

www.cift.res.in
Phone: 0484-2412300
Fax: 0091 -484-2668212

E.Mail: cift@ciftmail.org
ciftcdn@gmail.com



केन्द्रीय मात्स्यकी प्रौद्योगिकी संस्थान
CENTRAL INSTITUTE OF FISHERIES TECHNOLOGY
(भारतीय कृषि अनुसन्धान परिषद)
(INDIAN COUNCIL OF AGRICULTURAL RESEARCH)
विल्लिंगडन आइलैंड, मत्स्यपुरी पी. ओ., कोच्चिन-682 029
WILLINGDON ISLAND, MATSYAPURI P.O., COCHIN-682 029



TENDER FOR

“Fabrication of fish behavior measurement gantry at CIFT, Kochi”

Tender Enquiry No.: [F.No. 1-13/2015-Cdn.](#)

(click here to view e-tender in cpp site)

email: ciftcdn@gmail.com

website: www.cift.res.in

www.eprocure.gov.in

Tel: 0484 – 2412406 / 2412306 / 2412300

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NOTICE INVITING TENDER

CIFT invites e-tenders for the work "fabrication of fish behavior measurement gantry at CIFT, Kochi" as per BOQ schedule of work enclosed through the website www.eprocure.gov.in from CPWD/PWD/MES or other Government agency registered contractors.

Tender Enquiry No. : F.No.1-13/2015-Cdn.	
Published Date	26.07.2018 – 1600 hrs
EMD Submission end date	18.08.2018 – 1100 hrs
Bid submission start date	26.07.2018 – 1700 hrs
Bid submission end date	18.08.2018 – 1430 hrs
Bid opening date	20.08.2018 – 1430 hrs

IMPORTANT NOTES:-

1. Tender Documents can be downloaded from cift website www.cift.res.in or from Central Public Procurement Portal 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. 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. CIFT reserves the right to accept / reject any /all tenders in part /full without assigning any reason thereof.
4. 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 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.

(Vinodh kumar M. N.)
Asst. Admn. Officer (Cdn.)
FOR DIRECTOR

Place: Kochi
Date: 26.07.2018

INSTRUCTIONS TO THE TENDERERS

The Tender 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.

1. 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.

More information useful for submitting online bids on the CPP Portal may be obtained at www.eprocure.gov.in/eprocure/app

For Registration

1. Bidders are required to enroll on the e-Procurement module of the Central Public Procurement Portal ([URL:http://eprocure.gov.in/eprocure/app](http://eprocure.gov.in/eprocure/app)) by clicking on the link "Click here to Enroll". Enrolment on the CPP Portal is free of charge.
2. No extra payment shall be paid on account of any discrepancy in nomenclature of items.
3. Bidders should be registered Government Contractors.
4. 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 conditional tender is liable to be rejected.
5. Director, CIFT, reserves the right to reject any tender/bid wholly or partly without assigning any reason.
6. The Works Committee constituted by the Director, CIFT shall have the right to verify the particulars furnished by the bidder independently.
7. The work/service invited is for CIFT, Kochi and the contractor shall be responsible for dues damage during the execution of work.
8. All the tender documents & Price Bid to be uploaded as per this tender are to be digitally signed by the bidder.
9. Bidder should log into 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.
10. 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.
11. The bidder has to digitally sign and upload the required bid documents one by one as indicated in the tender document.

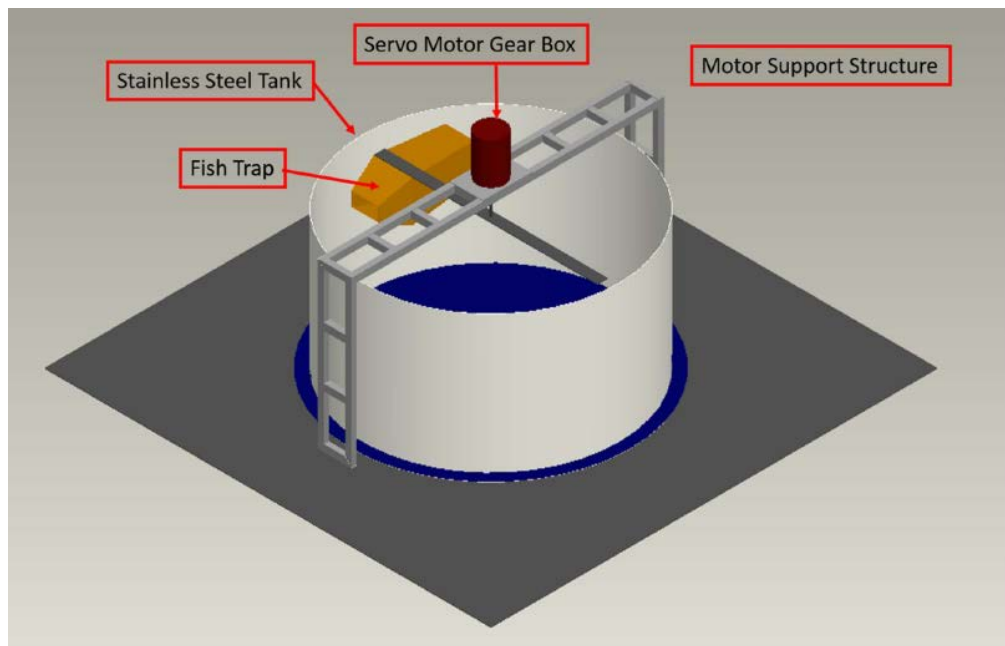
All the communication with respect to the tender shall be addressed to:

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

Enclosure 1: Detailed requirement and specification list of components,

The specification for fabrication of the rotary gantry arrangement for fish behaviour studies

1. A tank made of stainless steel 304 Grade of thickness 2.5 mm or FRP with appropriate thickness with, 2.3 meter dia and 1-meter height to contain sea water. (The tank should withstand corrosion against seawater)
2. A rotating arm of 2 meter dia with a fish holding on one side and a counterbalance on the other.
3. One servo motor and gear box combination required for precise motion of the arm/gantry
4. Mechanical structure required for housing the motor and the arm
5. LUX meter to measure the light intensity
6. One operator station with a software program to control the various modes of operation of the rotating arm.
7. Miscellaneous accessories like cables and conduits
8. Splash proof HD camera for recording



The layout of the system

The overall Layout of the system is as shown in the image above. The system would consist of a Tank (Stainless steel or FRP with appropriate thickness) mounted on the ground. A structural support would be placed over the tank to mount the motor and the gear box combination that would help in the rotation of the arm. A fish trap should be provided at one end of the arm and a counterbalance on the other side.

The fishes under study are placed in the trap, and the arm is rotated at a preselected velocity, thus simulating the movement of a trawler/fishing boat.

Various profiles and speeds of motion should be achieved through a software for this purpose. The same should be customized as per the requirements of CIFT.

Provisions should be made such that images can be captured through the software with appropriate time stamping and any other data like water temperature, speed of motion, type of mesh, etc, on the image for easier post processing. The camera should be splash proof with HD recording. A lux meter for measuring the intensity of light is also required.

Details of the components:

1. Servo Motor:

Parameter	Values
Rated Power	400 W
Rated Speed	3000 RPM
Rated Torque	1.27 Nm
Maximum Torque	4.46 Nm
Encoder	23 bit incremental encoder
Holding Brake Torque	1.6 Nm min.
Weight with brake	1.6 kg

2. Gear Box

Parameter	Values
Ratio	As per requirement
Backlash	5 arc-min
Allowable nominal torque	>15 Nm
Allowable average input speed	3000 rpm
Allowable Maximum input speed	6000 rpm
Approximate Weight	1.5 kg

3. LUX Meter

Display	0.5" (13 mm) LCD (Liquid Crystal Display).
Measurement	Lux, Ft-candle (Fc).
Ranges	Lux: 0 to 50,000 Lux, 3 ranges. Foot-candle: 0-5,000 Fc, 3 ranges.
Sensor	Exclusive photo diode & colour correction filter, spectrum designed to meet C. I. E.
Zero Adj.	Manual adjustment.
Sampling Time	Approx. 0.4 sec.
Response Time	Fast & Slow selector.
Over input indication	Indication of "1 "
Analog Output	0.1 mV/1 digit, max. Output 200mV.
Operating Temperature	0°C to 50°C
Operating Humidity	Less than 80% RH.
Power Supply	DC 9V battery
Power Current	Approx. 2 mA DC
Weight	220 g / 0.52 LB
Dimension Main instrument	163x70x30mm
Sensor Probe	85x55x12 mm

4. Camera: GoPRO Hero 5 Black or equivalent with at least 128 GB compatible memory card

5. Operating Station:

- Intel® Core™ i3 processor or better
- Windows 10 Pro 64
- 500 GB 7200 rpm SATA or better
- 4 GB DDR4 RAM or better
- At least 21" Monitor

GENERAL TERMS & CONDITIONS

1. Before quoting for the tender, it is requested to kindly go through the quotation Document thoroughly and abide by all the terms and conditions given.
2. **Before quoting the rates, the site may be inspected.**
3. Quotations received after due date and time shall not be entertained.
4. The quoted rates must be valid for six months.
5. Rates quoted must be given in the prescribed format in BOQ only and TAX/VAT applicable may also be shown.
6. **Earnest Money deposit**

The Contractor should furnish an **Earnest Money deposit** of **Rs.30,000/-** along with bid in the form of Account Payee Demand Draft from any of the Commercial banks in favour of "ICAR Unit CIFT, Cochin" payable at State Bank of India, Willingdon Island Cochin-682003, valid for 45 days beyond the validity of bid, is to be submitted to this office **on or before 18.08.2018**. Name of the Tender and Tender reference number has to be furnished behind the EMD DD/Bankers cheque. The scanned copy of Earnest Money Deposit by way of Demand Draft/Bankers Cheque in PDF form should be included in Cover -I of the E-tender. The offers without EMD will be rejected. The EMD will be returned to the unsuccessful bidders after the orders are placed with the successful bidder. The EMD will be forfeited if the bidder fails to accept the order based on his/her bid or fail to carry out the work.

7. The quotation must be for the whole work and not in fragments.
8. The Institute will not supply any tools, equipment, materials. The contractor has to make their own arrangement.
9. Works are to be executed strictly as per the specifications mentioned in the tender document, failing which, payment will not be made. Six months guarantee should be provided for the repairs undertaken.
10. Mandatory tax will be deducted at source from the bill as per rules.
11. 1% of the billed amount towards water charges will be recovered, if water for the work is supplied by the Department.
12. Deductions for electrical charges either on actual basis or at the rate of 1% of the billed amount will be made if the electricity is supplied by the Department.
13. 5% the total amount quoted for one year will have to be deposited with the Institute by the contractor as Performance Security within 7th day of the award of the work. This amount shall be refundable without any interest after six months from the date of completion.
14. The agency has to abide by all rules and regulations pertaining to labour act. The contractor has to take all necessary steps for the welfare measures of labour employed by him at the site.
15. The agency will be fully responsible for providing medical facilities to their labourers in case of any accident, etc. Matters related to labour welfare/problems should be dealt by the contractor only. CIFT, Cochin shall not be responsible in such matters.
16. The tenders/bidders in their own interest are instructed to visit the site for understanding the site conditions, nature of work involved, etc
17. Legal jurisdiction for all disputes shall be within the purview of the Ernakulum.
18. The payment shall be released only as per the actual measurement at the site and after satisfactory completion of work. No part payment/supplementary/enhanced/revised shall be considered in any circumstances.

19. Work is to be completed within 2 months from the 7th day of award of work. If it is not completed in the scheduled time a penalty @ 0.25% from the total cost of work shall be imposed at the first week. Further delay will attract increase in the penalty up to a maximum of 2% for every week.
20. The defect liability period is six months after completion of the work. Any defect arising in the defect liability period is to be rectified by the contractor without any extra cost
21. No labour of the contractor will be allowed to stay within the campus/site of the work.
22. The decision of the Competent Authority shall be the final to select the competent firms/contractors.
23. Please note in case of closing/opening day of the tender happen to be non-working day due to bandh/ strike/holiday etc., the tender will be opened on the following working day.
24. The work shall be executed as per the approved specifications and CPWD norms.
25. The contract can be terminated at any time without assigning any reason.
26. The Director, CIFT, Cochin reserves the right to accept or reject any tender / all tenders without specifying any reason whatsoever. No correspondence shall be entertained in this regard. The decision of the Director shall be final and binding on all concerned in such matters.

Asst. Admn. Officer(Cdn.)

Online Bid Submission Details

Online Bid Submission:

The Online bids (complete in all respect) must be uploaded online in single cover explained below:-

<u>COVER - I</u>			
(Following documents to be provided)			
S.No.	Types	Content	
1	Document	Copy of Registration certificate	.PDF
2	Document	Income Tax certificate	.PDF
3.	Document	Agencies terms & conditions	.PDF
4.	Document	GST/Service Tax Registration	.PDF
5.	Document	Copy of Earnest Money Deposit by way of Demand Draft	.PDF
6.	Financial Bid	Price bid (BOQ) to be filled in Excel format as per instructions given in price bid	.xls

All the documents and BOQ has to be digitally signed by the bidder.

(Vinodh Kumar M. N.)
Asst. Admn. Officer (Cdn.)
For Director