

भारतीय प्रौद्योगिकी संस्थान मद्रास
INDIAN INSTITUTE OF TECHNOLOGY MADRAS

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अध्यक्ष

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Ref. No.

CEC	17-18	002	VJK	ACVS	1
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FORM FOR INVITING QUOTATIONS
DUE DATE: 15.11.2017

Date: 17.10.2017

Dear Sirs,

1. Quotations are invited in duplicate for the AC Voltage Standard (specification attached).
2. The Quotations are to be in two bid system as : Technical bid and Commercial bid. Two parts of the offer are to be clearly marked on the envelopes. The two parts of the offer in a separate envelop must enclosed in the one bigger envelop duly sealed and superscribed with reference number and due date and, should be addressed to the undersigned so as to reach him on or before the due date stipulated above. A blank price quote (identical to the Commercial bid with numbers removed) should be enclosed with the Technical Part.
3. The Quotations should be valid for 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 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 CIF/F.O.R. Madras. If CIF/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 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 concession. Sales Tax Certificate will be issued at the time of final settlement of the bill.
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,

Head of the Dept/Centre

AC MEASUREMENT STANDARD

Quantity: One

Specification:

S/N	Application	Specification
1	Application	1. Ac voltage measurement and verification of calibrators, amplifiers, transfer standards and AC voltmeters. 2. Ac current Measurement through current shunts
2	Range AC Voltage	700 μ V to 1000 V in various ranges
3	Frequency Response	10 Hz to 1MHz

4. Absolute Uncertainty (including stability, temperature co-efficient & linearity):-

	Voltage Range	Frequency	Absolute Uncertainty In measurement mode (1 year)
I	2.2 mV	10 Hz to 1 MHz	0.042 % to 0.35 %
li	7.0 mV	10 Hz to 1 MHz	0.021% to 0.23 %
lii	22.0 mV	10 Hz to 1 MHz	0.011 % to 0.23 %
lv	70 mV	10 Hz to 1 MHz	0.0065 % to 0.11 %
v	220 mV	10 Hz to 1 MHz	0.0038 % to 0.1 %
vi	700 mV	10 Hz to 1 MHz	0.0051 % to 0.096 %
vii	2.2 V	10 Hz to 1 MHz	0.0024 % to 0.09 %
Viii	7 V	10 Hz to 1 MHz	0.0024 % to 0.12 %
lx	22 V	10 Hz to 1 MHz	0.0027 % to 0.12 %
X	70 V	10 Hz to 1 MHz	0.0032 % to 0.12 %
Xi	220 V	10 Hz to 500 KHz	0.0031 % to 0.05 %
Xii	700 V	10 Hz to 100 KHz	0.0041 % to 0.05 %
Xiii	1000 V	10 Hz to 100 KHz	0.0038 % to 0.05 %

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5. General characteristics

Sr.No		
	Descriptions	Specification
1	Warm up time	30 minutes
2	Operating Temp.	0 to 50 Deg. C
3	EMI/RFI	Instrument should comply with FCC part 15 subpart B, class B, EN50081-1, EN50082-1
4	Safety	Instrument should be designed to comply with IEC 61010-1: Overvoltage Category II, Pollution Degree 2
5	Interface	IEEE 488, RS 232
6	Warranty	One year

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