



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

Form for Inviting Quotations

Ref.No.CIE/TARUN/2018-19/MASW

Date: 20-2-2019

DUE DATE: 28-2-2019 – 4.00 P.M.

To

Dear Sirs,

1. Quotations are invited in duplicate 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 undersigned and contain in 2 bid system i.e. Technical bid and Commercial bid in two separate envelopes should be enclosed in a single envelope only 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 rates of GST and 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 GST/General Taxes will be admitted at any stage and on any ground whatsoever. IIT Madras is eligible for concessional GST. Relevant certificate will be issued. In case of import supply the price should be quoted without custom duty. I.I.T. Madras is exempted from levy of IGST on Imports and eligible for concessional custom duty (not exceeding 5%) and the price should be quoted on **EX-WORXS** and **CIP** basis indicating the mode of shipment.
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

- Note: (i) Quotation should be sent by SPEED POST only or to be delivered directly to the 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.

Technical specifications of 24 channel MASW test apparatus

We want to purchase a complete set of 24 channel MASW test apparatus, which includes 24 channel seismograph, 24 nos 4.5 Hz geophones, and all the associated cables and accessories. We should be able to integrate the seismograph with a compatible seismic cross hole and down hole test equipment. We are looking for the following technical specifications.

1. One 24 channel seismograph:

- unlimited data recording length upto 1,000,000,000 samples or more
- Wide dynamic range of 118 db @ 500 sps or more
- Distortion should be less than 0.0005% or better

2. 4.5 Hz vertical geophones 24 nos:

- 4.5 Hz vertical geophone
- tilt tolerance of $\pm 5^\circ$ or better
- Spurious frequency 140 Hz or more
- water resistant

3. All Connecting cables/ connectors for connecting 24 geophones and seismograph :

- the minimum 5m interval between two geophones for all the geophones
- Minimum 5m length at the end from the geophone to connect with the seismograph
- all compatible connector to connect with seismograph and geophones

4. Software package with following features:

- Record the data using both hammer/geophone trigger and manual trigger
- It should be able to record the data by manual command, without any trigger sensor in hammer or geophone.
- Should be able to convert the data into SEG-Y (.sgy), SEG-2 (.sg2) and into a comma separated values (.csv) format

5. Minimum warranty: one year