



Indian Institute of Technology Madras
I.I.T.P.O., MADRAS-600 036
DEPARTMENT OF CIVIL ENGINEERING

Form for Inviting Quotations

Ref. No.CE/SMAT/2016-17/Flat Sheet/SPL

Date: 28/02/2017
SPEED POST

To

Dear Sirs,

DUE DATE: 15/03/2017

1. Quotations are invited in duplicate (two bidding covers) for the various items shown below / overleaf / **Enclosed list.**
2. **The Quotations duly sealed and superscribed on the envelope with the reference No. and due date, should be addressed to the Head of the Department and contain in 2 bid system i.e. Technical bid and Commercial bid in two separate envelopes should be enclosed in a single envelope so as to reach on or before the due date stipulated above.**
3. The Quotations should be valid for ninety days from the due date and the period of delivery required should also be clearly indicated.
4. If the item is under DGS&D Rate contract No. and the price must be mentioned. It may also please be indicated whether the supply can be made direct to us at the Rate contract price (Please note that we are not Direct Demanding Officers). If so please send copy of the RC.
5. Relevant literature pertaining to the items quoted with full specifications (and drawing, if any) should be sent along with the Quotations, wherever applicable. Samples if called for, should be submitted free of charges, and collected back at the supplier's expenses.
6. Local Firms : Quotations should be for free delivery to this Institute. If Quotations for Ex-Godown delivery charges should be indicated separately.
7. Firms Outside Madras : Quotations should be for F.O.R. Madras. If F.O.R. consignor station, freight charges by passenger train / lorry transport must be indicated. If Ex-Godown, packing, forwarding and freight charges must be indicated.
8. The rate of sales / General Taxes and the percentage of such other taxes legally leviable and intended to be claimed should be distinctly shown along with the price quoted. Where this is not done, no claim for Sales / General Taxes will be admitted at any stage and on any ground whatsoever. The taxes leviable should take into consideration that we are entitled to have concessional Sales Tax applicable to non Government Educational Institutions run with no profit motive for which a concession. Sales Tax Certificate will be issued at the time of final settlement of the bill.
9. Goods should be supplied carriage paid and insured.
10. Goods shall not be supplied without an official supply order.
11. Payment : Every attempt will be made to make payment within 30 days from the date of receipt of bill / acceptance of goods, whichever is later.

Yours faithfully

HEAD OF THE DEPARTMENT
HEAD

Department of Civil Engineering
Indian Institute of Technology Madras
Chennai - 600 036.

Flat Sheet Membrane Casting Machine

Specifications:

- The unit should be able to produce upto a flat sheet membrane of size 200 mm x 250 mm, and the film thickness control should be in the range of 100 to 300 microns
- Casting speed control should be in the range of 50-100 mm/sec
- Head control accuracy should be atleast 10 microns
- Casting bed should be made up of glass plate (minimum 10 mm thick)
- Casting blade material should be of stainless steel of grade 316
- Provsion should be there in the unit to set the casting speed by digital controller and manually selectable
- The whole assembly should be of table top type
- In addition to the above specifications, the supplier should also provide 1 set of circular and square/rectangular flow cells and necessary fitting tools (price must be included in the quote) to test the performance of the produced membrane.
- A suitable pump configuration should also be included for the testing purpose.
- The overall size of the casting machine should be less than 2.0 m long and 0.75 m width.
- The supplier should also give training for 2 persons suggested by us to fix the flat sheet membrane in the test skids (both in circular and rectangular flow cells) and also train them to fix the membrane in laboratory scale reactors (i.e. flat sheet modules of size A4 size)
- The machine should be provided with a minimum of 1 year warranty
- Additional cost for one year extended warranty should be quoted separately.

S. M. K. 25/12/12