

**REQUEST FOR INFORMATION (RFI) FOR ACQUISITION OF
08 FAST PATROL VESSELS (FPVs)**

1. The Ministry of Defence, Government of India, intends to acquire 08 nos Fast Patrol Vessels (FPVs) from prospective vendors.
2. This Request for Information (RFI) consists of two parts as indicated below:-
 - (a) **Part I.** The first part of the RFI incorporates operational characteristics and features that should be met by the Vessel. A few important technical parameters of the proposed vessel are also mentioned.
 - (b) **Part II.** The second part of the RFI state the methodology of seeking response of vendors. Submission of incomplete response format will render the vendor liable for rejection.

PART-I

3. **The Intended Use of Equipment (Operational Requirements).** The Fast Patrol Vessels (FPVs) will be used for multipurpose maritime operation as follows:-
 - (a) **Primary.**
 - (i) Fisheries Protection and monitoring, control and surveillance.
 - (ii) EEZ and Coastal Patrol.
 - (iii) Anti-Smuggling.
 - (iv) Search and Rescue.
 - (v) Anti-Piracy.
 - (b) **Secondary.** During hostilities and wartime, provide communication link and escort coastal convoys.
4. **Important Parameters.** Detailed specifications will be given in the Request for Proposal (RFP) which will be issued to the vendors after verifying their credentials and capabilities.
 - (a) **Description.** As specified at **Appendix 'A'**
 - (b) **Operational/Technical Parameters.** Broadly elucidated at **Appendix 'A'**.
 - (c) The indicative costing of the Vessel should include long term spares supportability along with all aspects of training, annual maintenance contract, any future upgradability and any other aspects.
 - (d) Indicate whether this Vessel is in use by any other Service.
 - (e) Whether Option Clause as per DPP- 2016 is acceptable and for what period.
 - (f) The vendor is required to comply with all provisions of DPP-2016. If not, which Para/Clause of DPP-2016 would not be agreed to with reasons.

- (g) The tentative delivery schedule for supply of the vessel after conclusion of contract.
 - (h) Acceptability to the terms of Payment as per DPP-2016.
 - (j) The Vendor is required to provide the quantum of indigenous content in accordance with Appendix A to Chapter I of DPP-2016.
 - (k) Has the Vessel been designed, developed and manufactured in India. If yes, necessary supporting documents to establish indigenous design, development and manufacture may be attached with the response.
 - (l) Man power required to operate and maintain the equipment.
 - (m) Quantity required 08 nos FPV and the total anticipated time frame for 08 FPVs is 45 months post signing of contract.
 - (n) Tentative time schedule for acquisition (issue of RFP) is 04 months.
 - (p) Details that go into determining the cost of the scheme, including factors such as annual maintenance contract (AMC), product support package, training etc to be indicated.
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 offer would be at least 18 months from the 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) Among the vendors cleared by Technical Evaluation Committee, a Commercial Negotiation Committee would decide the lowest cost bidder (L-1) and conclude the appropriate contract.
 - (d) The In Service Life of the equipment shall be stipulated in the offer.
 - (e) The manufacture/ supplier should support each of the Vessel supplied, for the period of its life span and firm should also indicate their willingness to undertake AMC/ periodic maintenance (under a separate contract on expiry of the warranty period) either directly or through their authorised reps in India.
 - (f) The vendor would be required be to accept the general conditions of contract given in the Standard Contract Document at Chapter VI of DPP-2016 placed on [www. mod.nic.in](http://www.mod.nic.in).

(g) Integrity Pact. An integrity pact along with appropriate Bank Guarantee is a mandatory requirement as per Annexure I to Appendix M of Schedule I to Chapter II of DPP 2016.

(h) Performance/Warranty Bonds. A performance- cum-warranty Bond both equal to 5% value of the Contract is required to be submitted after signing of contract.

PART -II

6. Procedure for Response.

(a) Vendors must fill the form response as given in '**Appendix B & C**'. Apart from filling details about company, details about the exact product meeting our 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:-


The Principal Director (Ship Acquisition)
Directorate of Ship Acquisition
Indian Coast Guard Headquarters
National Stadium Complex
New Delhi, India – 110001
E-mail- dte-sa@indiancoastguard.nic.in
Tel: 011 23074235, 011-23074125

(c) Last date of acceptance of filled form is **01 Jan 2018**. The vendors short listed for issue of RFP would be intimated.

7. The Government of India invites responses to this request only from Original Equipment Manufacturers (OEM) in accordance with DPP 2016. The end user of the equipment is the Indian Coast Guard.

8. This information is being issued with nil commitment for **procurement** 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 it be so necessary at any stage. The acquisition process would be carried out under the provisions of DPP 2016.

9. Submission of incomplete response format will render the vendor liable for rejection.


(Alankar Singh)
Deputy Inspector General
Principal Director (SA)
30 Oct 17

COAST GUARD – OUTLINE STAFF REQUIREMENTS (OSRs)
08 FAST PATROL VESSEL (FPVs)

1. **Function/ Role.** A medium range weapon fitted surface vessel capable of operation in Indian waters and around island territories in **depths greater than 3.5 meters**. The vessel should be designed for operation under tropical condition. The functions are as detailed below:-

(a) **Primary.**

- (i) Fisheries Protection and monitoring, control and surveillance.
- (ii) EEZ and Coastal Patrol.
- (iii) Anti-Smuggling.
- (iv) Search and Rescue.
- (v) Anti-Piracy.

(b) **Secondary.** During hostilities and wartime, provide communication link and escort coastal convoys.

2. **Primary Particulars**

- (a) Length overall (LOA) - 50-55 M (including jet guard).
- (b) Draught - Not exceeding 2.5 M in fully loaded condition.
- (c) Displacement - Not more than 300 T.

3. **Operational Capabilities**

- (a) **Max continuous speed** - 27-29 knots at 92% MCR power of engines at full load displacement. The loading of 8% reserve power will be demonstrated to record speed at 100% MCR at full load displacement during CST (In sea state 0-2 and with clean hull).
- (b) **Endurance** - 1500 NM at cruising speed with 25% reserve fuel capacity and vessel should be able to operate for five days continuously at sea.
- (c) **Cruising speed** - 12 to 14 Knots.
- (d) **Propulsion** - Twin engine arrangement in combination with Linear jet/Arneson Surface Drive/ CPP/FPP powered by selected IMO tier-II compliant Marine Diesel Engines type approved shall be considered.

(e) **Environmental conditions.** The Vessel shall be capable of operating in tropical environment conditions i.e 45°C ambient air and 32°C seawater temperature.

4. **Seagoing Capabilities**

(a) **Seaworthiness.** The Vessel shall be capable of operating, in sea conditions upto sea state 4 and have survivability upto sea state 6.

(b) **Classification and Regulation.** The Vessel (s) shall be built and classified under dual class notation. IRS shall be one classification society. The classification notation for ABS is +A1 HSC (special Government service) +AMS. The Vessel(s) shall comply with rules and regulations of Classification society, IMO/MARPOL 73 / 78 reg, COLREG 72, International tonnage 1969, SOLAS 1992 (amended as 2002), Stability standards as per IRS Rules and IMO HSC code, Naval Magazine Explosive Regulation, International load line and environmental protection.

(c) **Expected life.** Have an expected service life of 20 years, catering for annual usage of approximately 2500 hrs of propulsion.

5. **Special Features.**

(a) Should have an arrangement for towing/ being towed.

(b) Strengthening of Deck supporting structure for fitment of one 30 mm Gun (approximate weight up to 3000 Kg and recoil force 5000Kgf), and one FCS (approximate weight 400 Kg) and two in no. 12.7mm Gun on bridge wing (approx. weight 400 kgs) (Guns and FCS CG Supply)

6. **Navigational Equipment.** Following Navigation Equipment shall be provided:-

<u>Sl</u>	<u>Equipment</u>	<u>Qty</u>
(a)	Solid State Radar (X-Band 100W) for navigation surveillance with ARPA facility.	02 nos
(b)	FOG/HRG type Gyro shall be provided	01 no.
(c)	Echo sounder of dual frequency (50KHZ AND 200 KHz) with repeaters and recording facility.	01 no.
(d)	Electromagnetic log (digital) with repeaters and recording facility.	01 no.
(e)	Magnetic compass on bridge top with reflector and 06 magnetic Correctors.	01 no.
(f)	DGPS	02 nos.
(g)	Steering console with Auto pilot (interfaced with other navigation equipment).	01 set
(h)	Hand held GPS.	02 no.
(j)	Class A type approved UAIS as per regulation laid down by IMO and IALA. UAIS shall be integrated with radar, ECDIS in IBS.	01 no.

(k)	Voyage Data Recorder alongwith protective Capsule should conform to the performance standards as per IMO Regulation IEC 61996 having following minimum storage capacity shall be provided:- (i) Fixed & Float Free Capsule Each 32 GB – 48 hrs duration (ii) VDR Internal Memory 512 GB – 30 days (iii) Extended Storage Media 01 TB – 90 days	01 no.
(l)	ECDIS Capable of using electronic chart provided by Naval Hydrographic Office with provision to transfer the plot from the ECIDS to any other monitoring system like Radar or to the officer's cabin alongwith independent voyage recording and storage system within the ECDIS	01 no.
(m)	Integrated Bridge System (IBS) in Bridge.	--
(n)	Intelligent Surveillance & Response System	01 no.
(p)	Long Range Acoustic Hailing Device (LRAD) one each and Electro Optic Surveillance Composite system	01 set

7. **Communication Equipment.** Following communication Equipment shall be provided:-

SI	Equipment	Qty
(a)	<u>Compact GMDSS console comprising of following:</u> (i) Minimum 400W MF/HF TX/RX with DSC and NBDP (NARROW band direct printing) capable of: (aa) Receiving high speed data broadcast (ab) Battery charging system for the GMDSS console	02 Nos. 02 Nos.
	(ii) 25W VHF TX/RX with DSC (Duplex version)	02 Nos.
	(iii) INMARSAT 'C' with EGC (enhanced group calling) receiver.	01 No.
	(iv) NAVTEX receiver	01 No.
(b)	<u>Mil Grade Communication System</u> (i) 100 W HF TX /RX TR 2400 of ECIL	01 No.
	(ii) HF/VLF RX EK 896 (M/S BEL equipment) with high speed data modem and MSK attachment and with Active rod antenna (R&S HE010) for better performance of the receiver in addition to the whip antenna.	02 Nos.
	(iii) Digital V/UHF TxRx PAE M7 or suitable upgraded version with all accessories including ECCM module, SSE, voice recording facilities and RCU units at 02 locations shall be provided.	01 No.
	(iv) Portable HF Tx/Rx PRC 6020 A of BEL	02 Nos.
	(v) Portable V/UHF Tx /Rx LUP 329 of BEL	02 Nos.
	(vi) Portable hands free VHF set with voiceducers or a suitable transducer headsets with boom mice (with water proof leather case and spare battery) shall be provided.	08 sets

(c)	<u>Survival craft equipment</u>	
	(i) EPIRB 406 MHz	01 No.
	(ii) SART 9 GHz	02 Nos.
	(iii) Walkie talkie GMDSS type with emergency battery	01 for each life raft plus one extra
(d)	<u>Satellite communication system</u>	
	(i) Mobile Satellite Services (MSS) terminal with integrated antenna system shall be provided	02 Nos.
	(ii) Mobile satellite services terminal hand held.	01 No.
	(iii) Secrecy Overlay for MSS terminal (Gautam).	01 No
(e)	INMARSAT Broadband (type approved) terminal with data capacity up to 432 kbps. System having real time video conferencing devices shall be provided.	01 set

8. **Visual Signaling.** Visual signaling equipment shall be provided to meet Buyer's as well as Classification Society's requirement.

9. **Internal Communication.**

(a) Ship's Main Broadcast for general broadcast and Intercom for main compartments shall be provided.

(b) Sound Powered Telephone (with battery backup) between Bridge, MCR, CO's cabin, MSO Bridge, MCR & Machinery spaces shall be provided

10. **Hull.**

(a) Hull material shall be DMR 249A/ class certified indigenous HT steel. Deck house and super structure shall be class approved anti corrosive Aluminum alloy.

(b) Anchor and Mooring arrangement shall be provided to meet Buyer's as well as classification society requirement.

11. **Engineering.**

(a) Two Main marine diesel engines (type approved & tier – II Compliant) to meet power Requirement with low fuel consumption, high TBO. The diesel engines to comply ISO-3046 rating for tropical conditions. The diesel engines must be air started, turbocharged, intercooled, direct injection type capable of being started and stopped from remote / local position.

(b) Steerable Linear jet/ Arneson Surface Drive/ CPP /FPP with accessories connected with main engine through reversible gear box.

(c) Three Diesel Alternators (DAs) with prime movers as Marine Diesel Engines (type approved and IMO tier II compliant) and one emergency generator shall be provided.

(d) Central Air Conditioning for extreme tropical conditions in all living and working spaces (should be able to take full loads) shall be provided.

(e) Forced Ventilation and Exhaust arrangement for other spaces shall be provided.

12. **Electrical.**

(a) Three DAs with brushless generators (each generator capable of meeting power requirement during cruising sailing and capable of being paralleled with each other shall be provided. Main Switch Board shall be provided to facilitate parallel operation.

(b) One Emergency Generator of adequate capacity to be provided to feed internal/external communication equipment and navigation equipment.

(c) Supplies of 415 Volts (3 phase 50 Hz), 230 Volts (single phase 50 Hz AC) regulated to $\pm 0.5\%$ and 24 volts DC shall be provided (Transformers as per requirement). Design should cater for 10% of growth margin of power.

(d) The power distribution shall be designed to meet Buyer's as well as Classification Society's requirement.

(c) The Ship shall be provided with adequate CCTV coverage including Wheel house and MCR.

(d) Straight line window wiper shall be provided for centre windows.

(e) The ship shall be provided with LED general lighting arrangement.

(f) Navigational lights and shapes as mentioned in COLREGS, 1972 shall be fitted.

13. **Life Saving Appliances.** Life saving appliances to cater for 42 personnel as per SOLAS requirement. Life jackets and Life Buoys are to be 20% excess to SOLAS requirement.

14. **Boats and Cranes.**

(a) One eight men Rigid Inflatable Boat (SOLAS compliant) capable of making 30 Knots speed and one six men inflatable boat (Gemini Craft) equipped with 25 HP OBM shall be provided alongwith Cradles and should also have class approved life saving appliances.

(b) One articulated crane for handling boats and RIB (SWL to meet Buyer's as well as Classification Society's requirement).

15. **Accommodation.** Accommodation shall be provided for 42 personnel (seven Officers including CO, 35 Enrolled Personnel including nine Subordinate Officers). Single cabin for CO, two tier bunks for Officers & SO's and three tier bunks for EPs.

16. **Miscellaneous.**

- (a) Damage Control and Fire Fighting System shall be provided to meet Buyer's as well as classification Society's requirement. Fire main system throughout the ship (isolation facility compartment wise) alongwith sprinkler for magazine, Fire and Flood Alarm System, Fixed Fire Fighting System for machinery spaces as per IMO norms.
- (b) Latest chemical fire suppression system viz. FM 200 system, NOVEC-1230 may be chosen considering the environment, safety, speedy action, storage space and ease of maintenance of system.
- (c) **Fresh Water.** 10 tons capacity fresh water tank with inter-tank transfer facility. Provision to transfer and embark fresh water to be provided. One in number RO plant with capacity of 5 tons per day.
- (d) **Product support and logistics.** Shipyard to seek assurance from OEMs that the equipment being supplied shall be most modern and compliant to latest IMO Regulations and shall not become obsolete at least till expiry of guarantee period for the last ship in class. Further software upgrade, (if any) to be catered without cost implications by OEM's for upto 5 years from completion of guarantee period of last ship of the Class.
- (e) **Information Technology.** Minimum 11 nos. of computer systems along with server with UPS (01 no.), printers (05 nos.) and scanners(02 Nos.) may be installed at various locations so as to enable digital functionality for dealing with day to day correspondence and general administration onboard ship. These computerised systems may be connected with LAN and Wi-Fi enabled while the ship is in harbour.
- (f) Light weight chemical electro catalytic type STP shall be considered which also have better operating efficiency, maintainability and safety.
- (g) Oil/ water Separator shall be provided as per MARPOL Regulations. System to be incorporated with suitable tanks, pumps, oil content monitor indicator, alarm etc.
- (h) Mast, Jack staff and Ensign Staff shall be fitted. Mast rigging arrangement for flags and navigational shapes shall be provided.
- (j) One four wheeler (transport /SUV) and one motor cycle for dispatch rider shall be provided.
- (k) Light weight, foldable three tier bunks shall be provided.
- (l) **Annual Maintenance Contract.** Shipyards to ensure that post completion of guarantee period, OEMs are willing to enter into Annual Maintenance Contract (AMC) with ICG for navigation, communication equipment, main engine controls, RO plant, STP, ICCP on case to case basis.

INFORMATION PROFORMA (INDIAN VENDORS)
(As per Appendix B to Chapter II of DPP-16)

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

(Certificate of Incorporation by Registrar of Companies to be attached)

(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: _____

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

Name & Address: _____

Pin code: _____ Tel: _____

Fax: _____

5. **Financial Details.**

(a) Category of Industry (Large/Medium/Small Scale): _____

(b) Annual turnover: _____ (in INR)

(c) Number of employees in firm (Including Skilled & Semi Skilled) :

(d) Details of manufacturing infrastructure (Details of design, planning and production facilities / infrastructure including slipways / drydocks and wet basin / water front (attach brochures etc.): _____

(e) Earlier Shipbuilding contracts with Indian Ministry of Defence/Government agencies:

Contract Number	Equipment	Quantity	Cost

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
DGS&D			
DGQA/DGAQA/DGNAI			
OFB			
DRDO			
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 for e.g. all products under night vision devices to be mentioned together)

- (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)

Date: _____

Place: _____

ADDITIONAL INFORMATION

1. Infrastructure Profile

- (a) Year established _____
- (b) Annual build capacity (in tonnage) _____
- (c) Details of future expansion and business development planned:

- (d) Name and address of foreign collaborator, if any : _____
- (i) Date of Agreement: _____
- (ii) Validity of Agreement: _____
- (ii) Scope of Agreement: _____
- (e) Capacity of Shipyard : _____
- (f) Capacity utilization chart: _____

2. Shipbuilding Profile

SI	YARD NO	CUSTOMER	TYPE OF Vessel	DWT, GRT	ORDER DATE	START PRODUCTION	CONTRACTUAL DELIVERY	ACTUAL DELIVERY

3. Orders in Hand (Attach Order Copies for Similar Vessels only)

SI	YARD NO	CUSTOMER	TYPE OF Vessel	DWT, GRT	ORDER DATE	START PRODUCTION	% COMPLETED	EXPECTED DELIVERY

4. Details of any Fast Patrol Vessel (FPVs) in service/design or development stage _____
5. Countries/Agencies where FPVs supplied earlier, provide details _____
6. Indigenous component of the FPVs (in percentage) _____

7. Capability of Indian vendors to indigenously design and develop the FPVs under Buy(IDDM) category_____
8. Applicable key technologies and materials required for manufacturing of the equipment/ system/platform and the extent of their availability or accessibility in case they are not available in India_____.
9. Availability of the equipment/system/platform in the Indian market, level of indigenisation, delivery capability, maintenance support, life time support etc_____.
10. Approximate cost estimation and suggestions for alternatives to meet the same objective as mentioned in RFI _____.
11. Any other relevant information _____
12. **Financial Information (in INR for Indian Shipyards)**
- (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. _____
12. **Declaration.** It is certified that the above information is true and any changes will be intimated at the earliest.

(Authorised Signatory)

Date: _____

Place: _____