



TECHNOLOGY DEVELOPMENT FUND (TDF) SCHEME



TITLE: DEVELOPMENT FOR INDIGENOUS THRUSTERS FOR YARD CRAFT

1. **Description:** Indigenous thruster for retro-fitment onboard naval platform yard crafts is based on thruster technology area with the objective of development indigenous thruster for use in Naval platform.

The indigenous thrusters/SRP/HRP, post development, can be retro fitted on one of the yard crafts for technology demonstration.

2. **Functional and operational requirements:** The indigenously developed thrusters should be designed so as to interface with existing propulsion aggregate fitted onboard Ferry crafts and achieve designed speed, maneuverability and quietness.

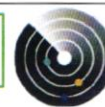
Functional specifications

1. Full displacement	:	325 Tonnes
2. Draught	:	Not more than 3 meters
3. Speed	:	12 to 15 knots at 85% power
4. Static bollard Pull	:	25 Tonnes at 85% power
5. Type	:	Z drive unit
6. Rating	:	1600 kW
7. Input shaft speed	:	1050 RPM
8. Reduction ratio	:	3.846:1 or similar
9. Duty Cycle	:	100% of operating hours at rated
10. Steering	:	360 degrees
11. CTC length	:	2350 mm
12. Mounting	:	Well mounted

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FEASIBILITY CUM RFI RESPONSE FOR THE PROJECT REQUIREMENT UNDER TDF SCHEME (PROFROMA)

1. **Name of the Institute** (Industry/Academia):
2. **Contact details:**
 - a. Email
 - b. PoC
 - c. Address
3. **Title of the project requirement:**
4. **Project Description** (Define broad understanding of the project requirement and proposed solution under the project).
5. **Briefly detail the proposed technical solution in terms of subsystem/submodule levels.**
6. **Road map for achieving the proposed outcome (Development Plan Phase wise -Max 5 phases).**
7. **Development and production Estimates:**
 - i. Estimated time required for development of the proposed technology /product (In Months).
 - ii. Estimated cost required for the for development of the proposed technology /product (BQs of submodules/subsystems if any pls attach).
 - iii. Estimated production cost of the end product after successful development (per unit or batch cost).
 - iv. Whether the industry has already done any Suo moto design and development of the proposed product/technology at Technology Readiness Level – Yes/No
 - v. Details of Suo moto design and development done if marked Yes in previous question (within 250 words).
 - vi. Essential infrastructure required for development of the proposed product/technology for which funding is required.
8. **Technical strength in terms of manpower.**
9. **Relevant Work Experience.**
10. **Any other relevant information**

Queries if any and the reply in PDF FORMAT to be submitted online addressing to;

TO,

THE DIRECTOR TDF, DRDO

DRDO BHAWAN, RAJAJI MARG, NEW DELHI 110011

Email to, arjunk.hqr@gov.in, CC to dir.tdf-drdo@gov.in.