


INVITATION FOR BID

For and on behalf of IC & SR, IIT Madras, sealed tenders are invited IN TWO BID TENDER SYSTEM for the following work being executed by IIT Madras:- **(LIMITED TENDER)**

1)	Description:	PROCUREMENT OF DESKTOP SHIP HANDLING SIMULATOR FOR NTCPCW. (Detailed scope of work as mentioned under Section-III of this specification).
2)	Specification No.	OED/18-19/NTCPWC/KMUR/02
3)	Last date for Submission of Bid:	16.00 Hrs. IST on 17.08.2018
4)	Date & Place of Opening of Tender	16.15 Hrs. IST on 17.08.2018 Rm.005, Ground Floor, Department of Ocean Engineering, IIT Madras, Chennai 600036. If the due date happens to be a holiday, the tender will be received & opened on the next working day.
5)	Qualifying criteria	The tenderer should have supplied similar type of desktop ship handling simulator minimum two to government agencies for the preceding last three years. Copy of the Purchase orders issued by the govt. agencies must be attached.
6)	Pre -Bid Meeting	14.08.2018 at 11.00 A.M Conference Room, Department of Ocean Engineering, IIT Madras, Chennai 600036.
7)	Validity of offer:	90 days from the date of opening.
8)	Method of submission of tender:	Two Bid system (Technical & Financial)
9)	Delivery Time	Maximum of Two ^{FOUR} weeks from the date of issuing the Purchase Order
10)	Clarification to be obtained from:	Prof. K. Murali, / Dr. D.K Raju Department of Ocean Engineering IIT Madras, CHENNAI - 600 036 TAMIL NADU Phone no.: 044- 2257 4816 murali@iitm.ac.in / kumaranraju@gmail.com
11)	Tender Inviting Authority:	Prof. K.Murali, Room No. 005, Department of Ocean Engineering, IIT Madras, Chennai- 600 036.



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SECTION -I
INSTRUCTION TO BIDDERS

1.1 General and Scope of work

Separate sealed competitive bid under "Two bid tender system" is invited in the following works. *(Limited tender)*

1.2 Specification No: OED/18-19/NTCPWC/KMUR/02

1.3 SCHEDULES FOR RECEIPT AND OPENING OF BID:

- a) Last date and time for receipt of bids : 16.00 Hrs. IST on 17.08.2018
b) Date and time for opening of bids : 16.15 Hrs. IST on 17.08.2018

1.4 PRE - BID MEETING :

14.08.2018 at 11.00 A.M
Conference Room,
Department of Ocean Engineering, IIT Madras, Chennai 600036.

1.5 QUALIFYING CRITERIA:

The tenderer should have supplied similar type of desktop ship handling simulator minimum two to government agencies in India. Copy of the Purchase orders issued by the govt. agencies must be attached.

1.6 SUBMISSION OF TENDER:

Tender should be furnished in sealed cover, super-scribed as "**Procurement of desktop ship handling simulator**"

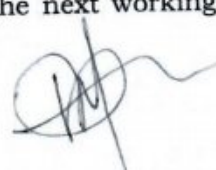
The offer should be addressed to:

Prof. K.Murali,
Room no. 005, Department of Ocean Engineering,
IIT Madras, Chennai- 600 036.

- 1.6.1** The Bidders have the option of sending the bid by Registered post, Courier or submitting the bid in person, so as to ensure that the bids are received in the specified office of the Purchaser, by the date and time indicated in the Sl.No.1.5 above. Bids submitted by Telex/ Fax/ Telegram/e-mail etc. will not be accepted.

1.7 OPENING OF TENDER

The tenders will be opened at **Rm.005, Ground Floor, Department of Ocean Engineering, IIT Madras** on the due date and time prescribed in the presence of such of those tenderers who may desire to be present. If the due date for tender opening happens to be a holiday, the tenders will be opened on the next working day.



The individuals attending the opening of tenders should be duly authorized by the participating firms in the tender. **No late / delayed tender can be accepted after closing of the tender box.**

If the tenderer has any doubt about the meaning of any portion of this specification, he may address the Tender Inviting authority which should reach at least one week before opening of this tender. Any clarification received after this date will not be entertained.

1.8 DELIVERY TIME:

Maximum of ~~two~~ weeks from the date of issuing the Purchase Order
FOUR

1.9 TENDER INVITING AUTHORITY

Prof. K.Murali,
Room no. 005, Department of Ocean Engineering,
IIT Madras, Chennai- 600 036.



COMMERCIAL AND TECHNICAL CONDITIONS**2.1 GENERAL**

The scope of services shall be as detailed in Section - III of this specification.

2.2 COMPLETENESS OF TENDER

The tender should be complete in all aspects. The tenderer shall furnish all relevant details called for in the specification with supporting documents with necessary latest brochure of the Desktop ship handling simulator with detailed specification (and drawing, if any) wherever required for considerations by IC & SR. The tenders not containing the complete details as requested in the specification are liable for rejection.

2.3 PRICES

Tenderers shall quote FIRM Price only. Shall quote price separately for each item in the respective schedule as prescribed in the specification.

2.4 TERMS AND CONDITIONS

1. If the item is under DGS&D Rate contract No. and the price must be mentioned. It may also please be indicated whether the supply can be made direct to us at the Rate contract price (Please note that we are not Direct Demanding Officers). If so please send copy of the RC.
2. Relevant literature pertaining to the items quoted with full specifications (and drawing, if any) should be sent along with the Quotations, wherever applicable. Samples if called for should be submitted free of charges, and collected back at the supplier's expenses.
3. Local Firms : Quotations should be for free delivery to this Institute. If Quotations for Ex-Godown delivery charges should be indicated separately.
4. Firms Outside Madras : Quotations should be for F.O.R. Madras. If F.O.R. consignor station, freight charges by passenger train / lorry transport must be indicated. If Ex-Godown, packing, forwarding and freight charges must be indicated.
5. The rates of GST and other taxes legally leviable and intended to be claimed should be distinctly shown along with the price quoted. Where this is not done, no claim for GST/General Taxes will be admitted at any stage and on any ground whatsoever. IIT Madras is eligible for concessional GST. Relevant certificate will be issued. In case of import supply the price should be quoted without custom duty. I.I.T. Madras is exempted from levy of IGST on Imports and eligible for concessional custom duty (not exceeding 5%) and the price should be quoted on **EX-WORKS** and **CIP** basis indicating the mode of shipment.

6. Goods should be supplied carriage paid and insured.
7. Goods shall not be supplied without an official supply order.

2.5 VALIDITY OF TENDERS

Tenders should be valid for acceptance for a period of at least **Ninety (90) days** from the date of tender opening. In case any bidder quotes a lower validity period than that called for, his offer shall be liable for rejection. In exceptional circumstances, the purchaser may solicit the bidder's consent to an extension of the period of the validity. The request and response thereto shall be made in writing (including fax or telex).

2.6 PAYMENT TERMS

Under any circumstances no advance payment will be provided, following is the schedule of payment.

- Payment against delivery = 100 %

Every attempt will be made to make payment within 30 days from the date of receipt of bill / acceptance of goods, whichever is later.

2.6.1 Payment will be made by Bank transfer on any one of the commercial banks or their branches in India as may be decided by IC & SR from time to time. Bank details with complete account number, Name of the branch, IFSC code and MICR Code should be provided along with the tender document also in the invoice. The invoice must be submitted in triplicate, Pre- receipted.

2.6.2 Offers agreeing to the above terms of payment will be preferred. IC & SR may reject the offers with other terms of payment.

2.7 FORCE MAJEURE

Neither the Contractor nor the Purchaser shall be considered in default in performance of its obligations hereunder if such performance is prevented or delayed for any causes beyond the reasonable control of the party affected, such as war, hostilities, revolution, riot, civil commotion, epidemic, major fires, explosions, floods, earthquakes or because of any law, order, proclamatory regulations or ordinance of Government or because of any act of God, provided notice in writing of such cause with necessary evidence that the obligation under the Contract is thereby affected or prevented or delayed, is given within 14 days from the happening of the event and in any case it is not possible to serve the notice within 14 days period, then within the shortest possible period without delay. In case the force majeure conditions prolong beyond a continuous period of 6 months, the Purchaser

shall be entitled to decide the further course of action including revisions in the terms of Contract, if any.

2.7.1 As soon as the cause of Force Majeure has been removed, the party whose to perform its obligation has been affected shall notify the other party the actual delay occurred on account of such activities.

2.7.2 Although the time for completion of work shall be suitably extended (not exceeding the period during which the work was stopped on account of Force Majeure clause), such extension shall not result in any financial claim by the Contractor against the Purchaser or any account of such a delay for any other reason whatsoever.

2.8 TAXES

The price quoted shall be firm and **shall be inclusive of all statutory levies and taxes including taxes as applicable. Necessary income tax will be deducted at source** on each bill as per the regulations in force. If the Institution is exempted from payment of income tax, the documentary evidence for the same has to be furnished.

2.9 JURISDICTION FOR LEGAL PROCEEDINGS

No suit or any proceedings in regard to any matter arising in any respect under this contract shall be instituted in a Court Save in the City Civil Court of Chennai or the Courts of Small Causes at Chennai. It is agreed that no other courts shall have jurisdiction to entertain any suit or proceedings even though part of the cause of action might arise within their jurisdiction. In case any part of cause of action arises within the jurisdiction of any of the courts in Tamil Nadu and not in the courts in the Chennai City, it is agreed to between the parties that such suits or proceedings shall be instituted in a court within Tamil Nadu and no other court outside Tamil Nadu shall have jurisdiction, even though any part of the cause of action might arise within the jurisdiction of such courts.

2.10 DEVIATIONS IN TENDER

Offers which conform to the specification without any deviation will be preferred. If the tenderer wants to deviate from any of the terms and conditions, the same shall be mentioned clearly.



2.11 IC & SR BOARD RESERVES THE RIGHT

- I.I.T. Madras has the right to accept the whole or any part of the Tender or portion of the quantity offered or reject it in full without assigning any reason.
- To relax or waive any of the conditions stipulated in the tender specification as deemed necessary in the best interest of the project for good and sufficient reasons.
- To revise the quantum of works/completion period of work of any or all the items covered by this enquiry during the pendency of contract and to terminate the contract in between the agreed stipulated period.

The tenderers should clearly indicate their acceptance or otherwise to the following terms and conditions.

- Specific acceptance of Board's terms of payment.
- Board's terms of Liquidated damages for delay in completion of work.
- Validity of tender.

If no indication is given by the tenderer in his offer, it is presumed that the tenderer is agreeable to the terms and conditions of IC & SR mentioned in the specification. All information in the bid shall be in ENGLISH only. All corrections, over typing etc. in the tender should be attested.

Tenderers are advised to post sufficiently early so as to ensure that the tenders reach this office in time. Tenders though posted in time but delayed in transit by post will not be considered, if received after the due date and time.

2.12 EVALUATION AND COMPARISON OF TENDER OFFERS

- a) The evaluation of the Tender will be done as per IIT Madras guidelines IC & SR.
- b) The evaluation shall include contract value of works with applicable sales/service tax, etc.,
- c) In case of discrepancy between the prices quoted in words and in figures, the lower of the two shall be considered.



SECTION – III
TECHNICAL SPECIFICATIONS

DESKTOP SHIP HANDLING SIMULATOR

National Centre for Ports, Waterways and Coasts, Indian Institute of Technology Madras inviting costing for setting up a desktop ship handling simulator. The simulator should contain following specifications and vendor can propose better specifications which includes Tug Master control.

1. Instructor & Simulation Server applications with the following specifications:
 - a) Control and monitoring of the available environmental conditions such as current, visibility, wind, swell, precipitation, and clouds
 - b) Monitoring of the own-ship and target ship parameters
 - c) Start, stop, pause, and restart of exercises
 - d) Control of the target ship shapes, signals, and lights
 - e) Control for target ships' course and speed
 - f) Creating of hazardous and challenging conditions for trainee by fault injection in navigational equipment and machineries

CONSOLE:

- ARPA / RADAR
- ECDIS
- CONNING AND MANOEUVRING CONSOLE
 - Rudder controls and indicators
 - Rate of Turn indicator
 - Magnetic compass and Gyro compass repeaters
 - Engine controls including RPM and thruster control
 - Doppler Log
 - Time, wind, distance sailed, depth indicators
 - Own ship navigational lights display control
 - Own Ship Fog Horn (Auto/Manual) controls
 - Pilot card and maneuvering characteristics for own vessel
 - Engine Alarm Panel & Telegraph control
 - View Control
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INSTRUMENTS

- Echo Sounder
- GPS
- Automatic Identification System (AIS)
- Doppler Log

SOFTWARE LICENSES FOR:

1. Ship Handling Simulator Instructor Station
2. Ship Handling Simulator Server Application
3. Visualization Software Modules for Single visual channel.
4. Type Approved Electronic Chart System Module
5. ENCs license for one year for offered exercise areas
6. Radar/ARPA module Software
7. Conning & Maneuvering Station software
8. Navigation aids simulation software module (Option to customize Hydrodynamics module)
9. Sound generation system and resource pack of sound databases

RESOURCES

1. 10 ship models
2. 15 target ship models
3. 10 exercise areas (includes Haldia Port Layout and other major Indian ports)

2. SCHEDULE OF FEES - I

SPECIFICATION NO. OED/18-19/NTCPWC/KMUR/02

FEE SCHEDULE FOR PROCUREMENT:

Sl. No	Description	Percentage %
1	Payment against delivery	100 %

SIGNATURE :
NAME :
DESIGNATION :
DATE :
PLACE :
SEAL

