



Indian Institute of Technology Madras

I.I.T.P.O., MADRAS-600 036

DEPARTMENT OF CIVIL ENGINEERING

Form for Inviting Quotations

Ref.No.CIE/INDU/2017/Hydrodynamic Cavitation Reactor

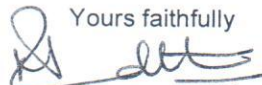
Date: 13/04/2017
SPEED POST

Dear Sirs,

DUE DATE: 03/05/2017

1. Quotations are invited in duplicate for the various item/ s 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 **undersigned so as to reach on or before the due date stipulated above.**
3. The Quotations should be valid for (90) **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

Details as per enclosed list.

Yours faithfully

INDUMATHI M NĀMBI

- Note: (i) Quotation should be sent by SPEED POST only or to be delivered directly concerned
(ii) Firms are requested to submit the specifications of their product along with supporting technical Documentation/brochure instead of reproducing the specifications sent by us.

Specifications for Research Grade Hydrodynamic Cavitation Reactor Unit with Piping and Instrumentation

8"x2" Stainless Steel Hydrodynamic Cavitation Reactor

The components for the proposed cavitation reactor will include:

- One 304 Stainless 8"x2" cavitation reactor (non-wetted parts to be painted carbon steel)
 - ❖ Max hydrodynamic throughput: 20 liters/min
 - ❖ Max pressure: 150 psig
 - ❖ Max temp: 135°C

Piping and Instrumentation for cavitation reactor

Liquid: Furnace Oil, Viscosity: 1000CP

Scope Of Supply:

1. Fluid Transfer Pump – 1no - 3 HP, 10 m head
2. Feed Tank – 1no - MOC - SS316, 10 L
3. MSPC Skid – 1no
4. Pipeline & Valves – 1 lot
5. Instruments and Flow meter – 1set
6. Motor for SPR -1 no - 1440rpm, III Phase 415V, 7.5HP - 1 No.
7. VFD Panel -2 nos for two Motors 3HP & 7.5Hp with Temperature controller connected with all Electrical lines. Auto Manual Switch, RYB Indicator, Single Phase Preventer, Ritel Box with Connectors.

