

## **REQUEST FOR INFORMATION**

1. The Indian Coast Guard (ICG), Ministry of Defence, Government of India, intends to procure **101 sets of Oil Spill Dispersant Spray System along with accessories for Indian Coast Guard (ICG) ships.**
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 Dispersant Spray System is required to be fitted onboard Indian Coast Guard (ICG) ships {Offshore Patrol Vessels (OPVs), Fast Patrol Vessels (FPVs) and Interceptor Boats (IBs)} for spraying Oil Spill Dispersant (OSD) for neutralising oil in the event of oil spill at sea. The Dispersant Spray System will be used for spraying OSD on oil slicks whenever an oil spill incident occurs.
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 onboard 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 101 Oil Spill Dispersant Spray System along with accessories for ICG ships.**

1. The Indian Coast Guard (ICG) is planning to procure **101 Dispersant Spray System along with accessories for ICG ships**. 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](mailto: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 FOR THE PROCUREMENT OF**  
**DISPERSANT SPRAY SYSTEM: QUESTIONNAIRE**

<b>SER</b>	<b>SPECIFICATIONS/PARAMETERS</b>	<b>REPLY</b>
1.	<b><u>Introduction.</u></b> Aim of RFI is to obtain operational/Technical/Financial details of 101 Oil Spill Dispersant Spray System to be fitted in Offshore Patrol Vessels (OPV)/ Fast Patrol Vessels (FPVs) and Interceptor Boats (IBs) in the service of Indian Coast Guard.	
2.	Equipment shall be State-of-the-art system, can be operated in the Marine Environment fitted on board ships. It shall be governed by ASTM standard F1413/F1413M -2020 "Standard Guide for Oil Spill Dispersant Application Equipment: Boom and Nozzle System" or the latest standard.	
3.	The equipment shall be able to apply Oil Spill Dispersant both Chemical and Bio-remediation 0 to 50% dilution (Neat and upto 50% of diluted with sea water or fresh water.	
4.	(a) Dispersant Spray System shall consist of two spray arms (booms), fitted on port and starboard side of vessel and produce a flat fan shaped pattern from each nozzles, striking in line perpendicular to the curve of the vessel.  (b) The flat fan shaped spray pattern shall have 50% overlap.  (c) The system shall also have necessary piping, valves, pumping system for delivering dispersant to the spray arms.  (d) Dispersant flow meter and pressure gauge shall be part of the system.  (e) Facility for cleaning and draining system shall also be part of the system.	

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5.	The spray arm should be mounted as far forward as possible on the forecastle of the ship before the bow wave move the oil aside. Arrangement should be there to move spray arms vertically up and down parallel to the sea surface, so that the height of the spray can be adjusted depending on the operational circumstances.	
6.	The target dosage shall be between 20 to 100 litres per hectare.	
7.	The optimum size of the dispersant droplets shall have Volume Mean Diameter (VMD) between 300-700 $\mu\text{m}$ . Spray nozzle should match proportionate to give a uniform spray of coarse droplets. The droplet size shall be measured by test method ASTM F 1738.	
8.	Maximum Delivery Variation Over Swath Width shall not be less than 10% of volumetric variance over the swath.	
9.	Dispersant Injection Rate shall be equivalent to pumping rate. The Dispersant Injection Rate will have to be verified and certified as per the formula given in ASTM standard F1413/F1413M -2020 or latest.	
10.	Nozzle Shear Rate shall not be more than 2000 $\text{s}^{-1}$ . The Nozzle Shear Rate shall be measured and certified by test method given in F1413/F1413M -2020 or latest.	
11.	Material of the spray arm shall be marine grade stainless steel metal.	
12.	The spray system shall be compatible from a single pump providing sufficient pressure to both spray arms. The pump shall be able to provide uniform desirable pressure to both spray arms.	
13.	The system shall be able to take suction of both dispersant and sea water simultaneously and able to mix the desired ratio between 0-50%.	

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14.	The engine of the pump shall be operated using diesel.	
15.	The pump system shall be trolley mounted with locking system so that it remain firm on the deck while operation.	
16.	The spray arm should be mounted as far forward as possible on the forecastle of the ship before the bow wave move the oil aside and to ensure availability of sufficient mixing energy after dispersant spray.	
17.	Spray arms shall be easy to mount and dismount.	
18.	The spray arms shall be collapsible and easy to stow.	
19.	The spray arms shall be supported by support mechanism which shall be sturdy and sustain the sea conditions.	
20.	Remote operation of pump and flow adjustment shall be provided.	
21.	<b><u>Fitment of Dispersant Spray System in Offshore Patrol Vessels (OPVs).</u></b> A total of 27 systems are required for fitment onboard different classes of OPVs (minimum 05 types). The length of each Spray arms to be fitted in OPV class ship shall be approximately 08-10 m. The number and type of nozzles to be fitted on spray arms, shall be in such a manner that it shall give flat fan shaped pattern of each nozzle with 50% of overlap between two spray pattern. The vendor shall indicate no. of nozzles and type of nozzles, required to be fitted so as to achieve the ASTM standard F1413/F1413M - 2020 or latest.	
22.	<b><u>Fitment of Dispersant Spray System in Fast Patrol Vessel (FPV).</u></b> A total of 32 systems are required for fitment onboard different classes of FPVs (minimum 04 types). The length of each Spray arms to be fitted in FPV class ship shall be approximately	

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	06-08 m. The no. and type of nozzles to be fitted on spray arms, shall be in such a manner that it shall give flat fan shaped pattern of each nozzle with 50% of overlap between two spray pattern. The vendor shall indicate no. of nozzles and type of nozzles, required to be fitted so as to achieve the ASTM standard F1413/F1413M -2020 or latest.	
23.	<b><u>Fitment of Dispersant Spray System in Interceptor Boat (IB).</u></b> A total of 42 systems are required for fitment onboard different classes of IBs (minimum 03 types). The length of each Spray arms to be fitted in IB class ships shall be approximately 04 m. The no. and type of nozzles to be fitted on spray arms, shall be in such a manner that it shall give flat fan shaped pattern of each nozzle with 50% of overlap between two spray pattern. The vendor shall indicate number and type of nozzles, required to be fitted.	
24.	<b><u>Trial Evaluation.</u></b> The vendor, during the process of bidding will be required to offer the equipment for Field Evaluation Trial (FET) in India onboard Coast Guard vessels. Only system qualified during the FET will be finally shortlisted for deciding lowest bidder.	
25.	<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.	
26.	<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.	

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27.	The vendor shall give data on following:-  (a) Dosage Chart. (b) Material of construction. (c) Data on model number of pumps, nozzles, booms, valves, pipes etc., (d) Operational data on all equipment including spray arms, pumps, valves, educator, flow meter and engines.	
28.	The vendor shall also provide technical and operational manual.	
29.	<b><u>Certification.</u></b> The equipment shall comply with ASTM Standard as mentioned above. It shall be certified by appropriate classification society IRS, ABS, DNV etc.	
<b><u>Other Information</u></b>		
30.	Vendor infrastructure profile	
31.	Orders in hand (a) For government agencies (b) For private agencies	
32.	Orders executed (a) For government agencies (b) For private agencies	
33.	Countries where the equipment has been supplied	
34.	Annual production capacity	
35.	Estimated price of the offered product	
36.	Applicable key technology	
37.	Any suggestion for enhanced performance	
38.	Financial information (a) Balance sheet last three financial years (year wise) (b) Profits made (c) Net worth (d) Debt/Equity ratio (e) Quick ratio	

<b>SER</b>	<b>SPECIFICATIONS/PARAMETERS</b>	<b>REPLY</b>
	(f) Attach copies of certified published annual report showing turnover and financial status in support of above information.	
39.	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.	
40.	Any other relevant information	