



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

Form for Inviting Quotations

Ref. No. CE/STORES/2019/XRF Analyser

dt. 10.02.2020

DUE DATE: 02/03/2020 – 3.00 P.M.

Tender Opening Date: 10/02/2020

To

Dear Sir,

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,

[Prof. Indumathi M Nambi]

- 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.



Dr. INDUMATHI M. NAMBI
Professor
Environment & Water Resources Division
Department of Civil Engineering
Indian Institute of Technology Madras
Chennai - 600 036, India

Specifications for Hand Held XRF Analyser

Analytical range	Elements capability – around 30 elements (Mg, Al, Si, Ca, S, P, Ti, V, Cr, Mn, Fe, Co, Ni, Cu, W Zn, Hg, As, Pb, Bi. Se, Th, U, R, Sr, Y, Zr, Nb, Mo, Ag, Cd, Sn, Sb)
Analytical modes	Metal, alloy (Should be applicable for solid and semi solid states)
Detection range and Accuracy	ppb level of detection (Low levels of detection), 3 - 4 sigma accuracy
Detector type	High performance semi-conductor
Data storage	Internal > 10000 readings, micro SD slot for expandable storage
Data transfer	USB, Wi fi and Bluetooth along with software
Battery	Rechargeable, 10 -12 hours working
Operating Environment	Temperature: -10 °C to 50 °C Humidity: 10% to 90% relative humidity non-condensing
Recurring cost	To be mentioned
Weight	< 2.0 kg , Easily portable
Warranty	Minimum of 3 years from the date of installation.
Certifications	Low radiation, water resistant, durable
Service / Maintenance cost	To be mentioned
Sample temperature	20° C – 150 ° C, measurement time would be adjustable
Training	Training program should be conducted



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