

**GOVERNMENT OF INDIA
BHABHA ATOMIC RESEARCH CENTRE
WASTE MANAGEMENT DIVISION
WASTE MANAGEMENT FACILITIES, TROMBAY**

Ref: WMD/EE&I/PBB/2018/191581

**Date:05-10-2018
WIP, Trombay**

Notice Inviting Tender

Tender No Ref: WMD/EE&I/PBB/2018/191581 dated 05/10/2018

Sealed quotations are hereby invited on behalf of President of India by Chief Superintendent of Waste Management Division, Nuclear Recycle Group, Bhabha Atomic Research Centre, Trombay, Mumbai-400 085 for following work from the contractors having pre cleared security vetting of his/her company/firm as per BARC security rules and having carried out similar works & having adequate experience & sufficient staff having Police Verification Certificate (PVC).

**Name of work: Supply, installation & commissioning of 3 KVA online UPS
with battery bank**

- 1) Your offer shall be valid for minimum 60 days from the date of quotation opening.
- 2) Work shall be completed within 03 months from the date of release of work order.
- 3) Tenderer may submit the quotation in sealed envelope addressed to:
PB Bhandut,
SO/D, EE&I,
Waste Management Division,
Bhabha Atomic Research Centre,
Mumbai 400085.
- 4) Last date for submission of technical queries against this enquiry is 22/10/2018.
- 5) Sealed quotation to the undersigned shall reach by 22/10/2018 up to 15:00 hrs by 'registered post/speed post' only through India Post Service. The sealed quotation will be opened on the same day at 15:30 hrs.
- 6) BARC reserves the right to reject any or all tenders/applications without assigning any reason what-so-ever.



PB Bhandut
SO/D, WMD

Annexure

BOM:

Sr. No.	Description	Qty	Unit	Supply		Installation	
				Rate	Cost	Rate	Cost
1	3KVA ONLINE UPS SYSTEM EMERSON MAKE 3KVA GXT MT+ / GTX RT + (72V DC) ONLINE UPS with external long run batteries	5	No.				
2	EXIDE MAKE EP 65AH-12V POWERSAFE SMF BATTERY	30	No.				
4	MS POWDER COATED BATTERY RACK	5	No.				
5	MS POWDER COATED MOUNTING STAND FOR UPS	5	No.				
5	LINKS FOR BATTERY	5	Sets				
	Sub Total						
	GST @ 5% on Supply						
	GST @ 28% on Installation of Batteries						
	GST @ 18% on installation of rest of the items						
	Total with GST						
	GRAND TOTAL						

Specifications:

A. UPS:

Capacity	:	3 KVA
Type	:	Online
Input	:	230 V AC + 10%, - 20%, 1 ϕ , 50 Hz \pm 10%
Output	:	230 V \pm 1%, 1 ϕ for steady state loading (0-100%), 230 V \pm 2% 1 ϕ for step loading with less than 3 cycle recovery to steady state.
Voltage Range	:	3% or better
Output Frequency	:	50 Hz \pm 0.5%
Output waveform	:	Pure Sine Wave, Symmetrical axis between waves of opposite polarity, Harmonic Component: \leq 3% of RMS Value THD \leq 5% of magnitude of fundamental frequency
Output Regulation	:	Better than \pm 1% over entire range of operation i.e. 0 to 100% of load
Output waveform	:	Pure Sine wave

B. Batteries:

Battery type	: SMF (Lead Acid Sealed Maintenance Free Battery)
Capacity	: 65 AH
Application	: UPS
Nominal Voltage	: 12 V
Float Voltage	: 13.5 Volts
End Cell Voltage	: 80% of rated voltage
Construction	: ABS Body
Terminals	: Brass coated with lead, corrosion free
Make & Model	: Exide, Powersafe Plus
Operating Temperature	: 0-40° C

Scope and General Terms:

1. The supplier shall be OEM/authorized dealer/ original UPS Manufacturer and shall produce documentary evidence for the same.
2. The supplied batteries with UPS shall be from a single manufacturing batch. Batteries older than six months shall not be acceptable. The contractor shall produce test certificates for the same.
3. The contractor will supply the UPSs and batteries as specified above to the site at BARC, Trombay. The same will be installed at geographically distant locations at Trombay campus.
4. The battery banks will be formed in the racks supplied and using the leads supplied via this tender. Such leads shall have copper lugs of appropriate size at both ends. The contractor shall ensure adequate tightness of the terminal-cable connections. Any defects arising out of the loose connections shall be the contractor's liability.
5. Prior clearance will be obtained for installation of the systems.
6. The contractor shall ensure optimum safety precaution while carrying out the job and follow standard practices of replacement of batteries.
7. The contractor shall arrange adequate accident insurance coverage of his personnel. BARC shall not be responsible for any liability arising out of any accident / injury caused to contractor persons while executing the work.
8. Transportation and delivery of UPS and batteries will be in the scope of contractor. Manpower required for carrying out the entire work shall be in the scope of the contractor.
9. The contractor shall be responsible for any loss or damage during transportation, handling, storage and installation of batteries.
10. No insurance shall be paid by BARC for the material. In case of such requirements, the supplier will bear the cost of insurance.
11. Contractor shall at his own cost, make arrangements for transport of his personnel to and from the site.
12. All handling equipment, tools and tackles etc. required for the work shall be arranged by the supplier.
13. This work involves working in restricted area with security restrictions on entry of workers, working time etc. All the workers and their supervisors need to have police verification done and cleared.

Inspection and Testing:

1. All the items / materials shall be inspected and tested as per prevailing IEC codes before dispatch.
2. Functional tests shall be repeated at site after installation & commissioning, but before final acceptance.

Guarantee:

The systems supplied vide this work order, shall be guaranteed for a period of two years from the date of completion of work,



PB Bhandut
SO/D, WMD