



Chittagong Dry Dock Limited

Bangladesh Navy

East Patenga, Chattogram, Bangladesh

Phone: +88(031)2501110, Mobile: +8801769744401

Fax: +880-31-2501123, E-mail: drydock.bd@gmail.com, Website: www.cddl.gov.bd



Notice

23.02.1565.341.14.003.20.72

16 January 2020

1. Chittagong Dry Dock Ltd (CDDL) is in the process of building 06 Offshore Patrol Vessels (OPV) for Bangladesh Navy (BN) in Joint Collaboration with reputed foreign/local shipbuilding company. In this regard CDDL is inviting Expression of Interest (EOI) from interested reputed foreign/local shipbuilding companies. This invitation will be closed on 29 February 2020. Salient Features of the OPV is attached herewith.
2. For additional information it is requested to contact CDDL. You may also communicate vide CDDL's official e-mail sbp18.cddl@gmail.com in this regard.



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SALIENT FEATURES OF OPVs

Ser	Criteria	Requirements
Section A- General		
1.	Type	Offshore Patrol Vessel (OPV)
2.	Roles	a. <u>Primary Roles (Peace Time).</u> (1) To provide constant presence in maritime area for surveillance. (2) To perform constabulary duties like policing, patrolling, anti-smuggling etc in EEZ. (3) To carryout fishery protection operations in coastal area. (4) To protect offshore resources in EEZ. b. <u>Secondary Roles (Peace Time).</u> (1) To support assistance and disaster relief (HADR) within coastal areas of Bangladesh. (2) To conduct search and rescue operations in EEZ.
3.	General Descriptions	Offshore Patrol Vessel (OPV) with Helicopter (up to 11 tonne) landing deck to carryout primary and secondary roles including wartime employment in coastal area. The vessel shall be able to carry two mission oriented containers.
4.	Ambient Conditions	The vessel shall be designed to operate in the prevailing ambient conditions of the sea area of Bangladesh.
5.	Displacement at full load	Around 2000 tonne (full load)
6.	Dimensions	a. Length (Overall): Not less than 85 m. b. Breadth (Max): around 14 m. c. Draught (Mean): Preferably not more than 4 m at Full Load with projections below base line.
7.	Speed	a. Maximum Speed: Not less than 20 Knots. b. Maximum Continuous Speed: To be mentioned. c. Economical Speed: To be mentioned (Not less than 12 knots).
8.	Endurance	Not less than 4000 NM at economic speed.



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9.	Seaworthiness	a. Should be able to carry out operation at sea states up to 6 and withstand up to sea state 8. b. The stability of the vessel shall comply with the requirement of International Stability Criterion certified by designated Class Society.
10.	Complement	Total 50, which includes officers (male and female), UT officers and sailors (male and female). However bunk/accommodations are to be catered for 90 men.
11.	Construction	The vessel shall be constructed in local shipyard of Bangladesh.
12.	Design	The design of the offered vessel should be either of Proven design, based on a proven design or based on CFD analysis.
13.	Mission Length	Maximum mission length of OPV shall be at least 30 days, while annual usages is around 4500 hrs.
Section B- Hull and Structure		
14.	Hull	The hull should be constructed by LR Grade A36 marine quality steel or equivalent with better grade as required.
15.	Superstructure	Superstructure is to be constructed by LR Grade A32 (or equivalent) steel or by marine grade aluminium.
16.	Accommodation, Messing and Recreation	Accommodations (including attached/commom WC) are to be catered for 90 persons. Separate messing and recreational facilities for officers & sailors, conference/class room for UTs.
Section C - Engineering and Propulsion Control		
17.	Propulsion system	The OPV shall be propelled by two or more marine Diesel Engines connected to two shafts & CPP systems through reduction gear boxes in order to produce the desired speed.
18.	Propulsion control	The propulsion system shall have automation and be controlled locally from engine room and remotely from Machinery Control Room and Bridge
Section D – Electrical and Power Generation System		
19.	Main Generators	a. The power generation system shall consists of 04 (four) marine type 3 phase generators. Out of these, 03 will be of same capacity main generator and 01 will be emergency generator. Main Power system will be 415 V AC, 50 Hz.



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20.	Shore Power System	01 x Shore supply box (400V, 3 Phase, 50 Hz, 0.8 p.f, 03 wires) shall be provided.
21.	Alarm Systems	General alarm system with broadcasting system, Action alarm system, Fire and smoke detection and alarm system and, Machinery alarm system shall be provided
Section E – Arms, Ammunition & Pyrotechnic		
22.	Deck Armament	a. 01 x30 mm automatic Gun integrated with FCS. b. 02 x 12.7 mm manual gun on either side of flag deck.
23.	Magazine	Capacity for storing ammunition for 30 mm and 12.7 mm gun.
Section F – Deck Gear		
24.	Ship's Boats	02x RHIB/Rescue boat with 8-16 men passenger capacity as per BN standardized specification. 01x Inflatable boat with 6 men passenger capacity as per BN standardized specification.
25.	Crane for Ship's Boat and other cargo	01 x Electro-hydraulic telescopic folding cranes or knuckle boom type of approximately 10 tons at 13 m jib length to lower cargo/mission specific container. Separate crane for lowering/hoisting ships' boats.
Section G – Navigation, Direction and Communication		
26.	Navigation Equipment	Standard navigational outfit including AIS as per BN requirement
27.	External Communication Equipment	Standard communication outfit including GMDSS as per BN requirement
28.	Internal Communication Equipment and Alarm Systems	01 x Complete set general broadcast system with all alarms (General, action, NBC, Man Overboard etc.) and entertainment systems, machinery intercom for communication between bridge, engine room, machinery space, emergency conning position etc and other standard items including combat intercom.
29.	Surveillance Radar	Surveillance radar integrated with the gun system
Section H – Aviation		
30.	Helicopter Deck	Helicopter and drone operating, Helicopter landing and refuelling facilities.



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Section J – Stores and Provisions		
31.	Storage and Refrigeration	Sufficient storage for dry provisions, spares and refrigeration facilities for storing fresh provisions.
Miscellaneous		
32.	Container Carrying facilities	Carrying capability of 02xMulti-mission containers each around 20TEU and weight around 9 tons.
33.	Lifesaving appliances	Quantity should be as per SOLAS requirement. and quality should comply GMDSS requirement..
34.	Diving Equipment	Diving sets, diving gears and diving set charging facilities.