

INDIAN INSTITUTE OF TECHNOLOGY KANPUR  
DEPARTMENT OF CHEMISTRY

DATED: 15/11/2017

Kindly send us sealed quotations (technical bid and price bid separately sealed) for the following items against tender number **IITK/CHM/JKB/17-18/16**. Quotations should be addressed to Prof. Jitendra K. Bera, Chemistry Department, IIT Kanpur, Kanpur - 208016. Please send technical and financial bids separately. The last date for receipt of sealed quotations was 5.12.2017.

**Specifications of Laboratory Refrigerator**

- Capacity: 1000 and 500 litre
- Inner Cabinet made up of durable white epoxy Painted steel / Stainless Steel SS304
- Inner shelves are made of epoxy plastic coated steel rods/ shelves made of SS304
- Outer cabinet made up of corrosion resistant powder coated CRCA sheet
- Full length illumination with additional ON/OFF switch.
- Fitted with castors, front two wheels with brakes.
- Self-closing, swing type hinged Double glazed shatter-proof tempered glass door provides safety
- Heated film on glass door prevents water condensation
- Glass Door with lock and key
- CFC/HCFC free Eco friendly refrigeration & PUF insulation.
- No frost, fan assisted cooling circulation system & sensor activated auto defrost mechanism.
- Ultra-fast pull down & self-evaporating drip tray.
- Rear to front hot air anti condensation.
- Low noise, green technology & energy saving. Hermetically sealed type compressor.
- Microprocessor based Digital temperature controller.
- PT100/ NTC thermistor sensor with calibration certificates traceable to national standards.

- Provision of access port for connectivity purpose.
- Password protected configuration for preventing unauthorized access.
- Input 220/240V, 50 Hz with power cord & plug.
- Battery backup (10-24 hours) for Digital Temp Display, Alarm Functions & Chart Recorder/
- Audio- visual alarm for high/ low temperature deviation & door open/ close.
- Alarm for sensor failure, power failure & low battery (optional).
- Suitable for operation at high ambient up to 45°C.
- Complies with Electrical safety standards of EN-61010-1:2010 & EN 61326-1:2006.
- Factory tested IQ/PQ documentation
- Data loggers for continuous recording and monitoring of temperature / humidity with battery back-up, SMS/Email alert, remote monitoring (WI-FI) and data acquisition with continuous data storage upto minimum of 3 to 6 month time **(Optional to be offered at extra cost)**
- Company should have supplied the same items in IIT and IISERs in last one year.
- Company must provide proof of selling same items with these specifications.

**Note:**

**All components like Body parts, control system and refrigeration should be from the same Manufacturer/Company. Company/Vender should have local service support and service, engineer must attend the complaint within 48 hours. Warranty of all instruments should be 2 Years from the date of installation.**