

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

27/02/14

Ref.: OED/2013/029/SASA/SPL

Due date: 3pm 19/03/14

Supply of UNDERWATER SIX COMPONENT FORCE TRANSDUCER

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 a *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 undersigned 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 delivery required, warranty terms etc. should also be clearly indicated. A minimum of one year warranty is required.
5. Brochure detailing technical specifications and performance, list of industrial and educational establishments where the items enquired have been supplied (in particular, within India), 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. 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.
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 livable 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 livable 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,



Prof.S.A.Sannasiraj,
Email: sasraj@iitm.ac.in
Department of Ocean Engineering

Annexure 1

Ref: OED/2013/029/SASA/SPL

Date: 27/02/2014

Due date: 19/03/2014

Quotation required for the supply of UNDERWATER SIX COMPONENT FORCE TRANSDUCER

Specifications

1. Force transducer will be used underwater for force measurement and it should work underwater continuously (for a minimum of two weeks continuous submergence) as long time till the completion of an entire set of experiments.
2. The force transducer needed to work in the potable water with up to 10% suspended sediment load.
3. Connectors must be waterproof and positioned without causing any hindrance for fixing of model.
4. Dead weight of the model that needs to be placed on top of the transducer frame is about from 10kg to 200kg depending on the application.
5. Dimension of transducer should preferably be 50cm x 50cm x 10cm (Length x Width x Height)
6. Transducer need to be fixed with floor preferably with friction plugs. Suitable mounting arrangements with wave flume should be mentioned without making any puncturing/ modifications to the tank walls and bottom floor slab.
7. Model will be mounted over the transducer and so, it is preferred to have as many as fixing arrangement for the flexibility to fix the model of varying sizes (minimum nine fixtures on the load cell frame with fixing screws/ nuts).
8. Operating temperatures: Minimum temperature 15°C and Maximum temperature 50°C.
9. Maximum loads on all the axes of the transducer will be 2.5 kN and the moment will be 3 kN-m.
10. Point of application of the load (CG of the distributed load) varies from 20cm above the transducer up to 120cm.

The technical bid will be opened at 4pm on 19 March 2014. Any technical queries will be entertained till 10 March 2014 and reply will be made on or before 14 March 2014.

Payment terms: 100% payment on supply and commissioning of the system.

For any technical query please contact

Prof.S.A.Sannasiraj, Ph.: +91 44 2257 4817, Email: sasraj@iitm.ac.in

All quotations (two bid system) must be send by speed-post/courier on or before the due date:

Prof.S.A.Sannasiraj
Department of Ocean Engineering
Indian Institute of Technology Madras
Chennai - 600036
India.

Important dates:

Last date for any Pre-bid enquiries: 10 March 2014

Replies to relevant pre-bid enquiries: 14 March 2014.

Due date for the submission of quotations under two bid system: 3 pm, 19 March 2013

Technical bid opening: 4pm, 19 March 2013

