

Department of Zoology

University of Delhi

April 15, 2014

NOTICE INVITING TENDERS

Sealed tenders are invited from eligible manufacturers/authorized distributors/dealers for the supply of **Twin Screw Extruder for extruded Shrimp & Fish feed** – floating type, semi floating type and sinking type **and Ribbon Blender for preparation of feed material** in the Department of Zoology, University of Delhi, Delhi. The vendors intending to bid may follow the specifications listed and the other details and submit their bids to Prof. Rina Chakrabarti, Principal Investigator, Indo-Norwegian project, Department of Zoology, University of Delhi, Delhi-110007 within 21 days of this advertisement.

SPECIFICATION FOR TWIN SCREW EXTRUDER FOR EXTRUDED SHRIMP & FISH FEED – FLOATING TYPE, SEMI FLOATING TYPE AND SINKING TYPE AND RIBBON BLENDER FOR PREPARATION OF FEED MATERIAL.

ITEM – I: TWIN SCREW EXTRUDER:

- The instrument should be of Indigenous make only
- Nominal rated capacity of 5-15 Kg/h
- Twin-screw Feeder, UHMW-HDPE Screws driven by variable speed motor which can be monitored from RPM Meter
- Barrel fabricated from Nitriding steel with two water jackets
- Two Nos. Band heaters, ceramic insulated
- Two-start screws with specially designed kneader and pressure angle
- Drive – 7.5 HP Motor driven through reduction gear unit and duplex gear driven by AC drive i.e. frequency converter of reputed make to control rpm.
- TORQUE-LIMITER– to cut-off power if the load exceeds pre-determined limit
- DEBLOCKING CUM CLEANING DEVICE to clear blockage
- Die Plate assembly with four nos. Round dies of different diameter
- ‘Stellited’ edge stainless steel cutter, driven by variable speed motor which can be monitored from RPM Meter.

Stand alone panel board consisting the following:

- a) 2 nos. Electronic PID Temperature Controller-Indicator with sensor for 2 nos. Band heaters.
 - b) 1 no. Electronic temperature indicator with sensor for mass temperature
 - c) Ammeter, voltmeter, push-button switches, indicating lamps etc.
 - d) Transformer to stabilize control voltage in case of fluctuation of supply voltage.
 - e) 3 nos. rpm meters for monitoring the RPM of main drive, feeder & cutter; 1 no. meter for display of torque of Main Drive
- M.S. Fabricated sub-frame

- Rat-proof design

ITEM – II: RIBBON BLENDER FOR PREPARATION OF FEED MATERIAL :

- The instrument should be of Indigenous make only
- Capacity 10-20 kg/batch
- Double-helical ribbons
- Water-spraying arrangement
- All feed contact parts to be stainless steel
- 1HP motor
- AC drive i.e. frequency converter of reputed make to control rpm.

Instructions to the suppliers:

The Tender is to be of two bid system – Technical & Financial. Technical bid should consist of all technical details along with commercial terms and conditions, and Financial bid should have the item wise price for the items mentioned in the Technical bid. Both the bids should be sealed by the supplier in separate covers duly super scribed and both these sealed covers are to be put in a bigger cover which should also be sealed and super scribed. Company should attach user's list and performance certificate. The supplier shall bear all costs associated with the preparation and submission of its bids including samples, literatures, etc.

Conditions of the Contract:

The bidders will have to quote all the items together, partial quotes will not be considered. Quantity, make, model and technical specifications should be mentioned clearly. It may be stated that the rates are inclusive of taxes applicable and charges for onsite installation. Validity period of quotation should be 180 days from the due date. Any alteration/overwriting should be initialed. Kindly enclose a written authorization or certificate from the manufacturer. The period of warranty will start only after successful installation and satisfactory operation. The supplier must provide the training and handling facility after the purchase of equipment. Supplier had to ensure that the extruder shall be available for the demonstration at the manufacturing site before final order.

University reserves the right to order equipment with better quality over lower price and to accept or reject any or all quotation without assigning reasons thereof. The bidders have to provide the following information with their technical quote.

- Manufacturer authorization certificate.
- Details of support and service.
- Warranty compliance statement.
- Complete user list with name, address and telephone number for the past five years.

Prof. Rina Chakrabarti
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