

DEPARTMENT OF MECHANICAL ENGINEERING

INDIAN INSTITUTE OF TECHNOLOGY DELHI

Dated: October 5, 2013

Notice Inviting Quotations

Quotations are invited for the purchase of a High Voltage Dual Channel DC Power Supply. More details on the desired specifications are provided below.

1. Type: IGBT based switched-mode power supply (SMPS)
2. Input Voltage: 230V \pm 10% AC, 50Hz, Single Phase
3. Output Voltage: 0 to 5 kV DC or higher voltage
4. Output Current: 0 to 50 mA or higher current
5. Mode of Operation: Constant Voltage and Constant Current
6. Number of Outputs: two (2) or more
7. Polarity: Positive for both outputs
8. Line Regulation should not be more than 0.05% for \pm 10% variation in input voltage
9. Load Regulation should not be more than 0.05% for 0 to 100% load variation
10. Output ripple should not be more than 0.1% RMS
11. Voltage Control by potentiometer on the front panel with ten (10) or more turns
12. Current Control by potentiometer on the front panel with ten (10) or more turns
13. The device should provide protections against overload, short-circuit and arc
14. Front panel of the power supply should have at least the following features:
 - AC Power ON/OFF switch with indication
 - High Voltage ON/OFF switch with indication (2 sets)
 - Three and a half ($3\frac{1}{2}$) digit voltage meter and current meter (2 sets) or better
 - Potentiometer (with 10 turns or more) for voltage control and current control (2 sets each) or better
 - Constant Current and Constant Voltage Indicator (2 sets each)
15. Topology: Switch Mode Type
16. Regulating Device: IGBT
17. Two (2) sets of Detachable High Voltage Cable (each 10 feet or longer) should be provided with the power supply cable.
18. A minimum warranty of one year from the date of installation is required.

Terms & Conditions

1. Technical and Commercial bids are required to be submitted in separate sealed envelopes. Both these envelopes can be enclosed in a single envelope which should be clearly labeled as **“Quotation for High Voltage Dual Channel DC Power Supply”**.
2. Compliance chart conforming to the specifications as per the NIQ should be attached along with technical bid. A bid without the compliance chart shall be rejected (Note: The Compliance chart should match the specifications of the NIQ)
3. The bidder must be a reputed OEM or an authorized local agent.

4. List and addresses of organizations in India where similar equipment has been supplied should be provided.
5. If there is any Indian agent associated with the foreign supplier, then an appropriate “Letter of Authorization” certificate has to be provided with the quotation.
6. Validity of the quotation should be at least 120 days from the date of submission.
7. Quotation must indicate a delivery schedule, which in no case should exceed 8 weeks from the date of placement of order.
8. Please indicate the cost as FOB, IIT Delhi.
9. Payment will be made after satisfactory installation as per IIT norms.
10. Installation, commissioning and staff training expenses are to be borne by the supplier.
11. The Institute reserves the right to accept/reject any or all quotation without assigning any reason.
12. Taxes as applicable should be indicated clearly.
13. No advance payment will be possible.
14. Country of origin should be mentioned.

Sealed quotations should reach the undersigned on or before October 21, 2013 by 3:00 p.m.

Please quote best prices with appropriate discounts for academic institutions. The quotations can be sent to the undersigned:

Dr. Supreet Singh Bahga
Department of Mechanical Engineering
Indian Institute of Technology
Hauz Khas, New Delhi-110016