

TAMIL NADU FISHERIES UNIVERSITY

Lr.No. 212/FITT/Supply, installation and commissioning of Aqua feed production equipments and accessories/2017, dated 05.09.2017

THE SCHEDULE

I. GENERAL REQUIREMENT

Last date for submission of Tender is 25.09.2017 upto 4.00 PM. Date of opening of tender is on 26.09.2017 at 3.30 PM. If the tender Opening date is declared as a Holiday by the Government, then the next working day will be the day for opening of tenders. Tenders should state in the body of their letter whether they are:

- i. Manufacturers (or)
- ii. Manufacturers authorized agents (or)
- iii. Holders in stock of the stores tendered for
- iv. TNGST Number should be quoted
- v. The offer should be submitted to two separate envelopes, one for technical bid and the other for commercial bid (marked on top of the envelope as TECHNICAL BID and COMMERCIAL BID). Both the bids should be submitted in sealed closed cover.
- vi. The second cover (Commercial bid containing the Price quotation will be opened only if the technical bid found qualified).
- vii. Indian agents of Foreign Principals should submit their offer / tender along with original proforma invoice from their Principals. Tender should be submitted as per detailed specification for the equipment / item with Earnest Money as specified in this document, through FDR / Demand Draft and should be enclosed.
- viii. A certificate should be submitted to the effect that spares of the equipment will be available upto 7 years (3 years warranty, 2 year guarantee, 2 year comprehensive AMC) after warranty is over, otherwise the equipment will be replaced under buy back scheme at 50% of the original price of the item / equipment.
- ix. The tenderer should furnish a list of supply of such instruments to reputed / accredited institution / industries in the last three years since January 2014 and should be working satisfactorily. Documentary evidence to this effect should be provided with the tender.

II. DEVIATION FROM SPECIFICATION

The tenderers are requested to study the specification stated below:

Tender for the supply, installation and commissioning of Aqua feed production equipments and accessories for each equipment are invited.

SUPPLY, INSTALLATION AND COMMISSIONING OF AQUA FEED PRODUCTION EQUIPMENTS AND ACCESORIES

Specifications:

Production Capacity: 100-200 kg per hour

Feed size: 1 mm to 6 mm

Feed types: Feed type: floating, sinking and slow sinking

Capable of producing feeds using wide range of raw material

1) Hammer mill – 1 No.	
<ul style="list-style-type: none"> • Main motor – Not less than 10 kw • Speed – no less than 2500 rpm • Rotary type • Dust collection motor – not less than 7.5 kw • Input material size – upto 10 mm • Size of powder product – 40-60 mesh • Capacity – 150-200 kg per hour 	
2) Micro Pulverizer with Dust collector: 1 No	
<ul style="list-style-type: none"> • To produce very fine powder for the production of small size feed • Power – not less than 7.5kw • Cyclone dust collection system • Dust collection: filter bag with diameter300mm; Qty of filter: 4 pcs • Final product size: 60-100mesh • Revolving Air lock 0.55kw ; 1440rpm • Fully stainless steel body • Size of input material<12mm • Capacity: 100-150kg/hr 	
3) Mixer: 1 No	
<ul style="list-style-type: none"> • Capacity -20Kg/Batch; • 6-8 min per batch • Power- not less than 3kw • Timing relay to be available • Option to set Mixing Time • Mixing homogeneity – CV below 5% 	
4)Twin Screw Extruder with Preconditioner: 1 No	
<ul style="list-style-type: none"> • Production Capacity: 100- 200Kg/hr. • It is a building block system structure • Installed power: not less than 25 kw • Expansion coefficient 1.2-1.8 • Gelatinization more than 95% 	
Pre Conditioner	<ul style="list-style-type: none"> • The conditioner shall consist of mixing- and retention- section. • Special inlet structure for adding water • High speed mixing to ensure the better mixing between material,

	<p>water and vapor.</p> <ul style="list-style-type: none"> • Large doors for easy cleaning • Safety devices • flow meter for calculating and adjusting water • Power: not less than 1.5kw • Stainless steel body
Screws:	<ul style="list-style-type: none"> • The screws shall have self-cleaning function. • Screw diameter not less than 65mm • Length not less than 1000mm • Screw speed 0-500rpm • The Screws are segmented structure. • To make different assembled screw according to different formula • Screw made of :38CrMoAl segmented
Barrel	<ul style="list-style-type: none"> • Barrel: 3Nos • Steam heating system on barrel, Steam consumption controlled by electromagnetic valve • Extrusion barrel made by #45 steel • Feeding hopper power 0.4kw • Stainless steel
Extrusion system	<ul style="list-style-type: none"> • Main motor: not less than 22kw • Discharge device-1 No • Visible auto-temperature control system, make temperature-controlling to be more direct-viewing
Cutting System	<ul style="list-style-type: none"> • It is a movable cutting system • Power: not less than 0.75kw • Cutting speed: 0-2800 rpm • Fully stainless steel
Die & Die Head	<ul style="list-style-type: none"> • 5 No's different size of dies and one standard die head
Gear Box	<ul style="list-style-type: none"> • Specially designed gear box lubrication system is inner recycle cooling system • Oil pump power: not less than 0.25 kw
Control Panel	<p>Fitted with a switch to activate control of: PLC based touch screen controller for Screw conveyor; Conditioner; Screw feeding hopper; Extrusion screw (main motor); Cutting system with regulation of the motor speed through an inverter</p>
<p>5) Steam Boiler: 1 No</p> <ul style="list-style-type: none"> • Steam capacity 150-200 Kg/hr • Power not less than 3kw • Pressure: 0.7 MPa • Gas consumption is 16M3/hr • Liquefied gas: 6M3/hr • Diesel oil: 14 kg per hour 	
<p>6) Steam Dryer: 1 No</p> <ul style="list-style-type: none"> • Hot air circulation system. Blowers which used to bring hot air into drying chamber • Use steam as heating resource, through heating exchanger, steam change into hot air. 	

- Frequency controlled Drive motor for moisture controlling.
- Steam consumption: 100kg/hr
- Temperature: 80°C -180°C
- Belt speed: 300-2000mm
- Drying time : 10-20 min.
- Driving power(KW): not less than 1.5kw
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7) Shifter: 1 No

- Vibrating shifter
- Power not less than 0.75kw
- To make similar type of pellets

8) Coating Drum & Oil Sprayer: 1 No

- Double drum type
- Rotating drum to make sure flavor mixing with product well
- Power not less than 0.75kw

Oil Sprayer:

- To spray the powder flavors & oil on the pellets and then rotating drum would mix all the flavorings well together.
- Easy to operate; spray nozzle controlled by air compressor and valve.
- Air compressor – 1 no.

9) Air conveyor: 3 No

- Long distance conveying the product
- High efficiency; low energy consumption
- fully stainless steel body

10) Screw Conveyor: 1 No

- To convey the materials in a sealed stainless steel roller to the feeding hopper of extruder without leaking, dust pollution.
- Feed quantity even and stable
- Power 0.75kw

NUMBER REQUIRED : as given in the specifications

III. SERVICE CONDITION:

Warranty for three years and Guarantee for two years has be furnished.

IV. AMC: Comprehensive AMC for next two years to be quoted separately along with consumables.

1. In case of deviation or alteration the same should be brought out boldly and prominently in the offer made.
2. Any terms or conditions not brought out in the body of the offer will not be considered.
3. 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 therein from the body of their tender.

4. In the body of the letter, the tenderer should specifically state that he/she agrees for sole arbitration by the Finance Officer, Tamil Nadu Fisheries University, Nagapattinam.

V. PRICE

- a) Prices must be in terms of Rupees / equivalent currency.
- b) The unit prices should be for the equipment / accessories as indicated in the schedule of tender enquiry / items basically needed for SUPPLY, INSTALLATION AND COMMISSIONING OF AQUA FEED PRODUCTION EQUIPMENTS AND ACCESSORIES and not for any other equipment. It should also include all minor accessories to produce floating, semi sinking and sinking feeds.
- c) Prices quoted should be for delivery at site, as specified in the supply order inclusive of charges such as packing and forwarding.
- d) Discount if any, should be indicated prominently.
- e) Prices quoted shall be firm in all respects and for each equipment/item.
- f) Tenders with price variation basis will not be accepted.
- g) The offer should be kept valid for six months from the date of tender and supply and installation is expected before December 2017.

The tender is solely responsible for the equipment till delivered and demonstration of the equipment to be conducted with full satisfaction of the customer.

VI. EARNEST MONEY TO BE DEPOSITED ALONG WITH THE TENDER.

Each tender should be accompanied by an Earnest Money Deposit of @ 1% of price offered by them in the form of Demand Draft, bankers cheque, specified small savings instruments or where the procuring entity deems fit, irrevocable bank guarantee in a prescribed form drawn in favour of Fisheries Institute of Technology and Training, 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 Tamil Nadu Fisheries University reserves the right to forfeit the deposit in part or in full. The Earnest Money deposited will be refunded to the unsuccessful tenderer. In the case of successful tenderer, the amount will be adjusted towards Security Deposit.

VII. SECURITY DEPOSIT:

The successful tenderer (hereinafter referred to as contractor) shall also furnish a security deposit of not less than five per cent of the value of the orders placed in the form of Demand Draft, bankers cheque, specified small savings instruments or where the procuring entity deems fit, irrevocable bank guarantee in a prescribed form drawn in favour of the Fisheries Institute of Technology and Training, Chennai within 15 days from the date of intimation of the acceptance of the tender. The Security Deposit will be inclusive of the Earned Money Deposit, already remitted.

The Security Deposit at 5% 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 Tamil Nadu Fisheries University, issuing a Certificate that no amount is due from the contractor under the agreement and that the contract executed an agreement 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 will be forfeited without prejudice to any other right of the University service. 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 Directori/c, Fisheries Technology, Training and Incubation Centre, Madhavram Milk Colony, Chennai in specific application from the contract grant extension of time in specific circumstances in the matter of payment of security deposit and execution of agreement.

VIII. DELIVERY

The supplies shall be subject to inspection and acceptance or rejection by the Finance Officer, Tamil Nadu Fisheries University or such other person as Finance Officer, Tamil Nadu Fisheries University 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 Finance Officer, Tamil Nadu Fisheries University 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 Finance Officer, Tamil Nadu Fisheries University 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 Finance Officer, Tamil Nadu Fisheries University or the inspecting Officer in whole or in part under the provisions herein before contained the tender shall and will within the time permitted by the Finance Officer, Tamil Nadu Fisheries University 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, Finance Officer, Tamil Nadu Fisheries University or the Inspecting Officer shall have the 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 tenderers 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 on that behalf under the tenderer or otherwise.

IX. PAYMENT:

The payment will be made in two parts through irrevocable letter of credit (L/C) or sight draft.

90 per cent of the payment will be made on submission of the shipping documents to the Bank. 10 per cent of payment will be made after the effective performance of the equipment.

- X.** A guarantee towards the supply of spare parts if any when required on the agreed basis for on 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 the period of one year or more from the date of handing over the equipments for the proper functioning of the equipment and systems and any defects in their proper function during the guarantee period should be rectified by the tenderer at free of charge. If during the guarantee period, the supplies are found not to the description and quality offered, the University will be entitled to reject the articles and the supplier shall replace or pay the tenderer, University such damages that may arise including the replacement of cost and towards delay and damages. Nothing herein contained shall prejudice any other right of the University on 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 the 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 and incorporated in the supply. This is in addition to and without prejudice to other rights under the terms of the tender.

XIV. INSTALLATION AND TESTING

- 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. The tender should include the installation, commissioning and trial production of floating, semi sinking and sinking feeds.
- 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 up to 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 and commissioned can not 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 of 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 any nominees for the time being payable or due to the tenderer from the University otherwise apart from forfeiting the security deposit furnished by the tenderer. 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 fit.

XV. 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.

XVI. 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.

Director, i/c,

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Directorate of Fisheries Technology,
Training and Incubation Centre-Aquaculture,
Madhavaram Milk Colony,
Chennai – 600 051.