



## Post Graduate Department of Zoology The University of Kashmir, Srinagar

No: F (DBT-Proj.Aqua.) Zoo/KU 2017/08

Date: 18<sup>th</sup> March, 2017

Sealed quotations/tenders affixed with revenue stamp worth Rs.6/- pledged to the Principal Investigator, Department of Zoology are invited from manufacturers or their authorized distributors/suppliers/dealers for the supply, installation and commissioning of below mentioned equipments sanctioned under DBT-sponsored project on 'Optimum feeding rate, dietary protein and essential amino acids requirement of rainbow trout, *Oncorhynchus mykiss* (Walbaum 1792) with a view to develop nutritionally balanced feeds for intensive culture in J&K. Tenders complete in all respects must reach the office of undersigned by hand or by post latest by **31<sup>st</sup> of March, 2017** (4pm). Any postal delay shall not be entertained.

### Detailed Specification

S. No.	Name of the equipment	Specifications
1.	<b>Kjeltec fully automatic nitrogen/protein analyzer</b>	<b>Kjeltec fully automatic nitrogen analyzer:</b> <b>Distillation Unit:</b> Should have distillation time 3.5 min at 30 mg N (6.5 min at 200 mg N), Recovery > 99.5 % at nitrogen levels between 1–200 mg N. Reagent pump volumes within range of 0 to 150 ml in steps of 10 ml. Should have steam addition for equilibrium to avoid exothermic reaction and homogenise the sample, steam generator should be made of glass with proper safety features. Should have appropriate condenser facility, made up of glass with proper insulation having visibility and leak proof. Water saving system with cooling water flow control i.e. machine should be able to increase or decrease the flow of water to condenser as per requirement. Should have temperature monitoring with warning facility at distillation point. Should have a polypropylene splash head bellow pumps for reagent addition. Should be equipped with automatic reagent sensors for water, alkali, waste, receiver and titrant. Automatic opening and closing of distillation safety door; automatic waste removal after distillation. Equipment should be having inbuilt colorimetric titration device for simultaneous distillation and titration. Vessel containing titrant should have inbuilt automatic cleaning of titration vessel. Burette should be interchangeable. System should have multiple distillation procedures viz. TKN, direct distillation, sulphite, ammonium nitrogen etc. Metal block digester to accommodate upto 8 test tubes. Should have a temperature range of 100 to 440 °C. Should have a provision to cross check the displayed temperature of the block with external thermometer.
2.	<b>UV-Visible Spectrophotometer</b>	Microprocessor based UV/Visible spectrophotometer ( <b>Imported</b> ) wave length range 190.0nm to 1100nm.
3.	<b>Digital Electronic Balance</b>	Capacity 0-620gm, Readability/sensitivity 0.01gm.

### Terms and conditions:

The tender shall be submitted under **two-bid system** with following order:

**Envelope-A (Technical Bid):** Tender/quotation mentioning all technical details of the instrument under sealed envelope should contain following documents:

- I. Update VAT clearance certificate, TIN number, PAN number and other relevant documents.
- II. An earnest money deposit (EMD) @ 2% of the quoted price in the shape of CDR from any nationalized bank in India (valid for minimum period of 6 months). The CDR should be drawn in favour of **Principal Investigator, DBT-sponsored project, Department of Zoology**, University of Kashmir. The EMD should be kept in a separate sealed envelope with proper marked and put in the outer envelope that contains the technical and financial bid envelopes. The firm should enclose a pre-receipted bill in order to enable us to return the EMD of unsuccessful firms.
- III. Technical literature about the quoted equipment should also enclose.

**Envelope-B (Price/Financial Bid):** It should contain price bid under sealed cover containing following relevant information:

- I. Price should be quoted in Indian/foreign currency.
- II. All duties, taxes, levies (CST/GST/VAT or other taxes) including transport charges payable must be quoted separately.
- III. The rate quoted should be FOR University of Kashmir, Hazratbal, Srinagar.
- IV. The rate quoted should be covered with transparent tape.

**Note:** Installation should be carried out free of cost. The technical/purchase committee reserves the right to reject any tender or tenders without assigning any reason thereof. For selection of the items, the quality, post installation services of manufacture/supplier and recommendations from funding agency if any will also be considered.

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