

**Department for Ocean Engineering
Indian Institute of Technology Madras
Chennai – 600 036**

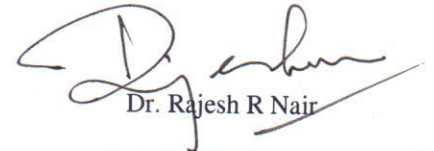
Ref.: OED/2014/001/RARN/SPL

Date: 30/09/2014

Due date: 06/10/2014

1. Quotations are invited in duplicate for the item shown in enclosed list as Annexure 1.
2. The quotations must be in two bid system consisting of technical bid and financial bid. Both the bids should be in *separate cover* and enclosed in the *single envelop* in sealed cover.
3. The Quotations duly sealed and super scribed on the envelope with the reference No. and due date, should be addressed to the Head, Ocean Engineering so as to reach him on or before the due date stipulated above.
4. The Quotations should be valid for sixty (60) days from the due date and the period of one year warranty required.
5. Technical documentation shall include details of technical specifications or performance, list of industrial and educational establishments where the items enquired have been supplied must be provided.
6. Compliancy certificate is to be provided indicating conformity to the technical specifications.
7. If the item is under DGS&D Rate contract, No., 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.
8. Relevant literature pertaining to the items quoted with full specifications (and drawing, if any) should be sent along with the Quotations, wherever applicable. Samples / machine/ equipment if called for should be submitted / demonstrated at free of charges, and collected back at the supplier's expenses.
9. Packing, delivery and installation charges must be clearly indicated.
10. 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 concessional Sales Tax Certificate will be issued at the time of final settlement of the bill.
11. IIT Madras is exempt from payment of Excise Duty and is eligible for concessional rate of custom duty. Necessary certificate will be issued on demand. IIT Madras will make necessary arrangements for the clearance of imported goods at the Airport/Seaport. Hence the price should not include the above charges.
12. Goods should be supplied carriage paid and insured.
13. Goods shall not be supplied without an official supply order.
14. 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.
15. Acceptance and Rejection:- I.I.T. Madras has the right to accept the whole or any part of the Tender or portion of the quantity offered or reject it in full without assigning any reason.

Yours faithfully,



Associate Professor,
Ocean Engineering

Dr. RAJESH R. NAIR
ASSOCIATE PROFESSOR
PETROLEUM ENGINEERING PROGRAMME
DEPARTMENT OF OCEAN ENGINEERING
IIT MADRAS, GOVERNMENT OF INDIA.

Annexure 1

Ref: OED/2014/001/RARN /spl

Date: 30/09/2014

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TECHNICAL SPECIFICATIONS OF MICROTREMOR INSTRUMENT

1. The Microtremor instrument is a single station and synthetic array seismics and for modal and vibrational analysis of structures.
2. Microtremor instrument consists of 3 velocimetric channels with adjustable dynamic range and ultra high sensitivity for seismic ambient noise recordings (up to $\pm 1.5 \text{ mm/s}$ ~) and lower sensitivity but higher dynamics for strong anthropic vibrations (up to $\pm 5 \text{ cm/s}$).
3. It can record in continuous mode without time limit or for predefined time- intervals.
4. It also consist 3 accelerometric channels.
5. The instrument has 1 analog channel (e.g., external trigger for MASW/refraction)
6. It has built-in GPS receiver, internal and/or external antenna for positioning and absolute timing/synchronization among different units
7. built-in radio transmitter/receiver module for indoor/outdoor synchronization among different units and alarm transmission(e.g., signal above threshold levels)
8. It consists built-in calibration and check-up system
9. Operating range [0.1, 1024] Hz on all channels (up to 32 kHz on 2channels) with A/D conversion > 24 real bits.
10. The instrument is portable with light weight(~1kg) , it is powered by 2AA standard batteries and also works with AC adapter for long monitoring

Schedule-I

All quotation may send in "HARDCOPY: by speed-post/courier to latest by on or before:

ADDRESS

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Associate Professor

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