



**Dept. of Applied Mechanics,
Indian Institute of Technology Madras
Chennai - 36**

Phone : 044-2257 4054

Fax : 044-2257 4052

Date: 07.11.14

Ref. No.: APM/SFA/2014/001

Item: Two channel High voltage amplifier

Dear Sirs,

DUE DATE: 28.11.14

1. Quotations are invited in duplicate for the various items shown in Enclosed list (Annexure - I).
2. 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.
3. The Quotations should be valid for sixty 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 required.
4. Brochure detailing technical specifications and performance, list of industrial and educational establishments where the items enquired have been supplied must be provided.
5. Compliancy certificate is to be provided indicating conformity to the technical specifications.
6. 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.
7. 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.
8. Packing and delivery charges must be clearly indicated.
9. 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.
10. Goods should be supplied carriage paid and insured.
11. Goods shall not be supplied without an official supply order.
12. 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.
13. In case of LC. payment, 90% of the payment will be made after completion of the supply. The balance 10% of the payment will be made after satisfactory installation of the software.
14. 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.
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

Dr. Shaikh Faruque Ali
For Professor & Head, Department of Applied Mechanics.

ANNEXURE – I

Ref.. No.: APM/SFA/2014/001

Date: 07.11.14

DUE DATE: 28.11.14

| SL. NO. | DESCRIPTION | QUANTITY |
|---------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|
| 1 | <p align="center">2 channel High voltage amplifier</p> <p>Number of HV Amplifiers: Two independent high voltage amplifiers, called channels</p> <p>Output of Any Channel Output Voltage Range: -500 V to +1500 V Output Current Range: 0 to +/- 50 mA DC, 0 to 60mA peak AC Connector: SHV connector</p> <p>Wave Generator Input of Any Channel Input Voltage Range -2.5 V to +7.5 V corresponds to -500 V to +1500 V output Input Resistance: 100 kΩ Signal Frequency Range: 0 Hz to 10 kHz Connector: BNC coaxial connector</p> <p>Audio Signal Input of Any Channel Input Voltage Range 0.2 V to 3 V AC Input Resistance 100 kΩ Gain Control Range -12 db to +12db, by using a 10-turn potentiometer Offset Control Range -500 V to +1500 V, by using a 10-turn potentiometer Signal Frequency Range 10 Hz to 10 kHz Connector BNC coaxial connector</p> <p>Performance DC Voltage Gain 200 V/V for wave generator input, noninverting DC Voltage Gain Accuracy Better than 0.1% of full scale Offset Voltage Less than 1 V Slew Rate Greater than 50 V/μs Large Signal bandwidth DC to 10 kHz Drift with Time Less than 100ppm/hr Drift with Temperature Less than 50ppm/$^{\circ}$C Warmup Time 5 min</p> <p>BNC connectors to give input signal and measure the output voltage</p> | 1 |

Note:

The sealed quotation to be sent to

Attn: Dr. Shaikh Faruque Ali, Assistant Professor

For: The Head,

 Dept. of Applied Mechanics,
 IIT Madras, Chennai-600036,
 Tamil Nadu, India