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**केन्द्रीय मात्स्यकी प्रौद्योगिकी संस्थान**  
**CENTRAL INSTITUTE OF FISHERIES TECHNOLOGY**

(भारतीय कृषि अनुसन्धान परिषद)

(INDIAN COUNCIL OF AGRICULTURAL RESEARCH)

विल्लिंगडन आइलैंड, मात्स्यपुरी पी. ओ., कोच्चिन-682 029  
WILLINGDON ISLAND, MATSYAPURI P.O., COCHIN-682 029



**TENDER FOR**  
**TUNA LONG LINER CUM TRAWLER (MULTIPURPOSE, GREEN, DEEP SEA, RESEARCH VESSEL)**  
**FOR ICAR-CIFT, KOCHI**

Tender Enquiry No.: 26-1/2025-Purchase

email: [ciftpurchase@gmail.com](mailto:ciftpurchase@gmail.com)

website: [www.cift.res.in](http://www.cift.res.in)

[www.eprocure.gov.in](http://www.eprocure.gov.in)

Tel: 0484 - 2412397/2412345

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### NOTICE INVITING TENDER

ICAR- Central Institute of Fisheries Technology(CIFT), Kochi invites e-tenders for construction and delivery of Tuna Long Liner cum Trawler (Multipurpose, Green, Deep Sea, Research Vessel), Length Over all: 17.50 m through the website [www.eprocure.gov.in](http://www.eprocure.gov.in) under two-bid system from reputed manufacturers/ suppliers having GST registration

Tender Enquiry No. : 26-1/2025-Purchase	
Published Date	12.09.2025 -17.30 Hrs.
Bid submission start date	12.09.2025 -17.45 Hrs.
Pre-Bid meeting	23.09.2025 -11.00 Hrs
Bid Security Submission last date	03.10.2025-17.30 Hrs
Bid submission end date	04.10.2025-17.30 Hrs
Technical bid opening date	06.10.2025-11.00 Hrs

#### IMPORTANT NOTES:-

1. Tender Documents can be downloaded from CIFT website [www.cift.res.in](http://www.cift.res.in) or from Central Public Procurement Portal [www.eprocure.gov.in](http://www.eprocure.gov.in). Bidders should enroll / register in the e-procurement module of Central Public Procurement Portal through the website: [www.eprocure.gov.in](http://www.eprocure.gov.in). Bidders should also possess a valid DSC for online submission of bids.
2. **Bids received on e-tendering portal only will be considered. Bids in any other form sent through sealed cover/email/post/fax etc. will be rejected.**
3. The Director, ICAR-CIFT reserves the right to accept / reject any /all tenders on deviation from terms & conditions stipulated for participating in bid.
4. ICAR-CIFT will not be responsible for any delay in enrollment / registration as bidder or submitting /uploading the offer on e-tender portal. Hence, bidders are advised to register in e-tendering website [www.eprocure.gov.in](http://www.eprocure.gov.in) and enroll their Digital Signature Certificate and upload their quotation well in advance.
5. Any changes / corrigendum/ extension of opening date in respect of this tender shall be issued through websites only and no press notification will be issued in this regard. Bidders are therefore requested to regularly visit our website for updates.

**Asst. Administrative Officer (Purchase)**  
**FOR DIRECTOR**  
**Ph:0484-2412397**

Place: Kochi  
 Date: 12.09.2025



### **INSTRUCTIONS TO THE BIDDERS**

The bids shall be submitted in accordance with these instructions and any tender not confirming the instructions as under is liable to be rejected. These instructions shall form the part of the tender and contract.

For Online Bid Submission, as per the directives of Department of Expenditure, this tender document has been published on the Central Public Procurement Portal ([URL:http://eprocure.gov.in/eprocure/app](http://eprocure.gov.in/eprocure/app)). The bidders are required to submit soft copies of their bids electronically on the CPP Portal, using valid Digital Signature Certificates.

A **pre-Bid meeting** for interested bidders/their authorized representatives is scheduled at CIFT Cochin on **23.09.2025 at 11.00 Hrs.** in hybrid mode. Queries if any, may be sent in advance to our email id: [ciftpurchase@gmail.com](mailto:ciftpurchase@gmail.com) on or before 22.09.2023, 16.00 Hrs. Link for the meeting will be displayed in our website one day prior to the meeting.

1. Location for the Delivery:

After completion of construction of Tuna Long Liner cum Trawler (Multipurpose, Green, Deep Sea, Research Vessel) as described in the Schedule of Requirements & Specifications (Annexure-I) must be brought to **Vishakhapatnam Fishing Harbor afloat condition.**

2. Delivery Period:

Tuna Long Liner cum Trawler (Multipurpose, Green, Deep Sea, Research Vessel) as described in the Schedule of Requirements & Specifications (Annexure-I) **must be delivered before 20<sup>th</sup> of March, 2026.**

3. Eligibility Criteria:

- The bidder should have executed similar type of orders with Central/State /PSU/ Govt. Societies or any reputed organizations for a minimum of 3 to 5 years
- The bidder must have experience in the construction, trials and satisfactory delivery of at least three IR class steel small crafts of LOA 18 to 25 m .
- The bidders should submit the required documents/financial instruments as stipulated.
- The bidder must not be blacklisted by ICAR-CIFT or any other Educational/R&D/Govt. organizations. A certificate or undertaking to this effect must be submitted.

4. No extra payment shall be paid on account of any discrepancy in nomenclature of items. While submitting the tender, if any of the prescribed conditions are not fulfilled or are incomplete in any form, the tender is liable to be rejected. If any Tenderer stipulates any condition of his own, such conditions will be evaluated and decision will be taken by Director, ICAR-CIFT, Kochi
5. The Technical Committee constituted by the Director, ICAR-CIFT shall have the right to verify the particulars furnished by the bidder independently.
6. Tenderer shall take into account all costs including installation, commissioning, cartage etc. for giving delivery of Vessel at site i.e. Vishakhapatnam Fishing Harbour before quoting the rates. In this regard no claim for any extra payment for any reason shall be entertained.
7. A detailed break up of the Financial bid for engine and other equipments installed which may need regular maintenance must be provided by the successful bidder after awarding the contract.
8. The builder shall be responsible for dues damage during the transit of Tuna Long Liner cum Trawler (Multipurpose, Green, Deep Sea, Research Vessel).
9. All the communication with respect to the tender shall be addressed to:

**The Director,  
ICAR- Central Institute of Fisheries Technology,  
Willingdon Island, Matsyapuri P.O.  
Kochi – 682029.**



### GENERAL TERMS & CONDITIONS

1. **Name of the Item** : **Tuna Long Liner cum Trawler (Multipurpose, Green, Deep Sea, Research Vessel)**
2. **Specification** : **As per Annexure-I**
3. **Quantity** : **1 No.**
4. Only bids received on CPP Portal will be considered for opening. Bids in any physical form sent through fax/email/courier/post/ delivered personally will not be considered.
5. Bidders should login to the site well in advance for bid submission so that he/she upload the bid in time i.e. on or before the bid submission time. Bidder will be responsible for any delay due to other issues.
6. The bidder has to digitally sign and upload the required bid documents one by one as indicated in the tender document.
7. The tenders shall be valid for a period of 180 days from the date of opening of the tender.  
**If taxes, duties or any other charges payable by the purchaser be clearly indicated in the financial bid .**
8. The item offered shall confirm to the specifications as given in Annexure -I/work order and shall be guaranteed against defective design, defective quality material supplied, manufacturing defects etc .for a minimum period of one year from the date of launching. Documents supporting the technical specification of the quoted goods may be uploaded in Cover - I in the PDF format.
9. Proper Insurance may be assured during the construction till the delivery of the Vessel
8. The firms are also required to upload copies of the following documents. The tenderer has to quote Technical bid and Financial bid separately. Those bids which are technically qualified will be considered for financial evaluation.

#### **I. Technical Bid (in PDF format)**

- i. Detailed technical specification including the following documents/information:
  - a. Detailed General Arrangement Plan including accommodation and laboratory layout
  - b. Midship Section
  - c. Preliminary Trim and Stability calculations
  - d. Speed & power curve for the ship
  - e. Electrical load analysis
  - f. Maker's list
  - g. Other relevant data/drawings which the tenderer would like to present in support of the offered design.

- ii. A brief history of the Tenderer, their Organisational structure etc. along with material/information demonstrating their capability to undertake and fulfil the project.
- iii. A statement giving the number of similar size/type of vessels designed/built by the Tenderer year-wise during the last 3 to 5 years giving name of ship, size, capacity, year built, owners, classification etc. along with technical specification and GA drawing of the vessel(s)
- iv. Completion schedule of the vessel in number of months from the date of contract effectiveness
- v. The Annual Report of the Tenderer for the past three years together with a statement giving the summarized financial position of the company in English language certified by the Secretary of the Company or any other authorized official
- vi. Scanned copy of Earnest Money Deposit (EMD)/its exemption, if any
- vii. Scanned copy of firm's registration, PAN Card, GST No.
- viii. Scanned copy of Income Tax statement for the last three years.
- ix. Scanned copy of evidence of experience of last 3 to 5 years in the field.
- x. Scanned copy of firms address with valid email ID & phone no.
- xi. Scanned copy of duly signed tender document.
- xii. Scanned copy of tender acceptance letter.

## **II. Financial Bid**

The rate quoted should be inclusive of all Statutory obligations.

### **9. Bid Security:**

- a. The units registered with Micro Small Enterprises(MSEs) as defined in MSE Procurement Policy issued by Dept. of Micro, Small and Medium Enterprises(MSME) or are registered with the Central Purchase Organization or the concerned Ministry or Department or Startups as recognized by Department of Industrial Policy & Promotion (DIPP) shall be exempted from the payment of Bid Security (Earnest Money Deposit) as defined under Rule 170(i) of General Financial Rules (GFR), 2017. In such case, copy of the certificate showing registration with the above mentioned institutions to be uploaded in Cover - I of the e-tender in PDF format.
- b. In case the unit is not covered as above, it shall submit the offer along with the **Bid Security for Rs.750000/- (Rupees seven lakhs fifty thousand only)**
- c. The Bid Security of **Rs.750000/- (Rupees seven lakhs fifty thousand only)** can be submitted in the form of Demand Draft /Bankers cheque in favour of "ICAR Unit CIFT, Cochin" payable at State Bank of India, Willingdon Island, Cochin or **Bank Guarantee** in the prescribed format, valid for 45 days beyond the validity of bid. **The Bid security is to be submitted to this office on or before 03.10.2025.** Name of the Bidder, Tender and Tender reference number has to be furnished behind the Bid Security DD/Bankers cheque. The scanned copy of Bid Security by way of Demand Draft/Bankers Cheque /BG or its exemption certificate in PDF form should be included in Cover –I of the E-tender. The offers without Bid Security will be rejected.

- d. The Bid Security will be returned to the unsuccessful bidders after the work orders are placed with the successful bidder.
- e. The Bid Security will be forfeited if the bidder fails to accept the order based on his/her offer (bid) or fail to deliver the vessel.

10. Performance Security: The successful Firm/Party is required to remit a performance security amounting to **5% of the cost of the item** in the form of Insurance surety Bond, Account payee, Demand Draft, fixed Deposit receipt from a commercial bank, Bank Guarantee from a commercial Bank or online payment in an acceptable form drawn in favour of "ICAR unit, CIFT, Cochin payable at State Bank of India, Willingdon Island, Cochin from a commercial bank as directed by this office. The Performance security to be remitted within 14 days from the formal intimation. The performance security should remain valid for a period of 60 (Sixty) days beyond the date of completion of all contractual obligations of the manufacture, including warranty obligation.

Performance security shall be refunded to the builder without interest, after he duly performs and completes the contract in all respect but not later than 60 days of completion of all such obligations including warranty under contract.

Performance security will be forfeited and credited to the procuring entity's account in the event of a breach of contract by the manufacturer.

11. The Vessel to comply fully with the latest rules and regulations of the relevant statutory authority/regulatory bodies and port authorities including the following and as amended till the date of signing of contract.
- a. Indian merchant Shipping rules and IRS rules
  - b. Other rules relevant to this type and class of vessel.

The vessel shall comply with the Shipyard and shipbuilding standards as applicable and will be based on the design provided by the builder and approved by ICAR-CIFT as per the requirements in Annexure-I. The Vessel shall be constructed according to the rules and regulations of IR class, but without IR class certification.

12. Payment will be made by Bank/Electronic Transfer. Quotations giving any other mode of payment may be avoided. Statutory deductions will be made from any of the payments as per rules.

Schedule of payments:

The payments to be made in 5 stages on completion of 20% of construction

13. **Mode of payment** - Payment will be on transparent electronic payment systems like Electronic Clearance System (ECS), Real time gross settlement systems (RTGS), National Electronic funds Transfer (NEFT) or Electronic Payment Gateways.



#### 14. Contract:

The formal contract shall be executed after the necessary approvals from the Appropriate Authorities are received by the Director, ICAR-CIFT, Cochin. The Contract terms shall include, among other things, the following:

- a. A guarantee from a reputed bank, acceptable to the Director, ICAR-CIFT, Cochin guaranteeing that, in the event of the successful Tenderer (Contractor) failing to perform the contract/defaulting/not completing and delivering the Tuna Long Liner cum Trawler, all payments made to the builder for the construction of the vessel which are in the nature of advances, shall be refunded by the Bank to the Owner together with interest @9.1% per annum from the date these instalments are paid till the actual date of refund.
- b. The Vessel including all its machinery & equipment shall be guaranteed for one year from the date of delivery of the Tuna Long Liner cum Trawler at Vishakhapatnam Fishing Harbour, India and its acceptance by the Director, ICAR-CIFT, Cochin against deficiency in design, material, poor workmanship and/or faulty construction etc. In the event of the Vessel breaks down for more than 15 days, the builder shall extend the guarantee for a period equivalent to the period of breakdown. The builder shall guarantee that spares will be supplied if and when required on an agreed basis for an agreed price. A list of recommended running major spares fitted in the vessel and address of the manufacturing firms/vendors be also offered along with the tender with a commitment for minimum back up supply period of 5 years. The builder shall also guarantee to give adequate advance notice to the owner in the event of manufacturer/builder/supplier of any item fitted on the vessel going out of production of spares, in order to take timely steps to stock necessary spares. The builder shall make available any drawings technical information necessary as and when required in connection with repair of any item onboard. The builder is required to furnish a guarantee agreement in conformity with the above on acceptance of the order.
- c. The Vessel and all the Owners supply items to be delivered on the Tuna Long Liner cum Trawler are to be insured against all risks including War, Strike, Riots and Civil Commotion during the time of construction until delivery by the builder. In case vessel becomes constructive total loss during the construction or transit, the builder would refund to the Owners all installments paid until then with interest @ 9.1% per annum. All expenses for insurance shall be borne by the builder/manufacturer
- d. The Director, ICAR-CIFT, Cochin has the option of deputing Officers/Committee of the Institute to the place of construction of the vessel to evaluate the construction of the vessel.

- e. The Tuna Long Liner cum Trawler shall be classed with Indian Register of Shipping. The builder will do all formalities in connection with the registration and berthing at Vishakhapatnam Fishing Harbour in the name of Scientist-in Charge, Vishakhapatnam Research Centre of CIFT, Vishakhapatnam.
- f. The Makers list will be discussed and mutually agreed while finalizing the Technical specification. Selection of the makers from the Maker's List will be made in consultation and with approval of the Director, ICAR-CIFT, Kochi-29

**15. Termination of contract for insolvency:**

If the builder becomes bankrupt or becomes otherwise insolvent or undergoes liquidation or losses substantially the technical or financial capability (based on which he was deflected for award of contract), at any time, the purchaser may terminate the contract by giving written notice to the builder, without any compensation to the builder, provided that such termination will not prejudice or affect any right of action or remedy which has accrued or will or will accrue thereafter to the Procuring Entity.

**16. Dispute Resolution**

When a dispute/difference arises between the procuring entity and builder, both the purchaser and builder should first try to resolve it amicably by mutual consultation. If the parties fail to resolve the dispute within 21(twenty-one) days, then depending on the position of the case, either the purchase or builder should give notice to the other party of its intention to commence arbitration. When the contract with a domestic manufacturer, the applicable arbitration procedure shall be as per the Indian arbitration and conciliation Act 1996 and its amendments. While processing a case for dispute resolution or litigation or arbitration, the procuring entity shall take legal advice, at appropriate stage. **The venue of arbitration should be the place from where the contract has been issued.**

**17. Liquidated Damage Clause:** It would be realized @0.5% (half percent) of the base price (excluding taxes) for each week for default.

**18. Integrity pact**

The integrity Pact essentially envisages an agreement between the prospective vendors/bidders and the buyer, committing the persons/officials of both sides, not to resort to any corrupt practices in any aspects/stages of the contract. Only those vendors/bidders, who commit to such a pact with the buyer, would be considered competent to participate in the bidding process. The essential ingredients of the pact include:

- i) Promise on the part of procuring entity to treat all the bidders with equity and reason and not to seek or accept any benefit, which is legally available.
- ii) Promise on the part of bidders not to offer any benefit to the employees of the Procuring Entity not available legally and also not to commit any offence under Prevention of Corruption Act, 1988 or Indian Penal Code 1860.
- iii) Promise on the part of bidders not to enter into any undisclosed agreement or understanding with other bidders with respect to prices, specifications, certifications, subsidiary contracts etc.

- iv) Undertaking (as part of fall clause) by the bidders that they have not and will not sell the same material/equipment at prices lower than the bid price.
- v) Foreign bidders to disclose the name and address of agents and representatives in India and Indian Bidders to disclose their foreign principals or associates.

19. The above procurement will be subject to Manual for Procurement of Goods 2017 and General Financial Rules and orders and instruction and guidance from Govt. of India and ICAR from time to time.

20. Force Majeure: The builder shall not be responsible for any delay or failure to perform any or all of the obligations imposed upon such party caused by Force Majeure. In such a case, the time for performance of such obligations to the extent that they are directly or indirectly affected by such occurrence will be extended by a period equal to that time. Notification of a circumstance of Force majeure shall be intimated to the Director, ICAR-CIFT, Kochi within 5 working days of its occurrence. Only the following shall be considered as Force Majeure if they intervene before contractual delivery date and impede performance: acts of God, wars, revolutions, fire, floods, epidemics, quarantine restriction, freight embargoes and act of state (excluding Power cuts)

21. Extension of time: If the builder desire an extension of the time for completion of the work on the ground of unavoidable hindrance in its execution or on any other ground, he shall apply in written to the Director, ICAR-CIFT, cochin within 5 days of the date of hindrance on account of which he desire such extension as aforesaid and the Director shall authorize such extension of time or proper. No application for such extension will be entertained if it is not received in time of allow the Director to consider it and the builder will be responsible for the consequence arising out of his negligence in this respect.

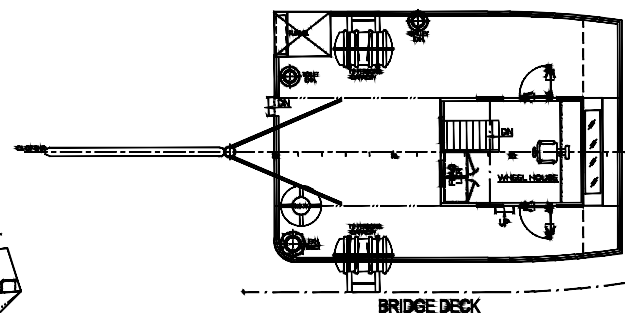
22. Termination of Contract:

a. Termination for default: The Director, ICAR-CIFT, Kochi may, without prejudice to any other remedy for breach of contract, by written notice of default sent to the builder, terminate the contract in whole or in part:

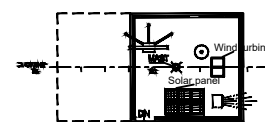
- If the builder fails to deliver the Vessel within the time period(s) specified in the contract; or
- If the builder fails to perform any other obligation(s) under the contract: and
- If the builder, in either of the above circumstances, does not cure his failure within a period of 30 days (or such longer period as the Director, ICAR-CIFT may authorize in writing) after receipt of the default notice from the Director, ICAR-CIFT, Cochin.

b. In the event the Director, ICAR-CIFT, Cochin terminates the contract in whole or in part, the Director may procure upon such terms and in such manner as it deems appropriate, goods similar to those undelivered and the builder shall be liable to the Director for any excess costs for such similar goods. However, the builder shall continue performance of the contract to the extent not terminated.

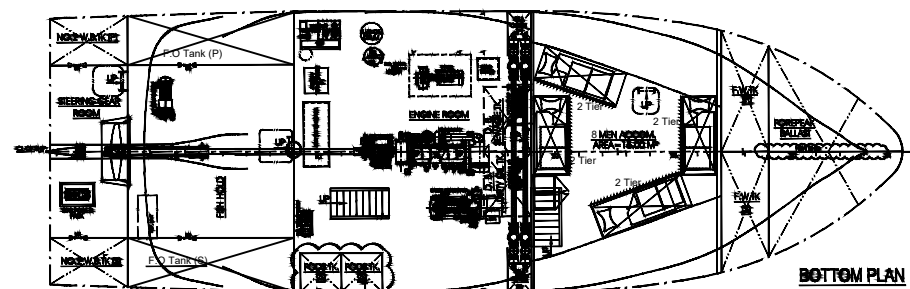
- c. Jurisdiction: The jurisdiction for all legal matters arising out of any questions, disputes, or differences, under, out of, or in connection with the contract shall be Cochin. All statutory instructions of Govt. of India, ICAR will be governing the dispute resolution mechanism.
23. All the contents of the submitted tender shall be in English language and the metric system.



BRIDGE DECK



NAV. BRIDGE DECK



### BOTTOM PLAN

LENGTH OVERALL	- 17.50 M	
LENGTH B.P	- 16.57 M	
BREADTH MOULDED	- <del>5.76</del> M	6.0 m
DEPTH MOULDED	- 2.60 M	
DESIGN DRAFT	- 1.60 M	
VESSEL TYPE	- FISHING VESSEL	
MAIN DECK CABIN HEIGHT	-2130mm	
WHEEL HOUSE CABIN HEIGHT	- 2130 mm	

NOTE :  
1.ALL DIMENSIONS ARE IN MILLIMETER UNLESS OR OTHERWISE SPECIFIED.  
2.ALL DIMENSIONS HAS TO FIT ACTUAL AT SITE.

**CENTRAL INSTITUTE OF FISHERIES TECHNOLOGY**  
 OFF JUNCTION, WILLINGTON ISLAND,  
 MATAPURU P.O., COCHIN - 682029, KERALA,  
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**TITLE:** GENERAL ARRANGEMENT DRAWING

DESIGN : Dr.M.J.Muham	DATE : 4.8.25	DWG. NO. CIFTR-VIZAG-8/2025
DRAWN BY : Vipinikumar V	JOB NO. : .....	SHEET : 1 OF 1
CHECKED BY : M V B	SCALE :	REV. : 0    SIZE : A

**TECHNICAL SPECIFICATIONS OF TUNA LONG LINER CUM TRAWLER**  
**(Multipurpose, green, deep sea research vessel)**

**1.1.1 General conditions:**

The purpose of this Specification is to outline the conditions and functional requirements for the design, construction and delivery of Tuna Long liner cum Trawler as per General Arrangement plan and to the specification.

**1.1.2 Basic requirements:**

- a) The vessel is intended to be used in deep sea with Endurance of about 5 days
- b) The vessel shall have adequate stability in all sailing conditions and shall have very good manoeuvring qualities to operate at normal sea conditions.
- c) The vessel will be designed for a minimum free running speed of 12.0 knots at calm water conditions.
- e) All materials, equipment and machinery shall be of high quality, and rugged construction, suitable for the marine use and for the prescribed services.
- f) All workmanship entering into construction and finishing of the work shall be in accordance with good shipbuilding practice.

**1.2 Main particulars:**

**1.2.1 Principal dimensions:(approx)**

Length over all	17.50 m
Breadth moulded	6.0 m
Depth moulded at side at	2.60 m
Draft Hull mean, maximum	1.60 m

**1.2.2 Engine output:**

The output of the main engines at Maximum Continuous Rating (MCR) shall be to produce power to achieve the specified speed of 12 knots.

Emergency source of power and starting arrangement shall be from 24V DC system

**1.2.3 Speed:**

At 100% MCR output of the engines, the cruising speed of 12.0 knots at mean draught at calm water conditions.

#### 1.2.4 **Tank capacities and deadweight:**

##### Tank Capacities: Approx:

Diesel oil storage tank	=	5500 L
Fresh water tank	=	2500 L
Insulated Fish Hold	=	4 m <sup>3</sup>
Material	:	Marine grade steel

#### 1.2.5 **Complement:**

The accommodation shall be arranged for a complement of 8 crew + 1 Researcher, as per GA. 1 Researcher and the Skipper/Bosun will stay in the double occupancy bath attached cabin on main deck. Remaining crew will be accommodated in the underdeck cabin. One common toilet facility is provided on the main deck. One toilet is also provided close to the Bio Lab.

#### 1.3 **Design Conditions:**

##### 1.3.1 **Ambient Conditions:**

For the design of installations and choice of material and equipment the following Climatic conditions shall apply:

- Maximum outside air temperature summer: 45° Celsius
- Minimum outside air temperature: - 20° Celsius
- Maximum humidity summer: 90 %
- Minimum humidity winter: 0 %
- Maximum outside seawater temperature: 32° Celsius
- Minimum outside seawater temperature: 4° Celsius
- Max temperature machinery spaces: 50° Celsius.

#### 1.4 **Rules & Regulations and Certificates:**

The vessel shall be built as per the rules of IRS. The structural design and Trim and Stability booklet shall be as per IRS rules.

##### 1.4.1 **Rules and Regulations:**

- f) This vessel will be constructed according to the rules and regulations of IR class, but without IR class certification. The vessel shall comply with the Shipyard and shipbuilding standards as applicable and will be based on the design provided by the builder and approved by ICAR-CIFT as per the requirements in Annexure-I

#### 1.4.2 **Certificates & Documents:**

The Shipyard shall furnish the following as fitted drawings, certificates and documents with Three (3) copies, at the time of delivery:

- 1) General arrangement Plan-Provided by CIFT
- 2) Detailed specification
- 3) Engine room layout.
- 4) -Liquid nitrogen freezer system (Will be provided by CIFT)
- 5) Hatch covers and closing appliances
- 6) Electrical diagram comprising of switch board, wiring, alternators, motors, special controls, distribution, fuses, etc.
- 7) Stern gear assembly. Steering gear assembly. Hydraulic lines system.
- 8) Tank sounding tables
- 9) Insulation details of fish hold
- 10) Life Saving Appliances plan
- 11) Fire Control Plan
- 12) Light, Sound and Signal plan
- 13) Accommodation layout
- 14) Fender details and drawing
- 15) Arrangement of deck machinery. Trim and stability booklet
- 16) Docking plan.
- 17) All trial reports.

Manufacturer certificates including the major equipments, shall be furnished to the Purchaser.

#### 1.4.3 **Registration:**

The builder will do all formalities for registration of the vessel with authorised Administration in the name of Scientist –in- Charge, ICAR-CIFT , Vishakhapatnam

#### 1.5. Trim and **Stability:**

The Shipyard will prepare a stability booklet based on applicable criteria (IRS) for fishing vessels. Upon substantial completion of the Vessel, an inclining test / Light ship survey shall be carried out to determine the light weight, the centre of gravity etc. The final stability booklet for the vessel will be prepared and provided after the above tests.

#### 1.6 **Tests and trials:**

##### 1.6.1 **General:**

Test and trials shall be carried out, checked by and be the full responsibility of the Shipyard. All instruments required for the tests shall be duly calibrated and arranged by the Shipyard/Supplier.

##### 1.6.2 **Factory Tests**

Shop-tests and trials for major machinery and equipment shall be performed in accordance with the standard protocol of the manufacturers.



### **1.6.3 Installation Trials:**

On completion of the structure, all tanks are to be tested for tightness as per the yard approved practice. As soon as the Vessel has been sufficiently completed, the Vessel shall undergo dock-trials, during which the main- and auxiliary equipment/ systems are tested in accordance with standard yard practice as applicable. In this completed stage the inclining test will be carried out as applicable.

All defects shall be corrected by the Shipyard and repeated tests shall be carried out before sea trials.

### **1.6.4 Sea Trials:**

The sea trials shall at least comprise the following tests:

- a) Speed trials to be carried out at calm water conditions over an agreed measured mile and consisting of 2 runs at 100 % total output main engine.
- b) Endurance trials and measurement of fuel oil consumption:

The endurance trial shall be carried out with a minimum of four hours continuous running with the main engines developing 100 % MCR. During the endurance trial the fuel oil consumption of the main engine shall be recorded.

- c) Crash stop tests;
- d) Astern sailing test;
- e) Manoeuvring tests (turning/ steering): The turning test shall be carried out with the main engines developing 90 % MCR;
- f) Fishing trials with all machinery parts

## **1.7 Materials and Workmanship:**

### **1.7.1 Materials:**

All materials and equipment to be used for the construction of the Vessel shall be new and of the latest design, intended for marine purposes where applicable.

### **1.7.2 Workmanship:**

All workmanship used for the construction of the vessel shall be of first quality and in accordance with standard of normal shipbuilding practice for this type of ship. The workmanship shall be such as to assure reasonable fair lines and smooth surfaces.

During the building period the Shipyard has to take effective precautions to prevent damage by fire or water. The vessel shall be kept clean and dry at all times and no dirt shall be allowed to accumulate. After launching the vessel shall be effectively and tightly moored in sufficiently deep water.

## **1.8 Drawings, Schemes, Calculations and Manuals**

The GA, Preliminary stability calculations and Structural design are to be **provided by ICAR-CIFT before the commencement of construction** of this vessel

### **1.8.1 Drawings, Calculations and Specifications:**

All drawings, calculations, results/protocols of tests and trials will be, as far as relevant, submitted for certification by the Authorised Agency and to the owners, as required by the Contract to be provided.

### **1.8.2 Final Drawings and Manuals:**

The Shipyard shall, before the date of delivery of the vessel, submit to the Owner three (3) sets of all final as fitted construction, arrangement drawings, schemes, documents and calculations including a list of these drawings, reports of various tests and inspections made, detailed lists of all spare parts, inventories and tools.

### **1.8.3 Drawings Displayed on Board:**

The following drawings to be laminated, framed and fitted on board at suitable locations:

- a) General Arrangement plan
- b) Fire & Safety plan

### **1.9 Inventories, Tools and Spare Parts:**

Inventories, tools and spare parts shall be provided in as follows:

- a) All spares as per OEM standard supply for a period of three years (Main engine, Winches, Generators)
- b) All tools supplied with the equipments /machinery by the respective OEM as applicable

## **2.0 Hull and Outfit**

The vessel will be constructed using marine grade steel (IS 2062 B) and good quality welding consumables.

Food/fish contact area has to be made in SS 316 grade

### **2.0.1 Hull Arrangement**

Transverse watertight bulkheads are arranged to subdivide the hull as following:

Compartment	1	Fore peak
Compartment	2	Fresh water tanks
Compartment	3	Crew Accommodation
Compartment	4	Engine room
Compartment	5	Fish hold/refrigeration
Compartment	6	Steering compartment

### **2.0.2 Wheel house**

The wheel house deck will be arranged at a raised level to get a clear view ahead. Control units are provided in wheel house for easy manoeuvring with a clear view Pilot Chair, cupboards/lockers should be provided in the wheel house.

### **2.0.3 Accommodation**

The A/C accommodation will be provided on the main deck for the Researcher + Skipper. The crew accommodation (A/C) will be under deck. Four numbers of two tier berth will be constructed under deck as per the GA drawing. There will be a bio-toilet adjacent to galley on main deck. Galley shall be provided with suitable space for cooking as per GA drawing. The galley equipment will be owner furnished.

### **2.0.4 Painting Schemes**

The painting of the vessel is of normal ship building standards with good quality marine paint for three year scheme.

The weld zones, burns, damages and other short comings in the shop primer will be cleaned and recoated. Weld slag, weld fumes, etc. will be removed carefully. The rough welds, rugged edges, etc. will be ground to smooth surface.

The following schedule is indicated as guidance to be followed for painting the vessel :

Location	No. of coats	Dry film thickness
Under water hull	2 coats tar free epoxy	Total 250 microns
	1 sealer coat	75 microns
	2 coats tin free anti fouling Self Polishing Co-primer	Total 200 microns
Topsides	3 coats epoxy	Total 375 microns
Fresh Water tanks	3 coats pure epoxy (food grade) fresh water compatible paint	Total 375 microns
Fish hold	3 coats pure epoxy (SS 316)	Total 375 microns
All weather decks, hatch covers, coamings, bulwark, crane foundation	2 coats epoxy	Total 250 microns
Exposed deck houses, deck fittings, davits, funnel, etc	2 coats epoxy	Total 250 microns
Inside machinery space, accommodation, stores, interior of vent trunks,	2 coats alkyd paints	Total 150 microns
Bare steel, anchor, hawse pipe	Epoxy	Total 250 microns
Bilges	Epoxy	Total 250 microns
Exhaust pipes	2 coats heat resistant paint	Total 80 microns
Galley	Fire retardant paint	Total 250 microns
Deck	Antiskid paint	As per manufacturer

The builder may propose alternative painting scheme as recommended by the paint manufacturer

### **2.0.5 Engine Room Structures**

The foundation for main engines, auxiliary engines and generators (capacities) are to suit the dimensions of the engines and generators to avoid vibrations. Seats of all welded construction carefully designed and fabricated with access and drainage holes are provided.

### **2.0.6 Main Deck**

The main deck of the vessel will be coated with anti skid paint. Weather tight arrangement shall be made for the compartments below. A suitable camber and sheer will also be provided for the deck. The main deck will contain a raised wheel house, cabin for crew, galley and toilet. The mast, derrick, bollards etc. are provided on this deck.

A bio lab of 2.2 m x 1.3 m to be made on the main deck as per the G A drawing. One toilet with W.C and wash basin will be attached to this Lab. The lab will have 2 sockets, light, fan and water tap

### **2.0.7 Bulwark and Railings**

The bulwark will be fitted with a height of 900mm all around.

### **2.0.8 Cathodic Protection**

The hull, propeller, rudder, skeg etc. will be protected against corrosion by fitting sufficient sacrificial anodes (Zn) for a protection period of three years.

### **2.0.9 Green concepts:**

Solar Panel (lighting, fan etc.)

Bulbous Bow

Wind turbine: On top of wheel house to generate power for small applications

## **3.0 Outfit**

### **3.0.1 Main Engine**

The vessel will be fitted with one marine diesel engine developing sufficient power suitable to power with a hydraulic reduction and reversible gear box.

The engine will be fitted with standard accessories as per the engine manufacturer's recommendations and to perform the duty.

### **3.0.2 Gear Box**

The vessel will be fitted with one hydraulic reduction and reversible gear box of required gear ratio meeting the propulsion power.

### **3.0.3 Propeller**

The vessel will be fitted with a fixed pitch bronze propeller mounted on a Stainless steel shaft.

Design of propeller and Kort nozzle will be provided by CIFT

### **3.0.4 Steering Gear**

A hydraulic steering system will be fitted. Additionally an emergency manual steering system will also be fitted.

### **3.0.5 Auxiliary Diesel Genset and Electrical Power System:**

The vessel will be fitted with one Auxiliary Diesel Genset of approx: 8-10 kVA

A power take off to drive an alternator to provide power supply to drive the hydraulic power pack required for deck machinery and auxiliaries will be suitably provided with necessary switches and gears.

Emergency supply from 24 V DC supplies will be provided with a suitable power take off from Main Engine.

### **3.0.6 Long line winch**

Hydraulically operated ( i ) main line hauling drum on the foredeck and (ii) line setter in the aft are to be installed on the main deck of the vessel. The Long line winch will be driven by the PTO of the main engine. To haul 5 km 3 mm monoline and to put 200 to 300 hooks at a time and to a maximum of 600 hooks.

#### **Trawl Winch:**

Warp length - 700 m

Diameter: 10 mm

Non-grease wire rope (Plateena)

### **3.0.7 Bollards and Anchor**

Mooring fittings are to be made convenient for the deck usage. Adequate stiffening will be made at underside the deck by way of fittings.

MS Fabricated anchor (1 nos) with nylon rope of sufficient length will be provided as a loose item.

### **3.0.8 Fire Control Appliances**

All Fire extinguishers will be supplied and properly stowed or fitted as per the plan.

### **3.0.9 Light and Sound Signals**

The builder will procure and supply all the -Light, Sound and Signal items as per the plan.

### **3.0.10 Life Saving Appliances**

All required LSA items (number: 10) to be supplied and installed as per the plan.

Life raft for 15 number capacity.

### **3.0.11 Hatches and steel doors**

Access hatches are arranged as shown on the general arrangement plan. Doors will be provided at entrances of wheel house, compartments toilet, etc.

### **3.0.12 Fish hold**

The insulated fish hold forward will be with PUF insulation and covered with three layers of SS 316 and partitions inside for proper stowage of fish. The insulated store will have dimensions as per General Arrangement plan. The insulation will be sufficient to keep ice and fish at -2 deg C. **A flake ice machine** for ice production (500 kg/day) to be fitted for ice production.

### **3.0.13 Mast**

One steel main mast, situated on the centre line of the vessel as per GA Drawing. This mast with adequate strength and supported suitably.

### **3.0.14 Navigation System**

The following shall be provided : The items to be procured and fitted in the vessel by the builder are marked in bracket

Automatic Identification system “ B” Type ( Builder supply)

GPS (Builder supply)

Ecosounder (Builder supply)

RADAR 24 nm range (Builder supply)

Magnetic Compass - 1 No. (Builder supply)

VHF with DSC (Builder supply)

Auto Pilot (Builder supply)

3D model of the boat ( 2 Nos)

Quantitative Echosounder / Fish Finder ( CIFT)

Fresh water Flake Ice machine for ice production (500 kg/day) (CIFT)

RO system (CIFT)

Clamp on ultrasonic Fuel Flow/consumption Meter (CIFT)

Vessel Tracking Device (CIFT)

SART (CIFT)

AI enabled Chart Plotter (CIFT)

Acoustic tracking devices (CIFT)

Robotic Underwater camera (CIFT)

Wheel house top mounted Solar panel with supply to wheel house and galley (CIFT)

Wheel house top mounted wind turbine with power integration to main supply (CIFT)

### **3.0.15 Valves**

IS or equivalent grade valves only will be fitted on this boat.

### **3.0.16 Pumps**

A hand driven bilge and fuel oil transfer pump will be fitted in the vessel.

### **3.0.17 Piping**

Separate piping for fuel, fresh water, and bilge will be fitted. The air vent, sounding pipes and filling pipes for holds and tanks will be provided. In addition, Piping system for deck hydraulic winch system, RSW plant, steering gear system will be laid.

### **3.0.18 DC system**

Two sets of heavy duty battery bank with re- charging facility shall be provided. A 24V DC system incorporating the batteries, which will be stored in ventilated battery boxes. The battery will be charged by alternator mounted on the main engine. This system will supply power to:

Starting of the main engine

Alarms

Emergency lights

Echo Sounder

VHF

Automatic Identification system “ B” Type,

GPS

Magnetic Compass

A distribution switch board, circuit breakers, fuses etc. are included in this system.

3.0.19. Sewage treatment facility to be provided

### **3.0.20 Warranty:**

Warranty for one year has to be provided by the builder for the entire boat including all equipment.

### **3.0.21. Vessel Delivery**

Delivery to be made by the party and handover the vessel to ICAR-CIFT at VISAKHAPATNAM, Andhra Pradesh.

### **3.0.22. Date of delivery**

20.3.2026

**BANK GUARANTEE FORM FOR BID SECURITY**

Whereas.....[*name of bidder*] [hereinafter called “the bidder”] has submitted his bid dated.....[*date*] for the supply of .....(*brief description of the relevant goods and services*) (hereinafter called “the bid”).

KNOW ALL PEOPLE by these presents that WE .....(*name of the bank*) having registered office at.....(*full address*) (hereinafter called “the bank”) are bound unto.....(*name of the purchaser*) (hereinafter called “the purchaser”) in the sum of Rs.....(*Rupees*.....(*amount in figures and in words*)) for which payment well and truly to be, made to the said purchaser, the bank binds itself, its successors and assigns by these presents.

Sealed with the Common Seal of the said bank this..... Day of....., 20.....

THE CONDITIONS of this obligations are:

1. If the bidder

- i. Withdraws its bid during the period of bid validity specified by the bidder on the bid form; or
- ii. Does not accept the correction of errors in accordance with the Instruction to Bidders.

OR

2. If the bidder, having been notified of the acceptance of its bid by the purchaser during the period of bid validity.

- i. Fails or refuses to execute the contract form, if required; or
- ii. Fails or refuses to furnish the performance security, in accordance with the instructions to Bidders;

We undertake to pay to the purchaser up to the above amount upon receipt of its first written demand, without the purchaser having to substantiate its demand, provided that in its demand the purchaser will note that the amount claimed by it is due to it, owing to the occurrence of one or both of the above mentioned two conditions, specifying the occurred condition or conditions.

This guarantee will remain in force up to and including 60 (sixty) days after the period of bid validity and any demand in respect thereof should reach the bank not later than the above date.

.....  
Signature of the Bank  
SEAL of the Bank

Date:.....  
Place:.....



**List of Documents to be provided as PDF file in cover -1 Technical Bid.**

1. Copy of Bid Security by way of Demand Draft, Bank Guarantee or Certificate showing its exception, if claiming.
2. Full address/contact details.
3. copy of GST Registration
4. Income Tax return of last three years ending March,2025
5. Pan card
6. Proof for experience.
7. Certificate that the bidder is not blacklisted by ICAR-CIFT or any other Educational/R&D/Govt. organizations.
8. Postal address, phone/mobile No., email id of the Bidder to whom the purchase order has to be placed.
9. Technical bid along with supporting documents/brochure etc.
10. Tender documents duly signed by the bidder.
11. If the unit registered with MSME an attested copy of Certificate.
12. Users list.
13. Tender Acceptance letter.

**Cover-II -Financial Bid** -in .xls format to be filled as per the instructions given in Financial Bid.

All the documents and BOQ(Financial Bid) has to be signed by the Bidder.

**Asst. Administrative Officer(Purchase)  
for Director(CIFT)**

**TENDER ACCEPTANCE LETTER**

(To be given on company letter head)

Date:

**To,  
The Director,  
Central Institute of Fisheries Technology  
kochi-682029.**

Sub : Acceptance of terms and conditions of tender -regarding.

Ref: Tender No.

Name of the tender:.....

Sir,

1. I/We have downloaded the tender documents for the above mentioned Tender from the Website(s) name:

.....

.....

as per your advertisement.

2. I/We have certify that I/We have read the entire terms and conditions of the tender documents from page No.....to.....(including all documents like annexure(s),Schedules(s), etc,) which form part of the contract agreement and

I/We

Shall abide hereby the terms /conditions, clauses contained therein.

3. I/We here by unconditionally accept the tender conditions of above mentioned tender documents(s), corrigendum(s)in its totality.
4. I/We do hereby declare that our firm has not been blacklisted /debarred by any Government Department. Public sector undertaking
5. I/We certify that all information furnished by our firm is true and correct and in the event the information is found to be incorrect. Untrue or found violated, then your Department/Organization shall without giving any notice or reason thereof or summarily rejected the bid or terminate the contract.
6. I/We engage to supply the material(s) to your office and comply the following:
7. Tender schedule and Technical specification indicated.
8. This offer is valid for 90 days from the date of opening of the tender.
9. That the rates quoted are not higher than the rates quoted for same item to any Government/Undertaking
10. That the bid submitted by us is properly sealed and prepared so as to prevent any subsequent alteration and replacement.

Signature & Seal Place & Date		Name of the Authorized Signatory:	
		Telephone No: Fax No: Mobile No: Email id:	