TAMIL NADU Dr. J. JAYALALITHAA FISHERIES UNIVERSITY
Dr.MGR. Fisheries College and Research Institute, Ponneri– 601 204.

TENDER NOTICE

No.2000/DN/Dr.MGR.FC&RI/B4/Research cum Training Vessel (Steel) /Tender/2020, Dt.04.01.2020

For & on behalf of the Tamil Nadu Dr.J.Jayalalithaa Fisheries University, the Dean, Dr.MGR. Fisheries College and Research Institute, Ponneri, Tamil Nadu, invites Bids, under two cover system (Cover 1 – Technical bid, Cover 2-Commercial bid) from the reputed boat builders, for supply of "**Research Cum Training Vessel" for Dr.MGR. Fisheries College and Research Institute, Ponneri – 601 204.**

1.	Estimated Cost of the work	Rs. 1,00,00,000/-
2.	Earnest Money Deposit	Rs.1,00,000/- in the form of Demand draft of any scheduled Bank in favour of 'The Dean, Dr.MGR. Fisheries College and Research Institute' payable at Ponneri.
3.	Tender Fee (non-refundable)	Rs.100/- by cash /Demand Draft drawn in favour of **The Dean, Dr.MGR. Fisheries College and Research Institute, Ponneri** and also download from the website: **www.tnjfu.ac.in/public Info & Links/tenders** in free of cost.
4.	Download period of bid-document	**04/01/2020 (1000Hrs) to 28/01/2020 (1700Hrs)**
5.	Bid submission period	**04/01/2020 (1000Hrs) to 28/01/2020 (1700Hrs)**
6.	Date of opening of Technical Bids	**30/01/2020 (1000Hrs)**
7.	Submission of EMD & Tender Fee	**04/01/2020 (1000Hrs) to 28/01/2020 (1700Hrs)**
8.	Period of completion of work	180 days from the date of award of contract

Note:

1. *Tender Fee in the form of Demand Draft drawn in favour of "The Dean, Dr.MGR. Fisheries College and Research Institute, payable at Ponneri.*
2. *Earnest Money Deposit of Rs.1,00,000/- shall be furnished in the form of Demand Draft or FDR from any Nationalized Bank, in favour of The Dean, Dr.MGR.Fisheries College and Research Institute, payable at Ponneri on or before **28/01/2020 upto 1700hrs.** EMD in any other form shall not be accepted.*
3. *The details of work are available in the tender document along with terms and conditions which can also be downloaded from university website:* **www.tnjfu.ac.in/public Info & Links/tenders upto 28.01.2020 (1700 Hrs).**

Dean
Dr.MGR.FC&RI, Ponneri

TAMIL NADU Dr.J. JAYALALITHAA FISHERIES UNIVERSITY
Dr.MGR. Fisheries College and Research Institute, Ponneri – 601 2014.

TENDER SCHEDULE

Issued to:

Dean
Dr.MGR. FC&RI, Ponneri

Sl. No.	No. of Unit required (in Nos.)	Particulars of the equipment	Rate in Figures & Words	Unit in Figures & No.	Total
1.	1 No.	Research Cum Training Vessel (Marine grade steel plates – IS 2062 Gr.A.)			

Technical Specification:

Sl. No.	Particulars	Requirements	Qty	Rate in Figures & Words	Unit in Figures & No.	Total
		SECTION - I **1. GENERAL**				
1.1	BASIC FUNCTION	The **Research cum Training vessel** shall be of steel, fully welded, with raked stem and transom stern. The vessel shall be a single screw vessel with single rudder designed for a max. Speed of 8.50 knots. The vessel shall be fitted with single screw diesel engine with fixed pitch propeller of suitable diameter. The vessel shall be built with good shipbuilding practice and constructed incompliance with IRS approved structural requirements an approved IACS member Classification society. The vessel shall be provided with sufficient space for the research lab and class room for training.	-			
1.2	VESSEL STRUCTURE	LOA – 22.50 m Breadth – 6.30 m Depth – 3.50 m Draft – 1.8 m (Max) Speed – 8.5 Knots App. Main Engine - 180 BHP @ 2000 RPM	-			
1.3	CAPACITIES	Fish Hold protected with FRP - 10 Cu.M (App.) Laboratory cum classroom space – about 40 cu. M (App) Sufficient space to be provided for carrying provisions. Draft shall be adjusted with ballast provisions. F.O. – 12 Cu.M. F.W. - 10 Cu.M.	-			
1.4	RULES AND REGULATIONS	The hull shall be designed and built under special supervision and survey by Indian Register of Shipping (IRS). The scope of approval and inspection will be limited to Hull Construction and installation of machinery equipment and fittings falling under the scope of this specification. The Builder shall provide the following certificates to the Owners at the time of delivery of the vessel: - **a.** Builder's Certificate **b.** Certificate/Record of inspection	-			

		from class as stated above. **c.** Stability Information and Limitations, as endorsed by Class. **d.** Manufacturer's certificate of machinery and equipment to the extent available.				
1.5	REGISTRATION AND DELIVERY	Registration shall be the responsibility of the university as per the respective Maritime Board or Port Authorities as applicable. Shipyard shall provide all the technical Documents as required for the registration. **Delivery at ship yard site.**	-			
1.6	TEST & TRIALS	On completion of construction of the vessel, including commissioning of the machinery and equipment fitted onboard, following Sea Trials will be conducted along the waterfront of the yard (i) Propulsion Engine Trials ii) Maneuvering & Astern Trials ii) Speed trials iii) Steering and Turning circle Trials iv) Fuel consumption records	-			
1.7	MACHINERY TESTING	All major machinery and equipment such as Main Engines, Gearbox, Generators, Deck machinery and equipment, etc. shall be tested at Manufacturers' premises to the extent viable.	-			
1.8	INCLINING EXPERIMENT	When the vessel is substantially completed, inclining experiment shall be carried out in the presence of Classification society IRS and stability information will be prepared for submission to classification society. A preliminary stability Booklet will be kept on board at the time of delivery.	-			
1.9	SPARE PARTS, TOOLS AND ACCESSORIES	Spares, tools and accessories shall be arranged by the owners as required.	-			
		SECTION – II **2. HULL**				
2.1	MATERIALS AND SCANTLINGS					
2.1.1	GENERAL	The structural details in general shall be in accordance with structural Drawings and scantlings approved by the Classification Society on the basis of pressure. The hull and deck house shall be constructed of marine grade steel plates conforming to IS 2062 Gr. A. The structural work shall be executed in accordance with standard shipbuilding practice The Vessel shall be transversely framed with Long Girders and deep Transverse frames fitted as	-			

		approved by the Classification rules. The vessel shall be of all welded construction. The welding shall be carried out as per standard welding scheme.				
2.2	WORKMANSHIP	Standard Shipbuilding practices and workmanship shall be adopted during construction.	-			
2.3	LEAK AND STRENGTH TEST FOR HULL	The leak test shall be carried out by air using detective reagent soapy water on the building berth for F.O and FW Tanks. Side shell and bottom shell of the hull will be hose tested prior to launching.	-			
2.4	BOTTOM & SIDE SHELL	The Bottom and side shell plates shall be transversely framed with Long Girders and Deep Transverse frames as per approved Structural Plans. Side stringers forward shall also be fitted as required.	-			
2.5	DECK STRUCTURE	The main deck to have a straight-line camber and shall have transverse framing supported by girders. The girders to be supported by bulkheads, pillars and / or heavy deck beams. The deck plating thickness shall be increased locally in way of deck machinery and other area of heavy loading as required.	-			
2.6	BULKHEAD STRUCTURE	All Bulkheads shall be vertically stiffened. Where pipes etc. are to be carried through the watertight bulkhead, they shall be provided with necessary arrangement to maintain water tightness.	-			
2.7	FISH HOLD	Fish hold shall be provided with paneling and ceiling with pre-fitted PUF insulation. The Support structure IWO Fish hold to hold the Panels and ceilings shall be adequately strengthened. **Fish hold capacity shall be approx. – 10 cubic meter**	-			
2.8	SUPER STRUCUTRE	Super structure shall consist of a single Wheel House cum Accommodation Cabin. 03 x Two Tier bunks shall be provided in the accommodation area for the crew. Wash room shall be provided as per the General Arrangement plan.	-			
2.9	SKEG	The skeg shall be of single plated construction and sufficiently stiffened to maintain directional stability.	-			
2.10	RUDDER	Single plated rudder arrangement ensuring good maneuverability shall be provided. The rudder torque shall be calculated to suit its maximum speed and ease of operation with manual Hydraulic	-			

		steering system. The construction of the rudder shall be single plated of fully welded construction made of ship building steel. Rudder shall be designed for good engagement and to facilitate unshipping.				
2.11	BULWARK	Bulwark of app. 1000mm height shall be provided all around the vessel with properly spaced stays. Bulwark stays shall be in line with or supported by suitable under deck stiffening. Bulwark shall be sloped inboard to avoid any damage due to contact and the upper edges of the bulwark shall be made smooth to avoid rough contact and breakage of the fishing nets &mooring/towing lines. Drain holes of sufficient size shall be provided under the bulwark to drain out the water fro, deck.	-			
2.12	ACCESS HATCHES & DOORS	Access Doors and Escape hatches as required shall be provided on the deck. Hatches shall be provided with weather tight hinged cover. E'gcy Hatch for Engine Room shall be positioned such that it should be possible for anyone to come out on to the deck in an emergency. All steel doors, hatches and manholes shall be constructed in accordance with good shipbuilding practice. The External weather tight doors shall be fitted with hinges & Toggles. All internal doors will be panel doors.	-			
2.13	ANCHORS, CHAIN CABLE, MOORING ROPES	Anchors, Chains and ropes shall not be provided as the same will be arranged by the fishing vessel operators to suit their standard practice for this type of vessel.	-			
2.14	FISHING GEARS	The fishing gears shall be provided by the owners as per Owners requirement. **Mechanical and Hydraulic provisions shall be provided for One Long line hauler drum and One Gill Net Hauler, both hydraulically operated drums shall be installed later on the vessel at suitable locations.**	-			
2.15	WHEEL HOUSE	The wheelhouse shall be fitted with all navigation, Communication and control equipment as specified. Wheelhouse windows shall be arranged to give maximum visibility all round and above. Automobile type electrically operated Window wipers shall be provided for the central wheel house window.	-			

2.16	LSA & FFA	Following Life Saving Appliances & Fire Fighting Appliances shall be provided on the vessel a. Life Jackets b. Life Buoys c. Fire Extinguishers Foam type (9 Litres) . d. Fire Extinguishers Co2 type (6 Kg).	 9 Nos. 4 Nos. 1 No. 1 No.			
2.17	CATHODIC PROTECTION	The underwater parts of the hull shall have a cathodic Aluminium anode protection, sufficient for 5 years in tropical conditions placed at significant positions. The Anodes shall be so fitted on the Hull, that they do not interfere during net hauling-in operations	-			
2.18	PAINTING	All steel materials used in the construction shall be surface prepared conforming to SA 2.5 and epoxy primed after construction. The areas damaged during construction shall be cleaned and touched up regularly. The final painting scheme shall be prepared in consultation with paint manufacturers to suit a **five-year scheme** of underwater. Finishing colour scheme above Boot top areas shall be finalized in consultation with owners. All underwater and Tank painting work shall be carried out as per standard shipbuilding practice.	-			
2.19	LAB / CLASS ROOM SPACE	Laboratory cum classroom facilities shall be provided with rack for storing water samples and reagents. The entry and exit shall be from deck with weather tight entrance.	-			
2.20	DAVIT	A davit with height of 1.5m rotatable near mid ship on deck shall be provided. The davit shall have suitable SWL. The outreach shall be 1.5 m	-			
		SECTION – III **3. ENGINEERING**				
3.1	GENERAL	The machinery and equipment in engine room shall be provided incompliance with the specification requirements and shall be installed according to the manufacturer's recommendations and the builder's standards. The electric power plant shall consist of one diesel engine driven main generator.	-			
3.2	MAIN PROPULSION MACHINERY	Single shaft propulsion system with a diesel engine coupled to reverse reduction gear box and shafting with one fixed pitch propeller line to meet all requirements shall be	1 No.			

		fitted. The Design of the propulsion system shall cater to a speed of app. 8.5 Knots. The OEM's control panel shall be provided in the main engine machinery panel. The Main engines shall be of reputed company make developing 180 HP @ 2000RPM. The Engine shall be electric starting and shall be provided with control and alarm Panels.				
3.3	GEAR BOXES	The main engine shall be coupled with a marine reverse reduction gear box of Advance Marine make, model 135A and reverse reduction ratio of 4.65:1 shall be provided. All accessories and fittings shall be provided as per OEM standards. The operations of the gear box and the speed of the main engine shall be controlled by a single lever type mechanical remote control from wheelhouse.	1 No.			
3.4	GENSET	One auxiliary diesel generator set of 20 KVA Capacity shall be installed in the engine room to meet the electrical loads. Standby DG set of same capacity can be provided if required additionally at mutually accepted terms. Engine and alternators shall be shop tested as per OEM standards. Electric starting arrangement shall be used for starting the diesel generator engine.	1 No.			
3.5	STERN GEAR & PROPELLERS	Water cooled stern gear consisting of SS shafting, Cutlass Rubber/GM bushes, Stern tube, Gland housing, Coupling and Fixed Pitch Bronze	1 No.			
3.6	STEERING GEAR	A Manual hydraulic Steering Gear of app 0.2 T.M Torque, shall be installed along with associated piping and Hydraulic system.	-			
3.7	PUMPS & PIPING SYSTEM INCL. HYD, REFRIGERATION	**a.** Bilge/GS piping: Bilge suction will be provided in E/R through a main Engine Driven Bilge pump through PTO drive. A drain bilge line from Fish Hold shall be led to E/R bilges with an isolating valve. All other compartments shall be provided with bilge Suction Pipe upto Deck and closed with a blank Flange. A portable Hand pump shall be provided loose to be used for connecting to these Suction pipes as and when required. Piping shall be of IS 1239 ERW GI Class C pipes and CI/GM globe/Gate or Ball valves **b.** Sea water cooling System: Sea	-			

		water cooling system for Main & DG Engine cooling shall be provided. Piping shall be of IS 1239 ERW GI Class C-pipes and CI/GM globe/Gate or Ball valves **c.** Sea Suction shall be provided through a 300mm Dia. Sea suction fitted with a sea Suction valve and a strainer with a suction manifold with Valves for Engine cooling Suctions and Bilge suction. **d.** Fuel Oil Piping: Fuel Oil Transfer from main storage tanks to daily service tank shall be through a Hand Pump fitted in the E/R along with associated piping and Valves. Piping shall be of IS 1239 ERW Black Class C pipes and CI/GM globe/Gate or Ball valves. **e.** Air, Filling and Sounding Piping: FW, F.O storage Tanks shall be fitted with Air pipes, Filling pipes and Sounding pipes. Piping shall be of IS 1239ERW GI/black Class C-pipes and fittings. **f.** Domestic Piping: FW Transfer from main storage tanks to Overhead storage tank shall be through a Hand Pump fitted in the E/R along with associated piping and Valves. Piping shall be of IS 1239 ERW GI Class C pipes and CI/GM globe/Gate or Ball valves. **g.** Hydraulic Piping: Hydraulic system shall comprise of Hydraulic Pump driven Through PTO of Main Engine with suction from Hydraulic tank located in E/R and supply and return lines to Gillnet and Long line winches. **h.** Fish holds shall be covered with FRP.				
		SECTION – IV **4. ELECTRICAL**				
4.1	GENERAL	The main electrical power system shall be provided with a diesel driven generator set of upto 20 KVA capacity shall be provided. This system shall supply electrical power through the main switchboard to distribution boards to all services as necessary.	-			
4.2	GENERATOR/ALTERNATOR	A Diesel Driven Genset which is capable of delivering 20KVA shall be provided.	1 No.			
4.3	MAIN SWITCH BOARD, 24 V DC TRU & BATTERY CHARGER PANEL, 24 V	The Power supply shall be through a Main Switch Board to supply power to all 230V requirements. A separate TRU with Battery charger for 24V DC power supply shall also be	-			

	NAVIGATIONAL LIGHT PANEL	provided for Navigation and communication systems. A 24V, 180 AH Battery backup shall also be provided for 24 V DC supply and E'gcy 24 V DC domestic lighting. In addition, 24V DC power supply from Engine starting Batteries shall also be provided for 24 V Domestic Emergency Lighting. **Additional lighting and plug points shall be provided in the lab and class room area as required.**				
4.4	SEARCH LIGHT & DECK FLOOD LIGHTS	One 250W LED search light shall be fitted on top of the wheel house where maximum search area can be covered and shall be controlled from wheelhouse. One No 150W LED deck flood Light shall also be provided.	Each 1 No.			
4.5	NAVIGATIONAL LIGHTS &SOUND SIGNAL	The vessel shall be fitted with the following 24V DC Navigational Lights a. Mast Head Light b. Anchor Light c. Side Lights (P&S) d. RM Light e. NUC Lights f. Stern Light. All the above lights shall be operated through a 24V DC Navigation Light panel. One electric horn shall be provided at the top of the wheel house.	Each 1 No.			
4.6	NAVIGATION AND COMMUNICATIO N EQUIPMENTS	The following Navigation Equipment shall be fitted on Board. These equipments shall be manufactured by reputed equipment manufactures. 1. AIS Class B/VMS 2. GPS 3. Echo Sounder cum Fish Finder 4. Desk Mounted Magnetic Compass 5. VHF with DSC Necessary wireless license for fitment and operation of the above shall be obtained by the university to enable yard to commission the communication equipment. Any other Identity Nos such as MMSI No. and IMO no. If required shall also be obtained by the university.	Each 1 No.			

TAMIL NADU Dr. J. JAYALALITHAA FISHERIES UNIVERSITY
Dr.MGR.Fisheries College and Research Institute, Ponneri – 601 204.

TENDER FORMS AND CONDITIONS

No.2000/DN/Dr.MGR.FC&RI/B4/Research cum Training Vessel (Steel) /Tender/2020, Dt.04.01.2020

1. GENERAL:

(Two cover system: Technical bid and Commercial bid should be submitted separately)

Last date for submission of Tender is on **28.01.2020 up to 5. 00 pm**
Date of opening of tender is on **30.01.2020 at 10.00 am**

Tenders should state in the body of their letter
Whether they are: -

i) Company should have own ship building yard with water front
ii) Must have experience in constructing vessel of various sizes for at least 5 years.
iii) Must have experience in constructing deep sea fishing vessel of similar sizes.
iv) Shipyard shall be in the list of empanelled shipyard by the Tamil Nadu Government under government scheme.
v) Must be ISO certified shipyard.
vi) Vessel's hull from should be model tested -1

II. DEVIATION FROM SPECIFICATION:

The tenderers are requested to study the specification-stated below:

Tender for the supply of Research cum Training Vessel (Steel) are invited

SPECIFICATION	:	as given in the schedule
NOS. REQUIRED	:	as given in the schedule

SERVICE CONDITION :

Guarantee period and after sales service conditions to be mentioned. In case of deviation or alteration the same should be brought out boldly and prominently in the offer made.

III. Any terms or conditions not brought out in the body of the offer will not be considered.

IV. In case any condition or terms of contract applicable in the invitation of tender is not acceptable to the tendering firm they should specifically state Deviation there in from the body of their tender.

V. In the Body of the letter, the tendered should specifically state that he agrees for sole arbitration by the **Dean, Dr.MGR. Fisheries College and Research Institute, Ponneri – 601 204.**

VI. Price:

a) Prices must be in terms of rupees and paisa
b) The unit price should be for the equipment as indicated in the schedule of tender enquiry and not for any other equipment.
c) Price quoted should be for delivery at Shipyard, as specified by the University.
d) Discount if any, should be indicated prominently.
e) Prices quoted shall be firm in all respects and for each equipment.
f) Tenders with price variation basis will not be accepted.
g) The offer should be kept valid for nine months from the date of tender

VII. The tenderer is solely responsible for the equipment till delivered and demonstration of the equipment to be conducted.

VIII. **Earnest Money Security Deposit and Execution of Agreement:**

Each tender should be accompanied by 1% of **Earnest Money Deposit** of **Rs. 1,00,000/- (Rupees One lakh only)** in the form of demand draft drawn in favour of **The Dean, Dr.MGR. Fisheries College and Research Institute, Ponneri** payable at **Ponneri** failing which the tender will not be considered. **Cheques will not be accepted**. If for any reason the tenderer withdraws the tender before or after being selected or before being rejected by the competent authority, **The Dean, Dr.MGR. Fisheries College and Research Institute, Ponneri – 601 204** reserves the right to forfeit the deposit in part or in full. The earnest Money deposited will be refunded to the unsuccessful tenderers. **In the case of successful tenderers, the amount will be adjusted towards Security Deposit.**

The successful tenderer (here in after referred to as contractor) shall also furnish a security deposit of not less than 5% of the total value of the contract subject to maximum of Rs.5,00,000/-(Rupees Five lakhs only) within **15** days from the date of intimation of the acceptance of the tender.

The security deposit will be refundable only after the expiry of a period of ONE YEAR from the date of handing over the stores in working conditions/completion of the work to the full satisfaction and upon the **Dean, Dr.MGR. Fisheries College and Research Institute, Ponneri** issuing a certificate that no amount is due from the contractor under the agreement

and that the Contractor executed on a non-judicial stamp paper of the value to be fixed incorporating the terms and conditions of the contract within one month from the date of intimation of the acceptance of the tender. In case of default of these conditions i.e. remitting security deposit and executing agreement within the time allowed, the Earnest Money Deposit (EMD) will be forfeited without prejudice to any other right of the University will also be entitled to make other arrangement for obtaining these items from others and recover from the contractor any excess expenditure or cost incurred by the University over the contract price together with all charges, expenses and damages attending to such purchase, provided the Dean, Fisheries College and Research Institute, Thoothukudi in specific circumstances in the matter of payment of security deposit and execution of agreement.

IX. **Delivery:**

The supplies shall be subject to inspection and acceptance or rejection by **The Dean, Dr.MGR. Fisheries College and Research Institute, Ponneri – 601 204**, or such other person as **The Dean, Dr.MGR. Fisheries College and Research Institute, Ponneri – 601 204** shall from time to time name and appoint for the purpose, the said person to be named and appointed being hereinafter referred to as the Inspection Officer.

The supplies made by the tenderer which in the opinion of **The Dean, Dr.MGR. Fisheries College and Research Institute, Ponneri – 601 204**, or the Inspecting Officer in bad order, unsound in quality or description or not in accordance with specifications as have been prescribed in that behalf or otherwise faulty or unfit for use, shall be rejected.

The supplies so rejected shall be removed by and that the expenses of tenderer within 15 days after he has been given notice of the rejection. If not taken away, **The Dean, Dr.MGR. Fisheries College and Research Institute, Ponneri – 601 204**, may cause the goods to be removed and disposed off in the manner he may deem fit and recover from the tenderer the expenses incurred in such removal and disposal.

The substitution of supplies which have been rejected by the **The Dean, Dr.MGR. Fisheries College and Research Institute, Ponneri – 601 204**, or the Inspecting Officer in whole or in part under the provisions herein before contained the tenderer shall and will within the time permitted by the **The Dean, Dr.MGR. Fisheries College and Research Institute, Ponneri – 601 204**, or the Inspection officer after such rejection shall have been notified to him as aforesaid supply and delivery without causing any extra cost of expenditure. If not so supplied and delivered by the tenderer or substitution as aforesaid and also in case of failure by the tenderer to supply and deliver supplies demanded from him under this tender within the period prescribed for supply and delivery, **The Dean, Dr.MGR. Fisheries College and Research Institute, Ponneri – 601 204**, or the inspecting Officer shall have power to purchase from others in lieu of rejected or not delivered goods and any excess expenditure or cost incurred by the University over and

above the tenderer price together with all charges and expenses attending to the purchase shall be recoverable from the tenderer. Nothing herein contained shall prejudice any other right of the University in that behalf under the tender or otherwise.

X. A guarantee towards the supply of spare parts if any when required on the agreed price.

XI. **The Tenderer shall furnish the following Guarantee:** A guarantee to the effect that articles supplied shall be of the best quality and workmanship and shall be in with such quantities and such price. A guarantee for a period of one year or more from the date of handing over the equipment and systems and any defects in their proper function during the guarantee period should be rectified by the tenderer free of charge. If during the guarantee period, the supplies are found not to the description and quality offered by the University will be entitled to reject the articles and the supplier shall replace or pay the University such damages as may arise including the replacement of cost and towards delay and damages. Nothing herein continued shall prejudice any other right of the University if that behalf under the tender or otherwise.

XII. **TRANSFER OF SUPPLY**

The tenderer shall not transfer or assign the supply or any part there or any interest therein directly or indirectly to any person or persons whomsoever without the written consent of the University.

XIII. If the supply order is placed on a higher tenderer as a result of inability of the tenderer then he will be liable to pay the University the difference between the supply rate and that the lowest acceptable tender. This is in addition to and without prejudice to other rights under the terms of the tender.

XIV. **INSTALLATION AND TESTING**

All deliveries of goods should be accompanied by invoice bills in triplicate to the officer at site to whom the goods are supplied.

a) The time allowed for completion of supply and delivery as prescribed including demonstration under the conditions of the tender is the essence of the tender.
b) Without prejudice to other rights under the terms of this tender or otherwise.
c) If the tenderer fails in the due performance of his supply within the time fixed in the supply or any extension thereof, the tenderer is liable to pay as liquidated damages upto 2% per month of the supply value of such portion of the materials as have not been delivered, installed and commissioned and having been delivered, installed and commissioned cannot in consequence of the delay be used efficiently during each month between the appointed or extended time as the case may be and

the actual time or delivery installation. The tenderer is not entitled for any enhancement of the rates once accepted. It shall be lawful for the purchaser to set off any loss or expense or cost of damages sustained or incurred by the purchaser by reason of the cancellation of the tender form and out of nominees for the time being payable or due to the tenderer from the University otherwise apart from forfeiting the security deposit furnished by their tenderer.

d) All sums found due to the University under or by virtue of these presents shall be recoverable from the tenderer in any manner as the University may deem it.

XIV. Any notice or communication to the tenderer shall be deemed to be sufficiently served if given or left in writing at his usual or last known place of abode.

XV. All questions, disputes or differences arising under out of or in connection with the supply, if not concluded shall be subject to the exclusive jurisdiction of the place from which the acceptance of the tender is issued, is situated.

Dean
Dr.MGR.FC&RI, Ponneri