



नव मंगलूर पत्तन प्राधिकरण
NEW MANGALORE PORT AUTHORITY
यांत्रिक अभियंता विभाग
Mechanical Engineering Department
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No. 8/3/2024/Ele. Dvn/ETS.II/01/03

Date: 11.01.2024

To,

Sir,

Sub: -NMPA-EE (E) - "Supply, Installation, Testing and commissioning of 6KVA, 192V DC Online Single Phase UPS with SMF batteries for Board Room" - Quotation invited - Reg.

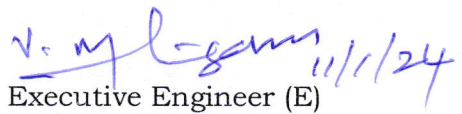
Quotation in sealed covers superscribed as "Supply, Installation, Testing and commissioning of 6KVA, 192V DC Online Single Phase UPS with SMF batteries for Board Room" invited in accordance with the instructions to the Tendered Terms & Conditions as detailed below, may please be submitted addressed to "**The Executive Engineer (Elec.), Electrical Division, Administration Building, New Mangalore Port Authority, Panambur, Mangalore- 575010**" not later than **3.00 PM on or before 18.01.2024**. Quotation will be opened on the same day at 3.30 PM in the presence of the tenderers who wish to be present.

| SL No. | Description of work | Qty | Rate Rs. | Rate in words | Amount Rs. |
|--------|--|--------|----------|---------------|------------|
| 1 | Supply, Installation, Testing and Commissioning of 6KVA, 192V DC, Single Phase IN- Single Phase OUT, 230V, Online UPS. (As given in Technical Specification - Annexure -I) | 1 No. | | | |
| 2 | Supplying, Installation, Testing & Commissioning of 12 volts, 42AH SMF Batteries with rack/trolley. (1Hr Back Up). Make: Approved brand of Batteries. (As given in Technical Specification - Annexure -I) Note: 10 Nos. 12V, 42AH SMF batteries will be supplied by Department. | 6 Nos. | | | |
| | Total | | | | |
| | Applicable GST | | | | |
| | Grand Total | | | | |

TERMS & CONDITIONS:

1. The rate quoted for the items shall be firm and exclusive of applicable Taxes and F.O.R destination basis.
2. Applicable GST will be paid as per actual.
3. The time allowed for completion of work is **30 days** from the date of issue of work order.
4. Offer shall be submitted in NMPA format only along with Terms & Conditions of Enquiry. Offer submitted in other format will not be considered for evaluation and liable for rejection.
5. Please note that no advance payment will be made. But payment will be made within 15 days after satisfactory completion of the subject work to the entire satisfaction of the Engineer-in-Charge.
6. The 6KVA, 192V DC Online UPS & 12V, 42AH SMF Batteries should conform to the specifications as per Annexure - I and standards of IS & **warranty period of 12 months for Online UPS and 24 months for Batteries.**
7. The Contractor has to Supply & Install 6 Nos. 12 volts, 42AH SMF Batteries with rack/trolley. 10 Nos. 12V, 42AH SMF batteries will be supplied by Department.
8. The Tenderers should quote their rates in figures as well as in words the amount tendered by them. The amount per each item should be worked out and requisite total should be given. All rates shall be quoted in proper form in the tender schedule enclosed. **The rates quoted should be valid for 90 days.**
9. The Tenderer shall have experience in Supply and Installation of Offline/Online UPS. Documentary evidence/supporting documents such as Work order/Work Completion Certificate shall be submitted along with the offer without which the offer will not be considered for evaluation and liable for rejection.
10. **The Tenderer may visit the work site and get acquainted himself with the site conditions, nature of work involved before tendering.** Any assistance, in this regard will be provided by the department under prior appointment and the undersigned may be contacted for the purpose.
11. The Tenderer shall be responsible for making good of all the damages done during the work and has to employ skilled & competent workers for carrying out the work.
12. The Tenderer shall be responsible for taking precautionary measures for the safety of the workmen working under him and the responsibility arising due to any mishap during the execution of work, payment of any compensation etc., lies entirely on the part of the Contractor. Safety Items required while working are to be provided by the Contractor.
13. No tools, plant, Labour, equipment, transport, etc., required for the work will be supplied departmentally and contractor has to make his own arrangements.
14. The evaluation shall be done on the basis of total lowest value (L1) quoted. The GST element if any will not be considered for evaluation.

15. The acceptance of the tender will rest with competent authority of NMPA who does not bind himself to accept the lowest tender and reserves to himself the authority to reject any or all of the tenders received without assigning any reason.
16. LIQUIDATED DAMAGES:
 - i. In case of delay in completion of the contract, liquidated damages (L.D) may be levied at the rate of 0.5% of the contract price plus applicable GST per week of delay, or part thereof subject to a maximum of 10 per cent of the contract price.
17. Department Standard Operating Procedure will be shared with the successful bidder before commencing the work and an undertaking will be obtained for complying with the same. In case if the Contractor does have a defined SOP for carrying out the work, the same shall be scrutinized and approved by the Executive Engineer (E)-I for its applicability.
18. If the Tenderer after award of work/contract fail to execute the work in the specified allotted period, then the Tenderer shall be debarred for a period of three (3) years from participating for tenders at New Mangalore Port Authority.


Executive Engineer (E)
Electrical Division, NMPA

Seal and sign of Tenderer

Annexure -I

a) 6KVA, 192V DC Online UPS

| Sl. No | Description | Specification |
|--------|--|---|
| 1 | CAPACITY | 6KVA (5.4KW) |
| 2 | INPUT | Single Phase |
| | Phase | Single Phase with ground (L-N-G) |
| | Voltage Range | 110 VAC-300 VAC |
| | Frequency | 50 Hz (auto sensing) |
| | Power Factor | *>0.99, >0.95(above 25% load) |
| | THD | <5% with full load |
| 3 | BYPASS | |
| | Voltage Range | 230 VAC |
| | Frequency Range | 45-55 Hz |
| 4 | OUTPUT | |
| | Design PF | 0.9 |
| | Voltage | 230 VAC |
| | Voltage Regulation | +/-1% |
| | Frequency | 50 +/-0.1 Hz (free running mode) |
| | Synchronization Range | 45-55Hz |
| | Voltage Distortion | <2%(linear load) <5%(nonlinear load) |
| | Output Waveform | Pure Sine Wave |
| | Crest Factor | 3:1 |
| | Efficiency(AC-AC) | Up to 93% |
| 5 | OVERLOAD | 125%-10 min 150%-1min |
| 6 | BATTERY | |
| | Battery type | Sealed Lead Acid Maintenance free, |
| | DC Voltage | 240 VAC |
| | Charger | Build-in solid state three stage recharge (constant voltage, constant current with float charge) and with temperature compensation. |
| 7 | GENERAL | |
| | Operating Temperature | 0-45 deg. C |
| | Noise level | <55 dB at 1 meter |
| | Display and indication | LED display |
| | Status LED | Load on battery |
| | Audible alarm | Mains failure alarm, Low battery alarm, UPS warning, Overload, Fault and Bypass mode. |
| 8 | INPUT-OUT TERMINALS | |
| | Input | Terminal |
| | Output | Input breaker+ Terminal |
| 9 | Physical and Conformity approvals | |
| | Safety and Environment | BIS, CE, RoHS, PEP(Product Environmental Profile) |
| | EMC | EN 62040-2 |
| | Safety | EN-62040-1 |
| | Performance | IEC 62040-3 |
| | Ingress Protection (IP) | IP 20 |

| | | |
|----|-------------------------------------|--------------------|
| 10 | Communication Interface Port | RS232 |
| 11 | Warranty | 1 year (12 months) |

b) 12V, 42 AH Sealed Maintenance Free (SMF) Batteries:

| | |
|-------------------------|-------------------------|
| Type of Battery | 12V, 42AH SMF Batteries |
| Battery Backup | 1 Hr Backup. |
| Charger | SMPS |
| Terminal Voltage | 12V DC |
| Max. Depth of discharge | 80% |
| Warranty | 2 years (24 months) |
| Battery Rack/Trolley | 01 no. |

V. M. Logan 11/1/24
 Executive Engineer (E)
 Electrical Division, NMPA