

**NATIONAL TECHNOLOGY FOR CENTRE, PORTS, WATERWAYS AND COASTS
INDIAN INSTITUTE OF TECHNOLOGY MADRAS, DEPARTMENT OF OCEAN ENGINEERING
MADRAS-600 036**

Project No. CIE/18-19/269/MOSH/venu

Date: 18.7.2018

Ref No. OED/2018/006/Project/KMUR

Name of Project : Impact of Navigation on Flow and Sediment Transport at River Confluences.

Venue and Due Date: Room No.517, Engineering Design, IIT Madras on 08.08.2018 at 3.00 P.M.

GENERAL CONDITIONS FOR INVITING LIMITED TENDER/QUOTATION

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 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.

Dr.Venu Chandra
(Project Coordinator, CIE)

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 for Field Velocimeter with combined Depth Sensor

The above system should include a velocity sensor, depth sensor, wading rod, automated discharge calculating software and digital display with the following specifications:

Medium of operation	-	Turbulent water conditions with low to high rate of air entrainment (0-70%)
Measurement method	-	Suited for measurement in aerated water
Velocity range	-	0 to 5 m/s
Velocity accuracy	-	99% or more
Velocity resolution	-	99.9% or more
Maximum depth of measurement	-	5 m
Depth resolution	-	0.01 m or less
Depth sensor accuracy	-	99% or more
Minimum water depth for velocity measurement	-	5 cm or less
Velocity measurement methods	-	1, 2 and 3 point measurements
Methods for discharge calculations	-	Mid section method and Mean section method
Data export format	-	Excel file format (preferably)
Weight of system	-	Less than 1 kg
Power supply	-	12V DC and Battery operated option
Battery Life	-	15 hours or more
Cable length	-	10 m
Operating Temperature	-	0 to 50 deg C
Warranty	-	1 year (preferably 2 years)

The velocity sensor position and depth adjustments must be automated.