



Indian Association for the Cultivation of Science
Jadavpur, Kolkata -700032, West Bengal, India, E-mail: admeg@iacs.res.in
Phone: 2429 2816 (Direct) 2473 4971/3372/3073 Fax (91) (33) 24732805

No. EI/083/Adm/ 13

Date: 14/06/2013

PURCHASE ENQUIRY NOTICE

Sub : Purchase Enquiry for 1 no. 6KVA (1-Phase to 1-Phase) DOUBLE CONVERSION TRUE ON-LINE UPS with 60 minutes battery Back-Up time for STM laboratory at Room no. 9 under Prof. A.J. Pal of SSP Department of IACS, Jadavpur.

Sealed item rate Tender in **two bid system (Technical bid & Financial bid)** is invited for purchasing of subject mentioned UPS from Nationally/ Internationally reputed manufacturers having marketing and servicing establishment all over India including Kolkata (it is a must to qualify a bidder in the technical bid) or from their authorized distributors/dealers. Therefore, interested parties may please send their offer (“**Technical Bid**” & “**Financial bid**” in two separate sealed envelopes covered by a third envelop in sealed condition) by downloading the tender documents from our website (www.iacs.res.in) to the office of the undersigned on or before **21.06.2013** (up to 2 p.m) mentioning **the item of purchase, Enquiry no. & due date on the top of the envelope** which (**Technical Bid** only) will be opened on the same day at 3.30 p.m. in presence of the intending bidders under the following terms & conditions. If holiday is declared on the schedule date of opening, the Technical Bid will be opened on the next working day at 3.30 P.M. **The price bid in respect of “technically qualified bidder(s)” shall only be opened with prior intimation to them.**

The Technical bid shall contain the credential to fulfill the eligibility criterion as asked for in this purchase enquiry notice, earnest money deposit (EMD), printed product literature/technical specification of the product to be offered, VAT registration certificate, PAN, Dealership /Distributorship Certificate (in case of dealer or distributor) issued by the manufacturer, client list, warranty provision, test certificate from reputed Testing Laboratory etc along with this tender document duly filled in all respect and properly signed & sealed in all pages and any other document considered to be essential to establish their credibility. **THE PRICE BID SHALL INCLUDE THE PRICED OFFER ONLY. The sealed envelopes should bear the name of work; NIT no. and due date of opening on the top of the envelopes and should reach the Registrar, IACS, Jadavpur, Kolkata 700032 on or before 21.06.2013 (upto 2 p.m.).**

1. The offer should be valid for minimum 30 days for acceptance of the same. **The quoted rate should be inclusive of all taxes, delivery charges etc. but exclusive of central excise duty for which exemption to be obtained from the supplier’s end against our relevant documents as issued by the Government of India to be produced on demand.** Nothing extra will be paid except to the accepted rate. However, **Post Warrantee Comprehensive Annual Maintenance Contract (AMC) rate** should be mentioned with this offer **for the next 5 years** (which will include preventive maintenance of UPS and health check-up of battery once in a period of 3 months generally and break down maintenance for every time) duration in order to provide coverage of AMC (if required) after the expiry of warrantee period. Tender will be evaluated based on the cost of the supply of UPS & battery etc. and the cost of AMC for the next 5 years as stated above. However, the AMC order may be issued after expiry of the warranty of the UPS based on satisfactory performance/response to attend faults (if any) during the warranty period.
2. Payment is likely to be cleared within 30 (thirty) days against successful delivery, installation, testing & trial run/commissioning.

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3. Delivery at site at your cost and risk within 30 (Thirty) days from the date of issue of Purchase Order, failing which penalty will be imposed @ 1% per week or part thereof but not exceeding 5% of the order value of work. However, any further delay beyond this limit may prompt IACS to cancel the order forfeiting the EMD.
4. An **Earnest Money Deposit** (EMD) of **Rs. 3,000/-** (Rupees Three thousand only) to be enclosed with the quotation favoring “**Indian Association for the Cultivation of Science**” through **pay order/ demand draft/ banker’s cheque** on local Bank which will be released to the unsuccessful bidders on demand after 15 days of the quotation opening and EMD for successful bidder it will be adjusted with the security deposit.
5. i) 90% payment of the work order value will be made against successful delivery, installation testing & trial run/commissioning. ii) 10% of the Purchase Order value duly adjusted with the EMD shall be retained with IACS as Security Deposit, which will be released after 6 (six) months on satisfactory performance of the equipments. TDS will be made as per prevailing rates from the bill.
6. The UPS to be supplied should have warranty of not less than 12 months from the date of successful trial run or 18 months from the date of successful delivery which ever is earlier. However, the Warranty of Battery should not be less than 2 years from the date of successful supply of the Battery.
7. The quotation should be enclosed with printed **technical literatures (Photo copy not accepted)** of the product to be offered along with a list of credentials and other relevant documents fit to be essential to establish your position.
8. The bid must carry the signature (with company seal) of authorized signatory of the company/firm on each page of this purchase enquiry document along with other documents as asked for to be submitted with their bid.
9. **Installation, Testing & Commissioning: Should be included with the offered price**
10. There will be no price escalation except for any changes or imposition of Govt. levies from the date of opening of tender.
11. **Conditional offer including conditional rebates shall be summarily rejected.** In case of any discrepancies, the office copy will be referred and shall be binding to the bidders.
12. The compliance list as provided with this purchase enquiry document must be filled in all respect and to be submitted with the offer.
13. The IACS authority reserves the right to reject any or all the offers without assigning any reason thereof.
14. “**Test Certificate**” of the UPS must accompany the offer. The Test Certificate should be issued by any Govt. Laboratory / NABL approved laboratory towards compliance of the specifications as asked for in the NIT within the cost of the UPS.
15. Higher rating KVA/KW UPS may be offered as per product range of the manufacturer. However, no extra weightage will be given for offering higher rating UPS during evaluation of Tender.

Thanking you.

(S.Bose)
Technical Officer (Elect)

INDIAN ASSOCIATION FOR THE CULTIVATION OF SCIENCE

Jadavpur, Kolkata – 32.

SPECIFICATIONS OF 6KVA (1-PHASE TO 1-PHASE) DOUBLE CONVERSION TRUE ON-LINE UPS WITH 60 MINUTES BATTERY BACK-UP: -

The Uninterrupted Power Supply (UPS) System should be DSP based (Technology: IGBT) fully automatic controlled designed & housed in a compact rigid stylish cabinet conforming to IEC, BS & ISO STANDARD.

Input:

1. Voltage Supply: 230V, 1 Phase, AC Voltage.
2. Voltage Range: +10% -15%
3. Supply Frequency: 50 Hz
4. Frequency Range: 50 Hz \pm 3%

Output:

1. Power Capacity: Minimum 6 KVA / 4.2 KW (Continuous) at 0.7 p.f. (Higher KVA/KW may be offered as per product range of the manufacturer).
2. Terminal Voltages: 220V, 1Ph & N with provision of alternative setting for 230V & 240V
3. Voltage Regulation: ∇ 1%
4. Power Factor: 0.7 lagging
5. Frequency: 50 Hz
6. Permissible Variation: ∇ 0.5% free running
7. Crest Factor: 3:1
8. Wave Form: Pure Sine Wave
9. Total Harmonic Distortion: \leq 3% on linear load and \leq 5% on nonlinear load.
10. Efficiency: overall efficiency \geq 80%
11. Ability to Cold start directly on battery
12. Over load Capacity: 110% for 10 minutes & 150% for 1 minute.
13. Isolation: UPS output should be isolated from mains input.

Battery:

1. Type: 12V, VRLA type Sealed maintenance free (SMF) with interconnecting cable and battery bank leads, Isolation switch with protective discharge fuse.
2. Back up duration: 60 minutes (VAH=8000 Minimum)
3. Brand: Exide or Amara Raja (Model should be suitable for UPS operation).

Bypass:

1. Switch: Static bypass & manual maintenance bypass.
2. Transfer Time: Zero-no-break
3. Manual: For maintenance Purpose

Protections:

1. Input / Output- Over Voltage
2. Input-Under Voltage
3. Output : Over load/Short Circuit
4. Surge & Lightning
5. Battery: Under Voltage etc.

Indication: Mimic with large LED for flow of power and status information with bar graph for load and battery incorporated with low battery / Fault and load on bypass Alarm etc.

Isolation Transformer: The UPS should have in-built Isolation Transformer of suitable rating at the output circuit.

Environmental:

1. Altitude \leq 1000 Mtr. above MSL
2. Operating Temp = 0~40°C
3. Storage Temp = 0~70°C
4. Noise level: \leq 65dB at 1 mtr from UPS body
5. Humidity = \leq 95% non condensing.
6. Ventilation = by internal intake fans.
7. Enclosure = IP-20
8. Cable Entry: Back side (Bottom) Preferred.

Other Features:

1. Automatic Boost charger
2. Computer interface RS-232
3. Front door access for maintenance
4. Input harmonic filter (in-built)
5. PVC insulated Copper flexible Cable loops (7.5 Mtrs each for input & output) of required size are to be provided with the UPS with adequate protection as per I.E. Rule for input & output power supply including battery supply.
6. The UPS enclosure should stand on heavy duty trolley mounted base for easy shifting & maintenance work

S. Bose
T.O. (Elect)