

By Speed Post/Courier

Our Ref: EROL/Pur (Mech)

27-11-2006

**Subject: Tender for supply for the following Equipments:**

- 1) Melt Flow Index Testing Apparatus with Two Roll Mixing Mill**
- 2) Vicat Softening Point Apparatus**
- 3) Specific Gravity Balance**
- 4) Dumb-Bell Cutter 75 mm & 115 mm**
- 5) Muffle Furnace**

TO

Dear Sirs,

Tenders are invited for the supply of the above nine (9) items in the sealed cover duly super scribed as **“QUATATION FOR THE SUPPLY OF.....”** Complying the requirements of the enclosed **Annex-A** (The Term and conditions of supply) and **Annex-B** (The Technical Specification of the equipment), separately for each equipment which should reach the undersigned latest by **15-12-2006** .Also ensure to submit the Technical and financial quotations/bids in separate envelopes to facilitate us to follow our rules and regulations. The tenders shall be opened in this office at 1500 hours in the next working day in the presence of such tenderers or their duly authorized representatives, who may like to attend. Also refer our BIS website: [www.bis.org.in](http://www.bis.org.in) also for any clarification.

Thanking you,

Yours faithfully,

P.Seshagii Rao  
Scientist-E ( Director)

Encl: As above

**ANNEX-A**  
**(Terms and conditions of Supply)**

- 1) The BUREAU gives FIRST PREFERENCE in its purchase to goods bearing ISI CERTIFICATION MARK and second preference to those which conform to the relevant Indian Standard Specifications.
- 2) The delivery of the equipment shall preferably be made within 30 days of receipt of order. If, however, it is not possible to affect delivery during working hours by the date, the date by which the delivery of the equipment can be effected/guaranteed may be so stated.
- 3) QUOTATIONS shall be submitted by interested Manufacturer/Supplier in the form of two BIDS/PARTS – namely, “TECHNICAL BID & FINANCIAL BID.”
- 4) Both Technical Bid & Financial Bid shall be sealed by the bidder in SEPARATE ENVELOPE/COVER duly superscribed “TECHNICAL OR FINANCIAL BID which shall finally be put in a bigger size envelope duly supercribed “QUOTATION FOR THE SUPPLY OF .....(Name).....)”
- 5) The rates quoted should give break up of Cost, Excise Duty/ Sales Tax/VAT, P&F charges, Freight, Insurance etc (as applicable). If the rates quoted do not include sales tax/excise duty/ or any other taxes/charges, the same should be specifically stated.
- 6) Tenders qualified by such value and indefinite expressions as “Subject to immediate acceptance”, “Subject to prior sale” etc., and incomplete quotation are liable to be summarily rejected.
- 7) All Tenders shall remain open for a period of 90 days from the date of opening.
- 8) Please note that Tenderer shall have to **deposit 3% of cost of equipment as EMD for bid security**. The amount is to be deposited along with the tenders, in the form of **demand draft** drawn in favor of BUREAU OF INDIAN STANDARDS payable at Kolkata. Bid security as deposited with tender shall be returned to the unsuccessful bidder after the decision is made for purchase.
- 9) Tenderer getting the order shall preferably deposit 10% of the ordered amount as contract **PERFORMANCE SECURITY** from any nationalized Bank valid till 60 days after warranty /guarantee period, which shall be returned after satisfactory performance .However ,other terms of payment such as cited at clause 10 may also be considered.
- 10) 90% payment may be made after satisfactory installation & commissioning of the equipment and **10% (contract performance security)** after expiry of guarantee/warranty period. The equipment should have a **guarantee/ warranty period of preferably 3 years & the period shall be mentioned by the Tenderer while submitting quotation .**
- 11) The Tenders/Suppliers of the equipment shall preferably have necessary infrastructure /capacity to provide a **comprehensive maintenance guarantee, preferably for three years** including replacement of spares, if any. Position shall be clarified in this aspect while submitting quotation.
- 12) The supplier/Manufacturer of the equipment shall ensure **training of officials** of the laboratory during commissioning of equipment.
- 13) All goods shall be received subject to approval on inspection. The decision of our Inspecting Officers shall be binding. Rejected items/goods/stores shall be removed by the supplier at his own cost and risk, within 30 days of receipt of notice for the removal of such goods, and thereafter no liability, whatsoever, on the Bureau shall be attached for the rejected/disapproved goods/items/stores.
- 14) The Bureau reserves the right to accept or reject summarily any or all tenders in whole or part without assigning any reason whatsoever.
- 15) The Bureau takes no responsibility for delay, loss or non-receipt of tenders after dispatch.
- 16) In case of non-compliance with the contract, the Bureau reserves its right to:
  - a) Cancel/ rescind/ revoke the order if supply is not made in time and is not Conforming to the required specification.
  - b) Impose penalty up to 1% of the total value of the order for a delay of every seven days after the schedule date subject to the ceiling of a maximum of 10% of the total value of the order.
- 17) All question, disputes or difference arising under, out of or in connection with this tender enquiry shall be subject to the exclusive jurisdiction of the Kolkata Courts

## **Annex – B**

### **MELT FLOW INDEX TESTING APPARATUS with TWO ROLL MIXING MILL**

**QUANTITY: One No**

#### **Technical Requirements**

- i) The various components of the apparatus should be as per Cl. 7.1 of IS:2530-63, with the following details:-
  - a) Temperature measuring device should be as per Cl 7.1.5 to be read along with provisions of Cl. 7.4.1.1; Range; 0 – 300 °C & Resolution: 0.1° C
  - b) A digital timer with range 0 – 1500 seconds
  - c) To be fitted with **Jet-A**, and a removable load of: **5 kg**.
- ii) A two roll mixing mill as per Cl. 6.2.1 of IS:2530-63
- iii) Arrangement for preparation of test specimens as per Cl. 6.2.1 to 6.2.3 of IS:2530-63
- iv) All measuring devices shall preferably be supplied with calibration certificate from a NABL accredited laboratory.

## **Annex – B**

### **VICAT SOFTENING POINT APPARATUS**

**Quantity: One No.**

#### **Technical Requirements**

- i) Double Test Model
- ii) Total weight on the specimen should be 5 Kg including extension rod in each section,
- iii) Fitted with Dial Gauge in softening apparatus,
- iv) Dial Gauge Range 0 – 10 mm, Resolution: 0.01 mm or better preferably with Digital display,
- v) Thermostatic Controlled 0 - 200° C, Resolution 0.5 °C or better
- vi) The apparatus should be as per Cl. B-1, Fig-1 of Appendix-B of IS:6307-1985
- vii) The apparatus should be provided with cooling arrangement for frequent testing with cooling bath size: 450 X 300 X 280 mm.
- viii) The Vicat Softening Point apparatus shall preferably be supplied with calibration certificate from any NABL accredited laboratory.

## **Annex - B**

### **SPECIFIC GRAVITY BALANCE**

**QUANTITY: One No.**

#### **Technical Requirements**

- i) Preferably with Digital Display
- ii) Range: 0.0001 g to 200 g
- iii) Least Count: 0.01 mg.
- iv) To be provided with a holding Clamp as per Cl. A-3.3 of IS:7328-1992
- v) Should have an arrangement to weigh specimens, duly suspended from a fine wire
- vi) Balance should preferably be supplied with calibration certificate from a NABL accredited laboratory.

## **Annex - B**

### **MUFFLE FURNACE**

**QUANTITY: One No.**

#### **Technical Requirements**

- i) Internal Size: 200 mm X 200 mm X 360 mm (approx)
- ii) Temperature Range up to 1200°C with least Count : 1°C or better
- iii) Test Temperature 1100 °C (approx)
- iv) Accuracy :  $\pm 5$  °C or better
- v) Heating: Kanthal wire coil element
- vi) Setting and Temperature Display Digital, Controller preferably microprocessor control/ PID and so designed that uniformity in temperature is maintained
- vii) The outside body should be made from anti-corrosive material preferably stainless steel
- viii) Power : 3 phase, 440V AC, 50Hz
- ix) Muffle Furnace should preferably be supplied with calibration certificate from a NABL accredited laboratory.

## **Annex - B**

### **DUMB-BELL CUTTER of 75 & 115 mm**

**QUANTITY: One No.**

#### **Technical Requirements**

- i) Automatic Dumb-bell Cutter with hydraulic arrangement
- ii) The cutter profile should be as per Fig. 5 of Annex-A (Amend-1) of IS:12818-92 and Fig. 1 of IS:12786-1981
- iii) Dumb bell cutter shall preferably be supplied with calibration certificate from a NABL accredited laboratory.