liaison Office/Agent (if any).**

Name & Address: \_\_\_\_\_  
Pin code: \_\_\_\_\_ Tele: \_\_\_\_\_ Fax: \_\_\_\_\_  
Email: \_\_\_\_\_

5. **Financial Details.** Category of Industry (Large/Medium/Small Scale): \_\_\_\_\_

6. **Certification by Quality Assurance Organisation.**

Name of Agency	Certification	Applicable from (Date & Year)	Valid till (Date & Year)

7. **Details of Registration.**

Agency	Registration No.	Validity (Date)	Equipment
GeM			
DGQA/DGAQA/DGNAI			
OFB			
DRDO			
Classification Society			
Any other Government Agency			

8. **Membership of FICCI/ASSOCHAM/CII or other Industrial Associations.**

**Name of Organisation**

**Membership Number**

9. **Equipment/product profile (to be submitted for each product separately)**

(a) Name of product: \_\_\_\_\_  
(IDDM Capability be indicated against the product)  
(Should be given category wise)

(b) Description (attach technical literature): \_\_\_\_\_

(c) Whether OEM or Integrator: \_\_\_\_\_

(d) Name and address of foreign collaborator (if any): \_\_\_\_\_

(e) Industrial Licence Number: \_\_\_\_\_

(f) Indigenous component of the product (in percentage):

(g) Status (in service/ design & development stage):

(h) Production capacity per annum:

(j) Countries/ agencies where equipment supplied earlier (give details of quantity supplied):

\_\_\_\_\_

\_\_\_\_\_

(k) Estimated price of the equipment \_\_\_\_\_

10. Alternatives for meeting the objectives of the equipment set forth in the RFI.

11. Any other relevant information:\_\_\_\_\_

12. **Declaration.** It is certified that the above information is true and any changes will be intimated at the earliest.

**(Authorised Signatory)**

**REQUEST FOR INFORMATION: QUESTIONNAIRE**  
**FLEXIBLE BARGE (30 TON & 10 TON CAPACITY)**

Ser	Specifications/Parameters	Reply	Remarks
1.	<p><b><u>Objective of RFI.</u></b> Aim of RFI is to obtain operational/Technical/Financial details for procurement of <b><u>27 Flexible Barges (30 tons operational capacity) and 21 Flexible Barges (10 tons operational capacity) during pollution response operation at sea.</u></b></p>		
2.	<p><b><u>Introduction.</u></b> The oil recovered from sea during the pollution response operation need to be stored in a temporary storage facility till taken to shore reception facility for disposal. The type of temporary storage facilities that can be used to support recovery operations should be in the form of towable flexible barge. The Indian Coast Guard intends to procure flexible barges available with open hatches and flexible tube like structure.</p>		
3.	<p><b><u>Use of Flexible Barge.</u></b> The flexible barge comprises of flexible tube like tank with its own floatation or buoyancy so that it can float. The flexible barges are intended for collection of recovered oil from sea. It should be foldable for stowing onboard ICG ships.</p>		
4.	<p><b><u>Fabric.</u></b> Neoprene or strong and durable fabric that shall be able to withstand wear and tear, tensile stress, drag force etc complying with ASTM test standards. Resistance to abrasion, flex fatigue, hydrocarbons, weather, UV light, oil, shear stress. It should be marine grade (ASTM F715 standard). Fabric weight - Approx 900 g/m<sup>2</sup>. The following tests shall be undertaken for the fabric as per ASTM D 751- 06 or latest:-</p>		

	<ul style="list-style-type: none"> <li>(a) Dimensions and Mass Breaking Strength <ul style="list-style-type: none"> <li>(i) Procedure A—Grab Test Method</li> <li>(ii) Procedure B—Cut Strip Test Method</li> </ul> </li> <li>(b) Elongation</li> <li>(c) Bursting Strength</li> <li>(d) Puncture Resistance</li> <li>(e) Tearing Strength <ul style="list-style-type: none"> <li>(i) Procedure A—Pendulum Method</li> <li>(ii) Procedure B—Tongue Tear Method</li> </ul> </li> <li>(f) Trapezoidal Tear Hydrostatic Resistance <ul style="list-style-type: none"> <li>(i) Procedure A—Mullen Type Tester</li> <li>(ii) Procedure B—Rising Water Column Tester</li> </ul> </li> <li>(g) Adhesion Coating (to Fabrics)</li> <li>(h) Strength of Coating</li> <li>(j) Tack-Tear Resistance</li> <li>(k) Low Temperature Bend Test</li> <li>(l) Low Temperature Impact Test</li> <li>(m) Low-Temperature Crack Resistance</li> <li>(n) Seam Strength</li> <li>(p) Accelerated Heat Aging (Oven Method)</li> <li>(q) Dead Load Seam Strength</li> <li>(r) Blocking Resistance at Elevated Temperatures</li> <li>(s) Crush Resistance</li> <li>(t) Wicking of Coated Cloth</li> </ul>		
5.	<b><u>Tear and Tensile Strength.</u></b> Warp and Weft parameters are to be indicated by the vendors for the Barges.		
6.	<b><u>Breaking Strength.</u></b> 300 N/mm		

7.	<b><u>Welding/Adhesion/ Vulcanisation.</u></b> 100 N/5cm (ASTM or equivalent standard)/ as per tear strength.		
8.	<b><u>Towing.</u></b> Easy to tow with good stability with integrated towing system. <b><u>Towing Speed.</u></b> 4-6 Kn (fully loaded) 10-12 Kn (Empty)		
9.	<b><u>Product Capacity.</u></b> 27 in nos flexible barges with 30 tons capacity and 21 in nos flexible barges with 10 tons capacity.		
10.	<b><u>Empty Weight/ Dimensions.</u></b> (a) 30 Tons of operational capacity flexible barges – not more than 550 kg. (b) 10 tons of operational capacity flexible barges – not more than 250 kg. (c) The empty dimensions of barge are to be indicated as per tonnage mentioned at (a) and (b) above.		
11.	<b><u>Operational temperature.</u></b> -25 to +60 deg Celsius. However barge shall be able to withstand pressure washing using water or 70 deg Celsius.		
12.	<b><u>Performance.</u></b> Flexible Barge shall confirm to ASTM F1599-2009 with regard to the performance. Inflation time within 30 min @ 180 mbar and shall be able to operate with 25% buoyancy chamber availability.		
13.	<b><u>Colour Coding.</u></b> International orange/ black with luminous stripes for easy identification as per ASTM standard and IMO guidelines.		
14.	<b><u>Tensile Strength.</u></b> minimum 250N/mm		
15.	The product shall be certified for following tests as per ASTM standards(F 1599-95) or latest:-		

	<p>(a) Initial (Static) Loading Test</p> <p>(i) Leak Test for closed devices and Enclosed Ancillaries.</p> <p>(b) Deploying, towing and loading test</p> <p>(i) Empty temporary storage towing test.</p> <p>(ii) Loading device to half – full.</p> <p>(iii) Half-full tow test.</p> <p>(iv) Loading device to operational capacity.</p> <p>(v) Full temporary storage towing test.</p> <p>(vii) Post-test monitoring shall be undertaken for leakages after above test at least for 12 hours for ascertaining the integrity of the flexible barges.</p> <p>(c) <b><u>Offloading Tests.</u></b> Additional off-loading tests with a viscous fluid may be desirable to determine any limiting features of the storage device. The recommended viscosities of the liquid shall be as per standard F631. The device shall be filled to its operational capacity for estimating residual amount of fluid offloaded subsequently. Thereafter, the fluid shall be offloaded using pumping device. Ideally 100% fluid shall be able to be offloaded. 1% tolerance is acceptable.</p> <p>(d) <b><u>Container Body Tests.</u></b> Test of the fabric of the flexible barge shall be undertaken as per method F 715.</p> <p>(e) <b><u>Test Reports.</u></b> Test reports as given below verified by a classification society shall be produced:-</p> <p>(i) <b><u>Static Loading.</u></b> Qualitative observations of leakage when subjected to normal operating pressure and over-pressure conditions.</p> <p>(ii) <b><u>Deployment, Loading, and</u></b></p>		
--	--	--	--

	<p><b><u>Towing.</u></b> Observations of buoyancy, stability, draft, and freeboard and measurements of average and instantaneous tow loads at various loaded conditions; observations of functioning of vents, gauges, and other ancillary equipment during loading; observations of leakage during and subsequent to loading; and verification of device capacity. Include the following in the test report: the frequency characteristics of the load cell and recording device, a summary of the environmental conditions present during the test series, and a comparison of the density of the test fluid relative to the water body in which the test is conducted.</p> <p>(iii) <b><u>Off-Loading.</u></b> Measurement of residual fluid volume following off-loading, and observation of device-limiting features that may hinder off-loading.</p> <p>(iv) <b><u>Container Body Tests.</u></b> Measurement of container body characteristics: baseline strength, weather, and petroleum resistance.</p> <p>(v) <b><u>Overall Observations.</u></b> Time, equipment, and man- power to complete break-out, deployment, launching, recovery, maintenance, cleaning, and stowage; observations of hazardous conditions relating to operation of the device; and deficiencies in manufacturer-specified procedures.</p>		
16.	<p><b><u>Accessories.</u></b></p> <p>(a) Set of tow equipment consisting of towing bar/strop/bridle/rope (ASTM or equivalent standard). Shall have option of towing one or</p>		

	<p>more storage devices connected in series with each other.</p> <p>(b) Lifting slings with appropriate load bearing capacity.</p> <p>(c) Hydraulic power from ship (not electric) for inflation/ deflation, Inflator/Deflator unit, Navigation light with battery &amp; battery charger.</p> <p>(d) Standardised OEM Repair and Welding kit/ Portable hot air welding/portable vulcanising machine.</p> <p>(e) Portable Oil transfer self-priming positive displacement pump of minimum capacity 30m<sup>3</sup>/hr.</p> <p>(f) Compatible size hose kit for pump, air valve repair kit.</p>		
17.	<p><b><u>Stowage and Transportability.</u></b> A suitable container for stowing of barge, cleaning pump and hoses (hydraulic and discharge). Fork lift points and strong points facilitating lifting with help of lifting slings for easy storage and transportation. Container shall have securing arrangements for barge, cleaning pump and hoses (hydraulic and discharge). Container shall be subjected to body test for baseline strength, weather and petroleum resistance.</p>		
18.	<p><b><u>Additional Requirement.</u></b></p> <p>(a) The barge should be Collapsible/ inflatable with leak proof valves (ASTM standard). The product should be protected against chaff at freeboard level. The barge should have securing/lifting points with ASTM standard.</p> <p>(b) The barge should have pumping/decanting arrangement with universal adapters, filling valves, hoses and interchangeable couplings.</p> <p>(c) The barge shall be constructed with a system of heavy straps to prevent propagation of rim and to distribute concentrated tow force</p>		

	when being towed. F1599-95.		
19.	<b><u>Field Equipment Trial (FET)</u></b> . The vendor, during the process of bidding will be required to offer the equipment for FET in India. Only barges qualified during the FET will be finally shortlisted for deciding lowest bidder. The FET shall be carried out on NCNC basis. The trials to include deployment, loading and towing tests. The towing test is to be conducted in different conditions and at varying speeds. All test certificates by the relevant agencies will also have to be produced during the FET.		
20.	<b><u>Product Support</u></b> . The vendors shall give at least 10 year product support. The equipment shall have a warranty of two years from date of acceptance by Coast Guard.		
21.	<b><u>Maintenance Philosophy</u></b> . On completion of two years of warranty period, the equipment shall be maintained through a Comprehensive Annual Maintenance Contract (CAMC) for a period of 10 years.		
22.	<b><u>Product Certification</u></b> . The following certificates are also to be provided by the vendor:-  (a) Tensile strength certificate of fabric and Ballast membrane.  (b) <b>Mill</b> Test Report (MTR)/ Certified <b>Mill</b> Test Report for Aluminium/ Marine Grade Steel used in manufacturing.  (c) Ozone test certificate for fabric.  (d) Brochure and technical specification sheet of equipment being offered.  (e) Certificate of product support for period of minimum 10 years from date of completion of warranty period.  (f) OEM certificate stating equipment being		

	<p>offered is manufactured by them at their facility.</p> <p>(g) The performance and tests shall be class certified like Bureau Veritas, DNV, Achilles JQS, LRS, IRS, BIS or equivalent.</p>		
23.	The vendors shall provide complete technical and operational details of the products. The vendors shall also provide operational and technical manual of the equipment. Manufacturer Supplied Data shall contain requirements for maintenance, cleaning, lay-up, inspection, and stowage; and safe working loads for load bearing fittings, including the following: lifting points, tow points, tie-downs, hand-holds, and hose fittings.		
24.	Any additional specific technical and operational parameters may be added by the vendor, if any.		
<b><u>Other Information</u></b>			
25.	Vendor infrastructure profile		
26.	Orders in hand (a) For government agencies (b) For private agencies		
27.	Orders executed (a) For government agencies (b) For private agencies		
28.	Countries where the equipment has been supplied		
29.	Annual production capacity		
30.	Estimated price of the offered product		
31.	Applicable key technology		
32.	Any suggestion for enhanced performance		
33.	Financial information (a) Balance sheet last three financial years (year wise)		

	(b) Profits made (c) Net worth (d) Debt/Equity ratio (e) Quick ratio (f) Attach copies of certified published annual report showing turnover and financial status in support of above information.		
34.	Willingness of Global manufacturers to enhance/achieve indigenisation i.a.w. para 5(d) of Chapter II of DAP 2020. Tentative indigenisation plan may also be enclosed.		
35.	Any other relevant information		