



Indian Institute of Technology, Madras,
Chennai-600036
Department of Civil Engineering

Ref. No. CIE/Micro/2016/SPL

dated 28 -10-2016

DUE DATE: 18.11.2016

Sirs,

1. Quotations are invited in duplicate (Two bidding covers) for the item/s shown as per enclosed Specifications.
2. The quotations duly sealed and superscribed on the envelope with the reference No. & due date, should be addressed to the **Head of the Department, Department of Civil Engineering, Indian Institute of Technology, Chennai-600036, India** and contain in 2 bid system i.e. Technical bid and Commercial bid in two separate envelopes and these two envelopes should be enclosed in a Single envelope so as to reach on or before the due date.
3. The quotation should be valid for (60) Sixty 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. Rate Contract Number 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. If so, please send copy of the R.C. (Please note that we are not Direct Demanding Officers)
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. Firms outside Chennai: Quotations should be for F.O.R. Chennai. 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.
7. Local Firms: Quotations should be for free delivery to this Institute. If quotations are for Ex-godown, delivery charges should be indicated separately.
8. The rate of Sales/General Taxes and 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 any 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 concession. Sales Tax Certificates will be issued at the time of final settlement of the bill. The Price should be quoted without Excise Duty; Since IIT Madras is exempt from payment of Excise duty.
9. Goods should be supplied by 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,

C. G. Indira

For HEAD OF THE DEPARTMENT.

Technical Specification for Micro Balance

Balance should be designed and manufactured under ISO-9001 and should comply with international regulatory and safety requirement.

Specifications:

S.No	Specifications	Descriptions
1	Core Specification	Balance should have minimum readability of ($\leq 1 \mu\text{g}$) 0.001 mg and maximum 6.0 g. Balance controlled by touch screen and display must be high resolution color TFT with good graphic display (size $\geq 5.5''$)
2	Tare range (subtractive)	6.0 g or better
3	Repeatability	$0.001 \leq \pm \text{mg}$ or better
4	Corner load (test load g)	0.004 mg or better
5	Sensitivity drift between +10 to +30°C	$1 \pm \text{ppm}/^\circ\text{K}$ or better
6	Typical stabilization time	< 5 s or better
7	Typical measurement time	< 8 s or better
8	Filter Weighing Pan	50 mm or better
9	Weighing chamber height	15 mm or better
10	Calibration	Should comply with (i) fully automatic internal calibration (ii) temp dependent calibration (iii) user defined time interval calibration (iv) external calibration with standard weights (v) internal linearization and reproducibility test

Optional and data acquisition

1. Installation and commissioning of instrument should be carried out at site.
2. Minimum 3 years warranty with 3 years free service will be preferred
3. A service center must be available in Chennai city for providing quick technical support for maintenance.
4. On-site training for the operation of the hardware and software systems should be included.