Dockyard & Engineering Works Ltd.

Bangladesh Navy

Sonakanda, Bandar, Narayanganj-1413, Bangladesh
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E-mail: plans@dewbn.gov.bd, Web: www.dewbn.gov.bd

Ref: 06.02.6758.165.44.407.25. 2539 Date: 18 December 2025

EXPRESSION OF INTEREST (EOI)

1. Dockyard & Engineering Works Ltd, Bangladesh Navy, Sonakanda, Bandar, Narayanganj-1413 intends to have offer for **Marine Diesel Engine with standard associated accessories (Gearbox and Control Panel)** from a reputed OEM/OEM Authorized Agent/supplier. Short description of the tender is as follows:

a. **Name of Item and Quantity:** 2 (Two) complete sets of marine diesel engine with gearbox and 1 (one) set of engine control panel:

b. **Scope of Work/ Supply**. As described in the technical specification of individual items.

c. **Manufacturing Country**. As described in the technical specification of individual items.

d. **Basic Technical Specification**. As described in the technical specification of individual items.

e. **Standard**. As described in the technical specification of individual items.

f. **Qualification of Bidder.** The tenderer is to be authorized by Original Equipment Manufacturer (OEM)/OEM authorized agent/dealer for the supply of the items as per this tender. In case of offer from OEM authorized agent/dealer, certification of documents such authorization/ agency/ dealership of OEM to the authorized agent/dealer is to be provided and also must have following documents:

1. Attested copy of Valid Trade License or equivalent license.
2. VAT/ Business Registration Certificate.
3. Updated TIN/ equivalent certificate and Tax Payment Certificate.
4. Bank Solvency Certificate etc.

2. Interested OEM/ OEM authorized agent/ Supplier are hereby requested to contact following person of Planning & Design (P&D) department of DEW:

Md. Shahadat Hossain Rubel
Deputy Chief Engineer (Mechanical)
Planning & Design Department
Dockyard &Engineering Works Ltd.
Bangladesh Navy
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3. Interested design firm/ shipbuilder/ supplier will have to submit all documents both with signed and sealed by **25 December 2025** as per detailed Technical Specification of EOI (attached as enclosure).

4. Offer Validity: 150 days after submission.

5. DEW reserves all right to reject all or any part of the EOI prior to acceptance without showing any reason.

Md. Shahadat Hossain Rubel
Deputy Chief Engineer (Mechanical)
For Managing Director

Enclosure:

1. Technical Specification - 08 (Eight) pages

Tender/Proposal Detail

Tender/Proposal ID :	1195178	**Invitation Reference No. :**	44.08.2680.050.49.002.25.1310
Closing Date and Time :	30-Dec-2025 12:00	**Opening Date and Time :**	30-Dec-2025 12:00
Procuring Entity :	Directorate of Engineering		
Brief :	Marine Diesel Engine with standard associated accessories (Gearbox and Control Panel) for Typhoon Boat		
Tender/Proposal Status :	**Live**	View Notice	

Form Name : Technical Specifications and Compliance of Goods and related services (Form e-PG3-5)

Form Header :

Notes on Technical Specifications:

Note 1:

[A set of precise and clear specifications is a prerequisite for Tenderes to respond realistically and competitively to the requirements of the PE. In the context of Competitive Tender, the specifications must be prepared to permit the widest possible competition and, at the same time, present a clear statement of the required standards of workmanship, materials, and performance of the goods and services to be procured. Only if this is done will the objectives of transparency, equity, efficiency, fairness and economy in procurement be realized, responsiveness of Tenders be ensured, and the subsequent task of Tender evaluation and post-qualification facilitated. The specifications should require that all items, materials and accessories to be included or incorporated in the goods be new, unused, and of the most recent or current models, and that they include or incorporate all recent improvements in design and materials]

Note 2:

[The PE must explain in clear terms the exact Technical Specification and any relevant National or International Standards which have to be followed for the manufacture and supply of the goods or related services. Technical Specifications shall specify what inspection and/or tests the PE requires and where they are to be conducted]

Note 3:

Keep the same Item no. in price schedule and technical specification form.

Item No.	Name of Goods	Detailed Technical Specification and Standards required	Inspection and/or tests required and test place	Country of Origin	Make, and Model or Brand (when applicable)	Full Detailed Technical Specifications and Standards offered
1	Marine Diesel Engine with standard associated accessories (Gearbox and Control Panel).	Purpose: Marine Diesel Engine (along with Gearbox and Control Panel) with standard associated accessories will be used to replace the existing marine diesel engine, gearbox and control panel of Typhoon Boats.	As per required of BCGHQ	Fill By Tenderer/Consultant - Long Text	Fill By Tenderer/Consultant - Long Text	Fill By Tenderer/Consultant - Long Text
2	-	Quantity: 2 (Two) complete sets of marine diesel engine with gearbox and 1 (one) set of engine control panel.	-	Fill By Tenderer/Consultant - Long Text	Fill By Tenderer/Consultant - Long Text	Fill By Tenderer/Consultant - Long Text
3	-	Year of Manufacture: 2025 or later.	-	Fill By Tenderer/Consultant - Long Text	Fill By Tenderer/Consultant - Long Text	Fill By Tenderer/Consultant - Long Text
4	-	Country of Origin: EU Countries.	-	Fill By Tenderer/Consultant - Long Text	Fill By Tenderer/Consultant - Long Text	Fill By Tenderer/Consultant - Long Text
5	-	Manufacturer's Name and Address: a. For Engines and Control Panel: Volvo Penta, Sweden.	-	Fill By Tenderer/Consultant - Long Text	Fill By Tenderer/Consultant - Long Text	Fill By Tenderer/Consultant - Long Text

		b. For Gearbox: ZF, Germany.				
6	-	Local Service Provider/ Agent: Name and full address with e-mail of local service provider are to be mentioned.	-	Fill By Tenderer/Consultant - Long Text	Fill By Tenderer/Consultant - Long Text	Fill By Tenderer/Consultant - Long Text
7	-	Qualification of Bidder: The tenderer is to be authorized by Original Equipment Manufacturer (OEM)/OEM authorized agent/dealer for the supply of the items as per this tender. In case of offer from OEM authorized agent/dealer, certification of documents such authorization/ agency/ dealership of OEM to the authorized agent/dealer is to be provided.	-	Fill By Tenderer/Consultant - Long Text	Fill By Tenderer/Consultant - Long Text	Fill By Tenderer/Consultant - Long Text
8	-	Certificate/Document of Quality Assurance and Authentication: Following certificates/ documents from the Original Equipment Manufacturer (OEM) are to be submitted with the offer: a. Classification Standard and Type Approval Certificate: Marine Diesel Engine (along with Gearbox and Control Panel) with standard associated accessories supplied under the scope of the supply are to be designed, constructed/ manufactured and tested up to the requirement of SOLAS and/or any member of International Association Classification Society (IACS) (to be mentioned). Type approval certificates in English to that effect are to be provided along with the offer. b. Manufacturer Authorization Certificate: Necessary authentication certificates/ documents by the manufacturer are to be submitted with the offer: (1) The authorization certificate from the Original Equipment Manufacturer (OEM)/ its authorized distributor to the tenderer to be submitted with the Quotation. (2) The supplier is to certify with the offer that, the supplied items will be provided from the OEM which must be brand new and genuine. (3) The authenticity certificate of brand new and genuine from the OEM to be submitted during the delivery of items. c. Supply Assurance Certificate: The tenderer shall provide a guarantee from the manufacturers that all spare parts, materials and components used in all the equipment supplied in this tender shall be available for procurement for a period of 10 years after the equipment has been successfully commissioned and accepted by the buyer. The tenderer should submit necessary governmental license for the concerned components/items are free for sale with obligation for supply of spare parts, technical advice in future.	-	Fill By Tenderer/Consultant - Long Text	Fill By Tenderer/Consultant - Long Text	Fill By Tenderer/Consultant - Long Text
9	-	Scope of Supply: The standard associated accessories should be ready in all respect for operation after installation onboard. The scope of supply shall include:	-	Fill By Tenderer/Consultant - Long Text	Fill By Tenderer/Consultant - Long Text	Fill By Tenderer/Consultant - Long Text

		a. 2 (Two) in numbers complete marine engine sets, marine gearboxes and control panel (Port and starboard). b. 1 (One) set of Engine Control Panel for 2 (Two) Engines and Gearboxes. c. 2 (Two) complete sets of Marine Gearboxes. d. Necessary cables (Power cable and Control cable) between local control unit (Engine room) and Bridge room. e. Installation, Supervision & Setting to Work (STW) for engine, gearbox and control panel. f. Acceptance service as per para 21. g. On-site training in accordance with para 22. h. Documentation as mentioned in para 23. j. Warranty services as per para 24.				
10	-	Operating Environment: a. Ambient Condition: The Engines (along with Gearboxes and Control Panel) with standard associated accessories are to be designed to operate in the following ambient condition: 1. Air temperature: 50C to 550 C 2. Sea Water (SW) temperature: 50C to 320 C 3. Relative humidity : Up to 95 % Non-condensing 4. Salinity: Up to 34 gm/ltr 5.Quality of Sea Water (SW): High mud (Suspended solids in SW 2000 ppm) content SW in coastal area.	-	Fill By Tenderer/Consultant - Long Text	Fill By Tenderer/Consultant - Long Text	Fill By Tenderer/Consultant - Long Text
11	-	General Particulars of the Items to be Supplied: Marine Diesel Engine with control panel (Complete): a. Type: Marine b. Brand: To be mentioned (Existing brand: Volvo Penta) c. Model: To be mentioned (Existing brand: D6-370) d. Horsepower: 370 minimum e. Engine Speed: 3500 RPM f. Number of Cylinder and arrangement: 6 Inline g. Displacement: 5.5 litre h. Country of origin and manufacture: EU Countries (To be mentioned) j. Aspiration: Turbo-charged and after cooled k. Bore and Stroke: To be mentioned l. Compression ratio: To be mentioned m. Fuel System: Common Rail Fuel Injection n. Starting System: Electric Self Starter p. Battery Charging System: To be mentioned q. Electrical System: To be mentioned r. Maximum continuous rating: To be mentioned s. Fuel oil to be used: Low Sulphur Diesel Oil (LSDO) (Sulphur content less than 1.0% by weight) To be mentioned. t. Lube oil to be used: 15W40 or equivalent available in local market of Bangladesh. Marine Gearbox: a. Type: Marine b. Brand: To be mentioned (Existing brand: ZF)	-	Fill By Tenderer/Consultant - Long Text	Fill By Tenderer/Consultant - Long Text	Fill By Tenderer/Consultant - Long Text

		c. Model: To be mentioned (Existing brand: 220) d. Country of Origin & Manufacture: EU Countries (To be mentioned) e. Gear Ratio: 1.237:1 f. Dry Weight: To be mentioned				
12	-	Engine Control Panel: The dimension of the new panels should be matched with existing panels which is mounted on the dashboard of the bridge room and engine room. The control and monitoring panel is designed to incorporate safety features of the propulsion sets for their smooth functioning. Indication of the status of the control system shall be displayed on the diesel engine control panels. Dimensions and other details need to be submitted with the offer. The digital/ analogue meters and gauges should show following parameters: a. RPM of the Engines. b. Running Hour. c. Coolant/Freshwater Pressure & Temperature. d. Exhaust Gas Pressure & Temperature. e. Lubrication Oil Pressure & Temperature. f. Battery Voltage.	-	Fill By Tenderer/Consultant - Long Text	Fill By Tenderer/Consultant - Long Text	Fill By Tenderer/Consultant - Long Text
13	-	Engine Protection (Electrical): The engine shall be fitted with all protection devices necessary to ensure safe operation of the engine under the specified operating conditions. Such devices shall, where applicable, be integrated with other protection devices specified. The following protection equipment is a minimum requirement. However, the tenderer shall also include any additional items deemed necessary to satisfy the requirements of this section. a. Over-Speed Alarm: The engine shall be have an over-speed alarm which shall operate independently of the normal speed governor and shall act directly upon the supply fuel to the engine. Operation of the over-speed alarm shall also operate auxiliary contacts for the initiation of all alarms. b. Low Lubricating Oil Pressure Alarm: The engine shall have a mechanically operated device which shall operate independently of normal speed governor and shall act directly upon the engine fuel supply. Operation of this alarm shall also operate auxiliary contacts for the initiation of all alarms. The setting pressure of the device shall be much lower than the electrically operated device but above the safe operational requirements. c. High Freshwater Temperature Alarm. d. Low Freshwater Level. e. Emergency Stop.	-	Fill By Tenderer/Consultant - Long Text	Fill By Tenderer/Consultant - Long Text	Fill By Tenderer/Consultant - Long Text
14	-	Coupling: The engine will be coupled to gearbox through SAE standard bell housing via flexible coupling. The details shall be mentioned. The gearbox will be coupled to waterjet (Brand: Hamilton Jet, Model: HJ274) via standard coupling. The details shall be mentioned.	-	Fill By Tenderer/Consultant - Long Text	Fill By Tenderer/Consultant - Long Text	Fill By Tenderer/Consultant - Long Text
15	-	Base Frame: The engine and gearbox is to be elastically mounted on a base frame to be rigidly fixed to the engine &	-	Fill By Tenderer/Consultant - Long Text	Fill By Tenderer/Consultant - Long Text	Fill By Tenderer/Consultant - Long Text

		gearbox seating. Lifting eyes are to be provided for lifting the complete engine & gearbox as a whole, and the engine and the gearbox separately. The supplier is to supply standard shock and anti-vibration mountings along with holding-down bolts.				
16	-	Exhaust System: The exhaust system of the offered engine should match with the existing exhaust system of the boat. If cannot be matched, exhaust pipes from engine to boats outlet will have to be supplied by the supplier. However, following may be included in the exhaust system: a. Stainless steel expansion bellows with flange between the turbo charger/engine exhaust manifold outlet and the main exhaust pipe. b. Exhaust silencers.	-	Fill By Tenderer/Consultant - Long Text	Fill By Tenderer/Consultant - Long Text	Fill By Tenderer/Consultant - Long Text
17	-	Cables: The supplier is to provide necessary high-quality power and control cables for engines, gearboxes and control panel. Actual requirement of cable is to be assessed by the supplier on site visit and to be included in the offer.	-	Fill By Tenderer/Consultant - Long Text	Fill By Tenderer/Consultant - Long Text	Fill By Tenderer/Consultant - Long Text
18	-	Installation: The supplied engines, gearbox and control panel with standard associated accessories shall be installed as replacement of the existing engines, gearbox and control panel of the Typhoon Boats at supplier's cost. All materials required for mounting/installing are to be supplied with the engines, gearboxes and control panel at supplier's cost. The supplier shall also provide the required docking and workshop facilities for the mentioned installation.	-	Fill By Tenderer/Consultant - Long Text	Fill By Tenderer/Consultant - Long Text	Fill By Tenderer/Consultant - Long Text
19	-	Site Visit: The supplier may visit the installation site of engines, gearboxes and control panel before submission of tender to avoid any difficulties/ confusion after placing order.	-	Fill By Tenderer/Consultant - Long Text	Fill By Tenderer/Consultant - Long Text	Fill By Tenderer/Consultant - Long Text
20	-	Procedures for Acceptance: a. Acceptance Trial for the Fitted Engine: Acceptance trial will be carried out after installing the engine, gearbox and control panel with accessories as mentioned below: (1) The trial shall be carried out in the place (within Bangladesh) as specified by BCG and in the presence of BCG representatives by following conditions: (a) The actual engine speed shall be determined by taking arithmetic mean of 4 (Four) runs (With 1 (one) run in each direction) and each run will cover not less than 30 minutes. (b) The trial shall be carried out with the engine power at design RPM under the loading condition mentioned below. i. Full Load Condition. ii. Fuel - 90%. iii. Crew ? 4 (Four). iv. BCG Representative ? 2 (Two) v. Kit - To be mentioned. vi. Equipment - To be mentioned.	-	Fill By Tenderer/Consultant - Long Text	Fill By Tenderer/Consultant - Long Text	Fill By Tenderer/Consultant - Long Text

		vii. Sea/River State- 0. (c) The instruments used in measuring speed for the trial shall be provided by: i. The Supplier on the conditions that the instrument has been calibrated by a certified body acceptable to BCG. ii. Other speed (RPM) measuring methods acceptable to BCG. iii. Fuel, lubricants and other necessary support related to trial will be provided by BCG. iv. The trial shall be conducted safely and in accordance with the laws of Bangladesh. The Supplier shall provide to BCG with appropriate details of the Supplier's Staff attending during the trial. These details shall include the biography including name, post, duty, experience and certificate(s) of competency with photographs and shall be submitted at least 15 (Fifteen) working days prior to the trial. b. Final Acceptance: (1) On completion of successful trial, the replaced engines (along with gearbox and control panel) shall be accepted by BCG. (2) The replaced engine gearbox and control panel must be clean, tidy and fully fitted in operational condition during the delivery to BCG. (3) The final acceptance is only be completed once BCG has issued the final acceptance certificate to the supplier.				
21	-	Training: An on-site local training in Bangladesh is to be provided as mentioned below: a. The package of training should cover installation, start-up, operation, maintenance, and repair of supplied engines. b. The training should be conducted for total 18 (Eighteen) hours within 3 (Three) days for 10 (Ten) BCG personnel. c. The trainer(s) of the training is/are to be engineer certified and trained by Engine Manufacturer (AB Volvo Penta). Proof of such experience of the trainer is to be provided to BCG. d. The supplier shall notify BCG 7 (Seven) days prior to conduct the on-site training. e. The supplier is to submit the details of the training including the syllabus with the offer.	-	Fill By Tenderer/Consultant - Long Text	Fill By Tenderer/Consultant - Long Text	Fill By Tenderer/Consultant - Long Text
22	-	Documentation: a. Following documents and manuals in English are to be provided (3 sets) with the system free of cost at the time of item delivery: (1) Instruction and operation manual of	-	Fill By Tenderer/Consultant - Long Text	Fill By Tenderer/Consultant - Long Text	Fill By Tenderer/Consultant - Long Text

		engine, gearbox and control panel. (2) Maintenance manual of engine, gearbox and control panel. b. Brochure/ Booklet: One set of brochure/booklet, technical information, etc of the offered engines, gearboxes and control panels shall be provided with the offer for evaluation and assessment.				
23	-	Warranty: a. Warranty for repair/ replacement at supplier's cost for the supplied engine, gearbox, control panel and other accessories is to be given for a period of minimum 12 months after final acceptance by BCG. The warranty shall cover all parts and service costs/ charges throughout the warranty period. b. If any unit or subunit of the supplied items, the engine, gearbox, control panel or any supplied items remain non-operational for the defect for a certain period within warranty, the warranty will be extended by the same period. c. For warranty repair/ replacement, the supplier will collect the defective item from the boat and re-supply the same to collecting place after warranty repair or for replacement within 90 (ninety) days from the date of defect at no cost to the buyer.	-	Fill By Tenderer/Consultant - Long Text	Fill By Tenderer/Consultant - Long Text	Fill By Tenderer/Consultant - Long Text
24	-	Delivery: The items mentioned in scope of supply are to be delivered within 168 days after signing the contract as mentioned below: a. Consignee: The Director Engineering Bangladesh Coast Guard Headquarters Agargaon Administrative Area Sher-E-Bangla Nagor, Dhaka-1207 Bangladesh. b. Place of Delivery: Any suitable place in Bangladesh as decided by BCGHQ. c. Port of Shipment: To be mentioned.	-	Fill By Tenderer/Consultant - Long Text	Fill By Tenderer/Consultant - Long Text	Fill By Tenderer/Consultant - Long Text
25	-	Terms of Payment: Full payment will be made under the following payment terms: a. 60% of total value will be paid on delivery of the items described under the scope of supply. b. Remaining 40% will be paid on producing ?Acceptance Certificate? after installation, satisfactory test and trial jointly carried out by the buyer's and supplier's representatives.	-	Fill By Tenderer/Consultant - Long Text	Fill By Tenderer/Consultant - Long Text	Fill By Tenderer/Consultant - Long Text
26	-	Compliance Statement. A compliance statement fulfilling all the requirement of the tender is to be submitted for evaluation of the quotations. Stating mere ?Yes or No? will not suffice and detailed evidence with description/ information, brochures/ booklet, drawing and diagram as required is to be given. An incomplete compliance statement may attribute to cancellation of the offer. If any clause of this	-	Fill By Tenderer/Consultant - Long Text	Fill By Tenderer/Consultant - Long Text	Fill By Tenderer/Consultant - Long Text

		specification does not commensurate with offered engine, gearbox and control panel, the deviation must be spelt out clearly.				

Table Footer : [The Tenderer should complete all the columns as required]

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