



नव मंगलूर पत्तन प्राधिकरण
NEW MANGALORE PORT AUTHORITY
यांत्रिक अभियंता विभाग
Mechanical Engineering Department
इलेक्ट्रिकल इंजिनियरिंग डिविजन, पणंबूर, मंगलूर
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No. 8/3/2024/Ele. Dvn/ETS.II/04/01

Date: 02.04.2024

To,

Sir,

Sub: -NMPA-EE (E) - "Supply, Installation, Testing and commissioning of 6KVA, 192V DC Online Single Phase UPS with 16 Nos. 12V, 42AH SMF batteries for Board Room" - Quotation invited - Reg.

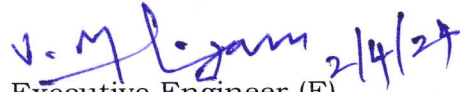
Quotation in sealed covers superscribed as "Supply, Installation, Testing and commissioning of 6KVA, 192V DC Online Single Phase UPS with 16 Nos. 12V, 42AH SMF batteries for Board Room" invited in accordance with the instructions to the Tendered Terms & Conditions as detailed below, may please be submitted 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 10.04.2024**. 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)	16 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 and conditional offer 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 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.**
8. 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.
9. **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.
10. 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.
11. 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.
12. No tools, plant, Labour, equipment, transport, etc., required for the work will be supplied departmentally and contractor has to make his own arrangements.
13. 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.

14. 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.
15. 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.
16. 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.
17. 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

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.


Executive Engineer (E)
Electrical Division, NMPA