

**REQUEST FOR INFORMATION (RFI) FOR ACQUISITION OF
18 FAST PATROL VESSELS (FPVs) NEW GENERATION(NG)**

1. The Indian Coast Guard, Ministry of Defence, Government of India, intends to procure 18 nos New Generation Fast Patrol Vessels, FPV(NG) from prospective Shipyards.
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.
 - (c) **Part III.** Guidelines for Framing Criteria for Pre Qualification in Buy Indian (IDDM), Buy (Indian) and Buy & Make (Indian) Cases.

PART-I

3. **Intended Use of Equipment (Operational Requirements).** The New Generation Fast Patrol Vessels (FPVs) will be used for multipurpose maritime operation as follows:-

Primary

- (a) Fisheries Protection and monitoring, control and surveillance.
- (b) EEZ and Coastal Patrol.
- (c) Anti – Smuggling.
- (d) Search and Rescue.
- (e) Anti-Piracy.

Secondary

- (f) Staging through (Day time) and fueling of ALH MK III for SAR operations.
- (g) Limited External Fire - Fighting at Sea.
- (h) During hostilities and wartime, provide communication link and escort Coastal convoys.

4. **Important Technical Parameters.** Broadly elucidated at **Appendix ‘A’**.

5. Vendors should confirm that following conditions are acceptable:-
- (a) The shipyard/vendor should have a valid Technical Capacity Assessment Certificate to build FPVs as detailed in Chapter-XII of Defence Acquisition Procedure (DAP) -2020 till signing of contract.
 - (b) 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.
 - (c) The Financial Parameter of the bidders would be evaluated by a Financial Parameter Evaluation Committee.
 - (d) The technical offers would be evaluated by a Technical Evaluation Committee (TEC) to check its compliance with RFP.
 - (e) Amongst the vendors cleared by TEC evaluation, a Contract Negotiations Committee would decide the lowest cost bidder (L1) and conclude the appropriate contract.
 - (f) 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.
 - (g) The vendor would be required to accept the general conditions of contract given in the Standard Contract Document at Chapter VI of DAP 2020.
 - (h) **Integrity Pact**. An integrity pact along with appropriate IPBG is a mandatory requirement in the instant case (**Refer Annexure I to Appendix M of Schedule I** to Chapter II of DAP 2020).
 - (j) **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) The procedure for Response to this RFI is at **Appendix B**. Vendors must fill the form of response as given in **Appendix C** and the questionnaire attached at **Appendix D** to this RFI document (Reference **Annexure II,III to Appendix A, Chapter II, DAP 2020**). 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 (FPV(NG)) can also be attached with the form.

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

**Principal Director (Ship Acquisition)
Coast Guard Headquarters
Purana Quila Road, National Stadium Complex
New Delhi – 110001**

**Tele: 011 23974235, Fax : 011 23072201,
E mail : dte-sa@indiancoastguard.nic.in**

(c) An interaction meeting / VC will be held on **22/23 Jun 2021** to address the queries of vendors. Last date to receive queries **19 Jun 2021**.

(d) Last date of acceptance of filled form is **03 Aug 2021**. 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)/Authorised Vendors/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 FPVs is the Indian Armed Forces (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 it be so necessary at any stage. The acquisition process would be carried out under the provisions of DAP 2020.

PART- III

Guidelines For Framing Criteria For Shipbuilding Cases

9. The guidelines prescribed for short-listing/ pre-qualification of Indian vendors in case of shipbuilding cases are detailed in Chapter XII of DAP-2020 (**Appendix C to Chapter XII of DAP 20 is relevant**).

TECHNICAL PARAMETERS
FAST PATROL VESSEL : NEW GENERATION

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

Primary

- (a) Fisheries Protection and monitoring, control and surveillance.
- (b) EEZ and Coastal Patrol.
- (c) Anti – Smuggling.
- (d) Search and Rescue.
- (e) Anti-Piracy.

Secondary

- (f) Staging through (Day time) and fueling of ALH MK III for SAR operations.
- (g) Limited External Fire - Fighting at Sea.
- (h) During hostilities and wartime, provide communication link and escort Coastal convoys.

2. **Primary Particulars**

- (a) Length overall (LOA) : 60 - 65Mtrs.
- (b) Draught : Not exceeding 3.0 m at Full load Displacement
- (c) Displacement : Approx 700 tones.
- (d) Carrying capacity : 50 operating Crew

3. **Operational Capabilities**

- (a) **Max continuous speed** : Not less than 25 Knots at full load displacement (Sea state 0-3 with clean hull) (Diesel Propulsion).
- (b) **Cruising speed** : 12 to 14 Knots (Diesel Propulsion).

- (c) **Loitering Speed** : 2-5 Knots (Electric Propulsion).
- (d) **Range / Endurance** : 2500 NM at cruising speed with Propulsion with 25% Reserve fuel capacity and vessel should be able to operate for Eight days at sea continuously.

(e) **Propulsion & Power Generation**

CODOE (Combination of Diesel or Electrical).

- (i) CPP Powered.
- (ii) Twin ME (Tier II) arrangement to achieve Max Speed 25 Knots at 92% MCR.
- (iii) Twin ME arrangement for Cruising speed of 12-14 Knots with and to achieve PGD requirement at Cruising speed.
- (iv) Two Motors arrangement to achieve Loitering speed of 5 Knots and also to meet PGD requirement at Loitering speed both at 85 % MCR of Gen Sets.
- (v) Each Motor to be used as Generator also for taking Cruising load.
- (vi) Each DG to cater for Cruising load.
- (f) **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 up to sea state 4 and have **survivability up to Sea State 6**

(b) **Classification and Regulation.**

(i) 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 +ACCU, NIBS, HELIDK.**

(ii) 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 NES Rules (Vessel shall have adequate stability when any two adjacent compartments are flooded) and IMO HSC code, Naval Magazine Explosive Regulation, International load line and environmental protection.

(iii) Tripartite agreement between Class / Yard / CG.

(c) **Expected life.** Have an expected service life of 25 years, catering for annual usage of approximately 2000 hrs of propulsion.

5. **Special Features.**

- (a) 360 Deg Bridge.
- (b) Staging through and fueling of ALH MK III (AUW 6.5 Ton) for SAR operations.
- (c) Fin Stabilizer for helo Operation.
- (d) Limited Fire- fighting at Sea.
- (e) Tunnel Thruster to maneuver while entering leaving harbor and Ext Fi Fi operation.
- (f) 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 CG Supply).
- (g) IBS /IPMS / PMS/ IMCS.
- (h) Arrangement for towing/ being towed.
- (j) Sick Bay.

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

<u>Sl</u>	<u>Equipment</u>	<u>Qty</u>
(a)	One 25 KW X – Band Radar.	One
(b)	One 100 Watt S Band Solid State radar	One
(c)	IFF MK – XII (S) with transponder { BNE }	One
(d)	Gyro FOG / HRG / LRG	One
(e)	DGPS Compass	One
(f)	Echo sounder of dual frequency (50KHZ AND 200 KHz) (With independent Transducer) with repeaters and recording facility.	One
(g)	Electromagnetic log (digital) with repeaters and recording facility.	One
(h)	Magnetic compass on bridge top with reflector and 06 magnetic Correctors.	One
(j)	DGPS & IRNS	Two
(k)	Steering console with Auto pilot (interfaced with other navigation equipment).	One set
(l)	Hand held GPS.	Two

(m)	Class A type approved UAIS as per regulation laid down by IMO and IALA. UAIS shall be integrated with radar, ECDIS in IBS.	One
(n)	One Voyage Data Recorder(VDR) with float-free capsule to comply with IMO Res A 861 (20).	One
(p)	One ECDIS Electronic chart having vector charts information system and plotter with C-maps support.	One
(q)	Integrated Bridge System (IBS) in Bridge in accordance with NIBS	
(r)	Intelligent Electro Optical (Day and Night Vision) Surveillance and Response System	
(s)	Long Range Hailing Device(Acoustic)	

7. **Communication Equipment.**

<u>Sl</u>	<u>Equipment</u>	<u>Qty</u>
(a)	<u>Compact GMDSS Console</u>	
	(i) Min 400W MF/HF TX/RX with DSC capable of: (aa) Receiving high speed data broadcast (ab) Battery charging system for the GMDSS console	02 02
	(ii) 25W VHF TX/RX with DSC (Duplex version)	02
	(iii) INMARSAT 'C' with EGC (enhanced group calling) receiver.	01
	(iv) NAVTEX receiver	01
(b)	<u>Mil Grade Communication System</u>	
	(i) Software Defined radio 100 W HF TX /RX TR 2400 of ECIL / 1 KW SDR Make Avantel.	02
	(ii) HD /VLF RX (M/S BEL equipment) with high speed data modem with GMSK Demodulator.	02
	(iii) Digital V/UHF Tx/Rx PAE M- 7 of ECIL with all accessories and remote control.	01
	(iv) Portable HF Tx/Rx PRC 6020 A of BEL.	02
	(v) Portable V/UHF Tx /Rx LUP 329 of BEL.	02
	(vi) Portable Hands Free VHF set with Voice reducer (Motorola GP 338) with water proof leather case and spare battery.	08 sets
(c)	<u>Survival Craft Equipment</u>	
	(i) EPIRB 406 MHz (2 nd Gen).	01
	(ii) SART 9 GHz.	02

	(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 fixed with Integrated antenna system (to serve as LHCP and RHCP antenna) (Avantel Softech LTD.).	01
	(ii) Secrecy Overlay for MMS terminal (Gautam), Make-ECIL.	01
(e)	INMARSAT Fleet Express (type approved) terminal along with real time video conferencing devices.	01 set
(f)	Crypto PC.	01
(g)	Min 50 Ltr Capacity CB Chest.	01

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.

(c) IR Based Internal Communication system.

10. **Hull.**

(a) Hull material shall be Class approved indigenous **High Tensile Steel ABS Grade AH 36 or equivalent.** Deck house and super structure shall be class approved anti corrosive Aluminum alloy or **ABS Grade AH 36 or equivalent to meet design requirement.** Min Hull Plate thickness 06 mm.

(b) **Growth Margin.** 5% of Full Load Displacement, 3% of VCG rise and 1% Service Margin.

(c) **Dead Weight Consideration**

(i) Crew (50) @ 150 Kg.

(ii) Fuel as per endurance.

(iii) Lub oil as per endurance and one replacement.

(iv) Fresh Water 30 Ton.

(v) AVCAT 5 Ton.

- (vi) Armament 4 Ton.
- (vii) Ammunition 2 Ton.
- (viii) Store and provision 3 Ton.
- (ix) OBS 5 Ton.

(d) 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 with built-in FCS on bridge wing (approx weight 400 kgs) (Guns CG Supply).

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

11. **Engineering.**

- (a) Propulsion, Power Generation explained earlier.
- (b) IMCS integrated with PMS and IPMS.
- (c) Central Air Conditioning for extreme tropical conditions in all living and working spaces (should be able to take full loads) shall be provided.
- (d) Forced Ventilation and Exhaust arrangement for other spaces shall be provided.
- (e) Latest fixed Fi-Fi system(NOVEC).
- (f) **Limited External Fi-Fi capability.** ME / Gear Box driven Fi-Fi system (Port & Stbd) approx 400 M³ / hour at 100 meter throw.

12. **Electrical.**

- (a) Propulsion & Power Generation as explained above.
- (b) 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.
- (c) One Emergency Generator of adequate capacity to be provided to feed internal/external communication equipment and navigation equipment.
- (d) 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.

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

(f) PMS facility integrated with IPMS.

13. **Aviation.**

(a) Staging through (Day time) of ALH MK III (AUW 6.5 Ton) or SAR operations.

(b) Fueling , Defueling and Stowage (5 Ton).

(c) Helo Deck Fi – FI system as per class.

(d) Essential landing aids as per class.

14. **Boats and Cranes.**

(a) Two RIBS each eight men capable of making 30 Knots speed with side slip launching and recovery arrangement (GSL built ICG OPV).

(b) One articulated Crane 2 ton capacity for General usage and for launching and recovery of Six men inflatable boat (Gemini Craft) equipped with 40 HP OBM shall be provided along with Cradle.

15. **Accommodation.** Accommodation shall be provided for 50 personnel (08 Officers (including CO), 10 Subordinate Officers and 32 Enrolled Personnel).

16. **Life Saving Appliances.** Lifesaving appliances to cater for 50 personnel as per SOLAS requirement. Life jackets and Life Buoys are to be 20% excess to SOLAS requirement.

17. **Miscellaneous.**

(a) Damage Control and Fire Fighting System shall be provided to meet Buyer's as well as classification Society's requirement.

(i) Fire main system throughout the ship (isolation facility compartment wise) along with sprinkler for magazine.

(ii) Fire and Flood Alarm System, Fixed Fire Fighting System for machinery spaces, AVCAT Compt as per IMO norms.

(b) 10 TPD RO Plant & WHR for generation of Fresh Water.

(c) Sewage Treatment Plant (with H2S sensing) with adequate facility connected to vacuum toilet system to meet Classification Society's regulations.

(d) Mast, Jack staff and Ensign Staff shall be fitted. Mast rigging arrangement for flags and navigational shapes shall be provided.

(e) One four wheeler (transport /SUV) and one motor cycle for dispatch rider shall be provided.

REQUEST FOR INFORMATION: PROCEDURE FOR RESPONSE

Request for Information for Acquisition of 18 Fast Petrol Vessels (New Generation) for Indian Coast Guard

1. The Indian Coast Guard is planning to procure 18 Fast Patrol Vessels (FPV) New Generation. With the view to identify Capacity Cleared Shipyards who can undertake the said project, Capacity Cleared Shipyards are requested to forward information on the FPV(NG) which they can offer. The vendors are required to confirm parawise acceptance/comment on the parameters/ broad specifications of the FPV as mentioned at **Appendix A** of this RFI. In addition the vendors are required to furnish the details as per Proforma at **Appendix C** and the questionnaire attached at **Appendix D** of this RFI.

2. Apart from the information as per the **Appendix A**, the vendors may also forward technical details/product brochures/literature etc. pertaining to the FPV.

3. The required information/ details may please be forwarded at the following address by **03 Aug 2021**:-

(a) ADG Acquisition Technical(M&S), D2 Wing, R No. 5, Ground Floor, Sena Bhawan, E-mail: tmms-modacq@navy-gov-in, Tel: 011-21411712.

(b) The Principal Director (Ship Acquisition), Indian Coast Guard Headquarters, National Stadium Complex, New Delhi, India – 110001, E-mail: dte-sa@indiancoastguard.nic.in, Tel: 011-23074235.Fax: 011-23072201.

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: _____ Tel: _____ 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			
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)

REQUEST FOR INFORMATION: QUESTIONNAIRE

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. Estimated price of the FPVs _____
7. Indigenous component of the FPVs (in percentage) _____
8. Capability of Indian vendors to indigenously design and develop the FPV(NG) under Buy(Indian-IDDM) category _____
9. 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 _____.
10. Availability of the equipment/system/platform in the Indian market, level of indigenisation, delivery capability, maintenance support, life time support etc _____.
11. Approximate cost estimation and suggestions for alternatives to meet the same objective as mentioned in RFI _____.
12. Any alternatives for meeting the objectives set forth in the RFI
13. Any other relevant information _____
14. **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. _____
15. **Declaration.** It is certified that the above information is true and any changes will be intimated at the earliest.

(Authorised Signatory)

Date: _____

Place: _____