

**STATE BANK OF INDIA**  
**LHO,POOJAPPURA,THIRUVANANTHAPURAM**

INVITES TENDERS IN A TWO BID THROUGH WITH REVERSE AUCTION.

FOR

UPS RATE CONTRACT OFFER FOR OFFICES AND BRANCHES IN KERALA  
AND UNION TERRITORIES OF MAHE AND LAKSHWADWEEP THROUGH E-  
PROCUREMENT ( REVERSE AUCTION)

Pre bid Meeting: 3.00 P.M. (IST) on 17/09/2021

Last date for submission of Tender: 3.00 P.M. (IST) on 27/09/2021

Opening of Technical bid: 04:00 P.M. (IST) on 27/09/2021

(Name & Address of Contractors)

NIT NO:**THI/LHO/2021/019**

**The Assistant General Manager,**  
**Premises & Estate.**  
**4<sup>th</sup> Floor, SBI LHO Building,**  
**Poojappura,**  
**Thiruvananthapuram**

Tenders are invited by State Bank of India for UPS rate contract from the empanelled **Original Equipment Manufacturers with SBI Thiruvananthapuram Circle and having service facilities at various district of Kerala state and UT of Lakshadweep, Mahe for the supply & installation of various capacities of UPS to our branches and offices of SBI in Kerala. The applicants who satisfies in Technical criteria will only be considered for finalization and opening of price bid**

1	Date of download of tender documents from Bank's web site <a href="http://www.sbi.co.in">http://www.sbi.co.in</a> under "procurement news".	From 10/09/2021 to 27/09/2021.
2	Last date and time for submission of technical bid and indicative price bid	Date: 27/09/2021 by 3:00 P.M
3	Technical bid and indicative price bid to be submitted at:	Technical bid and indicative price bid should be submitted physically at Premises & Estate, 4th Floor, SBI LHO Building, Poojappura, Thiruvananthapuram - 695012 before 27/09/21 by 3.00 P.M. Contact: Assistant General Manager 0471-2192410/2192402/2192435
4	Date and Time of opening of Tenders: (Technical Bid)	Date: 27/09/2021 at 4.00 P. M. (IST) at above office address. Representatives of Bidder may be present during opening of Technical Bids. However Bids would be opened even in the absence of any or all the bidder's representatives. Sealed bid of technically qualified will be opened by the committee for fixing start price prior to reverse auction. The date of reverse auction will be intimated to qualified vendor by the SBI.
5	Pre bid Meeting	17/09/21 by 3.00 P.M.
6	Validity of Rate contract	One year from the date of rate approval
7	Agency for arranging online bidding.	M/S E-procurement Technologies limited, Ahmedabad. E-tendering guidelines may be obtained from M/S E-procurement Technologies limited for shortlisted vendors Phone: (+91) 635 491 9566   079 6813 6856

The SBI reserves the right to accept or reject any or all the tenders without assigning any reason whatsoever.

Note : All the pages of the Tender document shall be sealed and signed by the Contractor

\* - In case the date of opening of tenders is declared as a holiday, the tenders will be opened on the next working day at the same time.

On the date specified for opening of Tender, only the Technical Bids will be opened. Price bidding of the eligible tenderers after processing their details listed above will be carried through e-procurement technologies ltd. Price bidding is through reverse auction.

In case L1 vendor fails to deliver the required quantity the Bank has the right to order the same through the L2 & L3 vendors at the L1 price in the ratio of 50:50.

Please read the 'INSTRUCTIONS TO TENDERERS' thoroughly before submitting the Tenders. Also note to verify the Bank web-site under 'Tender Notices' before the last date and confirm that 'CORRIGENDA' to the Tender Notices issued (if any) has been read and / or complied with.

## INSTRUCTIONS TO TENDERERS.

1.This tender is for the “UPS RATE CONTRACT FOR OFFICES AND BRANCHES IN KERALA AND UNION TERRITORIES OF MAHE AND LAKSHWADWEEP THROUGH E-PROCUREMENT”. It is a Two Bid containing Technical bid and Price Bid. Scope includes Supply, Installation and commissioning of UPS systems and providing Technical support during breakdowns under warranty period and through Comprehensive Annual Maintenance contract for both UPS and batteries.

Tenders with incomplete or broken seals are liable to be rejected, the matter solely resting at the discretion of the EMPLOYER. If a Contractor does not quote for one or more items, the Tender will be considered as incomplete and will be rejected.

2.Clients reserve to itself the right to accept or reject any tender without assigning any reason for doing so and does not bind itself to accept the lowest or any other tender. If at any stage the information furnished by the applicant is found to be incorrect at a later stage; he shall be liable to be debarred from participating in the future tender and bid submitted/accepted will be cancelled. The State Bank of India will not enter into any correspondence with tenderer except seek clarification when necessary.

3.Bank is not responsible for the late receipt due to postal delay, strikes or any other reasons. The incomplete application is liable to be rejected summarily.

4. The decision of the State Bank of India to accept or reject any application for pre-qualification will be final.

5. If the L1 vendor does not adhere to tender terms and conditions in execution of the contract after the award of work, such L1 vendor shall be blacklisted from participating in future tenders.

5. If any vendor does not adhere to tender terms and conditions during the tendering process before the award of work, such vendors shall be debarred from participating in future tenders for two years.

6. General Specifications are for guidance only.

7. Employer or Client shall mean **Assistant General Manager,,** State Bank of India ,LHO Poojapura, Thiruvananthapuram.

8. The tender is to be submitted in two separate sealed covers marked I & II, the cover (I) containing the Technical bid and supporting documents. There should not be any mention about the price in any manner in cover I, Cover No. II should contain the

Indicative price bid as per the BOQ. Cover I should be super scribed as ( Technical Bid) and cover II as (Indicative price Bid) respectively. All pages should be properly tied and tagged in its order for easy identification during scrutiny. Full address with phone no. of the tender should be written on the sealed covers

9. There should be no reference in any paper in cover - 1, to the rates or amount quoted by the tenderer in the tender. No deviations from the tender are acceptable.

10. The tenderers must use only the form issued by the SBI to provide the Indicative price bid. The Bills of quantities are liable to alternations by omission, deduction or addition at the discretion of the SBI.

11.The Start price and decrement value will be fixed by the Bank .The price bids (Indicative bids) submitted by the vendors will be opened in presence of committee before reverse auction for fixing the start price. At the end of reverse auction process, the lowest Bidder (L1) will be selected on the basis of Total Price, including taxes, as mentioned in the Reverse Auction format in Annexure -D.

#### Bidding Example:

12.The final rates of the items will have to be calculated in ratio of total amount quoted by the lowest bidder through reverse auction process and the amount quoted in indicative price bid.

Example:

Indicative Price Bid submitted by vendor:

Item	Rate (R)	Qty.	Amount
A	100	2	200/-
B	200	3	600/-
C	300	4	1200/-
Total amount in Indicative Price bid			2000/-

The total amount mentioned in indicative price bid is Rs.2, 000/- but the final L-1 amount quoted by the vendor through E-reverse auction is Rs.1, 600/- then the K factor for L-1 vendor will be calculated as under:

Ratio K = (Total amount quoted by the lowest bidder through reverse auction process) / (The amount quoted in indicative price bid).

$$K = 1600 / 2000 = 0.8$$

The item wise final price to be confirmed by the vendor shall be as under:

Item	Final Rate= K*(R)	Qty.	Amount
A	100X0.8	2	160/-
B	200X0.8	3	480/-
C	300X0.8	4	960/-
Total amount worked out after e-reverse Auction			1600/-

13) The L1 tenderer should submit the detailed break up as per the BOQ format within 24 hours of the reverse auction. The price breakup should contain not only the rates but also the value of each item of work entered in a separate column and all the items as per the Banks BOQ format totaled up in order to show the L1 aggregate value of the amount. Please note that you have to quote for the individual items mentioned in the tender. L1 vendor, immediately on completion of the reverse auction activity, has to provide the unit-wise prices of all the items in the tender. These prices will be advised to all our offices in Kerala. Orders will be placed by the respective branches/ Administrative Units for individual items to the L1 vendor. The items are to be supplied to the branches/offices spread over Kerala and Lakshadweep. Bank reserves the right to make any changes in the list of locations. Successful vendors should be prepared to supply additional quantities of the UPS as and when orders are placed during the validity period of the tender. The cost shall be quoted separately for different ratings and different back up times for 2KVA, 3KVA 5KVA, 7.5KVA, 10KVA, 15KVA, 25KVA UPS SYSTEMS with, 1hour backup, 2 hour backup.

Note: For both Conventional and PRS configuration from 3KVA onwards TUBULAR BATTERIES of 6EL type, C10 rating and for 2KVA UPS SMF batteries, C20rating of approved makes shall be used.

For UPS from 3KVA onwards, the cost should include comprehensive AMC charges for UPS and Tubular Batteries for 3years after one year warranty Period for UPS. Batteries to cover a warranty of four years from the date of Installation for Tubular and two years for SMF from the date of installation. For 2KVA UPS, the cost for the UPS systems should include comprehensive AMC charges for UPS for 3years after one year warranty Period for UPS. For SMF batteries – Panasonic, Exide Power safe, Rocket, Amar Raja, U-PLUS, H.B.L., Numeric, Hitachi, CSB and Newmax make SMF batteries

14) All pages of the tender document shall be signed by authorized signatory and stamped. All Corrections shall be duly signed and stamped. Bids received after the above date/time will not be considered.

15) Please quote separately for each of items according to the Technical specifications in the format given below.

For UPS ranging from 1KVA to 5KVA use **Annexure “B-I”**

For UPS ranging from 6KVA to 25KVA use **Annexure “B-II”**

Tenders quoting lesser VAH than the specified shall be rejected. However,

Tenderers quoting Higher VAH over and above our specification/requirement will not be given additional cost/weightage.

16) Bank reserves the right to reject the offer without assigning reason or what so ever.

17) Please enclose your list of service centers with addresses, telephone numbers with Contact persons in Kerala.

18) The requirement of UPS may be at any of our Branches/LHO/Administrative Offices/Regional Business Offices at different locations all over Kerala.

19) The UPS system shall conform to the Bank's standard specifications supplied with this notice and any deviation will be suitably penalized. Conditional tenders are not acceptable. In case of any deviation, a separate detailed deviation statement may be enclosed. If no deviation statement is enclosed, then it will be deemed that the tenderer has accepted all our terms and conditions and the rates quoted accordingly.

20. The UPS systems will be tested individually by any of the agencies like ETDC/ERTL/CPRI/ERDA Vadodara/SAMEER/IITs/NITs/Reputed Engineering Colleges/S.V university, Tirupati/JNTU, Hyderabad/National research & Technology Consortium, Parwanoo(H.P)/Regional Testing center (E.R),GOI, Kolkata and satisfactory test certificates submitted along with the UPS system. Test required for UPS are mentioned in Annexure- D. No payments shall be released unless the satisfactory test certificates are produced. Bank reserves the right to depute its officials to witness during test of UPS. While testing, if the actual overall efficiency is found to be less than the specified overall efficiency, then the system will be rejected and replacement passing the test shall be supplied.

21. Whenever interstate movement of UPS is involved, the compliance and completion of statutory formalities including matters relating to transport or other access or tax and delivery of UPS at the bank specified premises it is at the sole responsibility of and at the cost of vendor only. In case any document is to be signed for the purpose, the same may be obtained by the vendors representative from the specified office/branch of the bank and the same will be signed and returned by the bank after due verification.

22. If any vendor offers any components/parts/equipment's of higher capacity than that specified it will be considered as equivalent and no weight age will be given.

23. The indicative price bid shall be separately submitted as cover2 in sealed cover. The indicative price bid will be opened on the date of reverse auction and the same is only used for the fixing of start price. Failure to enclose any / all of the necessary documents and to submit the tender in the required format etc., will disqualify the tender. Indicative

price bids shall be quoted with utmost care. No further changes in the quoted indicative price bid will be permitted even if the same is due to human error or any other reasons.

24. Bank reserves the right to ask the vendors to divert the ordered equipment for a particular site to a different location / city / site, if the situation so warrants.

25. The Applicant must have a valid digital certificate.



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## 1. TENDER FORM

### UPS RATE CONTRACT FOR OFFICES AND BRANCHES IN KERALA AND UNION TERRITORIES OF MAHE AND LAKSHWADWEEP THROUGH E-PROCUREMENT

Dear Sirs,

I/We the undersigned have carefully gone through and clearly understood after visiting the Tender documents comprising of the tender form, Notice to contractors, and Schedule of Probable quantities and Draft Agreement prepared by SBI.

I/We do hereby undertake to execute and complete the whole or part of the work (as desired by you) at the respective rates which/I/We have quoted for the respective items of the Probable Bill of Quantities.

In the event of this Tender being accepted I/We agree to enter into an agreement as and when required and execute the contract according to your form of Agreement, within 15 days of receipt of work order, in default thereof, I/We do hereby bind my-self/ourselves to forfeit the aforesaid initial security deposit.

I/We do hereby undertake to execute the rate contract at the respective rates and are agreeable to all the terms and conditions expressed by the Bank as per the tender.

I/We do hereby undertake to keep the rates valid for the period of one year from date of acceptance of your offer.

I/We do hereby undertake to supply as per specifications of the Bank and to maintain the units as mentioned in the 'technical bid'.

I/We do hereby undertake to supply more quantities than indicated in this tender in case of need at any point of time, during period of contract

I/We do hereby undertake to provide maintenance and service to UPS after the warranty period through your technicians.

Yours faithfully,

Contractor's Signature

Address:

Date:

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## 2. NOTICE TO CONTRACTOR

### UPS RATE CONTRACT FOR OFFICES AND BRANCHES IN KERALA AND UNION TERRITORIES OF MAHE AND LAKSHWADWEEP THROUGH E-PROCUREMENT

Dear Sirs,

1. We have pleasure in inviting you to tender for the aforesaid work.

The scope of work broadly as given below is for UPS RATE CONTRACT FOR OFFICES AND BRANCHES IN KERALA AND UNION TERRITORIES OF MAHE AND LAKSHWADWEEP THROUGH E-PROCUREMENT

2. The tenderer must obtain for himself, on his own responsibility and at his own expenses, all the information which may be necessary for the purpose of filling this tender and for entering into a contract for the execution of the same and must inspect the site of the work and acquaint himself with all local conditions and matters pertaining thereto.
3. The technical bid will be evaluated first and shortlisted vendors in prima face have to give presentation and demonstrate the models quoted in front of the committee members at the venue and date specified by the SBI after the technical bid opening. The same will be intimated to all participants. The Technically qualified vendors/applicants are allowed to participate in the reverse auction. Bank reserves the right not to allow any vendor, for participating in the reverse auction, based on their response in the technical bid. The date and time for reverse auction will be intimated to shortlisted vendors subsequently. Your offer should be valid for one year from the date of acceptance of the offer by the Bank.
4. For necessary guidance/training of eligible tenderers on the bidding process, the eligible tenderers have to get in touch with M/s E-Procurement Technologies Ltd (Contact Person: (+91) 635 491 9566 | 079 6813 6856. For any additional information/clarification relating to configuration, vendors may contact SBI, LHO, Thiruvananthapuram (Contact Person: Electrical Engineer – 0471-2192410/2192402).
5. Total rate for each item will be arrived considering all the sub components under each item inclusive of warranty.
6. All pages of the tender document shall be signed by authorized signatory and stamped. All Corrections shall be duly signed and stamped. Bids received after the above date/time will not be considered.
7. Each of the tender documents page is required to be signed by the person or persons submitting the tender in token of his/their having acquainted himself/themselves with the General conditions etc., as laid down. Any tender with any of the documents not so signed will be rejected.

8. The tender documents must be filled in English and all the entries must be made by hand and written in ink. If any of the documents are missing or un-signed, the tender shall be considered invalid.
9. Please quote separately the model no for the respective luminaries as per Technical bid-1 and submit the catalogues for the same
10. Tenders quoting for lesser star rating other than the specified shall be rejected.
11. Whenever interstate movement of UPS of various ratings is involved, the compliance and completion of statutory formalities including matters relating to transport, loading, unloading, GST or other access or tax and delivery of UPS at the bank specified premises it is at the sole responsibility of and at the cost of vendor only. In case any document is to be signed for the purpose, the same may be obtained by the vendors representative from the specified office/branch of the bank and the same will be signed and returned by the bank after due verification.
12. Failure to enclose any / all of the necessary documents and to submit the tender in the required format etc. will disqualify the tender.
13. Bank reserves the right to ask the vendors to divert the ordered equipment for a particular site to a different location / city / site, if the situation so warrants.
14. Indicative price bids shall be submitted in separate sealed covers. The indicative price bids of technically qualified vendors will only be opened for arriving the start price of the auction by tender opening committee.
15. The tenderer must use only the form issued by the Bank to provide the Indicative price bid.
16. The Start price and decrement value will be fixed by the Bank. At the end of reverse auction process, the lowest Bidder (L1) will be selected on the basis of Total Price, including taxes, as mentioned in the Reverse Auction format in Annexure -C
17. The rate should be inclusive of all duties, taxes, transport, transit insurance, loading-unloading etc. No increase in the above is acceptable to the Bank. The rates shall be firm throughout the execution of the order. No variation in the quoted rates subsequently will be allowed and no additional claims other than quoted rates will be entertained.
18. Payment will be made at LHO/RBO/AO for its respective procurement after supply of materials at site.
19.
  - i) No advance is payable.
  - ii) On receipt of complete materials at site with satisfactory test reports installation, Testing and commissioning 97% of cost will be paid. An undertaking is also to be submitted towards CAMC after warranty period.
  - iii) The balance of 3% of cost will be treated as Retention money deposit which will be released after the defect liability period of one year from the date of

Commissioning the system.

iv) Retention money will be released on producing a Bank guarantee for an equal sum valid until the expiry of the defect liability period. However, where delivery has been made but installation, testing commissioning could not be carried out due to the site not ready/clear 80% of cost will be paid.

v) Further, 17% will be paid on completion of installation, testing and commissioning.

20. Delivery and Installation schedule from the time of placing the order unless specified. For 5KVA, UPS along with the Batteries should be installed within 3 weeks from the date of confirmed purchase order and for UPS from 6 to 20KVA, 4 weeks from the date of confirmed purchase order. For 2 and 3 KVA UPS, the supply and installation should be completed within 2 weeks time.
21. Capacity and serial No's of UPS should be written on the UPS by paint. Date of installation, warranty and name of the supplier with phone no should be written on the UPS as well as on each battery.
22. Liquidated damages for delay in supply & Completion: If the delivery is not done within the stipulated time period, a penalty of ½ % of the contracted value per week subject to a Ceiling of 5% of contract value will be levied to the UPS Supplier.
23. Guarantee/Defect Liability Period: All UPS should carry a minimum warranty of one year from the date of installation or 18 months from the date of delivery whichever is earlier. Tubular Batteries should carry a minimum warranty of Four years from the date of installation or 54 months from the date of delivery whichever is earlier. On Site Warranty should include free repair/replacement of batteries and UPS during the warranty period.
24. Earnest Money Deposit (EMD): NIL
25. **Agreement on stamp paper: The successful tenderer should enter into formal agreement with Bank on stamp paper worth Rs.200/- (at successful tenderer's cost) as per the standard format issued by the Bank.**
26. Date of supply, warranty and address of the supplier with phone no. shall be written on the UPS by black/white paint.
27. The quantities mentioned in the tender schedule are tentative and it can change while placing the order as per the actual requirement then.
28. UPS if got damaged during the transportation must be replaced with new one within 48 hrs.
29. UPS vendor shall provide stand by arrangement for supporting the existing Systems in case of failure of the UPS under warranty/ AMC contract and also during delay in the delivery of new systems as per the tender terms.

**ASSISTANT GENERAL MANAGER (SBI)**

Date:

Accepted/Not accepted

Place:

Applicant's Signature and stamp

**Annexure - A**  
SBI, Thiruvananthapuram Circle  
Purchase of UPS for our Offices

**Technical Bid (PAGE 1)**

**DETAILS OF THE FIRM**

1.	Name of the Firm	
2.	Full address for correspondence with pincode	
3.	Name of the contact Person	
4.	Designation of the contact person	
5.	Telephone nos. including Mobile no.	
6.	Fax No.	
7.	E-mail Id	
8.	Year of Establishment of the firm	
9.	Whether individual, partnership or company	
10.	PAN no of company	
11.	GST no of the company	
12.	ISO certification	
13.	Name of Partners/Associates/Directors.	
14.	Bio-data of Partners/Associates/Directors. Bio-data to be given	
15.	List of Service Center with address and Contact details of Service Personnel employed in service center in kerala as per format mentioned below	
16.	Escalation matrix of the company	
17.	Banker's Name	

NOTE: Separate sheets, documents, etc. in support of above can be enclosed.

**Date:**

**Signature of authorized signatory with seal**

**Place:**

**OTHER RELEVANT INFORMATION**

Sr.N o	Service center with address	Details of Technical staff				
		Name	Designation	Contact Details	Qualification	Experience and year with the firm



(Invariably respond to all the following parameters/aspects. Do not delete or add any parameter from/to this list.)

SNo	Parameter	Your Response
1	Whether agreeable to all the terms and conditions expressed by the Bank?	Yes / No
2	Whether agreeable to the payment norms and warranty norms of the Bank?	Yes / No
3	Whether agreeable to supply and install as per the Bank's standard specification and maintain the units?	Yes / No
4	Whether giving comprehensive warranty for 12 months from date of installation or 18 months from date of delivery whichever is earlier?	Yes / No
5	Whether agreeable to supply as per specifications of the Bank as mentioned in the 'technical bid'.	Yes / No
6	Whether agreeable to furnish list of all the service network in Kerala with contact numbers/persons for the same	Yes / No
7	Whether agreeable to change of delivery place in case of need at any point of time, before actual delivery	Yes / No
8	Whether agreeable to supply more quantities than indicated in this tender in case of need at any point of time, during period of contract	Yes / No
9	Whether agreeable to maintain the UPS system and batteries for 3 years under AMC after the warranty period as per the rates quoted.	Yes / No
10	Whether agreeable to keep the UPS rates valid for one year from the date of approval of rates.	Yes / No

We have read and understood all the terms and conditions stipulated by the Bank for all categories of equipment and do hereby agree to each and every item indicated therein. We agree to abide by the Proposal and the rates quoted therein for the contract awarded by the Bank. Until a formal contract is prepared and executed, this Proposal, together with your written acceptance thereof and your notification of award, shall constitute a binding Contract between us. We understand that State Bank of India reserves the right to accept or reject any or all bids without assigning any reason whatsoever thereof.

Dated this \_\_\_\_ day of \_\_\_\_\_ 2021.

The battery configurations for our UPS Systems are as under:

**Technical Bid (Page 2)**

S.No	UPS	DC Voltage	AH Capacity	Battery Nos	Total VAH	Make
1	2KVA-1HR (Single phase in – Single phase out)					
2	2KVA-2HR (Single phase in – Single phase out)					
3	2KVA-3HR (Single phase in – Single phase out)					
4	3KVA-1HR (Single phase in – Single phase out)					
5	3KVA-2HR (Single phase in – Single phase out)					
6	5KVA-1HR (Three phase in – Single phase out)					
7	5KVA-2HR (Three phase in – single phase out)					
8	5KVA-1HR (Single phase in – Single phase out)					
9	5KVA-2HR (Single phase in – Single phase out)					
10	7.5KVA-1HR (Three phase in - Single phase out)					
11	7.5KVA-2HR (Three phase in - Single phase out)					
12	10KVA-1 HR (Three phase in - Single phase out)					
13	10KVA-2HR (Three phase in - single phase out)					
14	15KVA-1HR (Three phase in - single phase out)					

Technical Bid (Page 3)						
15	15KVA-2HR (Three phase in - single phase out)					
16	25KVA-1HR (Three phase in - single phase out)					
17	25KVA-2HR(Three phase in -Single phase out)					

FOR PRS CONFIGURATION

S.No	UPS	DC Voltage	AH Capacity	Battery Nos	Total VAH	Make
1	2x 5KVA-1HR					
2	2x 5KVA-2HR					
3	2x 7.5KVA-1HR					
4	2x7.5KVA-2HR					
5	2 x 10KVA-1 HR					
6	2 x10KVA-2HR					
7	2 x 15KVA-1HR					
8	2 x 15KVA-2HR					
9	2 x 25KVA-1HR					
10	2 x 25KVA-2HR					

Details mentioned on the Technical bid 2,3 shall be duly filled and signed by the applicant.

Place :

Stamp

## ANNEXURE “B-I”

### **a. Typical Technical Specifications for on-line UPS systems of 1 KVA to 5 KVA**

1.	Technology	UPS systems with pulse width modulation (PWM) technology in True On-line Configuration, with double conversion using IGBTs in the Inverter and converter having pure sine wave output with load power factor to be maintained from 0.95 to unity. The UPS must have cold start facility without break.			
2.	Configuration	i) Conventional Single Module ii) PRS - The UPS systems must share the load equally and must auto transfer the load in case of failure of any one of the system. Interconnecting module must be inbuilt in the UPS module			
3.	Inversion Technique	Adaptive pulse width modulation or sine weighted pulse width modulation with high switching frequency (> 12 KHZ for IGBTs).			
4.	Input Voltage Range	(i) Single Phase 240 Volts +15% and -30%. (ii) Three Phase 415 Volts ± 15% (only for 5 KVA UPS item no 5 & 6 of conventional) There should be input to output isolation through a in-built Isolation transformer. Galvanic isolation is required. MCB with alarm. UPS to be safe in case of high voltage/high current/high spike/high surges at input to UPS.			
5.	Input frequency	45 Hz to 55 Hz and it should be compatible with D G Set.			
6.	Output voltage	220 / 230 V.A.C. ± 1% MCB with alarm. Load connected to UPS should be protected under any Circumstance.			
7.	Output frequency	50 Hz +/- 4% (Synchronous to mains) 50 Hz +/- 1% (Free running)			
8.	Power factor	<b>The UPS shall be provided with Auto input P.F. correction system to obtain P.F. 0.95 to unity when the connected load P.F. varies from 0.6 to unity.</b>			
9.	Total Harmonic Distortion (o/p voltage)	<2 % for Linear load < 4% for non-linear load			
10.	Harmonic Distortion (Input current)	≤ 5% at 100% load.			
11.	Total DC Bus Voltage	≥ 120V DC for above 3KVA                    ≥ 96V for 2 & 3KVA			
12.	Waveform (output)	Sine Wave			
13.	Cold start feature	Required			
14.	Overload capacity	110% for 10 minutes 150% for 1 minute	During the test or in actual condition, the load should not get transferred to mains through static switch.		
15.	Transient response and voltage recovery time for step load	For 100% Step load i.e. from full load to no load and no load to full load ∴ Dip < 3%, Peak < 3% with recovery time within 3 cycles to normal output voltage.			
16.	Efficiency: It is the ratio of output power in KW of UPS to the input power to the isolation transformer & UPS with battery disconnected, or, battery charging power added to the output.		Overall Efficiency at % load		
			At 100% i.e full load	At 66%	At 33% load
		1 and 2 KVA	85	82	80
		3 & 5 KVA	88	86	84
		<b>Penalty for lower efficiency:</b> If the overall efficiency is found to be less than the Bank's specified value, the UPS is to be rejected and replacement passing the test to be obtained. No further tolerance is permissible.			

17.	Rated KVA	The UPS should be capable to deliver rated KVA at 0.8 P.F. i.e 5 KVA UPS should be capable to deliver 4 KW load at 0.8 P.F.
18.	Operating Temperature	should be designed for delivering rated KVA at ambient temperature from 0 to 40 Degree Celsius. It should also be capable to deliver approx. 80% of rated output at 50 degree Celsius ambient temperature.
19.	Relative Humidity	Up to 95% non condensing at 35 degree Celsius..
20.	Noise level	At 1 meter from the UPS. ≤ 50 decibels (On demand Proto-type test certificate be submitted).
21.	Charger	Built in IGBT based solid state float-cum-boost charger with CVCC charger with current limiting features. The charger characteristics will be such as to match the offered with each UPS. The charger should be designed for minimum 2 hours back up period. <b>2KVA UPS must have double charger circuit</b>
22.	Crest factor	>3
23.	Interface facility	The UPS system should have necessary RS-232/ Port, USB Port. (SNMP may be asked if required at site).
24.	Protection	a). Isolation – Separate/ In-built isolation transformer shall be provided for fully isolation from mains and surge / spike suppressors to be incorporated. b). Current limiting protection (Fuse less Electronic). Built in overload / short circuit protection with snubber circuits for current limit. c). Soft start on Inverter and charger arrangement d). Over voltage / under voltage protection. e). Short circuit protection through HRC fuses f). Short circuit / overload protection through MCB / MCCB. g) All other protection systems required for safety of UPS system, such as over temperature protection etc.
25 (i)	Static Auto bye-pass switch thyristor based for 3 KVA & 5 KVA UPS systems	Bi directional with change over time less than 10 mill seconds in free running mode and instantaneous in synchronous mode from inverter to bye-pass and vice-versa.ie without break
25 (ii)	. Manual by-pass switch	Should be provided.
26.	Indications	LED/LCD display to be provided mains on, Battery on charge, Battery low, Inverter on, % load, on bye pass, over temperature etc. Mains High, Mains Low, Inverter over voltage, Inverter under voltage, Battery overcharge, Inverter overload/current etc.
27.	Alarm	i). Low battery alarm to be provided (ii) % load iii) mains failure / load on battery alarm to be provided. Both should be audio visual. iv) Over temperature alarm in two stages. v) Overload
28.	Metering	Digital panel Meter or LCD display system to indicate the following i). A.C. voltage : Input/ output ii). A.C. current : Input/output or % load iii). D.C. battery voltage iv). D.C. Charging / discharging current v). Frequency – Input/ Output
29.	Battery set	

	Battery set Tubular batteries :	i) maintainable but regular topping necessary ii) complete with stand iii) Make : Exide (6EL series),C10 rating
	SMF type	For 2KVA UPS, C20 rating of approved brands such as Panasonic, Exide Power safe, Rocket, Amar Raja, U-PLUS, H.B.L., Numeric, Hitachi, CSB and Newmax make SMF batteries
		The OEM must draw the inter connecting cables/wires between Battery and UPS through PVC pipes and shall not be laid haphazardly on the floor with proper clamping on to the wall.
30	Degree of protection	IP 20
31	Quality standard for UPS	ISO 9001:2008

Minimum VAH required as per details as under:

UPS Capacity (KVA)	Minimum VAH and Back up period required			
	60 Minutes	120 Minutes	240 Minutes	360 Minutes
2	3960	6648	13296	26592
3	5952	9960		
5	9912	16608		

	In the both cases, the UPS vendors to specify, the make of battery they propose to use, they have to submit detailed literature of battery and battery manufacturers capability etc.						
	S No.	UPS Rating	DC Voltage	Battery AH	Nos.	Total VAH	Make
	a) The back-up time at full load shall be <b>30 Minutes/ 60 Minutes/ 120 Minutes /240 Minutes/360 Minutes</b> <u>Note</u> ( strike out whichever is not applicable). b). Battery set details to be indicated by the supplier: i). D.C. Terminal voltage ii). No. of batteries and each battery voltage iii). Ampere-Hour capacity of each battery c). End cell voltage for cut off shall be considered as 1.75 / cell						

- 27      Testing :
- i). The supplier shall have facilities to carry out all the tests at factory will have to be satisfactorily carried out before acceptance. A list of tests prescribed are enclosed in Annexure-"D".
  - ii) If the UPS does not conform to specifications either during factory test or at site, the Bank reserves the right to reject the same. The successful tenderer shall then have to remove at no extra cost to the Bank the same at his cost from site and supply a new piece conforming to the specifications.

iii). The Bank reserves the right to randomly decide to carry out testing of a few UPS systems at site ( maximum say upto 10%) after installation at the cost of UPS vendor, who will be required to arrange for all the requisite variacs, maters, loads etc. and carry out the tests through vendor's personnel in the presence of Bank's Officials.

30. The rate shall include all interconnecting cables, UPS to Batteries, metallic and to Remote indication units etc. However, incoming and outgoing wiring will be arranged by Bank.

Place:

Applicant's Signature

Date:

Stamp:

## ANNEXURE 'B-II'

### **b. Technical Specifications for on-line UPS systems from 6 KVA to 25 KVA**

1.	Technology	<p>a) UPS systems with pulse width modulation (PWM) technology in True On-line Configuration, with double conversion using IGBTs in the Inverter and converter. Built in galvanic Isolation.</p> <p>b) Provision for configuring three or more UPS system in parallel load sharing mode. Maximum six nos UPS system can be connected in parallel configuration in one cluster.</p> <p>c) The requirement is for fully rated capacity of single module in parallel with similar module sharing the load having provision for adding one or two modules of similar units. Paralleling of UPS should be achieved by paralleling the output on the power side using control logic signal bus. Each UPS should be capable of individually starting, running and feeding to the load apart from parallel operation.</p> <ul style="list-style-type: none"> <li>Individual battery backup is necessary.</li> <li>Inverters should be synchronized with common by pass supply if required</li> <li>can be connected in parallel for forming N + 1 (Configuration)</li> </ul>	
2.	Inversion Technique	Adaptive pulse width modulation or sine weighted pulse width modulation with high switching frequency (> 12 KHZ for IGBTs).	
3.	Input Voltage Range	Three Phase 400 Volts $\pm$ 15% There should be input to output Isolation through an inbuilt/ separate Isolation transformer.	
4.	Input frequency	45 Hz to 55 Hz and it should be compatible with D G Set.	
5.	Output voltage	220 / 230 V.A.C. $\pm$ 1% single phase.	
6.	Output frequency	50 Hz +/- 4% (Synchronous to mains) 50 Hz +/- 1% (Free running)	
	Line low/High cut off	330 VAC to 478VAC	
	Total DC Voltage 7.5KVA 10KVA 25KVA	$\geq$ 180 V DC $\geq$ 180 V DC $\geq$ 240 V DC	
7.	Power factor	<b>The UPS shall be provided with Auto input P.F. correction system to obtain P.F. 0.95 to unity when the connected load P.F. varies from 0.6 to unity.</b>	
8.	Total Harmonic Distortion (o/p voltage)	< 4% for non-linear load	
9.	Total Harmonic Distortion (Input current)	$\leq$ 10% at 50% load. < 2 % for Linear Load < 5% at full load, Non Linear	
10	Waveform (output)	Sine Wave	
	Cold start feature	required	
11	Overload capacity	110% for 10 minutes 150% for 1 minute	During the test or actual condition, the load should not get transferred to mains through static switch.
12	Transient response and voltage recovery time for	For 100% Step load i.e. from full load to no load and no load to full load :.	



	step load	Dip < 3% Peak < 3% with recovery time within 3 cycles to normal output voltage.													
13	Efficiency: It is the ratio of output power in KW of UPS to the input power to the isolation transformer & UPS with battery disconnected, or, battery charging power added to the output. The overall efficiency is found to be less than the Bank's specified value, the UPS is to be rejected and replacement passing the test to be obtained. No further tolerance is permissible.	<table> <tr> <th></th><th colspan="3">Minimum overall Efficiency at % load</th></tr> <tr> <th></th><th>At 100% i.e full load</th><th>At 66%</th><th>At 33% load</th></tr> <tr> <td>6 KVA-20 KVA</td><td>90%</td><td>88%</td><td>86%</td></tr> </table> <p><b>Penalty for lower efficiency:</b> If the overall efficiency is found to be less than the Bank's specified value, the UPS is to be rejected and replacement passing the test to be obtained. No further tolerance is permissible.</p>		Minimum overall Efficiency at % load				At 100% i.e full load	At 66%	At 33% load	6 KVA-20 KVA	90%	88%	86%	
	Minimum overall Efficiency at % load														
	At 100% i.e full load	At 66%	At 33% load												
6 KVA-20 KVA	90%	88%	86%												
14	Rated KVA	The UPS should be capable to deliver rated KVA at 0.8 P.F. i.e 10 KVA UPS should be capable to deliver 8 KW load at 0.8 p.p. (output)													
15	Operating Temperature	should be designed for delivering rated KVA at ambient temperature from 0 to 40 Degree Celsius. It should also be capable to deliver approx. 80% of rated output at 50 degree Celsius ambient temperature.													
16	Relative Humidity	Upto 95% at 35 degree Celsius non-condensing													
17	Noise level	At 1 meter from the UPS. ≤ 50 decibels (On demand Proto-type test certificate be submitted).													
18	Charger  Battery recharge time( after complete discharge) to 100% charge -	Built in IGBT based solid state float-cum-boost charger with automatic boost/trickle charge modes with current limiting features. The charger characteristics shall be such as to match the float/boost charging of the batteries as per battery characteristic, for enhancing the life of batteries. The charger should be designed for 2 hours back up period at rated KVA  8 hours													
19	Crest factor	≥ 3													
20	Interface facility	The UPS system should have necessary hardware and software with RS-232 port to work on DOS/SCO Unix (open screen) Novell / Network/ Current & advanced window operating system. It should be compatible for connecting to Building Management System. (B) Remote manageability through SNMP facility. There is a facility to monitor and broad cast to server wherever necessary condition such as : i) Power failure, back up time, low battery warning & auto file closure. ii) The software should be capable of automatically closing the files (auto closure feature) in the server so that the data / program files on the server are not lost/ corrupted.													
21.	Remote Indication unit ( It may be asked if required at site)	In system/systems Administrator Room with indications like Mains on, Inverter ON / OFF / Faulty / Trip, Battery Low and static bypass ON. 25 meters inter connecting cable to be included in price quoted.													
22	Protection	a). Isolation – Separate/ In-built isolation transformer shall be provided for isolation transformer for fully isolation from mains and													

		<p>surge / spike suppressors to be incorporated. Both input and output to have MCBs. Battery connection to have MCB/MCCB/Switch.</p> <p>b). Current limiting protection (Fuse less Electronic). Built in overload / short circuit protection with snubber circuits for current limit.</p> <p>c). Soft start on Inverter and charger arrangement.</p> <p>*d). Phase locking mechanism for UPS and mains frequency- for 3 phase output.</p> <p>e). Over voltage / under voltage protection. MCB with Alarm. Load connected to the UPS should be protected under any circumstance.</p> <p>*f). Short circuit protection through HRC fuses (high speed) for devices such as IGBTs.</p> <p>g). Short circuit / overload protection through MCB / MCCB.</p> <p>h). All other protection systems required for safety of UPS system, such as over temperature protection etc.</p>
23	*I). Static (Auto) by-pass switch	Bi-directional with change over time less than 10 milliseconds in free running mode and instantaneous in synchronous mode from Inverter to by-pass and vice-versa. Should take care of 100% load transfer without break
	II). Manual by-pass switch	Should be provided.
24	Indications	<p>a). Mains ON with phase indication for single phase / 3 phase separately for all the phases.</p> <p>b). Inverter ON / OFF / FAULTY / TRIP (Reason)</p> <p>c). Battery Low</p> <p>d). Static by-pass ON</p> <p>e). Over temperature</p> <p>f). Earth Leakage</p>
25	Alarm	<p>i). Low battery alarm to be provided (ii) % load</p> <p>iii) Failure of inverter</p> <p>iv) mains failure / load on battery alarm to be provided. Both should be audio visual.</p> <p>v) Over temperature alarm in two stages</p> <p>1<sup>st</sup> stage : Warning, intermittent audio alarm</p> <p>2<sup>nd</sup> stage : Tripping, continuous audio visual and resettable.</p>
26	Metering	<p>Digital panel Meter or LCD display system to indicate the following</p> <p>i). A.C. voltage : Input/ output</p> <p>ii). A.C. current : Input/output or % load</p> <p>iii). D.C. battery voltage</p> <p>iv). D.C. Charging / discharging current</p> <p>v). Frequency – Input/ Output</p>
27	Battery set	i) Complete with self standing cubicle or cabinet
	B) Battery set Tubular batteries : (ventilated room with exhaust fan is required)	<p>i) maintainable but regular topping necessary</p> <p>ii) complete with stand</p> <p>iii) Make : Exide 6EL,C10 .</p>
		The OEM must draw the inter connecting cables/wires between Battery and UPS through PVC pipes and shall not be laid haphazardly on the floor with proper clamping on to the wall.

Degree of protection	IP 20
Quality standard for UPS	ISO 9001:2008

Minimum VAH required as per details as under:

UPS Capacity (KVA)	VAH required	
	60 Minutes	120 Minutes
7.5	14868	24912
10	19824	33216
15	29732	49824
25	49553	83040

In the both cases, the UPS vendors to specify, the make of battery they propose to use, they have to submit detailed literature of battery and battery manufacturers capability etc.						
Sr No.	UPS Rating	DC Voltage	Battery AH	Nos.	Total VAH	Make
a) The back-up time at full load shall be <b>30 Minutes/ 60 Minutes/ 120 Minutes</b> <u>Note</u> ( strike out whichever is not applicable). b). Battery set details to be indicated by the supplier: i). D.C. Terminal voltage ii). No. of batteries and each battery voltage iii). Ampere-Hour capacity of each battery c). End cell voltage for cut off shall be considered as 1.75 / cell						

27 Testing : i). The supplier shall have facilities to carry out all the tests at factory center, and tests will have to be satisfactorily carried out before acceptance. A list of tests prescribed are enclosed in Annexure-"D".

ii) Tests shall be carried out and certified by the manufacturer and by the agencies specified here under (a). SAMEER (b).ETDC (c).ERTL (d) CPRI (e) ERDA Vadodara (f) I.I.T.s (g) NITs h) National Research & Technology Consortium, Parwanoo (H.P.), i) reputed Engineering colleges (discretion with LHO) j) Regional Testing Centre ( E.R.), Govt. Of India, Kolkata, (k) SV University Tirupati/ JNTU, Hyderabad/ L D College of Engineering Ahmedabad (l) Electronics Quality Development Centre, Gandhinagar, (m) Nisaki Technology services, Bangalore as per sampling below :

UPS Rating	% Sampling in lot
6VA to 10 KVA	25% of total supply subject to certain minimum numbers at LHO discretion
12.5 KVA to 25 KVA	50% of total supply subject to certain minimum numbers at LHO discretion
30 KVA and above	100% of total supply subject to certain minimum numbers at LHO discretion in presence of Bank's Engineer at Factory.

(iii) If the UPS does not conform to specifications either during factory test or at site, the Bank reserves the right to reject the same. The successful tenderer shall then have to remove the same at his cost from site and supply a new piece conforming to the specifications.

iv). The Bank reserves the right to randomly decide to carry out testing of a few UPS systems at site after installation at the cost of UPS vendor, who will be required to arrange for all the requisite variacs, maters, loads etc. and carry out the tests through vendor's personnel in the presence of Bank's Officials.

28.The rate shall include all interconnecting cables, UPS to Batteries and to Remote indication units etc. However, incoming and outgoing wiring will be arranged by Bank.

Place:

Applicant's Signature

Date:

Stamp:

**TEST PARAMETERS**

<b>SR. NO.</b>	<b>PARAMETERS TO BE MEASURED</b>	<b>BANK'S SPECIFICATION</b>	<b>TEST RESULTS / REMARKS</b>
1	Technology		
2	Nominal Input Voltage		
3	No Load Input Voltage Range = Voltage Regulation		
4	Input Frequency range (on D.G.Set)		
5	Input Power Factor		
6	Inversion Technique		
7	Capacity		
8	Output Voltage		
9	Output Frequency		
10	Distortion (o/p voltage) THD		
11	Crest Factor		
12	Static bypass switch		
13	Wave Form (output)		
14	Efficiency		
15	Indications		
16	Alarm		

17	Metering		
18	DC Isolation between Input line & Output line		
19	Input Current Harmonics		
20	Batteries		
21	Rated KVA		
22	Charger		
23	Manual bypass switch		
24	Transient Response		
25	Overload capacity 110% & 150%		

Place :

Signature

Date :

Stamp

**ANNEXURE –C - INDICATIVE PRICE BID, REVERSE AUCTION FORMAT**

**FOR CONVENTIONAL CONFIGURATION**

				Indicative Price for Areas Except Lakshadweep & Mahe	Indicative Price(Rs)Price for Lakshadweep & Mahe
S.No	UPS	Configur ation	Quantity	SITC for the new system with battery Bank & CAMC for 3 years in Rs.	SITC for the new system with battery Bank & CAMC for 3 years in Rs.
1	2KVA- 1HR (with SMF batteries)	Single phase input- Single phase out	1		
2	2KVA- 2HR (with SMF batteries)	Single phase input- Single phase out	1		
3	2KVA - 3HR (with SMF batteries)	Single phase input- Single phase out	1		
4	3KVA- 1HR (with tubular type mentione d)	Single phase input- Single phase out	1		
5	3KVA-2 HR (with tubular type mentione d)	Single phase input- Single phase out	1		
6	5KVA-1HR (with tubular type mentione d)	Single phase input- Single phase out	1		
7	5KVA- 2HR (with tubular	Single phase input- Single	1		

	type mentione d)	phase out			
8	5KVA-1HR (with tubular type mentione d)	Three phase input- Single phase output	1		
9	5KVA- 2HR (with tubular type mentione d)	Three phase input- Single phase output	1		
10	7.5KVA- 1HR (with tubular type mentione d)	Three phase input – Single phase output	1		
11	7.5KVA- 2HR (with tubular type mentione d)	Three phase input – Single phase output	1		
12	10KVA-1 HR (with tubular type mentione d)	Three phase input – Single phase output	1		
13	10KVA- 2HR (with tubular type mentione d)	Three phase input – Single phase output	1		
14	15KVA-	Three	1		



	1HR (with tubular type mentione d)	phase input – Single phase output			
15	15KVA- 2HR (with tubular type mentione d)	Three phase input – Single phase output	1		
16	25KVA- 1HR (with tubular type mentione d)	Three phase input – Single phase output	1		
17	25KVA- 2HR (with tubular type mentione d)	Three phase input – Single phase output	1		

FOR PRS CONFIGURATION

				Indicative Price for Areas Except Lakshadweep & Mahe	Indicative Price for Lakshadweep & Mahe
S.No	UPS	Configuration	Quantity	SITC for the new system with battery Bank & CAMC for 3 years	SITC for the new system with battery Bank & CAMC for 3 years
1	2 x 5KVA- 1HR	Single phase input- Single phase out	1 set		
2	2 x 5KVA- 2HR	Single phase input- Single phase out	1 set		
3	2 x 7.5KVA- 1HR	Three phase input – Single phase output	1 set		
4	2 x 7.5KVA- 2HR	Three phase input – Single phase output	1 set		
5	2 x 10KVA-1 HR	Three phase input – Single phase output	1 set		
6	2 x 10KVA- 2HR	Three phase input – Single phase output	1 set		
7	2 x 15KVA- 1HR	Three phase input – Single phase output	1 set		
8	2x 15KVA- 2HR	Three phase input – Single phase output	1 set		
9	2 x 25KVA- 1HR	Three phase input – Single phase output	1 set		
10	2 x 25KVA- 2HR	Three phase input – Single phase output	1 set		

Place :

Signature

Date :

Stamp

# **PRICE BREAKUP AFTER REVERSE AUCTION**

S.No	UPS	Configura tion	Quantity	Price break up		
				UPS rate in Rs	Rate for Battery Bank with interconne cting cable & stand in Rs	CAMC for 3 years in Rs.
1	2KVA-1HR (with SMF batteries)	Single phase input- Single phase out	1			
2	2KVA-2HR (with SMF batteries)	Single phase input- Single phase out	1			
3	2KVA-3HR (with SMF batteries)	Single phase input- Single phase out	1			
4	3KVA-1HR (with tubular type mentioned)	Single phase input- Single phase out	1			
5	3KVA-2 HR (with tubular type mentioned)	Single phase input- Single phase out	1			
6	5KVA-1HR (with tubular type mentioned)	Single phase input- Single phase out	1			
7	5KVA-2HR (with tubular type mentioned)	Single phase input- Single phase out	1			
8	5KVA-1HR (with tubular type mentioned)	Three phase input- Single phase output	1			
9	5KVA-2HR (with tubular type mentioned)	Three phase input- Single phase output	1			

	type mentioned)	input- Single phase output				
10	7.5KVA-1HR (with tubular type mentioned)	Three phase input – Single phase output	1			
11	7.5KVA-2HR (with tubular type mentioned)	Three phase input – Single phase output	1			
11	10KVA-1 HR (with tubular type mentioned)	Three phase input – Single phase output	1			
12	10KVA-2HR (with tubular type mentioned)	Three phase input – Single phase output	1			
13	15KVA-1HR (with tubular type mentioned)	Three phase input – Single phase output	1			
14	15KVA-2HR (with tubular type mentioned)	Three phase input – Single phase output	1			
15	25KVA-1HR (with tubular type mentioned)	Three phase input –	1			

		Single phase output				
16	25KVA-2HR (with tubular type mentioned)	Three phase input – Single phase output	1			

**FOR PRS CONFIGURATION**

S.No	UPS	Configura tion	Quantit y	Price break up		
				UPS rate in Rs	Rate for Battery Bank with interconnec ting cable & stand in Rs	CAMC for 3 years in Rs
1	2 x 5KVA-1HR	Single phase input- Single phase out	1 set			
2	2 x 5KVA-2HR	Single phase input- Single phase out	1 set			
3	2 x 7.5KVA-1HR	Three phase input – Single phase output	1 set			
4	2 x 7.5KVA-2HR	Three phase input – Single phase output	1 set			

5	2 x 10KVA-1 HR	Three phase input – Single phase output	1 set			
6	2 x 10KVA-2HR	Three phase input – Single phase output	1 set			
7	2 x 15KVA-1HR	Three phase input – Single phase output	1 set			
8	2x 15KVA-2HR	Three phase input – Single phase output	1 set			
9	2 x 25KVA-1HR	Three phase input – Single phase output	1 set			
10	2 x 25KVA-2HR	Three phase input – Single phase output	1 set			

Place :

Signature

Date :

Stamp

#### SCOPE & ANNUAL MAINTENANCE CONTRACT TERMS & CONDITIONS:

- The UPS Vendor after empanelment must provide Comprehensive AMC for UPS as well as batteries except replacement of batteries which are out of warranty.
- From 3KVA onwards, the vendor shall quote the **rates for UPS inclusive of GST** and three years AMC of UPS and Tubular Batteries post warranty period of one year in the price bid. **The AMC rates quoted shall be inclusive of all taxes excluding GST.**
- From 2KVA, the vendor shall quote the **rates for UPS inclusive of GST** and three years AMC for UPS post warranty period of one year in the price bid. **The AMC rates quoted shall be inclusive of all taxes excluding GST.** The vendor shall verify the healthiness of batteries for SMF type.
- The UPS vendor must verify all vital and running parameters of UPS sets, leakages and attending all breakdown calls within 8 hours, Battery maintenance with verification of tightness of battery connection, cleaning of external surface & components, application of petroleum jelly on battery terminals, verification of specific gravity, supply & topping of distilled water & electrolyte free of cost for Tubular batteries, replacement of major internal components such as Transformers, Chokes, semiconductor devices like IGBT, MOSFET, Diodes, SCR and DC capacitor etc due to failure of system due internal factors and aging.
- The UPS vendor must support the Bank during shifting of premises and during the UPS down times.
- The service personnel should visit and check the UPS systems once in every quarter (3 months) for periodical, preventive maintenance and submit the service report regarding the healthiness of system, back-up time, Specific gravity readings of battery, Voltage.
- The AMC payment will be disbursed quarterly at the end of each quarter against submission of bills along with report copies of satisfactory service carried out during that particular quarter.
- Preventive maintenance of UPS & batteries should be carried out on a quarterly basis. Voltage of each battery on discharged condition should be recorded in the maintenance report.

Place:

Applicant's Signature

Date:

Stamp:



## ANNEXURE- D

### Procedure of Reverse Auctioning:-

Reverse Auction shall be through English Reverse Auction (no ties).

For the proposed reverse auction, technically and commercially short-listed bidders from the Technical bids submitted shall only be eligible to participate in the auction.

SBI will engage the services to our service provider (e-Procurement Technologies Ltd. (abcprocure) who will provide all necessary training and assistance before commencement of on line bidding through Internet.

SBI will inform the vendor in writing in case of reverse auction, the details of service provider to enable them to contact and get trained.

Business rules like event date, time, start price, bid decrement, extensions, etc. also will be communicated through service provider for compliance.

Vendors have to email the compliance form in the prescribed format (provided by service provider) before start of Reverse auction. Without this the vendor will not be eligible to participate in the event.

Reverse auction will be conducted on schedule date & time.

At the end of reverse auction event, the lowest bidder value will be known on the network.

The lowest bidder has to email the duly signed filled-in prescribed format as provided by SBI through service provider within 24 hour of auction without fail which is Price Confirmation Letter and Annexure II (Price break up as per BOQ for Indicative as well as final break up after the reverse auction) within 24 hours after completion of reverse Auction.

In case SBI decides not to go for Reverse auction procedure for this tender enquiry, the price bids and price impacts, if any already submitted and available with SBI shall be opened as per SBI standard practice.

The reverse auction will be treated as closed only when the bidding process gets closed in all respects for the item listed in the tender.

### CONTACT INFORMATION

e-Procurement Technologies Ltd	STATE BANK OF INDIA
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e-Procurement Technologies Ltd., Address: B- 704/705, Wall Street – II, Opp. Orient Club, Ellisbridge, Ahmedabad – 380006, India Contact: sujith@eptl.in   Phone: +91-79-40270 579   580   590	Assistant General Manager, SBI, 4TH Floor, Local Head Office, State Bank of India. Poojappura, Thiruvananthapuram-695012 Office Tel. No.: 0471-2192407; 2192406 Fax: 0471-2352087 Email:
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SBI shall finalize the supply of UPS of various ratings against this Tender through reverse auction mode. SBI has made arrangement with M/s. E-Procurement Technologies Ltd. (abcprocure) who shall be SBI's authorized service provider for the same. Please go through the guidelines given below and give your acceptance to the same.

Computerized Reverse auction shall be conducted by SBI, on pre-specified date, while the vendors shall be quoting from their own offices/ place of their choice. Internet connectivity and other paraphernalia requirements shall have to be ensured by vendors themselves. In the event of failure of their Internet connectivity, (due to any reason whatsoever it may be) it is the bidder's responsibility / decision to send email communication, immediately to M/s. E-PROCUREMENT TECHNOLOGIES LTD. (ABCPROCURE). Furnishing the price, the bidder wants to bid online, with a request to M/S. E-PROCUREMENT TECHNOLOGIES LTD.

(ABCPROCURE). to upload the emailed price on line so that the service provider will up load that price on line on behalf of the Bidder. It shall be noted clearly that the concerned bidder communicating this price to service provider has to solely ensure that the email message is received by M/S. E-PROCUREMENT TECHNOLOGIES LTD. (ABCPROCURE) in a readable / legible form and also the Bidder should simultaneously check up with M/S. E-PROCUREMENT TECHNOLOGIES LTD. (ABCPROCURE) over phone about the clear receipt of the price emailed. It shall also be clearly understood that the bidder shall be at liberty to send such email communications of prices to be up loaded by M/S. E-PROCUREMENT TECHNOLOGIES LTD. (ABCPROCURE) only before the closure of Bid time and under no circumstances it shall be allowed beyond the closure of bid time. Such bidders have to ensure that the service provider is given a reasonable required time by the bidders, to upload such emailed prices online and if such required time is not available at the disposal of M/S. E-PROCUREMENT TECHNOLOGIES LTD. (ABCPROCURE). at the time of receipt of the email message from the bidders, M/S. E-PROCUREMENT TECHNOLOGIES LTD. (ABCPROCURE) will not be uploading the prices. It is to be noted that either SBI or M/S. E-PROCUREMENT TECHNOLOGIES LTD. (ABCPROCURE) are not responsible for these unforeseen circumstances. In order to ward-off such contingent situation, bidders are requested to make all the necessary arrangements / alternatives whatever required so that they are able to circumvent such situation and still be able to participate in the reverse auction successfully. However, the vendors are requested to not to wait till the last moment to quote their bids to avoid any such complex situations.

Please note that the start price of an item in online reverse auction is open to all the participating technically short-listed bidders. Any bidder can start bidding, in the online reverse auction, from the start price itself or lower. Please note that the first online bid that comes in the system during the online reverse auction can be equal to the auction's start Price, or lesser than the auction's start price by one decrement, or lesser than the auction's start price by multiples of decrement. The subsequent bid that comes in to outbid the L1 rate will have to be lesser than the L1 rate by one decrement value or in multiples of the decrement value.

M/S. E-PROCUREMENT TECHNOLOGIES LTD (ABCPROCURE) shall arrange to train your nominated person(s), without any cost to you. They shall also explain you, all the Rules related to the Reverse Auction/ Business Rules Document to be adopted along with bid manual. You are required to give your compliance on it before start of bid process.

**BIDDING CURRENCY AND UNIT OF MEASUREMENT:** Bidding will be conducted in Indian Rupees (INR). Bidder has to quote Price for the given item as mention in the tender document on Lumpsum basis (Note:-Prices quoted should be inclusive of all Central / State Government taxes, cost of incidental services such as transportation, insurance etc along with supply &. )  
**Starting Bid/Bid Decrement:** The opening price of the RA and the bid decrement value shall be available to the bidders on their bidding screen.

**BID PRICE:** Bidder has to quote Price for the given item on Lumpsum (" Prices quoted should be inclusive of all Central / State Government taxes etc and also cost of incidental services such as transportation, insurance, loading ,unloading, Supply, Installation ,testing and commissioning cost etc." )

1. **VALIDITY OF BIDS:** The Bid price shall be firm for a period specified in the tender document and shall not be subjected to any change whatsoever.
2. At the end of the reverse auction, bidder has to provide a detail break up for his lowest offer within 24 hour of closing of auction and Price confirmation letter within 1 hour of closing of auction.

#### Terms & Conditions of Reverse Auction

**LOG IN NAME & PASSWORD:** Each Bidder is assigned a Unique User Name & Password by M/S. E-PROCUREMENT TECHNOLOGIES LTD. (ABCPROCURE). The Bidders are requested to change the Password after the receipt of initial Password from M/S. E-PROCUREMENT TECHNOLOGIES LTD. (ABCPROCURE). All bids made from the Login ID given to the bidder will be deemed to have been made by the bidder.

**BIDS PLACED BY BIDDER:** The bid of the bidder will be taken to be an offer to execute the work. Bids once made by the bidder cannot be cancelled. The bidder is bound to execute the work the as mentioned above at the price that they bid. Should any bidder back out and not make the supplies at per the rates quoted, SBI and / or M/S. E-PROCUREMENT TECHNOLOGIES LTD. (ABCPROCURE) shall take action as appropriate.

**LOWEST BID OF A BIDDER:** In case the bidder submits more than one bid, the lowest bid will be considered as the bidder's final offer to execute the work.

**DURATION OF AUCTION:** The auction will be of 1 hour duration. In case there is any acceptable bid quoted by any bidder within 5 minutes of closing of the auction, the auction will be extended for another 5 minutes from the time that Bid comes in. However, vendors are advised not to wait till the last minute or last few seconds to enter their bid during the auto-extension period to avoid complications related with internet connectivity, network problems, system crash down, power failure, etc. (THIS SCHEDULE IS TENTATIVE. IF ANY CHANGE IN SCHEDULE, THE SAME SHALL BE COMMUNICATED TO YOU).

**BID DECREMENT:** The minimum Bid decrement shall be available to the Bidders at the start of the auction. The bidder can view the same by clicking on the Item details at the start of the auction. The bidder can bid lower than the Lowest Bid in the auction by a decrement, multiple of the minimum Bid decrement or at least of minimum bid decrement plus multiples of Bid Decrement. Also, please note that the start price of an item in online reverse auction is open to all the participating bidders. Any bidder can start bidding, in the online reverse auction, from the start price itself. Also, please note that the first online bid that comes in the system during the online reverse auction can be equal to the auction's start price, or lesser than the auction's start price by one decrement, or lesser than the auction's start price by multiples of decrement. The second online bid and onwards will have to be lesser than the L1 rate by one decrement value, or lesser than the L1 rate by multiples of the decrement value.

**VISIBILITY TO BIDDER:** The Bidder shall be able to view the following on his screen along with the necessary fields during English Reverse - No ties Auction:

Leading Bid in the Auction

Bid Placed by him

Rank of the respective bidder

Start Price & Bid Decrement Value

**AUCTION WINNER:** At the end of the Reverse Auction, SBI will evaluate all the bids submitted and will decide upon the winner.

#### **OTHER TERMS & CONDITIONS:**

The Bidder shall not involve himself or any of his representatives in Price manipulation of any kind directly or indirectly by communicating with other suppliers / bidders.

The Bidder shall not divulge either his Bids or any other exclusive details of SBI to any other party.

SBI's decision on award of Contract shall be final and binding on all the Bidders.

SBI along with M/S. E-PROCUREMENT TECHNOLOGIES LTD. (ABCPROCURE) can decide to extend, reschedule or cancel any Auction. Any changes made by SBI and / or M/S. E-PROCUREMENT TECHNOLOGIES LTD. (ABCPROCURE) after the first posting will have to be accepted if the Bidder continues to access the site after that time.

M/S. E-PROCUREMENT TECHNOLOGIES LTD. (ABCPROCURE) shall not have any liability to Bidders for any interruption or delay in access to the site irrespective of the cause.

M/S. E-PROCUREMENT TECHNOLOGIES LTD. (ABCPROCURE) is not responsible for any damages, including damages that result from, but are not limited to negligence. M/S. E-

PROCUREMENT TECHNOLOGIES LTD. (ABCPROCURE) will not be held responsible for consequential damages, including but not limited to systems problems, inability to use the system, loss of electronic information etc.

**Important Note:-**

All the Bidders are required to submit the scan copy of Process Compliance Statement duly signed to M/s e-procurement technologies pvt ltd on their letter head.

All the bidders are requested to ensure that they have a valid Digital certificate well in advance to participate in the online event. Under no circumstances will the bidders be allowed to participate in the online event without Digital Certificate.

After the completion of the Auction event, L-1 Bidders have to submit the Price Confirmation Letter as per the Business rule document within 24 Hours immediately to M/s e-procurement technologies pvt ltd SBI for further proceedings on their letter head.

**ARTICLES OF AGREEMENT**

ARTICLES OF AGREEMENT made the \_\_\_\_\_ day of \_\_\_\_\_ 2020  
between Assistant General Manager, Premises & Estate, State Bank Of India, Local Head Office, Thiruvananthapuram (hereinafter called the "Employer") of the one part and \_\_\_\_\_ of \_\_\_\_\_ (hereinafter called "The Contractor") of the other part, where as the Employer is desirous of getting the work of " \_\_\_\_\_ " executed and has caused conditions of contract, specifications and schedule of quantities etc., describing the works prepared by SBI AND WHEREAS the SAID documents numbered as per list attached inclusive of \_\_\_\_\_ and the conditions of contract, specifications and schedule of quantities etc., have been signed by or on behalf of the parties hereto.

AND WHEREAS THE CONTRACTOR has agreed to execute upon and subject to the conditions set forth in the Schedule hereto (hereinafter referred to as "Said Conditions") the works described in the same specifications and included in the said schedule of quantities for such sum as may be ascertained to be payable in terms of the Bills of Quantities against each type of air conditioner.

**NOW IT IS HEREBY AGREED AS FOLLOWS:**

1. In consideration of the said sum to be paid at the times and in the manner set forth in the said conditions, the contractor shall upon and subject to the said conditions, execute and complete the work shown in the said drawings and described in the said specifications.
2. The Employer shall pay the contractor the said sum or such sums as shall become payable hereunder at the times and in the manner specified in the said conditions.
3. Tender documents containing Notice to the Contractor, Conditions of Contract, other conditions, Technical bid with Specifications, Price breakup and work order with the rates entered therein, shall be read and studied as forming part of this agreement and

the parties hereto shall respectively abide by and submit themselves to the conditions and stipulations and perform the agreement on their part respectively in such conditions contained.

4. Time shall be considered a the essence of this agreement and the contractor hereby agrees to commence the work within the delivery period reckoned from the date of issue of work order to execute the work, as provided for in the said conditions and complete the entire work .
5. This agreement and contract shall be deemed to have been made in Thiruvananthapuram and any questions or dispute rising out of or in any way connected with this Agreement and Contract shall be deemed to have arisen in Thiruvananthapuram and only the courts in Thiruvananthapuram shall have jurisdiction to determine the same. The limitation period will be 90 days from the date of dispute having arisen.

AS WITNESS our hand this \_\_\_\_\_ day of \_\_\_\_\_ 2021

Signed by the said in the presence of:

WITNESS : SIGNATURE

NAME :

ADDRESS :

EMPLOYER

WITNESS : SIGNATURE

NAME :

ADDRESS :