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**DEPARTMENT OF FACTORIES & BOILERS**

**No.A3/4124/F&B/2015**

“SURAKSHA BHAVAN”  
OFFICE OF THE DIRECTOR OF  
FACTORIES AND BOILERS,  
MEDICAL COLLEGE P.O.,  
THIRUVANANTHAPURAM,  
DATED: 14-03-2016.  
PHONE:0471– 2441597,2440974.

**e-TENDER NOTICE**

Online tenders are invited from the manufactures and authorized dealers for the supply and installation of the following high quality branded equipments separately.

Sl. No.	Item	Quantity	Estimate Amount	EMD	Cost of Tender Form
1	Viscosity Bath and ViscoMeters for testing Viscosity	1	20 Lakh	1 % of the cost of Item	Rs.3150

Last date for the receipt of filled up Tenders : 4 PM on 21-03-2016  
Opening Tender : 10 AM on 26-03-2016

Tender details also available from the Director of Factories & Boilers, Thiruvananthapuram on all working days till 19-03-2016, 4 PM. The under signed reserves the right to reject the tender without assigning any reason thereof. The tender notification is also available in the official Website: [www.fabkerala.gov.in](http://www.fabkerala.gov.in). Tender Form and Terms & Conditions may be downloaded from [www.etenders.kerala.gov.in](http://www.etenders.kerala.gov.in).

Sd/-

**DIRECTOR OF FACTORIES & BOILERS**

## **Specifications**

### **I. Viscosity bath and Viscometers for testing Viscosity (As per IS 1448 [P:25]: 1976)**

1. Should Conform to IS 1448 [P:25]: 1976/ASTM D445.
2. Thermostatic viscosity bath can be connected to 230V-50-60Hz, power supply.
3. Temperature range should from ambient to +230 °C.
4. Temperature stability is  $\pm 0.01$  °C.
5. Proper control for temperature.
6. Temperature should be uniform throughout the bath.
7. The bath volume should be around 20 liters and has opening of 130 x 165 mm.
8. There should be minimum three openings for holding the viscometers.
9. Bath should be provided with stirring facility, to ensure uniform bath temperature, which can stir water and silicon oil of high viscosity.
10. Vendor should quote necessary accessories, spares, consumables etc for trouble free operation.
11. Instrument to be guaranteed for minimum 2 years & AMC thereafter. Conditions of after sales support shall also be mentioned.
12. List of Indian users, preferably in the field of Petroleum/Petrochemicals, to be given
13. Copies of Manual (Maintenance & operation) in English to be supplied (2 nos).
14. Installation, Method development including troubleshooting etc, wherever applicable, is in the scope of the vendor.
15. Space, Environmental & Power requirement of the Instrument to be mentioned in the quotation.
16. Printed catalogues giving detailed specification & picture of the Instrument is to be attached in the quotation.
17. Hardware & software capabilities of the Instrument to be mentioned in the quotation.
18. Wherever applicable, NIST or equivalent traceable certificates to be quoted by the vendor.
19. The vendor can quote for any make or model.
20. Delivery period & pre installation requirement to be clearly mentioned in the quotation.
21. Viscometers- Glass Capillary Viscometers- of the range as mentioned under shall be quoted.

Size	Approx. constant, cSt/s	Range centistokes
100	0.015	3 to 15
150	0.035	7 to 35
200	0.1	20 to 100
300	0.25	50 to 250

22. Viscometers of suitable capillary size for opaque samples of kinematic viscosity of 9 to 40 centi stokes shall also be quoted.

23. Calibration shall be done at our laboratory on successful installation.

24. Digital stopwatch/timer meeting the standard shall also be supplied.

25. Accessories, spares and consumables for a 2 year period to supplied with the instrument.

26. Warranty 3 years

27. Validity Period, Model, Mode of Payment, Supply Period, After Sales and Service mentioned in e-tender.

**Sd/-**

**Director of Factories and Boilers**