

REQUEST FOR PROPOSAL (RFP)

EMPANELMENT OF VENDORS

FOR

Supply, Commissioning, Installation, Testing, Configuration
& Maintenance of UPS and Batteries
For Branches under Bhubaneswar Region

Bid Details - Empanelment of vendors technically to supply, commission, install, test, configure and maintain the UPS and Batteries.

1.	Date of commencement of sale of Bidding Document	04.04.2022 11.00 HRS
2.	Last date for receiving suggestions/ seeking clarifications from the bank	10 th April 2022
3.	Last date and time for receipt Of Bidding Document	22 nd April, 2022 upto 1:00 pm
4.	Date and Time of Technical Bid Opening	22 nd April, 2022 at 4:00 pm
5.	Place of opening of Bids	Union Bank of India, Regional Office - Bhubaneswar, 3/1A Civic Centre, IRC Village, Nayapalli, Bhubaneswar 751015
6.	Address for communication	Union Bank of India, Regional Office - Bhubaneswar, 3/1A Civic Centre, IRC Village, Nayapalli, Bhubaneswar 751015 E-mail: rcc.bhubaneswar@unionbankofindia.com Phone: 9619126016,7760976343
7.	Cost of RFP	NIL
8.	Contact to Bidders	Interested participants are requested to send the email to rcc.bhubaneswar@unionbankofindia.com Containing following information, so that in case of any clarification same may be issued to them. Name of Company, Contact Person, Mailing address with Pin Code, Telephone No., Fax No., Email Address, Mobile No. etc. The subject of the email should strictly be: "Empanelment for supply of UPS and Batteries"

INSTRUCTION TO BIDDER

1. INTRODUCTION

Union Bank of India, a Public Sector Bank (hereinafter referred to as Bank) having its Regional Office at 3/1A Civic Centre, IRC Village, Nayapalli, Bhubaneswar 751015, Head office at Nariman Point, Mumbai and Technology Centre at Adi Shankaracharya Marg, Powai, Mumbai invites proposals from reputed vendors for empanelment for supply, installation and maintenance of UPS and Batteries on need basis for various Branches coming under Bhubaneswar Region.

2. ELIGIBILITY CRITERIA

Sl.No	ELIGIBILITY CRITERIA
1	Should be in Designing, Manufacturing, Installation, and Maintenance Services of UPS System of various ratings(OEM)
2	The Applicant should be a company registered in India under the Indian Companies Act of 1956
3	Should have ISO 9001 Certification
4	Annual Turnover in UPS Business for the last three years should be minimum Rs.3 Crores for each year
5	The company should be making profit during the last three years.
6	Should be in the empanelled list of at least two Public Sector Banks
7	Should not have any adverse records with other banks or our bank
8	Should not have been blacklisted by any Govt Department or Public Sector Undertaking
9	Should be registered with respective Tax Authorities
10	Should not have any arrears in Tax Payments
11	The bidder should be an OEM or authorized representative of Original Equipment Manufacturer (OEM) for Exide Tubular batteries and SMF batteries of reputed companies such as Exide, Amar Raja, Panasonic, Rocket, Quantum etc. In case of authorized representative, a letter of authorization to this effect from OEM must be furnished. Authorization Letter should be valid for entire period of empanelment.
12	Service Support Centre for Odisha State(covering 2 districts of Odisha State i.e. Khurda and Puri). Should be in position to attend defects within 24 Hrs of complaint received.

3. SCOPE OF EMPANELMENT

- 3.1 To supply, install, test, configure, commission and maintain UPS and Batteries for Branches/offices coming under Bhubaneswar Region (**covering 2 districts of Odisha State i.e. Khurda and Puri**).
- 3.2 The vendor should have Head Office/Registered Office/Regional Office/Zonal Office/Circle Office in the Bhubaneswar City (Enclose valid license under Shops and establishment act).
- 3.3 Empanelment would be for following items
 - 3.3.1 UPS of different capacities
 - 3.3.2 Batteries of different rating, etc

However, vendor would be required to quote for any/all items as per Bank's requirement.

- 3.4 The vendors will be empanelled for a period of **two years** and will remain valid till the completion of fresh/next empanelment. However, Bank reserves the right to reduce and/or increase the validity of period of empanelment

- 3.5 The Vendor will also provide the latest model available, if there is upward revision in the model offered, at no extra cost to Bank.
- 3.6 The bank reserves the right to shift the equipment to a suitable location depending upon the need at no extra cost. The vendor will arrange to shift the equipment and install, commission & maintain the same at the new location.
- 3.7 Vendor has to comply with the audit observations (systems and security) pointed by Internal or external auditor during both warranty and AMC period. However, the scope will be limited to UPS/Batteries supplied by them only.
- 3.8 Vendor should provide services support 24 x 7 with 4 hours on site response time during the warranty period and AMC period. Equipment has to be set right on the same business day. Vendor has to replace equipment of similar or higher configuration if same is not set right within 3 days from the date of problem reporting. Bank reserve right to change the penalty clause on case to case basis for each procurement.
- 3.9 Vendor should undertake to provide maintenance support (Post warranty) to equipment and arrange for spare parts for a minimum period of 5 years. Comprehensive annual maintenance contract has to be entered into separately with the bank, for this purpose. The bidder shall provide support services for 24 x 7 with 4 hrs on site response time unless specified otherwise and also execute the Master AMC agreement. Scope of service and support during AMC would be same as warranty period.
- 3.10 Bank is empanelled vendor only for reducing the procurement process time. During empanelment period, Bank reserves the right to include new vendors, de-empanel any vendor, issue open tenders, issue limited tenders to other vendors, may not issue tenders to empanelled vendors etc. Bank's decision will be final in this regard.

Please note that during the empanelment period Bank will float limited tenders amongst the empanelled vendors and seek responses for various requirements. Individual tender will contain detailed terms and conditions and scope of work. The conditions mentioned in this tender are only generic in nature and will become the part of each tender. However, in case of any conflict between terms and conditions mentioned in this document and that in limited tender documents, the terms and conditions mentioned in limited tender will prevail.

Bank may opt for entering into a rate contract (for supply of various UPS/Batteries to its branches / offices spread all over India) with the empanelled vendors on the basis of L1 for which RFP will be floated separately in near future.

4. EMPANELMENT PROCEDURE

The vendor will be empanelled as per the following process:

- 4.1 Vendors satisfying the eligibility criteria and technical requirement will be shortlisted and technically qualified bidders will be empanelled with the Bank.
- 4.2 Tenders would be issued to empanelled vendors based on following criteria
- 4.2.1 Vendor annual turnover
 - 4.2.2 Service support centers available in the area where equipments are needs to be installed and maintained.
 - 4.2.3 Our Past Experience with the Vendor.
 - 4.2.4 Past Experience of existing customers of the vendor.
- However, Bank reserves the right to relax these criteria in case there are not sufficient numbers (at least 3 nos.) of empanelled vendors are available for particular tender.
- 4.3 The empanelment will be valid for Two years or till the completion of next empanelment process whichever is earlier.

- 4.4 Regional Office will invite the bids from the empanelled bidders as per Bank's requirement.
- 4.5 Regional Office will place orders with the successful bidders and release payment as per the terms and conditions stipulated in RFP.
- 4.6 In case the empanelled vendors are unable to fulfill the contractual obligations during contract period, bank will have the option to declare that vendor ineligible for the subsequent tendering process.

5. COST OF BIDDING

The Bidder shall bear all the costs associated with the preparation and submission of its bid and Union Bank of India, hereinafter referred to as the Purchaser, will in no case be responsible or liable for these costs, regardless of the conduct or outcome of the bidding process.

6. BIDDING DOCUMENT

The Bidder is expected to examine all instructions, forms, terms and conditions and technical specifications in the Bidding Documents. Failure to furnish all information required by the Bidding Documents or submission of a bid not substantially responsive to the Bidding Documents in every respect will be at the Bidders' risk and may result in the rejection of its bid. Bidder should strictly submit the bid as per RFP failing which bid will be rejected as non-responsive.

7. AMENDMENT OF BIDDING DOCUMENTS

At any time prior to the deadline for submission of bids, the Purchaser may, for any reason, modify the Bidding Documents through amendments at the sole discretion of the Bank. Amendment will be conveyed through mail to all prospective bidders, who have received the bidding documents and the amendments will be binding on them. In order to provide prospective Bidders a reasonable time to take the amendments into account in preparing their bid, the Purchaser may, at its discretion, extend the deadline for submission of bids.

8. PERIOD OF VALIDITY

Bids shall remain valid for a period of 180 days from the date of bid opening prescribed by the Purchaser. A bid valid for shorter period shall be rejected by the purchaser as non-responsive

9. BIDDING PROCESS

The bidder will have to submit their response in the format of **TECHNICAL BID** after properly filling, stamping and signing all the forms annexed with the RFP. TECHNICAL BID will contain duly filled formats and information.

10. SUBMISSION OF BIDS

The bidders shall duly complete the bid and submit the Bank on or before the final date & time of bid submission. The bid should be duly sealed.

11. DEADLINE FOR SUBMISSION OF BIDS

Bids must be submitted not later than the specified date and time mentioned in the Bid Document. If the specified date of submission of bids being declared a holiday for the Purchaser, the bids will be received up to the specified time in the next working day. The Purchaser may, at its discretion, extend this deadline for submission of bids by amending the bid documents, in which case all rights and obligations of the Purchaser and bidders, previously subject to the deadline, will thereafter be subject to the deadline extended. All the correspondence/bid should be addressed to Bank at the following address.

**The Regional Computer Cell(RCC),
Union Bank of India**

Regional Office,
3/1A Civic Centre,
IRC Village, Nayapalli,
Bhubaneswar 751015

12. CONTACTING THE PURCHASER

Any effort by a bidder to influence the Purchaser in evaluation of the purchaser's bid, bid comparison or contract award decision may result in the rejection of the Bidders' bid. Purchaser's decision will be final and without prejudice and will be binding on all parties.

13. PURCHASERS RIGHT TO ACCEPT OR REJECT ANY BID OR ALL BIDS

The Purchaser reserves the right to accept or reject any bid and annul the bidding process or even reject all bids at any time prior to award of contract, without thereby incurring any liability to the affected bidder or bidders or without any obligation to inform the affected bidder or bidders about the grounds for the purchaser's action. The Purchaser reserves the right to accept or reject any technology proposed by the vendor. The Purchaser reserves the right to select more than one vendor keeping in view its large requirements.

14. CONTENTS OF DOCUMENTS TO BE SUBMITTED

Documents required in Technical Bid (Sealed Cover)

1. Power of Attorney
2. Minimum Eligibility Criteria , Documents in support of eligible criteria, wherever required.
3. Letter of Undertaking (Covering Letter) as per **Annexure I**
4. Minimum Qualification Criteria For Bidders as per **Annexure II**
5. Bidder's Information as per format as per **Annexure III**
6. List of major clients and the quantum of orders with approximate value executed to various organizations, including at least two Public Sector Banks-as per **Annexure IV**
7. Last three years audited balanced sheet and profit and loss account statement, Copy of Audited Financial Statement for Last three years
8. Compliance Statement declaration as per **Annexure V**
9. Details of the Service centers with list of technical staff (Name, Contact no, address) available for providing support as per **Annexure VI**
10. Authorization Letter from OEMs (in case applicant is authorized business partner of OEM)
11. TECHNICAL SPECIFICATION OF THE UPS 1KVA TO 5 KVA as per **Annexure VII**
12. TECHNICAL SPECIFICATION OF THE UPS 7.5KVA TO 30 KVA as per **Annexure VIII**

15. BID OPENING AND EVALUATION

In the event of the specified date of bid opening being declared a holiday for purchaser, the bids shall be opened at the specified time and place on next working day. Those bidders satisfying the technical requirements as determined by the Bank and accepting the terms and conditions of this document shall be empanelled and will be eligible for subsequent limited tendering process unless they are declared ineligible by the Bank due to any subsequent reason. The Purchaser reserves the right to accept or reject any technology proposed by the bidder without assigning any reason thereof. Decision of the Purchaser in this regard shall be final and binding on the bidders.

16. CLARIFICATIONS OF BIDS

To assist in the examination, evaluation and comparison of bids the purchaser may, at its discretion, ask the bidder for clarification. The response should be in writing and no change in the price or substance of the bid shall be sought, offered or permitted.

17. PRELIMINARY EXAMINATION

The Purchaser will examine the commercial bids to determine whether they are complete; whether any computational errors have been made; whether required information has been provided as underlined in the bid document; whether the documents have been properly signed, and whether bids are generally in order. Bids from agents without proper authorization from the manufacturer as per the authorization form, shall be treated as non-responsive and will be outrightly rejected. Arithmetic errors will be rectified on the following basis. If there is a discrepancy between unit price and the total price that is obtained by multiplying the unit price and quantity, the unit price shall prevail and total price shall be corrected. If there is discrepancy between words and figures, the amount in the words will prevail. The bid determined as not substantially responsive will be rejected by the purchaser.

18. GOVERNING LAWS, RESOLUTION AND DISPUTES

All disputes or differences whatsoever arising between the parties out of or in relation to the construction, meaning and operation or effect of these Tender Documents or breach thereof shall be settled amicably. If however the parties are not able to solve them amicably, the same shall be settled by arbitration in accordance with the applicable Indian Laws, and the award made in pursuance thereof shall be binding on the parties. The Arbitrator/Arbitrators shall give a reasoned award. Any appeal will be subject to the exclusive jurisdiction of the courts at Bhubaneswar. During the arbitration proceedings the Vendor shall continue to work under the Contract unless otherwise directed in writing by the bank or unless the matter is such that the work cannot possibly be continued until the decision of the arbitrator or the umpire, as the case may be, is obtained. The venue of the arbitration shall be Bhubaneswar.

19. SIGNING OF CONTRACT

The successful bidder(s) shall be required to enter into a empanelment contract with UBI, within 7 days of the notification of empanelment or within such extended period as may be specified by Regional Computer Cell, Union Bank of India, Regional Office - Bhubaneswar, 3/1A Civic Centre, IRC Village, Nayapalli, Bhubaneswar 751015 on the basis of the Tender Document, the Tender of the successful bidder, the letter of acceptance and such other terms and conditions as may be determined by the Bank to be necessary for the due performance of the work in accordance with the Bid and the acceptance thereof, with terms and conditions shall be contained in a Memorandum of Understanding to be signed at the time of execution of the Form of Contract.

20. USE OF CONTRACT DOCUMENTS AND INFORMATION

The supplier shall not, without the purchaser's prior written consent, make use of any document or information provided by Supplier in Bid document or otherwise except for purposes of performing contract.

21. ASSIGNMENT

The supplier shall not assign, in whole or in part, its obligations to perform under the contract, except with the Purchaser's prior written consent.

Letter of Undertaking (Covering Letter) on Company Letter head

To,

The Deputy General Manager,
 Union Bank of India,
 Regional Office,
 3/1A Civic Centre
 IRC Village, Nayapalli,
 Bhubaneswar 751015

Sir,

Reg.: Our bid for Empanelment of technically eligible vendors for Supply, Commissioning, Installation, Testing, Configuration and Maintenance of UPS and Batteries.

Having examined the above RFP document and Annexures, we hereby submit our offer to empanel our company to supply, test, install and maintain UPSs in conformity with the said EOI.

If our offer is accepted, we undertake to supply, test, install and maintain UPS to the Bank during the period of empanelment.

We accept all Instructions and Terms & Conditions of the subject EOI .We agree to abide by and fulfill all the terms and conditions of the EOI

We enclose all documents as per the Check List of EOI

We confirm that we do not have any adverse records with any public sector banks regarding supply, installation and maintenance of UPS.

We confirm that we have not been blacklisted by any Govt Department or Public Sector Undertaking

If our Bid for the above job is accepted, we undertake to enter into and execute at our cost, when called upon by the purchaser to do so, a contract in the prescribed form. Unless and until a formal contract is prepared and executed, this bid together with your written acceptance thereof shall constitute a binding contract between us.

Our PAN number is

We are registered with GST and our GST registration number is:.....

We understand that

- You are not bound to accept all or any bid received by you, and you may reject all or any bid.
- You may accept or entrust the entire work to one vendor or divide the work to more than one vendor without assigning any reason or giving any explanation whatsoever.
- Vendor means the bidder who is decided and declared so after examination of Technical bids.

The names of shortlisted bidders, after the completion of technical evaluation, to whom the contract is finally awarded, shall be displayed on the Notice Board of the purchaser at Union Bank of India, Regional Office - Bhubaneswar, 3/1A Civic Centre, IRC Village, Nayapalli, Bhubaneswar 751015

We submit our Bid Document herewith.

Dated at _____ this _____ day of _____ 20__

Yours faithfully

For _____

Signature: _____

Name: _____

MINIMUM QUALIFICATION CRITERIA FOR BIDDERS

The minimum qualification criteria for the bidders are as under: -

Pre Qualification Criteria	Compliance (Yes/No)	Detail of proof Attached
Should be in Designing, Manufacturing, Installation, and Maintenance Services of UPS System of various ratings(OEM)		
The Applicant should be a company registered in India under the Indian Companies Act of 1956		
Should have ISO 9001 Certification		
Annual Turnover in UPS Business for the last three years should be minimum Rs.3 Crores for each year		
The company should be making profit during the last three years.		
Should be in the empanelled list of at least two Public Sector Banks		
Should not have any adverse records with other banks or our bank		
Should not have been blacklisted by any Govt Department or Public Sector Undertaking		
Should be registered with respective Tax Authorities		

Signature

Seal of the Company

BIDDERS INFORMATION

- a) **Name of bidder** _____
- b) **Constitution** _____
- c) **Address** _____

- d) **Contact Person(s)** _____
- e) **Telephone, Fax, e-mail** _____
- f) **Number of years of experience in UPS and Batteries business** _____

- g) **Category for which applying for Empanelment in our Bank out of following items:** (Please mention (Yes /No) against each item)

Sr. No.	Category / Item	Applying for empanelment for supply of following items (Please mention YES /NO for each item)
1	UPS	
2	Batteries	

- h) **Please give brief financial particulars of your firm for the last 3 years along with the volume of business handled.**

(The information will be kept confidential)

Year	2019-20	2020-21	2021-22
Net Profit			
Total Turnover			
Revenue earned from UPS Sales Batteries Sales			

- i) **Is company ISO 9001 Certified? If yes, provide information along with certified copy of certificate.**

Signature:
Seal of company

LIST OF APPLICANT'S MAJOR CUSTOMERS

Sl No.	Name & Postal Local Address of the Customer (Enclose valid license under Shops and establishment act)	Name, Designation, Telephone, Fax, e-mail address of the Contact Person (Customer)	Nature and Description Quantity of Goods ordered by the customer during last 3 years	Value of Goods ordered in last 3 years	Whether reference Letter enclosed *

*(Enclose necessary documentary proof)

COMPLIANCE STATEMENT DECLARATION

All Terms and Conditions including scope of work

We hereby undertake and agree to abide by all the terms and conditions stipulated by the Bank in this RFP including all addendum, corrigendum etc. (Any deviation may result in disqualification of bids).

Signature:
Seal of company

(If left blank it will be construed that there is no deviation from the specifications given above)

ANNEXURE VI

DETAILS OF SERVICE CENTRES IN BHUBANESWAR REGION (ODISHA STATE)

Sl No.	District	Whether Direct Service Support available(Yes/No), If Yes, please provide the address	Whether Service Support Through Franchisee available (Yes/No), If Yes, please provide the address

Signature of the Authorized Signatory with Date & Seal

TECHNICAL SPECIFICATION FOR UPS 2, 3 & 5 KVA (STANDALONE) WITH 4Hrs. BACKUP

Parameters	Technical specification	COMPLIED Y/N /Changes suggested
Technology & Topology	Fully Microprocessor with PWM technology with IGBTs with isolation transformer. Online Double conversion Type	
Input Source	Mains/Local Make DG Set (UPS should be compatible to take input from local DG Set)	
Active Power Factor Correction	In built design	
Input power factor	Better then 0.93	
Input Frequency Range	46-54 Hz	
Output power factor	VA at 0.7 power factor output	
Input (Voltage)	160 V to 290 V	
Output (Voltage)	230V +/- 5 % (both for load and supply variations)(Base Voltage adjustable)	
Frequency	50 Hz +/- 0.1% (Constant frequency Output)	
Waveform (Output)	Sine Wave form with TDH less than 3%	
Isolation Transformer	Inbuilt double coil wounded type	
Transient response	Less than 40 MS for 0 to 100% step load change.	
Minimum metering/	<ol style="list-style-type: none"> 1. Backup available (Time for which backup available say next 10 Min. 2. Battery low audio alarm. 3. Output OK indicator. 4. Input/ Output voltage meters. 5. Load Utilization Indicator 6. UPS on Mains/Battery 7. Output frequency 	
Inverter efficiency	Greater than 94%	
Size	As compact as possible. Pl. State size.	
UPS type	On line (to act as power conditioner as well as Backup)	
Inverter technology	Switch mode (PWM with IGBT SWITCHES)	
Battery charger	Current limited, maximum voltage equal to 2.33 V/Cell.	
Maximum charging Current	Vendor to specify (Not to exceed 10% of battery capacity)	
Back up desired	Quote for 1 hour / 4 hour Battery system should have full load for specific Period of 1 hr. /4 hr. of the 100% rated capacity.	
Nominal DC Bus of UPS	Vendor to specify.	
Battery type	SMF- Vendor have to supply & install at least AH rating batteries for 1,2, & 3 KVA UPS and min. 40 AH batteries for 5 KVA UPS	
Battery make (All Make mandatory to quote)	<ol style="list-style-type: none"> 1. Panasonic 2. EXIDE 3. Amar Raja 4. UPS OEM own make 	
Overload capacity (1 hrs)	110% for 60 min. 125% for 10 min. 150% for 1 min	
Overload capacity (4 hrs)	110% for 60 min. 125% for 10 min. 150% for 1 min	

Noise level	<60db at 1 Meter	
Protection	MCB, Fast acting Fuse, Electronic Overvoltage, under voltage, short circuit, Battery under voltage protection	
UPS Warranty Period	Minimum 3 years	
Battery Warranty Period	4 year for Tubular Batteries	
	2/3 year for SMF Batteries	

Minimum VAH Rating

Backup/VAH	2 KVA	3 KVA	5 KVA
4 hrs	12480	19200	31200

If required, all units supplied can be tested for the followings. Vendor has to make necessary arrangement for the same without any additional cost to Bank.

1. Bidder has to submit complete details of battery backup with AH calculation.
2. VAH rating of batteries for the above capacity can be tested at any time during the warranty period of 1 year.
3. UPS will be connected to full bulb load and operated with mains disconnected at any time during the warranty period of 3 years.
4. Duration of backup time of more than 55 minutes for one hour case, more than 220 minutes for 4 hour case.
5. Output voltage to be within 230 \pm 5% during the above backup time.

We undertake to supply the UPS systems conforming to above specifications.

Authorised Signatory
Seal of Company

TECHNICAL SPECIFICATION FOR UPS 7.5-10-15-20-30 KVA (STANDALONE) WITH 4Hr. BACKUP

Parameters	Technical specification	Changes suggested
Technology	Advance fully Microprocessor with PWM Technology with IGBTs. Double online conversion	
Topology	Online Double conversion Type	
Input Source	Mains/Local Make DG Set	
Input power factor	>0.93	
Input Frequency Range	46-54Hz	
Output Power	VA at 0.7 power factor	
Input (Voltage)	3 phase for 7.5-10-15-20-30 KVA. - 415+/- 25% three phase.	
Output (Voltage)	230V +/- 5 % (both for load and supply variations)(Base Voltage adjustable)	
Active Power Factor Correction	Inbuilt Design	
Frequency	50 Hz +/- 0.1% (Constant frequency Output)	
Waveform (Output)	Sine wave form with TDH less than 3%) Liner load)/ <5% (non linear load)	
Isolation	Inbuilt Galvanic Double wound Type.	
Minimum metering	1. Backup available (Time for which backup available say next 10 Min. 2. Battery low audio alarm. 3. Output OK indicator. 4. Input/ Output voltage mete 5. Load Utilization Indicator 6) UPS on Mains/Battery 6. Frequency	
Inverter efficiency	Greater than 94%	
Crest Factor	3:1	
Noise Level	<60DB at 1 Meter	
Protection	MCB, Fast acting, Fuse, Electronic Over voltage, under voltage. Battery under voltage protection	
Size	As compact as possible. Pl. State size	
UPS type	On line (to act as power conditioner as well as Backup)	
Inverter technology	Switch mode (PWM with IGBT SWITCHES)	
Battery charger	Current limited, maximum voltage equal to 2.33 V/Cell.	
Maximum charging Current	Vendor to specify (Not to exceed 10% of battery capacity)	
Back up desired	Quote for 1hour/ 4 hour Battery system should have full load for specific Period of 1 hr. /4 hr. of the 100% rated capacity.	
Battery type	SMF	
Overload capacity (1 hrs)	110% for 60 min. 125% for 10 min. 150% for 1 min	

Overload capacity (4 hrs)	110% for 60 min. 125% for 10 min. 150% for 1 min	
Battery make (All Make mandatory to quote)	1. Panasonic 2.EXIDE 3. Amar Raja 4. UPS OEM own make	
Warranty on UPS	3 years on site comprehensive warranty from the date of installation	
Warranty on Batteries	4 year for Tubular Batteries	
	2/3 year for SMF Batteries	

Minimum VAH Rating 1- 4 hr Backup

Backup/VAH	7.5KVA	10 KVA	15 KVA	20 KVA	30 KVA
4 hrs	48000	62400	96000	124800	192000

1. Bidder has to submit the complete details of backup with complete AH calculation
2. VAH rating of batteries for the above capacity can be tested at any time during the period of 2 years from the date of purchase of UPS.
3. UPS will be connected to a full bulb load and operated with mains disconnected at any time during a period of 3 years from the date of purchase.
4. Duration of back up time of more than 55 minutes for one hour case, more than 220 minutes for 4 hour case.
5. Output voltage to be within 230 +/- 5% during the above back up time.
6. The approved vendor has to supply & install the batteries 40 AH rating or above for 7.5 to 30 KVA UPS.

We undertake to supply the UPS systems conforming to above specifications.

Authorized Signatory
Seal of Company