

**DR. RAJENDRA PRASAD CENTRE FOR OPHTHALMIC SCIENCES
A.I.I.M.S., ANSARI NAGAR, NEW DELHI-110029**

SRE No.80/RPC/GSK/2014-15

Dated: 26.11.2014

Sealed quotations are invited by post/per bearer for the supply of items detailed below which are required for Dr. R.P. Centre, AIIMS, New Delhi-110029.

The quotations should reach this office on or before **10.12.2014 at 11.00 AM** duly sealed & marked Tender/R.E. No. **80/RPC/GSK/2014-15**. All quotations should be typewritten or written with indelible ink. All over writing and erased entries will not be considered and treated as deleted entries from the quotations. The rates should be valid at least for one year. The validity of the quotation should be for six months.

The tenderers are requested to deposit bid security of Rs. 5,000/= (Refundable) (Rupees Five thousand only) through a Demand Draft/Pay order drawn in favour of the "**Chief DR. R.P. Centre, AIIMS, New Delhi**", along with the quotation failing which the quotation will not be considered. In case of failure to comply with the supply order in terms of the contract, the order will be placed to the next successful bidder and the bid security money deposited will be forfeited. The approved firm has to supply the item/material within a period of 30 days after issue of confirmed supply order.

The firm has to quote for **one best quality only with literature, catalogue** (if available). The offers submitted as quality A, B, C, & D etc. will be summarily rejected, any alteration/over writing in the specification/rates shall not be considered at all. The quoted items having quality mark such as I.S./C.E. Mark/ISO 9002 standardization should be mentioned, if any.

The quotations/tenders will be opened at **11.30 AM on 10.12.2014** in the office of Stores Officer, Room No. 180, Dr. R.P. Centre, AIIMS, New Delhi-110029 in the presence of the tenderers, whosoever are present.

NAME THE ITEMS

- | | |
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| 1. 2 KVA online power back up UPS
with 30 minute battery back up
(Specification attached at annexure-I) | 05 Nos. |
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STORES OFFICER

SPECIFICATIONS FOR BACKUP SYSTEM

- 1) Rating of backup system :
 - a) 2 KVA power backup UPS of approx. 30 minutes battery backup having single phase input & single phase output.
- 2) The on_line double conversion PWM topology shall be intelligent with appropriate feedback. System shall be housed in rugged enclosure made of M.S sheet, aesthetically finished, duly pretreated and powder coated
- 3) By-pass facility shall be provided for maintenance and for other breakdown eventualities. The type of bypass facility shall be “manual”.
- 4) System shall supply output power and charging current simultaneously on real time requirement basis. Charging should be current limited on Float cum Boost Charger basis.
- 5) Switching device shall be IGBT.
- 6) Input (as applicable) Extra-wide Input Voltage Control and should be configurable
 - a) 160V-280V, 50 +/-6%Hz Single phase AC
- 7) Output :
 - a) P-N = 230V
 - b) E-N = Less than 5V
 - c) E-P = 230V
- 8) Frequency 50 +/-0.05Hz, single phase , Voltage regulation +/-1%.
- 9) System should be capable of withstanding 30% overload for 10 minutes and 50% over load for 1sec at 0.7If
- 10) Following protection shall be provided :

Multiple protection features to ensure 100% protection to the load from full range of power disturbances by employing circuit breakers.

 - a) Over voltage, short circuit, and overload at output terminal.
 - b) Under voltage at battery terminal.
- 11) Indicators and meters
 - a) Following indicators shall be provided:-
 - i) Mains ON
 - ii) Low battery voltage.
 - iii) Output ON
 - iv) Battery charging and discharging
 - v) Output overload
 - b) LCD panel meter should be provided for monitoring the following parameters in UPS
 - i) Input AC voltage.
 - ii) Output AC Voltage
 - iii) Output current
 - iv) Input frequency
 - v) Output Frequency
 - vi) Battery voltage and current.
- 12) Environment: Temperature 0-45 Degree Centigrade, Relative Humidity:0-95%
- 13) Battery bank: SMF (Sealed Maintenance Free) VRLA batteries 15 nos with minimum 84VAH for approx. 30 minutes backup at 0.7 If of one of the following makes: Panasonic, Exide, Hitachi, Amar Raja, Rocket, Komatsoo, RITAR, Relicel, Trontek and Okaya. Backup enhancement can be done through addition of Battery Module.
- 14) Noise < 60 db@1 mtr.
- 15) Battery cabinet : Batteries should be housed in a suitable closed cabinet. Battery cabinet should be rugged enclosure made of M.S sheet, aesthetically finished, duly pretreated and powder coated.
- 16) Reset Switch for silencing alarm and resets overload (except battery low).
- 17) Cabinet/Enclosure : System to be provided with castor wheels for easy maneuverability and movement.
- 18) Warranty: For UPS Power system on site comprehensive warranty of 24 months. For batteries on site comprehensive warranty of 12 months.