



E- Tender document for
**Tender for Supply & Installation of 20kVA online UPS
System with GEL batteries at
Telangana State Renewable Energy Development
Corporation Limited (TSREDCO), Hyderabad.**



Tender notice No: TSREDCO/Admin/UPS/2018-19/001, Dated.21.05.2018



Telangana State Renewable Energy Development Corporation Ltd (TSREDCO)

D.No. 6-2-910, Visvesvaraya Bhavan, II floor
The Institution of Engineers Building, Khairatabad, Hyderabad - 500 004.
Telangana State, India

Tel Nos. 040 - 2320 1502, 2320 1503, Fax No. 040 - 2320 1504

E-mail : se@tsredco.telangana.gov.in

Web site: www.tsredco.telangana.gov.in

Covering Letter
(on company Letter head)

From

To

The Vice Chairman & Managing Director

Telangana State Renewable Energy Development Corporation (TSREDCO)

D.No. 6-2-910, Visvesvaraya Bhavan, II floor

The Institution of Engineers Building, Khairatabad, Hyderabad

Telangana State, India - 500 004

Sir,

Sub: Submission of Tender document for “Supply and Installation of 20kVA online UPS System with GEL batteries (One-hour back-up) at Telangana State Renewable Energy Development Corporation Limited (TSREDCO), Hyderabad”- Reg.

I/We have read the complete tender and I/ we understood the complete tender document.

I/We hereby submit tender to take up the assignment, under the annexed general conditions of contract and as per the guidelines issued, the whole of the work referred to and described in the attached specification and schedule, or any portion thereof, as may be decided by TSREDCO, Hyderabad; at the rates quoted. The work will be delivered within the time and at the places specified by TSREDCO.

*I/We am/are remitting/have separately remitted the required amount of INR.....as earnest money.

Yours faithfully,

Signature
with Stamp

Address

Date

Telangana State Renewable Energy Development Corporation Ltd

**Authorized Signature of
Bidder with Stamp**

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Bid Information Sheet

Brief Description	E-tenders are invited for Supply and Installation of 20kVA online UPS System with GEL batteries (One-hour back-up) along with 3 years warranty at Telangana State Renewable Energy Development Corporation Limited (TSREDCO), Hyderabad
Broad description of scope of work	The Scope of the work includes design, supply, installation and commissioning of 20kVA online UPS System with One-hour back-up GEL batteries along with 3 years warranty at Telangana State Renewable Energy Development Corporation Limited (TSREDCO) Head office, Hyderabad.
Last date & Time of Submission of response of Tender	15.06.2018 up to 3.00PM at TSREDCO, Corporate Office: D.No. 6-2-910, Visvesvaraya Bhavan, The Institution of Engineers Building, Khairatabad, Hyderabad - 500 004. Telangana State, India
Bid Opening (Technical)	15.06.2018 at 4:00 PM at TSREDCO, Corporate Office, Hyderabad
Financial Bid opening	The Financial bid will be opened after evaluation of technical bid, which will be announced later.
Processing Fee (non- refundable)	Rs.1000 /- + 18% GST (Rupees One thousand plus GST only) to be furnished through Demand Draft (DD) drawn in favour of "TSREDCO", payable at Hyderabad, along with Technical Bid.
Ernest Money Deposit (Refundable)	Bid Security for Rs 10,000/-(Rupees Ten thousand only) by way of online payment or DD in favour of TSREDCO payable at Hyderabad from any nationalized bank.
Time of completion	Two months from the issue of the Work Order / Agreement and handing over of the site
<p><u>IMPORTANT NOTE:</u> Prospective Bidders are requested to remain updated for any notices/amendments/clarifications etc. to the Short tender document through the e-procurement and TSREDCO website.</p> <p>No separate notifications will be issued for such notices/amendments/clarification etc. in the print media or individually. All the information related to this Short tender shall be updated on the TSREDCO Website only. The EMD amount paid by the successful Tenderer will be converted as Security deposit and will be released after completion of the works allotted.</p>	

Checklist to accompany the E tender

S.No	Description	Submitted in Cover 'A'	Page No. (see Note below)
1	2	3	4
1	Earnest Money Deposit	Yes /No	
2	Tender document fee	Yes /No	
3	Copy of PAN card.	Yes /No	
4	Copy of latest Income Tax Clearance returns submitted along with proof of receipt (Latest SARAL form).	Yes /No	
5	Copy of GST Registration Certificate.	Yes /No	
6	Latest GST/ Sales Tax clearance certificate.	Yes /No	
7	Availability of local service centers/ technical personnel	Yes /No	
8	Information on litigation history in which Bidder is involved.		
9	Any other documents/certificate as specified in tender conditions	Yes /No	
10	Experience Certificate	Yes /No	
11	Company Registration Certificate	Yes /No	
12	Annual financial statements certified by CA	Yes /No	
13	All the technical specifications supportive documents as per the tender document	Yes /No	

Important Note:

* Bidder shall provide the respective page no. in the above table for the respective attachments to be enclosed along with tender document.

** To be uploaded online and submit hard copy in envelope-I (technical bid)

I. General Details and Instructions to Bidders

1. Introduction

- 1.1 Sealed tenders are invited from the reputed firms engaged in the Supply and Installation of 20kVA online UPS System with GEL batteries (One-hour back-up) along with 3 years warranty at Telangana State Renewable Energy Development Corporation Limited (TSREDCO), Hyderabad.
- 1.2 TSREDCO, which expression shall also include its successors and permitted assigns, hereby invites interested companies to participate in the bidding process for the selection of Successful Bidder(s) for supply of 20 kVA UPS system.
- 1.3 The Bidder is advised to read carefully all instructions and conditions appearing in this document and understand them fully. All information and documents required as per the bid document must be furnished. Failure to provide the information and / or documents as required may render the bid technically unacceptable.
- 1.4 The bidder shall be deemed to have examined the bid document, to have obtained his own information in all matters whatsoever that might affect the carrying out the works in line with the scope of work specified elsewhere in the document at the offered rates and to have satisfied himself to the sufficiency of his bid. The bidder shall be deemed to know the scope, nature and magnitude of the works and requirement of materials, equipment, tools and labour involved, wage structures and as to what all works he has to complete in accordance with the bid documents irrespective of any defects, omissions or errors that may be found in the bid documents.

2. Bid details:

Bids are invited from the prospective bidders for the tendered capacity i.e. the Supply and Installation of 20kVA online UPS System with GEL batteries (One-hour back-up) along with 3 years warranty at Telangana State Renewable Energy Development Corporation Limited (TSREDCO), Hyderabad.

3. Eligibility criteria

3.1. General

- (a) The Bidder should be either a body incorporated in India under the Companies Act, 1956 or 2013 including any amendment thereto and engaged in the business of Wind Rooftop Power System.
- (b) The bidder should have executed similar project and should produce the satisfactory report for installation of 20kVA and above On-line UPS System with batteries with warranty conditions

A copy of certificate of incorporation shall be furnished along with the bid in support of above.

3.2. Technical eligibility criteria:

The Bidder should have

- (a) supply & installation of 20kVA or/and above On-line UPS System with batteries along with 3 years warranty conditions at one location. **This should have been installed at least six months prior to Technical Bid Opening date.** The list of projects commissioned at least 6 months prior to Technical Bid Opening date, along with a copy of the Commissioning certificate and Work order / Contract / Agreement/ from the Client/Owner shall be submitted in support of Clause 3.1 above.
- (b) a fully functional service centre with spares stock for attending the breakdown calls. Details of the service centre must be provided in Hyderabad/ Secunderabad locations.
- (c) an established Service Centre Services provider and should have been in this business for a period not less than five years as on 31.03.2018.
- (d) a minimum 5 years experience in the design, manufacture, commissioning and testing of 20 kVA & Above UPS Systems.
- (e) not been under any litigation for corrupt or fraudulent practices or blacklisted by any of the Government agencies. A declaration for the same shall be enclosed with technical bid as per the format 1 of section IV.

3.3. Financial eligibility criteria:

The bidder shall have an Annual turnover of Rupees **50 Lakhs** in any one of the last 3 financial years preceding the Bid Deadline subject to the condition that the Bidder should at least have completed one financial year.

Bidders shall furnish documentary evidence as per the **Format-3**, duly certified by Authorized Signatory and the Statutory Auditor / Practicing Chartered Accountant of the Bidding Company in support of their financial capability.

3.4. Amendments to short tender

- 3.4.1 At any time prior to the deadline for submission of Bids, the TSREDCO may, for any reason, whether at its own initiative or in response to a clarification requested by a prospective Bidder, modify the Short Tender document by issuing clarification(s) and/or amendment(s).
- 3.4.2 The clarification(s) / amendment(s) (if any) may be notified on TSREDCO website tsredco.telangana.gov.in/ tender.telangana.gov.in least Two (2) days before the proposed date of submission of the Bid. If any amendment is required to be notified within Two (2) days of the proposed date of submission of the Bid, the Bid Deadline may be extended for a suitable period of time.
- 3.4.3 TSREDCO will not bear any responsibility or liability arising out of non-receipt of the information regarding Amendments in time or otherwise. Bidders must check the website for any such amendment before submitting their Bid.

3.4.4 In case any amendment is notified after submission of the Bid (prior to the opening of Technical Bid. Bids received by TSREDCO shall be returned to the concerned Bidders on their request through registered post or courier and it will be for the Bidders to submit fresh Bids as the date notified by the TSREDCO for the purpose.

3.4.5 All the notices related to this Bid which are required to be publicized shall be uploaded on website tsredco.telangana.gov.in/ tender.telangana.gov.in

3.5. Bidding process

All the bids must be submitted through Telangana e tender portal i.e., <https://tender.telangana.gov.in>.

Hard copies of the Bid in response to this tender shall be submitted by the Bidders in the following manner.

Envelope- I (Technical bid)

- i. Covering Letter indicating the profile of the company as per the prescribed Format.
- ii. Copy of PAN and GST certificates of bidding company.
- iii. Bid processing fee @ **Rs.1,000/- plus 18%GST** by way of DD drawn in favour of TSREDCO payable at Hyderabad.
- iv. EMD for Rs 10,000/- by way of online or DD in favour of TSREDCO (in case of online payment, the screenshot same shall be enclosed in envelope I.
- v. General particulars of bidders as per Format
- vi. Document in support of meeting Eligibility Criteria as per Clauses mentioned above.
- vii. Signed and stamped Copy of tender Documents including amendments & clarifications by Authorised signatory on each page.

Note: All formats and relevant documents as required in the tender document shall be spiral bounded and should be flagged separately. Details of flag should be mentioned in the covering letter.

Envelope II- (Financial bid)

The Bidder shall submit sealed Financial Bid for 20 kVA UPS system as per the Format provided in section III. The envelope shall be superscripted as “Financial Bid” for Supply and Installation of 20kVA online UPS System with GEL batteries (One-hour back-up) along with 3 years warranty at Telangana State Renewable Energy Development Corporation Limited (TSREDCO), Hyderabad

3.6. Validity of Bid

- 3.6.1. The bid and the Price Schedule included shall remain valid for **a period of 12months** from the date of Technical bid opening, with bidder having no right to withdraw, revoke or cancel his offer or unilaterally vary the offer submitted or any terms thereof. In case of the bidder revoking or cancelling his offer or varying any term & conditions

in regard thereof or not accepting letter of allocation, TSREDCO shall forfeit the EMD furnished by him.

- 3.6.2. In exceptional circumstances when letter of allocation is not issued, the TSREDCO may solicit the Bidder's consent to an extension of the period of validity. The request and the responses thereto shall be made in writing. The EMD provided shall also be suitably extended. A Bidder may refuse the request without forfeiting its EMD. A Bidder granting the request will neither be required nor permitted to modify its Bid in any manner.

3.7. Method of Bid submission

- 3.7.1. All the bids must be submitted through Telangana e tender portal i.e., <https://tender.telangana.gov.in>.
- 3.7.2. Hard copies of Bids are required to be submitted in a single sealed cover envelope containing Envelope-I (Technical Bid) and Envelope II (Financial Bid) each one duly sealed separately. Envelope should contain the documents as detailed in Clauses above. All the two envelopes shall be kept in an outermost Envelope. The outermost envelope should be superscribed as “Supply and Installation of 20kVA online UPS System with GEL batteries (One-hour back-up) along with 3 years warranty at Telangana State Renewable Energy Development Corporation Limited (TSREDCO), Hyderabad”. Tender Ref No. TSREDCO/Admin/UPS/2018-19/001 dated 21.05.2018.
- 3.7.3. The Bidders to send their Bid either by registered post; or speed post; or courier; or by hand delivery, so as to reach TSREDCO by the Bid Deadline through e-tender. Bids submitted by telex/telegram/fax/e-mail shall not be considered under any circumstances. TSREDCO shall not be responsible for any delay in receipt of the Bid. Any Bid received after the Bid Deadline shall be returned unopened.
- 3.7.4. If the outer cover envelope or Envelope I (Covering Envelope, Technical Envelope) Envelope II (Financial Bid) is/are not closed/sealed and not super scribed as per the specified requirement, TSREDCO will assume no responsibility for the Bid’s misplacement or premature opening.
- 3.7.5. All the envelopes shall be sealed properly & shall indicate the Name & address of the Bidder. The Bid must be complete in all technical and commercial respect and should contain requisite certificates, drawings, informative literature etc. as required in the Bid document. Each page of the Bid document should be signed & stamped. Bids with any type of change or modification in any of the terms/ conditions of this document shall be rejected. If necessary, additional papers may be attached by the Bidder to furnish/ submit the required information. Any term / condition proposed by the Bidder in his bid which is not in accordance with the terms and conditions of the tender document or any financial conditions, payment terms, rebates etc. mentioned in Financial Bid shall be considered as a conditional Bid and will make the Bid invalid.

3.8. Cost of bidding

3.8.1. The bidder shall bear all the costs associated with the preparation and submission of his offer. The Bidder shall not be entitled to claim any costs, charges and expenses of and incidental to or incurred by him through or in connection with his submission of bid even though TSREDCO may elect to modify / withdraw the invitation of Bid.

3.9. Right to withdraw the tender and to reject any bid

3.9.1 This tender may be withdrawn or cancelled by the TSREDCO at any time without assigning any reasons thereof. The TSREDCO further reserves the right, at its complete discretion, to reject any or all of the Bids without assigning any reasons whatsoever and without incurring any liability on any account.

3.9.2 The TSREDCO reserve the right to interpret the Bid submitted by the Bidder in accordance with the provisions of the tender and make its own judgment regarding the interpretation of the same. In this regard the TSREDCO shall have no liability towards any Bidder and no Bidder shall have any recourse to the TSREDCO with respect to the selection process. TSREDCO shall evaluate the Bids using the evaluation process specified in Section -I, at its sole discretion. TSREDCO decision in this regard shall be final and binding on the Bidders.

3.9.3 TSREDCO reserves its right to vary, modify, revise, amend or change any of the terms and conditions of the Bid before submission. The decision regarding acceptance or rejection of bid by TSREDCO will be final.

3.10. Zero deviation

This is a ZERO Deviation Bidding Process. Bidder is to ensure compliance of all provisions of the Bid Document and submit their Bid accordingly. Tenders with any deviation to the bid conditions shall be liable for rejection.

3.11. Examination of Bid document

3.11.1 The Bidder is required to carefully examine the Technical Specification, terms and Conditions of Contract, and other details relating to supplies as given in the Bid Document.

3.11.2 The Bidder shall be deemed to have examined the bid document including the agreement/contract, to have obtained information on all matters whatsoever that might affect to execute the project activity and to have satisfied himself as to the adequacy of his bid. The bidder shall be deemed to have known the scope, nature and magnitude of the supplies and the requirements of material and labour involved etc. and as to all supplies he has to complete in accordance with the Bid document.

3.11.3 Bidder is advised to submit the bid on the basis of conditions stipulated in the Bid Document. Bidder's standard terms and conditions if any will not be considered. The cancellation / alteration / amendment / modification in Bid documents shall not be accepted by TSREDCO

3.11.4 Bid not submitted as per the instructions to bidders is liable to be rejected. Bid shall confirm in all respects with requirements and conditions referred in this bid document.

3.12. Scope of work

The scope of work for the bidder include complete design, engineering, supply, testing installation & commissioning of the 20 kVA online UPS System with GEL batteries (One-hour backup) including Operation and Maintenance (O&M) of the project for a period of three years after commissioning at TSREDCO Head office Hyderabad

3.13. Project cost

3.13.1 The Project cost shall include all the costs related to above Scope of Work. Bidder shall quote for the entire facilities on a "single responsibility" basis such that the total Bid Price covers all the obligations mentioned in the Bidding Documents in respect of Design, Supply, Erection, Testing and Commissioning including Warranty, Operation & Maintenance for a period of 3 years, goods and services including spares required if any during O&M period. The Bidder has to take all permits, approvals and licenses, Insurance etc., provide training and such other items and services required to complete the scope of work mentioned above.

3.13.2 The project cost quoted is on turnkey basis and the bidder is responsible for the total Scope of Work described in the tender document.

3.13.3 The project cost shall remain firm and fixed and shall be binding on the Successful Bidder till completion of work for payment of subsidy amount irrespective of his actual cost of execution of the project. No escalation will be granted on any reason whatsoever. The bidder shall not be entitled to claim any additional charges, even though it may be necessary to extend the completion period for any reasons whatsoever.

3.13.4 The project cost shall be inclusive of all duties and taxes, insurance etc. The prices quoted by the firm shall be complete in all respect and no price variation /adjustment shall be payable.

3.13.5 The operation & maintenance of 20 kVA online UPS system would include wear, tear, overhauling, breakdown, insurance, and replacement of defective parts, inverter /Power Conditioning Unit (PCU), spares, consumables & other parts for a period of 3 years.

3.14. Insurance

- 3.14.1 The Bidder shall be responsible and take an Insurance Policy for transit-cum-storage-cum-erection for all the materials to cover all risks and liabilities for supply of materials on site basis, storage of materials at site, erection, testing and commissioning.
- 3.14.2 The Bidder shall also take insurance for Third Party Liability covering loss of human life, engineers and workmen and also covering the risks of damage to the third party/material/equipment/properties during execution of the Contract. Before commencement of the work, the Bidder will ensure that all its employees and representatives are covered by suitable insurance against any damage, loss, injury or death arising out of the execution of the work or in carrying out the Contract. Liquidation, Death, Bankruptcy etc., shall be the responsibility of bidder.

3.15. Warrantees & Guarantees

- 3.15.1 The Bidder shall warrant that the goods supplied under this contract are new, unused, and as per **Standard specifications** of the most recent or latest technology and incorporate all recent improvements in design and materials.
- 3.15.2 The equipments (complete system including battery banks) supplied shall be guaranteed against all types of defects for a period of three years (3 years) from the date of handing over of the equipment to TSREDCO after successful completion of acceptance testing. Any defects in the system/subassemblies found within the guarantee period shall be rectified/replaced by the supplier free of cost.
- 3.15.3 During this period, servicing at bimonthly interval or earlier, as prescribed by the manufacturer and as mutually agreed to, shall be carried out free of cost. It also includes battery health checks of the all the battery banks. Supplier shall also indicate the service facility they can offer at the place of installation and the telephone number and address of their service center. During the warranty period, breakdown call response time should be within 4 hrs in all working hours and 24hrs during after office hours and weekends. The track record of the firm in implementing and maintaining similar UPS systems, the nearest local(Hyderabad) service establishment and the promptness in attending to service/breakdown calls shall also form basis of tender evaluation.
- 3.15.4 **Replacement Parts Stocking:**
Parts shall be available through an extensive network to ensure around-the-clock parts availability throughout the country. Recommended spare parts shall be fully stocked by local field service personnel (in Hyderabad office) with back-up available from national parts center and the manufacturing location.

The national parts center Customer Support Parts Coordinators shall be on-call 24 hours/day, 7 days/week, and 365 days/year for immediate parts availability.

Tenderers may also produce Hyderabad service center address along with strength support in the form of escalation chart.

The UPS systems are going to feed the power to very critical equipments, and it is the responsibility of local service team to attend any emergency situation immediately during warranty period as well as post warranty period. Hence, service center at Hyderabad is very much essential.

3.16. Operation & Maintenance (O&M)

The bidder shall be responsible for Operation and Maintenance of the 20 kVA online UPS system for a period of 3 years, during which will monitor the project for effective performance in line with conditions specified elsewhere in the bid document. During this period, the bidder shall be responsible for supply of all spare parts as required from time to time for scheduled and preventive maintenance, major overhauling of the plant, replacement of defective parts, inverters etc.

3.17. Type & Quality of Materials and Workmanship

The Design, engineering, supply, installation, commissioning, testing and performance of the equipment shall be in accordance with latest appropriate IEC/Indian Standards as detailed in the (Technical specifications) of the bid document. At the time of installation, any component/parts which have not been specifically mentioned in this contract but which are necessary for the completeness of the installation shall be provided by the bidder without any extra cost and within the time schedule for efficient and smooth operation and maintenance of the 20 kVA Online UPS system.

3.18. Applicable Law

The Contract shall be interpreted in accordance with the laws of the Union of India.

3.19. Settlement of Dispute

- i. If any dispute of any kind whatsoever arises between TSREDCO and Successful bidder in connection with or arising out of the contract including without prejudice to the generality of the foregoing, any question regarding the existence, validity or termination, the parties shall seek to resolve any such dispute or difference by mutual consent.
- ii. If the parties fail to resolve, such a dispute or difference by mutual consent, within 45 days of its arising, then the dispute shall be referred by either party by giving notice to the other party in writing of its intention to refer to arbitration as hereafter provided regarding matter under dispute. No arbitration proceedings will commence unless such notice is given. Any dispute in respect of which a notice of intention to commence arbitration has been given in accordance with respective clause shall be finally settled by arbitration.
- iii. In all other cases, any dispute submitted by a party to arbitration shall be heard by an arbitration panel composed of three arbitrators, in accordance with the provisions set forth below.
 - a) The TSREDCO and the Contractor shall each appoint one arbitrator, and these two arbitrators shall jointly appoint a third arbitrator, who shall chair the arbitration

panel. If the two arbitrators do not succeed in appointing a third arbitrator within Thirty (30) days after the latter of the two arbitrators has been appointed, the third arbitrator shall, at the request of either party, be appointed by the Appointing Authority for third arbitrator.

- b) If one party fails to appoint its arbitrator within thirty (30) days after the other party has named its arbitrator, the party which has named an arbitrator may request the Appointing Authority to appoint the second arbitrator.
- c) If for any reason an arbitrator is unable to perform its function, the mandate of the Arbitrator shall terminate in accordance with the provisions of applicable laws as mentioned in Clause (Applicable Law) and a substitute shall be appointed in the same manner as the original arbitrator.
- iv. Arbitration proceedings shall be conducted with The Arbitration and Conciliation Act, 1996. The venue or arbitration shall be Hyderabad.
- v. The decision of a majority of the arbitrators (or of the third arbitrator chairing the arbitration panel, if there is no such majority) shall be final and binding and shall be enforceable in any court of competent jurisdiction as decree of the court. The parties thereby waive any objections to or claims of immunity from such enforcement.
- vi. The arbitrator(s) shall give reasoned award, notwithstanding any reference to the arbitration herein, the parties shall continue to perform their respective obligations under the agreement unless they otherwise agree.
- vii. Cost of arbitration shall be equally shared between the Successful bidder or Contractor and TSREDCO

3.20. Force Majeure

3.20.1 "Force Majeure" means an event beyond the control of the contractor and not involving the contractor's fault or negligence and not foreseeable, either in its sovereign or contractual capacity. Such events may include but are not restricted to Acts of God, wars or revolutions, fires, floods, epidemics, quarantine restrictions and fright embargoes etc. Whether a "Force majeure" situation exists or not, shall be decided by TSREDCO and its decision shall be final and binding on the contractor and all other concerned.

3.20.2 In the event that the contractor is not able to perform his obligations under this contract on account of force majeure, he will be relieved of his obligations during the force majeure period. In the event that such force majeure extends beyond six months, TSREDCO has the right to terminate the contract in which case, the security deposit shall be refunded to him.

- 3.20.3 If a force majeure situation arises, the contractor shall notify TSREDCO in writing promptly, not later than 14 days from the date such situation arises. The contractor shall notify TSREDCO not later than 7 days of cessation of force majeure conditions. After examining the cases, TSREDCO shall decide and grant suitable additional time for the completion of the work, if required.
- 3.20.4 Notwithstanding the provisions of clauses contained in this tender document; the contractor shall not be liable to forfeit
- a. Security deposit for delay and
 - b. Termination of contract; if he is unable to fulfill his obligation under this contract due to force majeure conditions.

3.21. Language

All documents, drawings, instructions, design data, calculations, operation, maintenance and safety manuals, reports, labels and any other data shall be in English Language. The contract agreement and all correspondence between the TSREDCO and the bidder shall be in English language

3.22. Other Conditions

The Successful bidder shall not transfer, assign or sublet the work under this contract or any substantial part thereof to any other party without the prior consent of TSREDCO in writing.

The Successful bidder shall not display the photographs of the work and not take advantage through publicity of the work without written permission of TSREDCO and owner of the Rooftop.

The Successful bidder shall not make any other use of any of the documents or information of this contract, except for the purposes of performing the contract.

The Components should be manufactured in India only. However, these items should meet the Technical specification and standards mentioned in TENDER.

3.23. Rights & Remedies under the contract only for the Parties:

This contract is not intended & shall not be construed to confer on any person other than the TSREDCO & Successful bidder hereto, any rights and / or remedies herein.

4. Evaluation of Financial bid

Bids qualifying in Technical Evaluation shall only be evaluated in this stage. Financial Bid (Envelope II) of the Qualified Bidders shall be opened in presence of the representatives of such Qualified Bidders, who wish to be present, on a date as may be intimated by TSREDCO to the Bidders through TSREDCO website www.tsredco.telangana.gov.in Email. The evaluation of Financial Bid shall be carried out based on the information

furnished in Envelope II (Financial Bid). The Financial Bid submitted by the Bidders shall be scrutinized to ensure conformity with the tender. Any Bid not meeting any of the requirements of this tender may cause the Bid to be considered “Non-responsive” at the sole decision of the TSREDCO.

5. Successful Bidder(s) Selection

- 5.1. Letter(s) of Allocation (LOA): The Letter(s) of Allocation (LOA) shall be issued to all such Successful Bidders(s) selected as per the provisions of terms and conditions.
- 5.2. Each Successful Bidder shall acknowledge the LOA and return duplicate copy with signature & stamp of the authorized signatory of the Successful bidder to the TSREDCO within Seven (7) days of issue of LOA.
- 5.3. If the Successful Bidder, to whom the Letter of Allocation has been issued does not fulfil any of the conditions specified in Bid document, the TSREDCO reserves the right to annul/cancel the award of the Letter of Allocation of such Successful Bidder and forfeit the Bid Bond. In order to speed up the implementation of the work L2 or/and L3 will be negotiated to L1 rate and award the work.
- 5.4. The TSREDCO at its own discretion, has the right to reject any or all the Bids without assigning any reason whatsoever, at its sole discretion.
- 5.5. There shall be no negotiation on the quoted Project cost between the TSREDCO and the Bidder(s), during the process of evaluation.
- 5.6. If the Bidder fails to commission the project within specified time, penalty on per day basis calculated for the Performance Security on a 3 month's period would be levied. After 3 months, the project will get cancelled and the total PBG would be forfeited.

6. Penalty for Delay in Project Implementation

Project completion shall be **60 Days from the date of Issuing of Purchase order**. Failure of non-compliance of same shall lead to forfeiture of EMD.

7. Completion Certificate:

Application for completion certificate: When the Successful bidder fulfils his obligation under the Contract, he shall be eligible to apply for Completion Certificate. TSREDCO officials shall normally issue to the Successful bidder the Completion Certificate within 15days after receiving any application therefore from the Successful bidder after verifying from the completion documents and satisfying himself that the Work has been completed in accordance with and as set out in Contract.

8. Deductions from the Contract price: Special Attention

While preparing the Financial Bid the Bidders shall also take into account the following:

- a) Infrastructure & Construction Facilities, Preliminary, Enabling & Ancillary works whatsoever required by them for successful completion of the Project in the specified time schedule.
- b) Indian Income Tax and Surcharge on Income Tax on Salaries of Expatriates etc.
- c) Corporate Income Tax.

- d) All Taxes, Duties and expenses such as Excise Duty, Sales Tax on Indian Supplies, Customs Duty and Custom Clearance on imported items, transportation and storage at site etc.
- e) All local duties, royalties, octroi etc.
- f) All applicable taxes, cess charges etc., on works contract etc. in the State of Telangana.

The following recoveries will be made towards Taxes.

1. GST/TDS or as applicable will be recovered.
2. Income Tax at 2.00 % or as applicable
3. GST @ 18 % or as applicable on I&C Component shall be deducted or as applicable
4. Any other applicable Taxes.

9. Payment terms:

Payment will be settled as per the below:

- 1) 70% of purchase order value will be settled on installation and commissioning of UPS systems and handing over of the systems to TSREDCO officials.
- 2) Contractor shall submit the performance and Warranty Certificates for a period of 3 Years for Inverter & other components and performance guaranty, warranty of 20 kVA Online UPS system.
- 3) 20% will be paid after 30 days of Successful performance and satisfactory of beneficiary.
- 4) Balance 10% of the contract value shall be returned for CMC period of 3 years from the date of commissioning. The amount will be released after completion of three years (i.e., CMC period)

10. Corrupt or Fraudulent practices

The TSREDCO requires that Successful Bidders/ Contractors should follow the highest standard of ethics during the execution of contract.

In pursuance of this policy, the TSREDCO defines, for the purposes of this provision, the terms set forth as follows:

- “corrupt practice” means the offering, giving, receiving or soliciting of anything of value to influence the action of a public official in the bid process or in contract execution; and
- “fraudulent practice” means a misrepresentation of facts in order to influence a bid process or the execution of a contract to the detriment of the TSREDCO /Govt scheme, and includes collusive practice among Bidders (prior to or after Bid submission) designed to establish Bid prices at artificial non-competitive levels and to deprive the TSREDCO of the benefits of free and open competition;
- Will declare a firm ineligible/debarred, either indefinitely or for a specific period of time, a GOVT contract if at any time it is found that the firm has engaged in corrupt or fraudulent practices in competing for, or in executing, a Government/ TSREDCO schemes.

II. Technical Specifications

The proposed projects shall be commissioned as per the technical specifications given below. Any shortcomings will lead to cancelation of subsidy in full or part as decided by TSREDCO & Competent Authority's decision will be final and binding on the bidder.

1. General Specifications

1	UPS Type	DSP control based ON-LINE Double Conversion Technology
2	Capacity	20kVA/18KW
3	Battery Backup	60 min at full load
4	Supply	3-Phase Input, 3-Phase Output
5	Operation Mode Normal (online)	Emergency, Recharge, bypass, Maintenance bypass
6	Rectifier / Inverter	IGBT with PFC control technology only
7	Transformer	Isolation transformer only on Input side
8	Total Efficiency AC/AC at 100% load	≥ 94% (Online mode)
9	Parallel configuration	≥ 3 units (System should have option of paralleling 3 units if required)

2. Input

1	Voltage configuration	Three-phase, 3-wire
2	Voltage rating	400V,
3	Min/ Max input voltage	320V to 480 V
4	Nominal Frequency	50 Hz
5	Max/Min frequency	50 Hz +/- 10%
6	Phase	Three Phase
7	Inrush Current	700% of full load current maximum
8	Current Limit	125% of nominal AC input current maximum
9	Surge Protection	As per IEC standard
10	THDi	≤ 3% and should constant from 20% to 100% load
11	Power factor	> 0.99
12	Voltage configuration	Three-phase, 3-wire

3. Output

1	Voltage Configuration	Three-phase, 4-wire plus ground
2	Voltage	400V/415 V
3	Voltage regulation	<p>a. ±1% three-phase RMS average for a balanced three-phase load for the combined variation effects of input voltage, connected load, battery voltage, ambient temperature, and load power factor.</p> <p>b. ±2% three-phase RMS average for a 100% unbalanced load for the combined variation effects of input voltage, connected load, battery voltage, ambient</p>

		temperature, and load power factor.
4	Voltage Distortion	$\leq 3\%$ total harmonic distortion (THD) for linear loads. and $\leq 5\%$ THD for 100% nonlinear loads.
5	Crest factor	3:1
6	Frequency	50 Hz and Pure sine wave
7	Frequency regulation	50 Hz +/- 0.1%
8	Output power factor	0.9 or better
9	Overload Capacity	125% for ten minutes (without bypass source).
10		150% for one minute (without bypass source).
11	Wave form	Pure Sinusoidal
12	Output Voltage adjustment	$\pm 5\%$ (Software Controlled adjustment)

4. Batteries

1	Make	Reputed make
2	Type	GEL
3	Rated battery life	min 5 years
4	Battery back up	60 mints with full load
5	Battery stand	Suitable battery stands with MS fabricated with powder coated.
6	Battery link and cabling	Suitable battery link and interconnecting copper cable from UPS to battery shall be supplied by vendor

The accumulator bank must have an expected service life of seven years with a capacity of 60 minutes at 100 % load. Detailed Battery backup calculation sheet and manufacturer charging/discharging characteristic chart shall be attached along with the technical bid also Battery type should be specified in the document

5. On-Line Battery Test

The UPS shall be provided with Auto On-Line Battery Test feature. The test shall ensure the capability of the battery to supply power to the inverter while the load is supplied power in the normal mode.

6. Battery Charger:-

The battery charger shall recharge the battery to 90% of its fully charged condition preferably within six to eight (6-8) hours and at the same time supplying full load current to the system. The charger should have the Temperature Compensated Charging. The battery charger output voltage shall be automatically adjusted in proportion to the ambient temperature of the battery to avoid over-charging.

The system must include one or more battery chargers:

- with IGBT technology;
- separate from the rectifier;
- with charging voltage independent from the DC bus voltage;

- dedicated and independent for each accumulator bank;

The maintenance charge voltage must be automatically regulated in relation to the temperature of the battery compartment. The battery compartment must be equipped with a temperature sensor for this purpose. The following parameters must be adjustable and configurable:

- Maximum recharge current limit;
- Constant float mode current and voltage;
- Switching threshold from fast recharge mode to maintenance mode

The battery charge regulation and control circuit shall also provide the following functions:

- Continuous monitoring of the battery circuit (battery interrupted) with visual alerts on the local user interface;
- Monitoring of battery efficiency, via partial discharge at settable intervals; the check consists in continuously monitoring the discharge current and comparing it with the ideal discharge curve;
- Continuous monitoring of the battery charger's output voltage to ensure it remains within the limits required to optimize battery life. Recharging voltage anomaly alerts followed by deactivation of the charger;
- Residual battery capacity display.

7. Isolation Transformer

Suitable rating isolation transformer with copper wound shall be supplied and installed along with each UPS on Input side and test reports (Efficiency and losses) of the isolation transformer shall be enclosed along with the technical bid. The cooling of Isolation transformer shall be by forced cooling with inbuilt cooling fans. Supplier shall specify the Isolation transformer make and other specification along with technical bid for evaluation purpose.

8. Operating Ambient Temperature:-

UPS Module : 0°C to 45 °C
Battery : 30 °C ± 5 °C.

9. **Cooling:** Cooling of the UPS shall be by forced air and there should be redundant fans.

10. Grounding

The AC output neutral shall be electrically isolated from the UPS chassis. The UPS chassis shall have an equipment ground terminal. Provisions for local bonding shall be provided.

11. Wiring

Installation and required accessories like cables, lugs etc will be in the scope of supplier and Wiring practices, materials and coding shall be in accordance with the requirements of the National Electrical Code (NFPA 70). All bolted connections of bus bars, lugs, and cables shall be in accordance with requirements of the National Electrical Code and other applicable standards.

Conformity to standards

The system must conform to the following standards:

- Safety: EN62040-1.
- EMC emissions: EN62040-2.
- EMC immunity: EN62040-2 class C2 and C3.

12. Display & Metering:

- Input AC voltage line-to-line/ line-to-neutral for each phase
- Input AC current for each phase
- Input frequency
- Battery voltage and DC link voltage
- Battery charge/discharge current
- Output AC voltage line-to-line and line-to-neutral for each phase
- Output AC current for each phase
- Output frequency
- I/P & O/P Apparent power for each phase
- I/P & O/P Active power for each phase
- I/P & O/P kWh meter
- Battery time left during battery operation
- The total operating time of the UPS and inverter

13. Alarm Messages

The interface must be able to display at least the following status or event information and UPS monitoring should be web based and user friendly.

- Input power out of tolerance
- Battery charger problem
- Battery test failed
- Low battery warning
- Low battery shutdown
- DC bus overvoltage
- Bypass frequency out of range
- Load transferred to bypass
- Excessive retransfers attempted
- Static switch failure
- UPS output not synchronized to bypass power
- Output under voltage
- Output overvoltage
- Output over current
- System output overloaded
- Load transferred to bypass due to overload
- Overload shutdown
- Control error
- Critical power supply failure
- Load transferred due to internal protection
- External shutdown (remote EPO activated)
- Fan failure
- Over temperature shutdown
- UPS is on battery operation
- UPS is on bypass operation
- Battery mode with mains supply / no mains supply
- battery low charge warning
- battery on fast charge

- abnormal battery recharge voltage
- minimum battery voltage
- battery fault
- battery charge circuit broken
- battery charger system fault
- overload alert
- ventilation fault alert
- out of range temperature/humidity alert
- standby power supply out of tolerance

A predictive/statistical algorithm and interpretation of logged data (number, duration and type of events) regarding:

- out of tolerance Input voltages
- overloads
- battery mode operation
- switching to standby power supply
- over- temperature

The UPS must predict potential criticalities for the UPS itself, due to ambient conditions, in advance and alert the maintenance service / monitoring system.

14. Diagnostics

The system will be equipped with a microprocessor able to run full machine diagnostics to determine:

- Self-compensation of components to ensure stable settings over time;
- Acquisition of the main diagnostic and monitoring information by computer (local or remote);
- First installation procedure wizard;
- Full test procedure at full load on UPS, with no further external loads (auto-charge mode) o rectifier;
 - inverter;
 - bypass;
 - power bus;
 - cables, contactors and fuses;

15. Uninterrupted Transfer / Retransfer

The transfer control logic shall automatically turn on the static transfer switch, transferring the critical AC load to the bypass source, after the transfer logic senses any of the following conditions:

- Inverter overload capacity exceeded
- Critical AC load overvoltage or under voltage
- Battery protection period expired
- Out of tolerance inverter input DC voltage

- Over temperature
- Inverter fault

Retransfer of the critical AC load from the bypass source to the inverter output shall be automatically initiated unless inhibited by manual control.

16. Maintenance bypass

The manual bypass switch will be provided internally and must ensure that equipment downstream of the UPS is supplied directly by the UPS upstream power source when rectifier, inverter and static

switches are open. Switching to the manual bypass and back will be possible without load supply interruption (Make Before Break).

17. Battery Circuit Breaker

A suitable battery circuit breaker (DC breaker) shall be provided to isolate the battery from the UPS. This breaker shall be in a separate wall mounted NEMA-1 enclosure. The battery breaker provides a manual disconnecting means, short circuit protection, and over current protection for the battery system. When opened, there shall be no battery voltage in the UPS enclosure. The UPS shall be automatically disconnected from the battery when the battery reaches the minimum discharge voltage level. **During any abnormalities (over charging)/accident, UPS should be able to trip the battery breaker automatically. So necessary arrangement needs to be done.**

18. Other Protections

- Battery protection period expired Input Over/ under voltage, Output over/ under voltage, Output short circuit, Inverter overload, Rectifier overload, Inverter Overvoltage/under voltage, over temp, surge protection.
- It must have Generator Compatibility.
- Must have complete protection for EMI / RF as per the IEC standard.
- Units have built in surge, spike and line noise protection.
- It should have Intelligent Battery Management system
- UPS should be compact and with small footprints.
- UPS sound level should be within the limit as per the standard.

19. Rating test

8 hrs full load endurance test shall be carried out at factory premises and followed by 110% load for 1 hr period. Test to ascertain the rated and transient capacities and overall efficiency of the system will be carried out at factory and with the battery backup of 60 minutes with full load at the factory. Satisfactory performance at this stage meeting the prescribed limits will only be construed as acceptance of the UPS. The quoted UPS which falls short of our prescribed minimum overall efficiency will not be accepted.

If the full load endurance test needs to be conducted at TSREDCO, then vendor should arrange all load banks with necessary cable arrangement along with metering (Digital oscilloscope- to find out transients and I/P & O/P wave forms). The cost for energy consumption during the endurance test shall be deducted in the final bill after due certification from the Engr-in-charge.

Note: The Contractors shall submit all technical supporting document details of the system along with the tender and also should attach the Battery backup calculations and battery discharge characteristics catalog along with the technical bid for evaluation purpose.

Prequalification checklist:

S.No.	Description	Bidder Response	Details of Enclosures
1	UPS make		
2	Battery make		
3	Capacity: 20kVA/18KW or better	YES/ NO	
4	Overall efficiency AC/AC at 100% load > 95%	YES/ NO	
5	Input power factor @ > 0.99	YES/ NO	
6	Output power factor: 0.9 or better	YES/ NO	
7	Input voltage range: +/- 20%	YES/ NO	
8	Input THDi: <3%	YES/ NO	
9	Output voltage and frequency regulation: voltage: +/- 1% and Frequency: +/- 0.1%	YES/ NO	
10	Battery type: GEL Battery backup: 60mins	YES/ NO	
11	Local service team & team strength	YES/ NO	
12	Warranty/guaranty and rating test	YES/ NO	

III. Financial Bid

The prices shall be quoted online through e-tender portal. However, the financial bid shall be submitted in envelope II as mentioned in the below format (On company letter head).

Sl. No	Particulars of the works	QTY (No.)	Rate per unit (Rs.)	GST (Rs.)	Total (Rs.)	Grand Total (Rs.)
A	B	C	D	E	F=D+E	G=FXC
1	20 kVA online UPS as per technical specifications					
2	Battery bank for 60 Min back up along with interconnecting cables, cable from UPS to Battery Bank with battery stand					
3	Installation & Commissioning charges					
4	Comprehensive AMC for UPS and batteries for a period of 3 years after commissioning					
Total (in Rs.)						
Total cost in words:						

Date: Signature:.....

Place: Name of the Firm/ Tenderer

IV. Formats for submitting tender

Format-1

Covering Letter
(The covering letter should be on the Letter Head of the Bidding Company)

Ref. No. _____

Date: _____

From: _____ (Insert name and address of Bidding Company)

_____ ,

Tel. #:

Fax #:

E-mail address#

To

The VC & Managing Director,
M/s. TSREDCO Ltd,
Hyderabad.

Dear Sir,

Sub: -Bid for “for Supply and Installation of 20kVA online UPS System with GEL batteries (One-hour back-up) along with 3 years warranty at Telangana State Renewable Energy Development Corporation Limited (TSREDCO), Hyderabad”–reg.

We, the undersigned....[insert name of the ‘Bidder’] having read, examined and understood in detail the tender Document for Supply and Installation of 20kVA online UPS System with GEL batteries (One-hour back-up) along with 3 years warranty at Telangana State Renewable Energy Development Corporation Limited (TSREDCO), Hyderabad, Telangana, hereby submit our Bid comprising of Financial Bid and Technical Bid. We confirm that neither we nor any of our Parent Company / Affiliate/Ultimate Parent Company has submitted Bid other than this Bid directly or indirectly in response to the aforesaid tender.

1. We give our unconditional acceptance to the TENDER, dated.....and TENDER Documents attached thereto, issued by TSREDCO, as amended. This shall also be construed as a token of our acceptance to the TENDER Documents including all its amendments and clarifications uploaded on TSREDCO website.

We shall ensure that we execute such TENDER Documents as per the provisions of the TENDER and all provisions of such TENDER Documents shall be binding on us.

2. We have enclosed a EMD of Rs....., in the form of DD/online payment no.....dated.....from (name of the bank).....
3. We have enclosed tender document fee of Rs....., in the form of DD no dated.....[Insert date of DD from(Insert name of bank providing DD).
4. We have submitted the complete tender document and submitted the relevant documents as per the respective clause of the tender
5. **Acceptance:** We hereby unconditionally and irrevocably agree and accept that the decision made by TSREDCO in respect of any matter regarding or arising out of the TENDER shall be binding on us. We hereby expressly waive any and all claims in respect of Bid process.
6. We confirm that there are no litigations or disputes against us, which materially affect our ability to fulfil our obligations with regard to execution of projects of capacity offered by us.
7. We confirm that we have studied the provisions of the relevant Indian laws and regulations as required to enable us to submit this Bid and execute the TENDER Documents, in the event of our selection as Successful Bidder. We further undertake and agree that all such factors as mentioned in TENDER have been fully examined and considered while submitting the Bid.
8. We are enclosing herewith the Envelope-I (Technical Bid) and Envelope II (Financial Bid) containing duly signed formats, each one duly sealed separately, in one original as desired by you in the TENDER for your consideration.

It is confirmed that our Bid is consistent with all the requirements of submission as stated in the TENDER and subsequent communications from TSREDCO. The information submitted in our Bid is complete, strictly as per the requirements stipulated in the TENDER and is correct to the best of our knowledge and understanding. We would be solely responsible for any errors or omissions in our Bid.

We confirm that all the terms and conditions of our Bid are valid for acceptance for a period of 12 months from the Bid deadline.

We confirm that we have not taken any deviation so as to be deemed non-responsive.

Dated the _____ day of _____, 20....

Thanking you,

We remain,

Yours faithfully,

Name, Designation and Signature of Authorized Person in whose name Power of Attorney/Board Resolution copy.

*Format-2***GENERAL PARTICULARS OF THE BIDDER**

S.No	Particulars	Details
1	Name of the Company	
2	Registered Office Address	
3	Telephone, Telex, Fax No	
4	E-mail	
5	Web site	
6	Authorized Contact Person(s) with name, designation Address and Mobile Phone No., E-mail address/ Fax	
7	No. to whom all references shall be made	
8	Year of Incorporation	
9	Bidding company PAN Number	
10	Bidding company GST Number	
11	Have the bidder/Company ever been debarred By any Govt. Dept. / Undertaking for undertaking any work.	
12	Reference of any document information attached by the Bidder other than specified in the TENDER.	
13	Whether the Bidder wishes to form a Project Company for execution of work	Yes/No/May be
14	Bidding company is listed in India	Yes/No
15	Details of the Ownership structure(Details of persons owning 10% or more of the Total Paid up equity of the Bidding Company in the Format as below	
16	Bid Bond Bank guarantee No	
17	Validity of Bid Bond	
18	<ul style="list-style-type: none"> • Banker E-mail ID, • FAX No of the banker • Correspondence address & Pin Code 	

(Signature of Authorized Signatory)**With Seal**

Format-3**FINANCIAL ELIGIBILITY CRITERIA REQUIREMENT**

To
 Vice Chairman & Managing Director,
 M/s. Telangana State Renewable Energy Development Corp. Ltd,
 Hyderabad.

Dear Sir,

Sub: Bid for Supply and Installation of 20kVA online UPS System with GEL batteries (One-hour back-up) along with 3 years warranty at Telangana State Renewable Energy Development Corporation Limited (TSREDCO), Hyderabad- reg.

We submit our Bid/Bids for 20 kVA Online UPS System with battery bank in Part A and Part B put together for which details of our Financial Eligibility Criteria Requirements are as follows.

Further, we certify that the Financially Evaluated Entity (ies) had an Annual Turnover

Or

Net worth (strike out whichever is not applicable) of Rs.....Crore computed as per instructions provided in above Clause of this TENDER based on unconsolidated audited annual accounts (refer Note-1 below) any of the last 3 Years immediately preceding the Bid Deadline.

Name of Financially Evaluated Entity*	Relationship with Bidding Company**	Financial year	Year of Incorporation	Annual Turnover (Rs. Crore)	Net worth as per tender Clause (in Rs. Crore)

* The Financially Evaluated Entity may be the Bidding Company itself.

** The column for "Relationship with Bidding Company" is to be filled in only in case financial capability of Company and/or Affiliate has been used for meeting Qualification Requirements.

Yours faithfully,

Signature and stamp of Chartered Accountant/Statutory Auditors of Bidding Company	Signature and stamp of Authorized Signatory of Bidding Company.
Name:	Name:
Date:	Date:

Place	Place
-------	-------