

TECHNICAL SPECIFICATION FOR LAB SCALE ROTARY KILN

A rotary kiln is required for the production of cement clinker at lab scale.

The following are the required features in the kiln:

Capacity: 20 – 50 kg/hr

Maximum temperatures of up to 1600 °C.

Diameter < 500 mm and Length < 5 m; Mild steel shell (IS 2062) with high temperature brick lining of 75 mm thickness

Kiln feed through mild steel hopper with at least 30 kg capacity, using a screw type feeder system

Provision of diesel burner with a control system.

Forced draught fan for exhaust.

Temperature indicators at 5 locations within the kiln

Control panel for process control and temperature readout

Warranty: 1 year from the date of installation.

Power supply: 220 – 240 V, 50 Hz.

Terms and conditions

- The system should be delivered within 14-16 weeks from the issue of the purchase order.
- Costs and related information should be given only in the financial bid.
- The cost should include 24 months' warranty of the overall system.
- The warranty shall commence only from the date of equipment installation at IITM.
- Prices quoted should be valid for at least 90 days.
- Item-wise break up of cost should be provided in the commercial bid for different items.
- IIT Madras reserves the right to exclude some items from the purchase.
- The system should be installed and commissioned with no additional cost.
- Training at IIT Madras should be provided with no additional cost.
- Two copies of the system manual should be provided in CD form.
- Detail of local service provider should be given.

Technical Bid should comprise of the following:

- Detailed Technical brochure.
- Detailed technical write up explaining how each of the Technical Specifications are complied with
- The list of multiple Institutions/R&D units/Industry where similar installations have been supplied in India/abroad including contact details (name of the person in-charge, email, and phone number) is to be provided.