



**Institute for Development and Research  
in Banking Technology**  
(Established by Reserve Bank of India)

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**CALL FOR TENDERS FOR**

**SUPPLY, INSTALLATION, TESTING & COMMISSIONING OF 30 KVA/KW  
MODULAR UPS SYSTEM WITH LITHIUM ION BATTERIES PROVIDING 25  
MINUTES BACK UP (AT 30 KVA/KW) WITH 2-YEAR WARRANTY & 5-YEAR  
COMPREHENSIVE AMC POST WARRANTY PERIOD AT SECOND FLOOR OF  
EFC BUILDING (DATA CENTRE), IDRBT CAMPUS, HYDERABAD**

Last date of Submission: **11.06.2025** before **15.00 hours**

**Tender Documents Submitted by:**

M/s \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**Date:**



**T**HE Institute for Development and Research in Banking Technology, (IDRBT), invites tenders for the Supply, Installation, Testing & Commissioning of 30 kVA Modular UPS Systems with Lithium Ion Batteries providing 25-minutes back-up with 2-year warranty and 5 years comprehensive Annual Maintenance Contract (AMC) post the warranty period at the Second Floor of EFC Building (Data Centre), Hyderabad, through a two-part system – 1) Technical Bid 2) Financial Bid.

### **A. ELIGIBILITY CRITERIA**

The Bidder must either be an Original Equipment Manufacturer (OEM) Or Authorized Channel or Business Partner / Dealer of OEM and must fulfil each of the following criteria:

- a) The company should either be a Partnership or a Public Limited Company or a Private Limited Company or Proprietorship firm registered under the Indian Companies Act 1956 / Companies Act 2013.
- b) The firm / company should have an experience of minimum **03** years in relevant field as on 30.04.2025.
- c) The firm / company should have registration with GST, PAN No. (as applicable) and submit the proof of the same.
- d) The firm should produce copy of the IT returns along with Chartered Accountant Certificate for the last three years.
- e) Joint ventures are not accepted.
- f) The bidder should have satisfactorily completed the supply and installation of Modular UPS Systems with Lithium-Ion Batteries as mentioned below during the last **3 (Three) years** ending on **30.04.2025**:
  - i. At least 10 UPS of Minimum 30KVA/KW and above at Hyderabad

(OR)

  - ii. At least 15 UPS of Minimum 30KVA/KW and above in Andhra Pradesh & Telangana

This works should have been executed for Central Govt. Dept. /State Govt. Dept. / Banks / PSU / Reputed Private sector organizations during last 3 years as on 30.04.2025. The work order and the completion certificate shall clearly indicate works completed pertaining to the above-mentioned services and as such the break-up thereof, which has to clearly satisfy the criteria at Para f above.

#### **a) Profit/Loss:**

Bidder should not have incurred any loss (profit after tax should be positive) in at least two years during the last five years ending 31<sup>st</sup> March 2025. This should be reflected in the Audited financial statement, certified by the Chartered

Accountant.

**b) Certificate of Authorisation:**

Authorised Channel Partners / Dealers (as bidders) should submit a scanned copy of valid certificate of Authorisation from the OEM authorizing the bidder as Authorised Channel Partner / Dealer of the OEM to quote for this GeM Bidding by IDRBT.

**c) Undertaking cum Affidavit from OEM / Bidder**

OEM / Authorised Channel Partners / Dealers (as bidders) should submit an undertaking cum affidavit from OEM on stamp paper worth Rs. 500/- indemnifying IDRBT that the OEM will provide the comprehensive after sales service support to IDRBT for a minimum period of 10 years from the date of successful commissioning and provide comprehensive AMC at the rates quoted by their Authorised Channel Partner / Dealer on the bid. This is to be submitted as per the format in Form. A.

**d) Service Centre in Hyderabad:**

The OEM should have a full-fledged service center at Hyderabad. Scanned copy of proof of document with sign and seal to be submitted by the bidder.

Interested Bidders need to submit their details in the format prescribed in Annex. A to F. Please note that financial bids of only those bidders will be considered who qualify in the Technical Criteria.

**B. OTHER TERMS AND CONDITIONS:**

**1. Scope of Work**

- a. Factory Testing, Supply, Installation, Site Testing & Commissioning of 30 KVA/KW Online Modular UPS with 30 KVA/KW rack for mounting the Modular UPS. (price bifurcation to be given for 30 KVA/KW Capacity modular UPS) with 10-year warranty with Lithium Ion Batteries having a capacity of 26.4 kWh minimum (25 minutes back up at 30 KVA/KW) strictly conforming to technical specifications.
- b. Five year comprehensive AMC for the 30 KVA/KW Modular UPS after the warranty period of 2 Years.
- c. The successful bidder L1 will be selected based on the total amount quoted for the UPS, Batteries and 5 Year AMC Charges.
- d. To remove all the old input panels and output panel cables.
- e. To remove the existing 2 nos' of 40KVA UPS system along with the SMF batteries.

The bidder must obtain himself on his own responsibility and his own expenses all information and data that may be required for the purpose of filling this tender document and enter into a contract for the satisfactory performance of the work. The



tenderer will be fully responsible for considering the financial effect of any or all the factors while submitting his tender.

The successful bidder shall complete and maintain the said work in every aspect strictly in accordance with this tender and as per the directions of the Institute to be communicated through the Institute's Engineer.

## **2. EMD & Retention Amount**

Bidders need to submit an EMD of Rs. 80,000/- through a Demand Draft in the Name of IDRBT, Hyderabad. The total Retention Amount shall be 5% of contract value and will be released after successful completion of the defect liability period of 2 years and on submission of Bank Guarantee for the total AMC Charges quoted for the five years.

## **3. Additional Security Deposit**

In case L-1 bidder quotes abnormally low rates, the IDRBT may ask such bidder to deposit Additional Security Deposit (ASD) as decided by IDRBT. On successful completion of work, ASD will be returned to the contractor. In case contractor fails to complete the work in time or as per tender specifications or leaves the job incomplete, the IDRBT will be at liberty to recover the dues from ASD or to forfeit such ASD as the case may be within its sole discretion.

4. No interest shall be paid to the amount retained by the IDRBT as Retention Amount & Additional Security Deposit.

## **5. Signing of Contract Documents**

The successful bidder shall be bound to implement the contract by signing an agreement and conditions of contract attached herewith within 14 days from the receipt of intimation of acceptance of the tender by the IDRBT. However, the written acceptance of the tenders by the IDRBT will constitute a binding agreement between the IDRBT and successful tenderer whether such formal agreement is subsequently entered into or not.

## **6. Completion Period**

Time is essence of the contract. The work should be completed in all respect accordance with the terms of contract within a period of **60 days** from the date of commencement of work.

## **7. Liquidated Damages**

The liquidated damages shall be 0.50% per week subject to a maximum of 5% of contract value for any delay in completion time beyond the given completion time without any valid reason/s.

8. The rate quoted shall be the bidder shall include all costs, allowances, taxes, octroi, etc. including G.S.T.

### **C. DELIVERY, INSTALLATION, TESTING AND COMMISSIONING:**

1. Bidder will have to supply the Product(s) in 'Factory Sealed Boxes' with System OEM seal
2. Delivery, installation, testing and commissioning of the Products shall be made by Bidder/OEM in accordance with the system approved / ordered and within completion time.
3. The delivery will be deemed complete when the products/ components/ associated software/firmware are received in good working condition at the designated locations, mentioned in this Bid.
4. The installation will be deemed to be completed, when the product including all the UPS, Batteries, hardware, accessories/components, firmware/system software, and other associated software have been supplied, installed and operationalized as per the technical specifications and all the features as per the technical specifications are demonstrated and implemented as required, on the systems, to the satisfaction of the IDRBT. Bidder has to resolve any problem faced during installation and operationalization.
5. In addition, Bidder will supply all associated documentation relating to the Products UPS & Batteries/hardware, system software/firmware, etc. The Product(s) are considered accepted (commissioned and operationalized) after signing the acceptance test plan document jointly by the representative of the IDRBT and the Engineer-In-Charge from Bidder/OEM. The component level checking for individual item may be included during the acceptance test. The acceptance test plan document shall be deemed to form a part of the agreement, to be signed between Service Provider and the IDRBT. On the evaluation of the acceptance test results, if required, in view of the performance of the Products (including UPS, batteries, hardware equipment's/ components/ software), as observed during the acceptance test, bidder shall take remedial measures including upgradation of any of the components thereunder, including replacement thereof, at no additional cost to the IDRBT within a fortnight from the date of notification of the same to Bidder. Bidder should ensure that the Product meets the requirements of the IDRBT as envisaged in the Bid.
6. **The details of the documents to be furnished by the Service Provider are specified hereunder: -**
  - i. 2 copies of Vendor's Invoice showing contact number, products description, quantity, unit price and total amount.
  - ii. Delivery Note or acknowledgement of receipt of Products from the consignee or in case of products from abroad, original and two copies of the clean Airway

- Bill.
- iii. 2 copies of packing list identifying contents of each of the package.
  - iv. Insurance Certificate.
  - v. Manufacturer's warranty certificate for Modular UPS.
  - vi. Manufacturer warranty certificates for Lithium Ion Battery
  - vii. Manufacturer Test certificate for Modular UPS
  - viii. Manufacturer Test certificate for Lithium Ion Batteries
  - ix. Operation Manual & Catalogue for the UPS & Batteries
  - x. Third party test report for Modular UPS & Batteries.
7. The above documents shall be received by the IDRBT before arrival of Products (except where it is handed over to the Consignee with all documents). If these documents are not received, Bidder will be responsible for any consequent expenses/action.

#### **D. SERVICES:**

1. Bidder shall ensure that key personnel with relevant skill-sets are available at designated locations for installation and commissioning of the Product.
2. Bidder shall ensure that the quality of methodologies for delivering the Products/Services, adhere to quality standards/timelines stipulated thereof.
3. Service Provider must transfer skills to relevant personnel of the IDRBT, by means of training and documentation.
4. Bidder/OEM shall provide and implement patches/ upgrades/ updates for Products (software/ firmware/ OS) as and when released by Service Provider/ OEM free of cost. Service Provider should bring to notice of the IDRBT all releases/ version changes.
5. Bidder/OEM shall obtain a written permission from the IDRBT before applying any of the patches/ upgrades/ updates. Service Provider has to support older versions of the OS/firmware/middleware etc. in case the IDRBT chooses not to upgrade to latest version.
6. Bidder/OEM shall provide maintenance support for the Product including UPS & Batteries, embedded software/ OS/ middleware etc. over the entire period of Warranty & AMC.
7. All product updates, upgrades & patches shall be provided by Bidder/OEM free of cost during warranty and AMC period.
8. Service Provider shall keep the IDRBT explicitly informed of the end of support dates on related Products including UPS & Batteries, embedded software/ OS/ middleware etc., and should ensure support during warranty and AMC period.

## E. INSPECTION AND TESTING:

1. The IDRBT reserves the right to carry out pre-shipment inspection and testing of the UPS & Batteries at OEM facility.
2. The OEM / bidder shall have all required facilities and instruments (such as load bank, variacs, power analysers, Digital Monitors, other instruments etc.) to carry out all the tests at the factory satisfactorily before acceptance by IDRBT. A list of Tests prescribed is enclosed in Annexure-A. All the tests should be conducted in the presence of any one of the agencies prescribed by the Institute with IDRBT's Officials.
3. The tests shall be carried out and certified by the Manufacturer / OEM and any one of the agencies (third party) specified hereunder a) SAMEER or b) ETDC or c) ERTL or d) CPRI or e) ERDA or f) IITs g) NITs, etc.
4. If the UPS and or Batteries does not conform to specifications either during factory test or at site, the IDRBT reserves the right to reject the same. The successful tenderer shall then have to replace the same at their own cost with a new UPS and or Batteries conforming to the specifications.
5. Bidder shall intimate the IDRBT one week before proposed date of conducting inspection and testing of the UPS & Batteries to enable IDRBT Authorised Officer/Engineer-In-Charge to witness the same. All tests should be completed on the same day positively.
6. If Batteries are directly shipped to site, full load back-up time testing and battery verification is to be conducted at the site at the cost of bidder
7. In case of failure by Bidder/OEM to provide necessary facility / equipment at his premises, all the cost of such inspection like travel, boarding, lodging and other incidental expenses of the IDRBT's Officials and Engineer-In-Charge /Consultant should have to be borne by Bidder.
8. The test instruments used for the testing and commissioning of UPS systems should have Valid Calibration Certificate and the same is to be produced to IDRBT for verification.
9. Successful conduct and conclusion of inspection and testing shall be the sole responsibility of Service Provider.
10. In the event of Product failing to pass the inspection and tests, as per the specifications given, Service Provider shall rectify and deliver the product after re-inspection within the timeline mentioned in the bid.
11. The inspection and tests may also be conducted at the point of delivery and / or at the Products' final destination. Reasonable facilities and assistance, including test instruments and its connections, etc., shall be furnished, at no charge to the IDRBT.

12. Nothing stated herein above shall in any way release Service Provider from any warranty or other obligations under this Bid.
13. The IDRBT's right to inspect, test and where necessary reject the Products after the Products arrival at the destination shall in no way be limited or waived by reason of the Products having previously being inspected, tested and passed by the IDRBT or its representative prior to the Products shipment from the place of origin by the IDRBT or its representative prior to the installation and commissioning.
14. Nothing stated hereinabove shall in any way release Bidder/OEM/Service Provider from any warranty or other obligations under this Bid.

#### **F. WARRANTY AND ANNUAL MAINTENANCE CONTRACT:**

1. Service Provider shall support the Product and its associated items/components including UPS & Batteries /OS/firmware during the period of warranty and AMC (2 + 5 Years). After 7 years, AMC will be continued at mutually agreed terms and conditions and upon rates within reasonable limits
2. During the warranty and AMC period, Bidder/OEM will have to undertake comprehensive support of the entire Product (UPS / Batteries / hardware / components / operating software / firmware) supplied by them at no additional cost to the IDRBT. During the support period (warranty and AMC), Bidder/OEM shall maintain the Product (UPS/Batteries/ hardware/ software, etc.) to comply with parameters defined for acceptance criteria and Service Provider shall be responsible for all costs relating to labour, spares, maintenance (preventive and corrective), compliance of security requirements and transport charges from and to the designated site(s) in connection with the repair/ replacement of the Product (UPS/Batteries/ hardware/ equipment/ components/ software or any component/ part there under), which, under normal and proper use and maintenance thereof, proves defective in design, material or workmanship or fails to conform to the specifications, as specified.
3. During the support period (warranty and AMC), Bidder/OEM shall ensure that services of professionally qualified personnel are available for providing comprehensive on-site maintenance of the Product and its components as per the IDRBT's requirements. In case of failure of Product (UPS/Batteries, hardware, system software or any of its components), Bidder/OEM shall ensure that Product is made operational to the full satisfaction of the IDRBT within the given timelines. Bidder / OEM shall provide preventive maintenance schedules as per periodicity defined in Bid.
4. On site comprehensive warranty for the Product would include free replacement of spares, parts, kits, resolution of problem, software if any, in Product.
5. Support (Warranty/ AMC) would be on-site and comprehensive in nature and must have back to back support from the OEM/Service Provider. Undertaking for the same

is required to be submitted by Bidder, duly endorsed by the OEM that in case Service Provider/Bidder fails to provide Services, then OEM shall provide the same at no extra cost, to the satisfaction of the IDRBT. OEM/Bidder/Service Provider needs to warrant Products against defect arising out of faulty design, materials, etc. during the specified support period.

6. Service Provider has to provide support for UPS & Batteries/hardware and other pre-installed software components/system software during the specified period of the hardware on which these software and operating system will be installed. Service Provider shall repair or replace worn out or defective parts at his own cost.
7. In the event of system break down or failures at any stage, protection available, which would include the following, shall be specified:
  - Diagnostics for identification of systems failures
  - Digital Display of parameters
  - Auto restart facility, Overload protection
  - Short circuit protection
  - Earth fault protection
8. Service Provider support staff should be well trained to effectively handle queries raised by the employee(s) or authorized user(s) of the IDRBT.
9. Escalation matrix shall be made available to the IDRBT once in each quarter and each time the matrix gets changed.

## **G. PENALTIES/AMC CONDITIONS**

As in Appendix-A of this Tender Document.



## GENERAL CONDITIONS OF CONTRACT

### 1. Contract Agreement

On receipt of intimation of the acceptance of tender from the IDRBT, the successful tenderer shall be bound to implement the contract and within fifteen days there of shall sign an agreement in a non-judicial stamp paper of appropriate value.

### 2. Materials, Appliances and Employees

Unless or otherwise specified the contractor shall provide and pay for all materials, labour, water, power, tools, equipment transportation and any other facilities that are required for the satisfactory execution and completion of the work. Unless or otherwise specified all materials shall be new and both workmanship and materials shall be of best quality. The contractor shall at all times enforce strict discipline and good order among his employees and shall not employ any unfit person or anyone not skilled in the work assigned. Workman whose work or behaviour is found to be unsatisfactory by the IDRBT shall be removed from the site immediately.

### 3. Permits, Laws and Regulations:

Permits and licenses required for the execution of the work shall be obtained by the contractor at his own expense. The contractor shall give notices and comply with the regulations, laws, ordinances and rules, applicable to the contract. If the contractor observes any discrepancy between the drawings and specifications, he shall promptly notify the Engineer-In-Charge, IDRBT. If the contractor performs any act, which is against the law, rules and regulations he shall meet all the costs arising there from and shall indemnify and keep the IDRBT indemnified of any legal actions arising there from.

### 4. Setting Out Work:

The contractor shall set out the work and be responsible for the true and perfect setting out of the same and for the correctness of the positions, levels, dimensions, and alignment of all parts thereof and get it approved by the Engineer before proceeding with the work.

### 5. Protection of works and property:

The contractor shall continuously maintain adequate protection of all his work from damage and shall protect the IDRBT's properties from injury or loss arising in connection with contract. He shall make good any such damage, injury, loss caused due to his fault or negligence (or fault/negligence caused by his employees) except the causes beyond his control

The contractor shall take all precautions for safety and protections of his employees on the work and shall comply with all applicable provisions of Govt. and local bodies' safety laws and building codes to prevent accidents, or injuries to persons or property on about or adjacent to his place of work. The contractor shall take adequate



insurance covers. The policy may be taken in joint names of the contractor and the IDRBT and the original policy may be submitted to the IDRBT.

#### **6. Inspection of work:**

The IDRBT or their representatives shall at all reasonable times have free access to the work site and / or to the workshop, factories, or other places where materials are lying or from where they are obtained and the contractor shall give every facility to the IDRBT and their representatives necessary for inspection and examination and test of the materials and workmanship.

#### **7. Assignment and Subletting**

The whole of work included in the contract shall be executed by the contractor and he shall not directly entrust and engage or indirectly transfer, assign or underlet the contract or any part or share thereof or interest therein.

#### **8. Quality of Materials, Workmanship & Test**

All materials and workmanship shall be best of the respective kinds described in the contract and in accordance with Engineer-In-Charge-In-Charge/consultant instructions and shall be subject from time to time to such tests as the Engineer-In-Charge-In-Charge/consultant may direct at the place of manufacturing or fabrication or on the site or an approved testing laboratory. The contractor shall provide such assistance, instruments, machinery, labour, and materials as are normally required for examining, measuring, sampling and testing any material as may be selected and required by the IDRBT.

#### **9. Cost of tests**

The cost of conducting any test shall be borne by the contractor if such test is intended by or advised by the Institute.

#### **10. Obtaining Correct Information**

No claim by the contractor for additional payment shall be entertained which is consequent upon failure on his part to obtain correct information as to any matter affecting the execution of the work.

#### **11. Contractor's Superintendence**

The contractor shall give necessary personal superintendence during the execution the work and as long, thereafter, as the Engineer-In-Charge may consider necessary until the expiry of the defects liability period.

#### **12. Quantities**

The bill of quantities (BOQ) unless or otherwise stated shall be deemed to have been prepared in accordance with the Indian Standard Method of Measurements and quantities. The rate quoted shall remain valid for variation of quantity against individual item to any extent.

### **13. Virtual Completion Certificate (VCC)**

On successful completion of entire works covered by the contract to the full satisfaction of the IDRBT, the contractor shall:

- a. Enable the Institute's Engineer to carry out all the required checks and measurements.
- b. Clear the site of all scaffolding, wiring, pipes, surplus materials, contractor's labour equipment and machinery, etc.
- c. All defects / imperfections have been attended and rectified as pointed out by the Engineer-In-Charge to the full satisfaction of IDRBT.

Upon the satisfactory fulfilment by the contractor as stated above, the contractor may apply to the Institute's Engineer for satisfactory completion of work. If completely satisfied, the Institute's Engineer shall issue a VCC.

### **14. Insurance of works**

Without limiting his obligations and responsibilities under the contract, the contractor shall insure in the joint names of the IDRBT and the contractor against all loss of damages from whatever cause arising other than the excepted risks, for which he is responsible under the terms of contract and in such a manner that the IDRBT and contractor are covered for the entire period of work. The contractor should also cover during the period of maintenance for loss or damage arising from a cause, occurring prior to the commencement of the period of maintenance and for any loss or damage occasioned by the contractor in the course of any operations carried out by him for the purpose of complying with his obligations under clause.

### **15. Damage to persons and property**

The contractor shall indemnify the IDRBT against all losses and claims in respect of injuries, damages to any person or material or physical damage to any property whatsoever which may arise out of or in consequence of the execution and maintenance of the works and against all claims proceedings, damages, costs, charges and expenses whatsoever in respect of or in relation thereto except any compensation of damages for or with respect to:

- i. Injuries or damages to persons or properties which are unavoidable result of the execution or maintenance of the works
- ii. Injuries or damage to persons or property resulting from any act or neglect of the contractor, their agents, employees
- iii. **Contractor to indemnify IDRBT**

The contractor shall indemnify and keep indemnified the IDRBT against all claims, proceedings, damages, costs, charges and expenses related to this work.



iv. **Contractor's Superintendence**

The contractor shall fully indemnify and keep indemnified the IDRBT against any action, claim, or proceeding relating to infringement or use of any patent or design or any alleged patent or design rights and shall pay any royalties which may be payable in respect of any article or part thereof included in the contract. In the event of any claim made under or action brought against IDRBT in respect of such matters as aforesaid the contractor shall be immediately notified thereof and the contractor shall be at liberty, at his own expenses to settle any dispute or to conduct any litigation that may arise there from, provided that the contractor shall indemnify the IDRBT.

v. **Accident or Injury to Workman:**

The IDRBT shall not be liable for or in respect of any damages or compensation payable at law in respect or in consequence of any accident or injury to any workmen or other person in the employment of the contractor or any sub- contractor, save and except an accident or injury resulting from any act or default of the IDRBT or their agents, or employees. The contractor shall indemnify and keep indemnified IDRBT against all such damages and compensation, save and except as aforesaid, and against all claims, proceedings, costs, charges and expenses whatsoever in respect thereof or in relation thereto.

vi. **Insurance against accidents etc. to workmen**

The contractor shall insure against such liability with an insurer approved by the IDRBT during the whole of the time that any persons are employed by him on the works and shall, when required, produce to the Engineer / IDRBT such policy of insurance and receipt for payment of the current premium.

vii. **Remedy on Contractor's failure to insure**

- a) If the contractor fails to effect and keep in force the insurance referred to above or any other insurance which he may be required to effect under the terms of contract, then and in any such case the IDRBT may effect and keep in force any such insurance and pay such premium or premiums as may be necessary for that purpose and from time to time deduct the amount so paid by the IDRBT as aforesaid and also deduct 15% of contract value from any amount due or which may become due to the contractor, or recover the same as debt from the contractor.
- b) Without prejudice to the other rights of the IDRBT against contractors, in respect of such default, the IDRBT shall be entitled to deduct from any sums payable to the contractor the amount of any damages costs, charges, and other expenses paid by the IDRBT and which are payable by the contractors. The contractor shall upon settlement by the insurer of any claim

made against the insurer pursuant to a policy taken under this clause, proceed with due diligence to rebuild or repair the works destroyed or damaged. In this event all the monies received from the insurer in respect of such damage shall be paid to the contractor and the contractor shall not be entitled to any further payment in respect of the expenditure incurred for rebuilding or repairing of the materials or goods destroyed or damaged

## **16. Time for completion**

Time is essence of the contract and shall be strictly observed by the contractor. The entire work shall be completed within a period of **60 days** from the date of issuance of work order.

## **17. Action when the whole security deposit is forfeited**

- a. If the bidder fails to execute the scope of work completely and totally
- b. If the bidder fails to complete the work within the given time frame.
- c. If the bidder rescinds/withdraws from the contract.
- d. In the case of the failure of the contractor, to employ labour paid by the IDRBT and to supply materials to carry out the work, or part of the work, debiting the contractor with the cost of the labour and materials cost of such labour and materials as worked out by the Engineer shall be final and conclusive against the contractor
- e. To measure up the work of the contractor, and to take such part thereof as shall unexecuted, out of his hands, and to give it to another contractor to complete in which case any expenses which may be incurred in excess of the sum which would have been paid to the original contractor, if the whole work had been executed by him ( The amount of which excess the certificates in writing of the Engineer shall final and conclusive) shall be borne by original contractor and may be deducted from any money due to him by IDRBT under the contract or otherwise, or from his security deposit or the proceeds of sale thereof, or sufficient part thereof.

In the event of any of above courses being adopted by the IDRBT the contractor shall have no claim to compensation for any loss sustained by him by reasons of his having purchased or procured any material or entered into any engagements or make any advances on account of, or with a view to the execution of the work or the performance of the contract and in case the contract shall be rescinded under the provision aforesaid, the contractor shall not be entitled to recover or to be paid any sum or any work thereto for Actually performed under this contract, unless, and until the Engineer will have certified in writing the performance of such work and the value payable in respect thereof, and he shall



only be entitled to be paid the value so certified.

## **18. IDRBT's right to terminate the contract**

- i. If the contractor commits any 'Act of insolvency' or shall be adjudged an insolvent or being an incorporated company shall have an order for compulsory winding up voluntarily or subject to the supervision of Govt. and of the Official Assignee of the liquidator in such acts of insolvency or winding up shall be unable within seven days after notice to him to do so, to show to the reasonable satisfaction of the Engineer that he is able to carry out and fulfil the contract.
- ii. Or if the contractor (whether an individual firm or incorporated Company) shall suffer execution to be issued or shall suffer any payment under this contract to be attached by or on behalf of any of the creditors of the contractor.
- iii. Or if the contractor shall assign or sublet this contract
- iv. Or if the contractor:
  - a) has abandoned the contract; or
  - b) has failed to commence the works, or has without any lawful excuse under these conditions suspended the progress of the works for 14 days after receiving from the IDRBT through the Engineer written notice to proceed, or
  - c) has failed to proceed with the works with such diligence and failed to make such due progress as would enable the works to be completed within the time agreed upon, or has failed to remove the materials from the site or to pull down and replace work within seven days after written notice from the IDRBT through the Engineer that the said materials were condemned and rejected by the Engineer under these conditions; or has neglected or failed persistently to observe and perform all or any of the acts matters or things by this contract to be observed and performed by the contractor for seven days after written notice shall have been given to the contractor to observe or perform the same or has to the detriment of good workmanship or in defiance of the IDRBT or Engineer instructions to the contrary subject any part of the contract. Then and in any of said cases the IDRBT and or the Engineer, may not withstanding any previous waiver, after giving seven days' notice in writing to the contractor, determine the contract, but without thereby affecting the powers of the IDRBT or the Engineer or the obligation and liabilities of the contractor the whole of which shall continue in force as fully as if the contract had not been determined and as if the works subsequently had been executed by or on behalf of the contractor. And, further the IDRBT through the Engineer their agents or employees may enter upon and take possession of the work and all plants, took scaffoldings, materials, sheds, machineries lying upon the premises or on the adjoining lands or roads use the same by means of their own employees or workmen

in carrying on and completing the work or by engaging any other contractors or persons to the work and the contractor shall not in any way interrupt or do any act, matter or thing to prevent or hinder such other contractor or other persons employed for complement and finishing or using the materials and plant for the works.

When the works shall be completed or as soon thereafter as convenient the IDRBT or Engineer shall give a notice in writing to the contractor to remove his surplus materials and plants and should the contractor fail to do so within 14 days after receipt of instructions by him the IDRBT sell the same, and shall, adjust the amount realized by such auction. The contractor shall have no right to question any of the act of the IDRBT incidental to the sale of the materials, etc.

## **19. Jurisdiction of Courts**

All disputes, claims and differences arising out of or in connection with this bid document; including its interpretations, validity etc., should be first attempted to be resolved through amicable settlement. If the dispute / difference is not resolved / settled through amicable settlement, the courts in Hyderabad shall have exclusive jurisdiction to try and adjudicate such dispute.

## **20. Force Majeure**

Neither contractor nor IDRBT shall be considered in default in performance of the obligations if such performance is prevented or delayed by events such as but not war, hostilities revolution, riots, civil commotion, strikes, lockout, conflagrations, epidemics, accidents, fire, storms, floods, droughts, earthquakes or ordinances or any act of or for any other cause beyond the reasonable control of the party affected or prevents or delayed. However, a notice is required to be given within 30 days from the happening of the event with complete details, to the other party to the contract, if it is not possible to serve a notice, within the shortest possible period without delay.

- a. As soon as the cause of force majeure has been removed the party whose ability perform its obligations has been affected, shall notify the other of such cessation and the actual delay incurred in such affected activity adducing necessary evidence in support thereof.
- b. From the date of occurrence of a case of force majeure obligations of the party affected shall be suspended during the continuance of any inability so caused. With the caused itself and inability resulting there from having been removed, the agreed time completion of the respective obligations under this agreement shall stand extended a period equal to the period of delay occasioned by such events.
- c. Should one or both parties be prevented from fulfilling the contractual obligations by state of force majeure lasting to a period of 6 months or more



the two parties shall together decide regarding the future execution of this agreement.

## **21. Local Laws, Acts Regulations:**

The contractor shall strictly adhere to all prevailing labour laws inclusive at contract labour (regulation and abolition act of 1970) and other safety regulations etc. The contractors should comply with the provisions of all labour legislation including the latest requirements of the Acts, laws, any other regulations etc. that are applicable to the execution of the project.

- i. Minimum Wages Act 1948 (Amended)
- ii. Contract Labour Regulation and Abolition Act 1970 and Central Rules 1971 (Amended)
- iii. Industrial Employment (standing order) Act 1946 (Amended)
- iv. Personal Injuries (Compensation Insurance) Act 1963 and any other modifications
- v. Employees' Provident Fund and Miscellaneous Provisions Act 1952 and amendment thereof
- vi. Shop and Establishment Act
- vii. Any other act or enactment relating thereto and rules framed there under from time to time.
- viii. Prevailing Indian Electricity Rules & Act.

## **22. Excise Duty, Taxes, Levies etc.**

The contractor shall pay and be responsible for payment of all taxes, duties, levies, royalties, fees, cess or charges, GST, etc.

## **23. Construction Records**

The contractor shall provide to the IDRBT full and accurate records of the dimensions and positions of all work and any other information necessary and also prepare complete drawings recording details of the work.

## **24. Fire Fighting arrangements**

- i. The contractor shall provide suitable arrangement for firefighting at his own cost. For this purpose he shall provide requisite number of fire extinguishers and adequate number of buckets, some of which are to be always kept filled with sand and some with water these equipment's shall be provided at suitable prominent and easily accessible place and shall be properly maintained.
- ii. Any deficiency in the fire safety or unsafe conditions shall be corrected by the

contractor at his own cost and, to the approval of the relevant authorities. The contractor make the following arrangements at his own cost but not limited the following:

- a) Proper handling, storage and disposal of combustible materials and waste.
- b) Work operations which can create fire hazards.
- c) Access for fire-fighting equipment.
- d) Type, number and location of containers for the removal of surplus materials and rubbish.
- e) Type, size, number and location of fire extinguishers or other firefighting equipment.
- f) General housekeeping

## **25. Temporary fencing/ barricading**

The contractor shall provide and maintain a suitable temporary fencing / barricading and gates at his cost to adequately enclose all boundaries of the site for the protection of the public and for the proper execution and security of the work and in accordance with the requirement of the IDRBT and regulations of local authorities. These shall be altered, relocated and adopted from time to time as necessary and removed on completion of the work.

## **26. Meetings**

Site meetings will be held to review the progress and quality evaluation. The contractor shall depute a senior representative along with the site representative and other staff of approved sub-contractors and suppliers as required to the site meetings and ensure all follow up actions. Any additional review meetings shall be held if required by the IDRBT.

## AMC Terms and Penalties

1. The Bidder/Contractor/Vendor warrants that the Products supplied under the Contract are new, unused, of the most recent or current model and they incorporate all recent improvements in design and / or features. The Bidder/Contractor/Vendor further warrants that all the Products supplied under this Contract shall have no defect, arising from design or from any act of omission of the Vendor that may develop under normal use of the supplied Products in the conditions prevailing in India.
2. Warranty for UPS & Batteries: Onsite comprehensive warranty for the Modular UPS System including free replacement of spares, parts, kits as and when necessary will be 24 months (2 Years) from date of expiration of warranty.
3. Onsite comprehensive warranty for the Lithium-Ion Batteries including free replacement of batteries / cells /spares, parts, kits as and when necessary will be 120 months (Ten Years) from date of successful installation.
4. On-site comprehensive warranty and AMC: The warranty and AMC would be on-site and comprehensive in nature and back to back support from the OEM. OEM will warrant all the UPS, Batteries against defects arising out of faulty design, materials and workmanship etc. for the specified warranty period. OEM will provide support for UPS, Batteries and other preinstalled software components during the warranty period. Bidder/Contractor/Vendor shall repair or replace worn out or defective parts including all plastic parts of the Equipment at his own cost including the cost of transport.
5. After expiry of the warranty period of 2 years for UPS and thereafter AMC at tender finalised rates for 5 years, the Bidder/Contractor/Vendor/OEM will have to continue the AMC at mutually agreed upon (negotiated) rates within reasonable limits.
6. During the term of the Contract, OEM will maintain the equipment in perfect working order and condition and for this purpose will provide the following repairs and maintenance services:
  - (a) Free maintenance services during the period of warranty and AMC. Professionally qualified personnel who have expertise in the field of Modular UPS & Lithium Ion Batteries will provide these services.
  - (b) OEM shall rectify any defects, faults and failures in the equipment and shall repair/replace worn out or defective parts of the equipment during working hours i.e., from 8.00 A.M. to 8.00 P.M. on all working days (viz. Monday to Friday). In case any defects, faults and failures in the Equipment could not be repaired or rectified during the said period, the Engineer of the OEM are required to accomplish their duties beyond the said schedules in case of any situation if it warrants. In cases where unserviceable parts of the Equipment need replacement, the OEM shall replace such parts, at no extra cost to the IDRBT, with brand new parts. For this purpose, the Vendor shall keep sufficient stock of spares at its premises.



- (c) The maximum response time for a maintenance complaint from the site of installation (i.e. time required for Vendor's maintenance Engineer to report to the installations after a request call / fax /e-mail is made or letter is written) shall not exceed 1 (one) hour.
- (d) Vendor shall ensure that faults and failures intimated by the IDRBT as above are set right within 24 hours of being informed of the same.
- (e) Vendor shall ensure that the full configuration of the Equipment is available to the IDRBT in proper working condition with an uptime of 99.9% each month.
- (f) Penalties for Warranty/AMC uptime (Quarterly) shall be as under;

S. No.	Uptime Range	Penalty
1.	99.7 to 100%	NIL
2.	98 to less than 99.7%	10% of Quarterly AMC Charges
3.	95 to less than 98%	25% of Quarterly AMC Charges
4.	Less than 95%	50% of Quarterly AMC charges

- (g) OEM shall ensure that the Mean Time between Failures (MTBF) (including any malfunctioning, breakdown or fault) in the Equipment or any part thereof, during Contract period, not more than four occasions in preceding 90 days, it shall be replaced by equivalent/ superior new Equipment or part thereof by Vendor immediately at free of cost during warranty and AMC period.
- (h) **Preventive Maintenance:** Vendor shall conduct preventive maintenance (including but not limited to inspection, testing, satisfactory execution of all diagnostics, cleaning and removal of dust and dirt from the interior and exterior of the Equipment, and necessary repair of the Equipment) once every quarter (3 months) during the currency of the Contract on a day and time to be mutually agreed upon.
- (i) All engineering changes generally adopted hereafter by Vendor for Equipment similar to that covered by the Contract, shall be made to the Equipment at no cost to the IDRBT.
- (j) Qualified maintenance Engineers totally familiar with the Equipment shall perform all repairs and maintenance service described herein.
- (k) The IDRBT shall maintain a register at its site in which, the IDRBT's operator/ supervisor shall record each event of failure and / of malfunction of the Equipment. OEM's Engineer-In-Charge shall enter the details of the action taken in such register. Additionally, every time a preventive or corrective maintenance is carried out, the OEM's Engineer-In-Charge shall make, effect in duplicate, a field call report which shall be signed by him and thereafter countersigned by the IDRBT's official. The original of the field call report shall be handed over to the IDRBT's official.



- (l) The OEM shall provide replacement equipment if any equipment is out of the premises for repairs.
7. Any worn or defective parts withdrawn from the Equipment and replaced by OEM shall become the property of OEM and the parts replacing the withdrawn parts shall become the property of IDRBT.
8. Subject to the security requirement, Vendor's maintenance personnel shall, be given access to the Equipment when necessary, for purpose of performing the repair and maintenance services indicated in this GeM Bid.
9. If IDRBT desires to shift the Equipment to a new site and install it thereof, the OEM shall be informed of the same. The IDRBT shall bear the reasonable mutually agreed charges for such shifting and OEM shall provide necessary arrangement to the IDRBT in doing so. The terms of this GeM Bid, after such shifting to the alternate site and reinstallation thereof would continue to apply and binding on OEM.
10. If, the OEM does not fulfil the provisions of clauses 4 (b), (c), (d), (e) and (h) only the proportionate maintenance charges for that period during the month will be considered payable by the IDRBT without prejudice to the right of the IDRBT to terminate the contract. In such event OEM was credited without deducting the proportionate maintenance charges for that month, the IDRBT can deduct the same from future payments payable or OEM shall refund the amount forthwith to IDRBT on demand by the IDRBT.
11. Future additions
- (a) The IDRBT would have the right to:
- i. Shift supplied systems to an alternative site of its choice.
  - ii. Expand the capacity / enhance the features / upgrade the hardware / software supplied, either from OEM, or third party.

Provided such changes or attachments do not prevent proper maintenance, from being performed or unreasonably increase Vendor's cost of performing repair and maintenance service.

The successful tenderer has to sign a service level agreement incorporating the above conditions on stamp paper of Rs.500/-



## FORMAT FOR SUBMISSION OF TENDER

The Deputy General Manager  
IDRBT, Castle Hills, Road No: 1,  
Masab Tank, Hyderabad,  
Telangana – 500 057 (India)

Dear Sir,

TENDER NOTICE FOR SUPPLY, INSTALLATION, TESTING & COMMISSIONING OF 30 KVA/KW MODULAR UPS SYSTEM WITH LITHIUM ION BATTERIES HAVING 25 MINUTES BACK UP TIME (AT 30 KVA/KW) & 5 YEAR COMPREHENSIVE AMC POST WARRANTY PERIOD AT 2<sup>ND</sup> FLOOR OF EFC BUILDING (DATA CENTRE), IDRBT CAMPUS, HYDERABAD

I/We have examined the above tender and subsequent pre-bid clarifications/ modifications / revisions, if any, furnished by IDRBT and I/We have inspected the site of works and have made me / us fully acquainted with the local conditions in and around the sites of works and offer to undertake Contract as detailed in this tender by submitting my/our online bids in the GeM Portal.

1. While submitting this Bid, I / We certify that:
  - i. We are the OEM / Authorised channel partner /dealer (strike off whichever is not applicable) for the make of UPS quoted.
  - ii. The undersigned is authorized to sign on behalf of the Bidder and the necessary support document delegating this authority is uploaded along with the bid.
  - iii. We certify that we have not made any changes in the contents of the tender document read with its amendments/ clarifications provided by IDRBT, submitted by us in our Bid document.
  - iv. The rate quoted in the Price Bids are as per the tender and subsequent pre-Bid clarifications/ modifications/ revisions furnished by the IDRBT.
2. We agree to abide by all the Bid terms and conditions, contents of Agreement and the rates quoted in the bid, which shall remain binding upon us.
3. If our Bid is accepted, we undertake to enter into and execute at our cost, when called upon by the IDRBT to do so, a contract in the prescribed form and we shall be fully responsible for the due performance of the contract.
4. Until a formal contract is prepared and executed, this Bid, together with your written acceptance thereof and your notification of award, shall constitute a binding Contract between us.
5. It is further certified that the contents of our Bid are factually correct. We also accept that in the event of any information / data / particulars proving to be incorrect, IDRBT will have the right to disqualify us from the Bid.



6. We understand that you are not bound to accept the lowest or any Bid you may receive and you may reject all or any Bid without assigning any reason or giving any explanation whatsoever.
7. We hereby undertake that our name does not appear in any “**Caution**” list of RBI / IBA or any other regulatory body.
8. We also confirm that we have not been **blacklisted** by any Bank / PSU / State or Central Govt. Departments for any reasons.
9. We confirm that we do not have any **litigation / cases** pending against us in any Bank / PSU / State or Central Govt. Departments.
10. We confirm that we are responsible to obtain all necessary licenses, permission, NOC from all the statutory /local authorities for the smooth execution of this contract in IDRBT premises.
11. We hereby confirm that all the materials/components/spare parts/equipment etc. to be supplied /used as a part of this contract shall be original / new materials / components / parts / equipment only from respective OEMs of the products and that no refurbished / duplicate / second hand materials/ components/parts/ equipment shall be supplied or shall be used.
12. I/ We do hereby unconditionally accept all the terms and conditions of this tender document and BOQ published in the GeM portal. We hereby agree to submit the signed and stamped copy of the Technical Bid and Price Bids separately, which shall together form part of the agreement, if I/ we become L-1 bidder in the tendering process.
13. For any type of deviation (to any of above or subsequent instructions), it will be my/ our responsibility to obtain the written instruction of the Engineer-In-Charge-in-charge, IDRBT, for the same failing which it shall be deemed that I have carried out any such deviations at my own and I shall be duty bound to replace all deviated material/ works from the site at my/ our cost as well as I shall be liable to be penalized by the IDRBT as deemed fit and for all such losses made thereof, I/ we shall not have any right to arbitrate in any manner.

Yours faithfully,

Signature of the bidder with Stamp \_\_\_\_\_

Name: \_\_\_\_\_ Address: \_\_\_\_\_



**ANNEX. A**

**FORMAT FOR TECHNICAL BID**  
**(Please strike-off which is not applicable)**

1	Name of the Company / Firm	
2a	Full Postal Address of Company/Firm	
2b	Telephone & Mobile No.	
2c	Email ID	
3	Main Activities of Company / Firm (Please use additional sheet, if required)	
4	Year of establishment of Company / Firm (Enclose certified copies of relevant documents)	
5	Constitution of Firm (Enclose certified copies of relevant documents) Sole Proprietorship / LLP / Partnership / Private Ltd. / Public Ltd. / Any other (Please specify)	
6	Name of the Proprietor / Partners / Directors of the Organization / Firm.	1. 2. 3.
7a	Details of Authorized Signatory (i) Name of Authorized Signatory	
	(ii) Phone No.	
	(iii) Mobile No.	
	(iv) Email-ID	
7b	Mode of Authorization of Authorized signatory (Enclose certified copies of relevant documents such as Resolution / Partnership Deed / Registered Power of Attorney / Proprietor / any other (please specify))	
8	Whether registered with the registrar of companies / Registrar of firms. If so, mention number and dates. (Enclose certified copies of relevant documents)	

9a	PAN No. (Income tax) (Enclose certified copies of relevant documents)	
9b	GST No. (Enclose certified copies of relevant documents)	
9c	PF Registration No. (Enclose certified copies of relevant documents)	
9d	ESIC Registration No. (Enclose certified copies of relevant documents as)	
10	If currently registered in the Panel of other organizations such as CPWD, PWD, MES, Banks etc. Mention Name of Organization, Registration No. & Date and Category (Enclose certified copies of relevant documents)	
11a	Banker's Details: (Enclose certified copies of Cancelled Cheque)	
	(i) Bank Name	
	(ii) Full Postal Address of Branch	
	(iii) Telephone No.	
	(iv) Account No.	
	(v) Type of Account	
11b	Solvency Limit (Enclose certified copies of relevant documents)	
12a	Yearly turnover of the Firm during the last 03 financial years  (Enclose copy of Affidavit / Certificate from Chartered Accountant mentioning turnover of last 03 financial years)	F.Y. 2024-25:  F.Y. 2023-24:  F.Y. 2022-23:  Average :
12b	Profit & Loss Statement of the last 03 financial years (Enclose self- certified one-page summarized balance sheet (audited) and one page of summarized Profit & Loss Account for the last 03 years collectively)	F.Y. 2024-25:  F.Y. 2023-24:  F.Y. 2022-23:
13	Please enclose certified copies of the IT Returns of 2022-23, 2023-24 and 2024-25)	

14	Details of similar works executed & completed. (Enclose certified copies of Work Completion Certificates)	Please fill up <b>Annex. B</b> & enclose copies of Work Order & Work Completion Certificates)
15	Please attach certified copies of Performance Report of at least 3 works referred to in Annex. B	Attach Performance Reports duly filled- in & signed by the Competent Authority of the Client as per <b>Annex. C</b>
16	Name, Address, Email and Contact Nos. of at least 3 persons who are in position and competent to report about the quality and performance of your Company/ Firm. (These 3 persons should have been associated with any 3 completed similar works mentioned in Annexure-I.	
17	Enclose Certificate of Authorisation from OEM as per Para J above	
18	Enclose Undertaking cum Affidavit from OEM / Bidder	
19	Do you have an authorized service centre in Hyderabad, If yes, please provide address and contact details	
20	Have you been blacklisted in the last 7 years?	

**(Note: - All Enclosures must be self-certified by the Authorised Signatory)**

1. I/We have read and understood all the contents of these Application. I/We also certify that my/our firm fulfils the ELIGIBILITY CRITERIA for this work.
2. I/We hereby confirm and certify that the information given above are correct and true and the Annexes / Enclosures etc. enclosed herewith are correct
3. I/We are authorized to sign and submit the Application Documents for pre-qualification.
4. I/We understand and agree that if at any stage it is found that any information provided by us is untrue / incorrect, partly or fully and / or concealed in these Documents and / or also in case of receipt of any adverse/unsatisfactory report from previous or present clients, the IDRBT on its own discretion may reject application at any stage.
5. I/We also understand and agree that partly / wrongly filled application and / or applications not on prescribed proforma and / or applications not with relevant Documents / Enclosures / Annexures and Application Documents not signed by the Authorised Signatory and / or received after the due date and time will be summarily rejected.



6. We understand that financial bids of only those bidders who qualify in their technical bids will be opened.
7. I/We understand and agree that this is merely an application/ and does not entitle us to be technically qualified by the IDRBT.
8. IDRBT reserves the right to reject all and / or any application without assigning any reason thereof.

**Signature of Authorised Signatory**

**Seal of the Company / Firm) Name :** .....

Designation in Firm:.....

**Place:** .....

**Date** .....

(Please ensure to enclose all annexures / enclosures / relevant documents etc. with application documents before submitting)

**COMPLETED WORKS**

**DETAILS OF ELIGIBLE SIMILAR NATURE OF WORKS COMPLETED  
DURING THE LAST THREE YEARS' ENDING 30<sup>th</sup> April, 2025.**

**Important - (Please mention all Amounts without GST)**

<b>S. No.</b>	<b>Particulars</b>	<b>Similar work - 1</b>	<b>Similar work – 2</b>	<b>Similar work – 3</b>
1	Name of Work/Project			
2	Site Address			
3	Name of Client /Organization			
4	Name			
	Designation			
	Contact No.			
	Email ID			
	Address of Officer I/c of Client to whom reference can be made			
5 A	Estimated Cost as per Tender floated / issued	Rs. Crores	Rs. Crores	Rs. Crores
6	Completion Cost	Rs. Crores	Rs. Crores	Rs. Crores
7 A	Date of Start of Work as per Contract / Work Order			
7 B	Actual Date of Start of Work			
8 A	Scheduled date of Completion of work as per Contract			
8 B	Actual Date of Completion of Work			

9 A	Stipulated Period of Completion as per Contract (Months)			
9 B	Actual Time taken in Completion (in Months)			
10	Number of Authorized Extension granted by Client			
11	Reasons of Delay			
12	Penalty / LD Amount			
13	Details of Dispute / Litigation, if any			
14	Scope of Works (Type of UPS & Batteries and capacity)			
15	Any other relevant information, if the applicant wants to furnish.			

Additional Sheets on the same format may be used, if required.

**Signature of Authorised Signatory**

**Seal of the Company / Firm) Name :** .....

Designation in Firm:.....

**Place:** .....

**Date** .....

(Please ensure to enclose all annexures / enclosures / relevant documents etc. with application documents before submitting)



**ANNEX. C**

**PERFORMANCE REPORT OF THREE YEARS' SIMILAR WORKS**

(Or in similar formats already issued by the Buyers/Clients)

**Important - (Please mention all Amounts without GST)**

Sl.No	Particulars	Details
1	Name of Work	
2	Location	
3	Estimated Cost	Rs.
4	Tendered Cost	Rs.
5	Actual Completion Cost	Rs.
6	Date of Start	
7 A	Stipulated Date of Completion	
7 B	Actual Date of Completion	
8	Any Liquidated Damages / Penalty / Levy decided, if Yes, Amount	Yes / No Rs.
9	Performance Report	Outstanding / Very Good / Good / Average / Poor
(i)	Quality of Work	Outstanding / Very Good / Good / Average / Poor
(ii)	Timely Execution	Outstanding / Very Good / Good / Average / Poor
(iii)	Integrity as regard to Working	Outstanding / Very Good / Good / Average / Poor
(iv)	Ease in settling Extra Items	Outstanding / Very Good / Good / Average / Poor
(v)	Resourcefulness	Outstanding / Very Good / Good / Average / Poor
(vi)	Technical Proficiency	Outstanding / Very Good / Good / Average / Poor
(vii)	Litigation	Yes / No
(viii)	General Behavior / Conduct	Outstanding / Very Good / Good / Average / Poor
10	Additional Information / Remarks	

Additional Sheets on the same format may be used, if required.

(Signature of Officer/Engineer-In-Charge In charge)  
(Not below Ex. Engineer-In-Charge or Equivalent)

(Seal of the Officer)

Designation:

Date:

**ANNEX. D**

**TECHNICAL SPECIFICATIONS OF THE 30 KVA/ KW MODULAR UPS WITH LITHIUM ION BATTERIES HAVING TWENTY-FIVE MINUTES BACK UP TIME (AT 30 KVA/KW)  
(To be filled in and to be uploaded /submitted by the Bidder)**

<b>S. No.</b>	<b>Parameter</b>	<b>Requirement / Specification</b>	<b>Confirmation by Bidder YES / NO. (Strike off whichever is not applicable)</b>
1.	Rating	30KVA	
2.	UPS + Batteries mounting type	Floor-Mounted	
3.	Battery autonomy time	25 min@ 30 kW on each UPS	
4.	Battery placement	External	
5.	Cable Entry	Rear side of the unit (Top or Bottom)	
6.	Built-in switches (Input, output, bypass, and Maintenance Bypass)	Required	
7.	Intelligent Paralleling Feature (Applicable for Parallel UPS system)	Required	
8.	Cold start Function	Required	
9.	Regen mode (self-test capability)	Required	
<b>10.</b>	<b>Input Characteristics</b>		
11.	Nominal Voltage	380/400/415VAC, three-phase, four-wire-plus-ground	
12.	Tolerance on voltage	305-475VAC at full load; 228-475VAC at 50% derated load conditions without battery discharge	
13.		50% derated load conditions without battery discharge	
14.	Nominal frequency (60Hz selectable)	50Hz	
15.	Tolerance on frequency	40-70 Hz	
16.	Input Power factor @nominal voltage	>0.99 at full load & 0.98 at half load	
17.	Total harmonic distortion (THDi) @ full load at THDV is	<3%	
		<1%	

S. No.	Parameter	Requirement / Specification	Confirmation by Bidder YES / NO. (Strike off whichever is not applicable)
<b>18.</b>	<b>INVERTER OUTPUT CHARACTERISTICS</b>		
19.	Nominal voltage	380/400/415VAC, three-phase, four wire-plus-ground.	
20.	Nominal frequency (60Hz selectable)	50Hz	
21.	Output power factor	Unity	
<b>22.</b>	<b>Parameters</b>	<b>Specification data</b>	<b>Suppliers Data</b>
23.	Nominal Power @40°C (kW/kVA)	30 kVA / 30 kW	
24.	Output Voltage	+/-1% (100% balanced load),	
25.	Stability in steady state condition	+/-1% (100% unbalanced load)	
26.	Stability in dynamic conditions for 100% load step variations	Complies IEC 62040-3, Class-1 Stds.	
27.	Load crest factor without derating	3:01	
28.	Output voltage distortion with 100% linear load	<2%	
29.	Output voltage distortion with 100% non-linear load as specified by IEC/EN 62040-3	<5%	
30.	Output frequency stability in synchronization with Mains	Nominal ±10%	
31.	Frequency stability		
32.	Synchronized with internal clock	± 0.25%	
33.	Synchronized with bypass	± 0.25%	
34.	Frequency slew rate (Hz/s)	Selecting range: 0.1 to 0.6	
35.	Permitted overload:		
36.	. For 60 Minutes	105-110%	
37.	. For 10 Minutes	111-125%	
38.	. For 60 seconds	126-150%	
39.	. For <200msec	>150%	
<b>40.</b>	<b>Characteristics of Electronic Static Changeover Switch</b>		
41.	Nominal voltage	380/400/415Vac (three-phase and sharing neutral with bypass	

S. No.	Parameter	Requirement / Specification	Confirmation by Bidder YES / NO. (Strike off whichever is not applicable)
		input)	
42.	Tolerance on voltage	Upper limit: +10%, +15%, or +20%	
43.		default: +20%; Lower limit: -10%, -20%, -30% or -40% default: -40%	
44.	Nominal frequency (60 Hz selectable)	50Hz	
45.	Frequency range	+/- 5% or +/- 10%	
46.		default: +/- 10%	
47.	Permitted overload:		
48.	. For 60 Minutes	100-105%	
49.	. For 10 Minutes	106-125%	
50.	. For 60 seconds	126-150%	
51.	. For <200msec	>150%	
<b>52.</b>	<b>UPS characteristics</b>		
53.	Maximum UPS cabinet dimension- W X D X H in mm (should not exceed space 0. 33sq.m @ 30 &40kVA and 0. 51sq.m @60kVA)	Specify	
54.	Noise level measured @ 1 meter and @ 100% load according to ISO 3746	<60dBA	
55.	Efficiency		
56.	Double conversion	100%- 95.8%	
57.	Mode without	75%- 96%	
58.	Transformer ( with	50%- 95.5%	
59.	transformer eff. will be less by 1.5%-2%)	25%-94.5 %	
60.	Eco mode	Upto 99%	
61.	Degree of protection	IP 20	
62.	UPS Operating temperature	0-40° C without derating	
63.	Altitude	<1500 above sea	
64.	Color of cubicles	level Black RAL7021	

**Signature of Authorised Signatory**

**Seal of the Company / Firm) Name : .....**



Designation in Firm:.....

Place: .....

Date .....

(Please ensure to enclose all annexures / enclosures / relevant documents etc. with application documents before submitting)

**ANNEX. E**

**TECHNICAL DATA SHEET**

**(TO BE FILLED IN AND TO BE UPLOADED / SUBMITTED BY THE BIDDER)**

With reference to the technical Specifications related to this GeM bidding, we furnish the details of products offered by us fully conforming to the Technical Specifications.

Sl.No.	Item Description	To be filled by the Bidder
1	Make of UPS Conforming to Technical Specifications	
2	Model No. of UPS	
3	Module capacity of UPS	
4	Total No. of Modules	
5	Total capacity of UPS in kW/kVA	
6	No. of racks to mount UPS modules	
7	Warranty period in Years for Modular UPS System	
8	Make of Lithium Ion Battery (LiB)	
9	Type of technology / Cell Chemistry of LiB	
9	Total Ah per LiB Module	
10	Total kWh per LiB Module	
11	No. of LiB(Lithium Batteries) Modules per rack	
12	No. of LiB(Lithium Batteries) Module racks	
13	Total Ah of LiB(Lithium Batteries)	
14	Total kWh of LiB(Lithium Batteries) (26.4kWh Minimum)	
15	Total back up time at 30 KVA/KW (Minimum 25 Minutes)	



Sl.No.	Item Description	To be filled by the Bidder
16	Warranty period in Years for LiB(Lithium Batteries) Modules	

**Signature of Authorised Signatory**

**Seal of the Company / Firm) Name :** .....

**Designation in Firm:**.....

**Place:** .....

**Date** .....



**FORM- "A"**

**UNDERTAKING CUM AFFIDAVIT**

I/We M/s.....undertake and confirm that, we will provide the comprehensive after sales service support to IDRBT for a period of 7 years including warranty period of two years from the date of successful commissioning of UPS Systems and Comprehensive AMC for 5 year after warranty period of 2 years at the rates quoted by us / our Authorised Channel or Business Partner / Dealer M/s..... in the bid and thereafter at mutually agreed upon reasonable rates, for the .....make of 30 KVA Modular UPS Systems with.....make of Lithium Ion batteries to be installed at IDRBT, EFC Building, 2<sup>nd</sup> floor (Data Centre), Hyderabad as per GeM Bid No.....

We also confirm that, we will make available all the required spare parts/software and its updates that are required to keep the said UPS system in satisfactory working condition for a period of 10 years from successful commissioning of the UPS System.

**NOTE:** Undertaking cum Affidavit to be furnished on a 'Non-Judicial' stamp paper worth Rs.500/-.

Signature of Authorised Signatory of OEM with stamp

Signature of Notary with seal

## ANNEX. 1

### TEST PARAMETERS & FORMAT

Sl.No.	Parameter	Requirement / Specification	Test Results / Remarks
1	Type of UPS	Modular and Scalable with Hot Swappable Power Modules, Static Switches and control module.	
2	Capacity of UPS	30kVA / 30 kW	
3	Technology	a. DSP Based True Online Double Conversion with latest and advanced IGBT PWM technology Rectifier & inverter	
		b. Modules would be switched periodically & in rotational manner under this condition.	
		c. Redundant System with redundant and hot swappable controller, Redundant and hot swappable Aux Power Supply	
		d. UPS should have feature for testing of the unit for load Testing without external load.	
4	Capacity of Rack for mounting UPS modules	For 30 kVA or (Single Input and output will be provided by IDRBT(IDRBT), necessary paralleling accessories to be considered by the bidder / UPS vendor)	
5	Capacity range of single UPS module	30KVA	
6	Nominal Input Voltage	380/400/415 V (user selectable) 3 Phase 4 Wire System / 3 Phase 3 Wire System	
7	Input Voltage Range	320 V AC to 460V AC	
8	Input Frequency Range	50 Hz $\pm$ 10% (45 to 55 Hz)	
9	Input Power Factor	0.9 for any load	

Sl.No.	Parameter	Requirement / Specification	Test Results / Remarks
10	Input Current Harmonic Distortion (THDi)	≤3 at full load.	
11	Output Voltage	380 /400/415 V user selectable 3 Phase 4 Wire + Ground	
12	Output Voltage Regulation	≤1% Max	
13	Output Wave Form	Pure Sine Wave	
14	Output Frequency	50 Hz	
15	Output frequency regulation	±0.05 Hz free running	
16	Output Power factor	Unity	
17	Output Voltage Distortion (THDv)	≤2% for linear load & ≤5% for non Linear load.	
18	Output Crest factor	3 : 1	
19	Transient recovery Time	<20 msec	
20	Overload capability	120% for 10 Minutes 150% for 1 Minutes	
21	Efficiency	Minimum 96% at 25 to 100% of load in double conversion mode at input voltage with battery fully charged.	
22	Battery Charger	UPS Inbuilt Battery charger compatible for Lithium Ion Batteries	
23	Input Phase Sequence Correction	Inbuilt feature to be provided for as to avoid UPS transferring to battery mode in case of phase sequence change at input. UPS should continue to work on mains mode.	
24	Automatic & Bi-directional static bypass	The integral bypass shall perform an automatic transfer of the critical load from the inverter to the bypass, in the events of overload, over temperature, or inverter failure conditions with zero transfer time and retransfer from bypass to inverter on removal of overload and fault conditions.	

Sl.No.	Parameter	Requirement / Specification	Test Results / Remarks
25	Cable Entry	UPS should have top cable entry	
26	Digital Touch Screen Display for	a. Input AC Voltage, Current & Frequency	
		b. Output AC Voltage, Current & Frequency	
		c. Load (in kVA/KW/Percentage)	
		d. Battery Voltage	
		e. Battery Current	
		f. Event Log to display a log of status and alarm events to be provided on the front panel display	
		g. UPS should have capability to capture wave forms pre & post event occurs.	
27	Inbuilt Protections	a. Over load / Over Current protection	
		b. Short circuit Protection	
		c. Over temperature Protection	
28	Built in Audible Alarms	f. Mains Failure	
		g. Low Battery	
		h. Over Load	
		i. Fault	
		j. On Battery / Bypass	
29	Remote UPS Monitoring Kits	Be able to connect to a LAN network using the main network communication protocols (SNMP or TCP/IP or HTTP)	
30	SNMP card / Web management System	To be provided	
31	Operating Ambient Temperature Range	0 to 40 degree Celsius	
32	Operating Relative Humidity	<95% Non-condensing	
33	Audible Noise level at a distance of one meter from front side of UPS	<60 dB	

Sl.No.	Parameter	Requirement / Specification	Test Results / Remarks
34	IP Class	IP 20	
35	Type of cooling	Built in Forced Cooling (multiple fans) Indicate Quantity	
36	UPS should conform Standards & regulations	d. CE Certification	
		e. Safety EN 62040-1	
		f. EMC EN 62040-2	
37	Auto restart facility	on Mains resumption	
38	Cold Start facility	on battery without mains	
39	Warranty for UPS	Indicate with OEM Data Sheet	
40	Year of manufacture of UPS		
41	LITHIUM ION BATTERIES (LiB)		
	a.Cell Chemistry	NMC(Nickel Manganese Cobalt)	
	b.Total Battery back up time	25 Minutes at 30 kVA/ kW	
	c.Total Watt Hour Output (kWh)	Minimum 26.4 kWhr energy required	
	d. configuration	Single rack (indicate number)	
	e. Battery Management System (BMS)	To be provided	
	f. switch Gear	MCCB, MCB, DC Fuse communication ports for module BMS & Rack BMS & System BMS DC IN Ports	
	g. SMPS (Switched Mode Power Supplies)	Dual Type, Input AC, Output-DC to switch gear BMS Ports Communication & Dry Contacts	
	h. communication	Dry Contacts, Network Protocol	
	i. Software	Licensed BMS Software (please indicate)	
	j.Safety Standards	All safety standards as applicable.	
42	Year of manufacture of LiB		





**PART-B**  
**PRICE BID FORMAT (2<sup>nd</sup> Packet)**

**TENDER FOR SUPPLY, INSTALLATION, TESTING & COMMISSIONING OF 30 KVA/KW MODULAR UPS SYSTEM WITH LITHIUM ION BATTERIES HAVING 25 MINUTES BACK UP TIME (AT 30 KVA/KW) & 5 YEAR COMPREHENSIVE AMC POST WARRANTY PERIOD AT 2<sup>ND</sup> FLOOR OF EFC BUILDING (DATA CENTRE), IDRBT CAMPUS, HYDERABAD**

Item Description		Qty	Unit	Rate (In Rs)	Amount (In Rs)
1	<b>UPS</b>				
	Cost of Supply, Installation, Testing and Commissioning of <b>30 KVA/KW</b> modular ups system with 30 kVA Rack/Frame at DRBT, Hyderabad with 2 Year Warranty for UPS, conforming to tender terms & conditions, technical specifications, including all charges like transportation, loading, unloading, SITC, duty, octroi etc, all taxes, Excluding GST.	2	Set		
2	<b>Lithium Ion Batteries</b>				
	Cost of Supply, Installation, Testing and Commissioning of 26.4 kWh (minimum) capacity along with 60Ah above Lithium Ion Batteries having 25 minute back up time at 30 kVA/kW at IDRBT, Hyderabad with 10 Year Warranty for Batteries, conforming to tender terms & conditions, technical specifications, including all charges like transportation, loading, unloading, SITC, duty, octroi etc, all taxes, excluding GST.	2	Set		
3	TOTAL AMOUNT for 30 kVA/kW UPS System & Lithium Ion Batteries				
3.1	Add: GST @ ..... % on Sl.No.3 above				
3.2	<b>Grand Total for Cost of 30 kVA/kW UPS Systems lithium ion Batteries</b>				
4	Comprehensive Annual Maintenance Charges for 5 years after warranty period of two years for 30 kVA UPS System				
4.1	First Year after Warranty	2	Set		
4.2	Second Year after Warranty	2	Set		



4.3	Third Year after Warranty	2	Set		
4.4	Fourth Year after Warranty	2	Set		
4.5	Fifth Year after Warranty	2	Set		
4.6	Total AMC Charges for 5 Years (4.1+4.2+4.3+4.4+4.5) Excluding GST				
4.7	Add: GST @ ..... % on Sl.No.4.6 above				
<b>4.8</b>	<b>Grand Total for Total AMC Charges for 5 years (4.6 + 4.7)</b>				
<b>5</b>	<b>GRAND TOTAL including Cost of 30 kVA UPS System with Lithium Ion Batteries and 5 year AMC charges after warranty period of 2 years for UPS)</b>				

Grand total In Words: Rupees.....

..... Only.

**Signature of Authorised Signatory**

**Seal of the Company / Firm) Name : .....**

Designation in Firm:.....

**Place: .....**

**Date .....**

(Please ensure to enclose all annexures / enclosures / relevant documents etc. with application documents before submitting)