



NATIONAL CENTRE FOR DISEASE INFORMATICS AND RESEARCH (Indian Council of Medical Research)

Department of Health Research, Ministry of Health and Family Welfare, Government of India Nirmal Bhawan-ICMR Complex (II Floor), Poojanahalli, N.H–7, B. B. Road, Kannamangala Post, Bengaluru–562 110 (India)

TENDER FOR

Supply and Installation of 2 Nos. of 15 KVA Online UPS system with tubular batteries of onehour back-up for National Centre for Disease Informatics and Research (ICMR), Bengaluru

Email: ncdir@ncdirindia.org / <u>adm.ncdir@gov.in</u> Website: www.ncdirindia.org

Tender Inquiry No: NCDIR/ICMR/310/2019

Date: 19-7-2019

Name of the Bidder:

Cost of Tender Document – ₹ 500/-





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NATIONAL CENTRE FOR DISEASE INFORMATICS AND RESEARCH

Indian Council of Medical Research, Bengaluru

NOTICE INVITING TENDER

The NCDIR, Bengaluru invites sealed tenders under two bid system for Supply and Installation of 2 Nos. of 15 KVA Online UPS system with tubular batteries of one-hour backup for National Centre for Disease Informatics and Research (ICMR), Bengaluru.

	SCHEDULE			
SI. No.	No. Activity Description Schedule			
1.	Tender Enquiry	No. NCDIR/ICMR/310/2019		
2.	Sale of tender Document	Tender can be collected from NCDIR, Bengaluru office or downloaded from our website <u>www.ncdirindia.org</u> , <u>https://eprocure.gov.in</u> <u>From 19-7-2019 to 19-8-2019 up to 5:00 PM</u>		
3.	Time and last date of depositing Tender/Bid	20-8-2019 upto 5:00 PM		
4.	Time and date of Opening of Technical Bid	22-8-2019 at 2:00 PM		
5.	Time and Date of opening of Financial Bid	The Financial bid will be opened after evaluation of technical bid, which will be announced later.		
6.	Minimum Validity of tender Offer	One year from the date of Opening of tender		
7.	Services to be offered	Supply and Installation of 2 Nos. of 15 KVA Online UPS system for NCDIR, Bengaluru		
8.	Estimated Cost of Tender	₹ <u>8,50,000</u> /-		
9.	Amount of EMD to be Deposited	₹ <u>42,500/-</u>		
10.	Cost of Tender Document	₹ <u>500/-</u>		

Important Notes:

- 1. NCDIR reserves the right to accept / reject any/all tenders in part/full without assigning any reason thereof.
- 2. Any Addendum/Corrigendum/ extension of date in respect of above tender will be displayed on our website www.ncdirindia.org only and no separate notification will be issued in the press. Bidders are therefore requested to regularly visit our website to keep them updated.

DIRECTOR NCDIR (ICMR) BENGALURU





1. INTRODUCTION:

The NCDIR invites bids from eligible bidders for Supply and Installation of 2 Nos. of 15 KVA Online UPS system with tubular batteries of one-hour back-up for NCDIR, Nirmal Bhawan-ICMR Complex (II Floor), Poojanahalli, Off N.H. –7, Adjacent to Trumpet Flyover of BIAL, Kannamangala Post, Bengaluru.

2. <u>SCOPE OF WORK:</u>

Supply and Installation of 2 Nos. of 15 KVA Online UPS system with tubular batteries of onehour back-up for National Centre for Disease Informatics and Research, Bengaluru-562110 with:

- 1. The vendor shall supply, install and commission the online UPS as required by NCDIR and as mentioned in technical specification and as per the directives of NCDIR
- 2. Supply and delivery of the 2 nos of 15 KVA Online UPS at the NCDIR offices will be the responsibility of the vendor.
- 3. The vendor will be responsible for:
 - a) Installing and commissioning of Online UPS to NCDIR offices.
 - **b**) Post installation of 15 KVA Online UPS, the engineer will require to handover the equipment to NCDIR IT Support / user and submit the copy of (duly filled & signed) installation note to NCDIR office.
 - c) Vendor shall ensure that all the equipment installed by the vendor provide the desired results all the time without any inconvenience to NCDIR.
 - d) The products (parts, labour & onsite) comprehensive warranty for equipment as per technical specification. Item Description Back to Back (parts, labour & onsite) warranty 15 KVA Online UPS 2 years.
 - e) During the warranty period of all the products, the vendor shall be in a position to provide necessary replacement for faulty components of 15 KVA Online UPS as well as timely support to NCDIR through qualified manpower.
 - **f)** The vendor shall be able to provide maintenance of the products and support thereof to NCDIR after expiry of warranty period through an Annual Maintenance Contract as per the terms and conditions agreed between the vendor and NCDIR

3. ELIGIBILITY CRITERIA:

- 1. The bidder should have relevant experience of more than three years in the field of providing UPS services in India for Govt./PSU/Corporate organizations.
- 2. The bidder should have offered similar services for Govt./PSU/Corporate organization of India.
- 3. The Bidders must have service tax registrations and PAN/ GST in the name of the bidding company.





- 4. The bidder must be a single entity. Consortiums will not be allowed to participate in the procurement process.
- 5. The bidder should not have been blacklisted/ debarred from participating in tendering by the Central Government/State Government/other Govt. bodies or under a declaration of ineligibility for corrupt or fraudulent practices.
- 6. The Bidder should have minimum average annual turnover of Rs 50 lakh. during the last two of three financial years ending on 31-3-2019
- 7. The Bidder should be a manufacture of UPS having a registered office in India or an authorized representative/partner having a registered office in India. The authorized representative/partner should provide a manufacturer's authorization form authorizing its participation in the bidding process and providing supports during the warranty period and during AMC period mentioned herein. (The bidder should provide all necessary supporting documents to substantiate the above respective claims.)

4. INSTRUCTIONS TO THE BIDDERS:

The tender shall be submitted in accordance with these instructions and any tender not in conformity with the instructions as under is liable to be rejected. These instructions shall form part of the tender and contract.

1. Submission of Bids:

Only physical bids received by NCDIR, Bengaluru office will be considered for opening. Bids sent through fax or email will not be considered.

The tender should be submitted in a sealed cover in two parts as under

- a) Technical Bid: Envelope should be super-scribed as "Technical bid for Supply and Installation of 2 Nos. of 15 KVA Online UPS Systems".
- **b) Financial Bid**: The second envelope should be super-scribed as "Financial bid for Supply and Installation of 2 Nos. of 15 KVA Online UPS Systems".
- 2. Both the above parts should be submitted in another envelope duly superscripted as "Tender for Supply and Installation of 2 Nos. of 15 KVA Online UPS system for National Centre for Disease Informatics and Research, Bengaluru-562110". The bidder should give their name & address.
- 3. All related documentary proof of meeting eligibility criteria must be submitted with the Technical Bid.
- 4. If either NCDIR or the Bidder wants to end the contract, a notice of one month must be provided by the party initiating the termination of the contract.
- 5. NCDIR must be intimated / reminded at least two months in advance before the contract is due for renewal.





- 6. Any proposal received by NCDIR after the date and time specified in the tender shall be rejected.
- 7. The NCDIR shall not be responsible for any postal delay or non-receipt/non-delivery of the documents. No further correspondence on the subject will be entertained.
- 8. Any default by the bidder in respect of the tender terms & conditions will lead to rejection of the bid.
- 9. The NCDIR reserves the right to reject any or all proposals without assigning any reasons therefor.
- 10. The bids shall be opened in the presence of the bidders or their authorized representatives on the appropriate date. The bidder's representatives who are present shall sign on attendance sheet. The representatives shall produce letter of authorization before being allowed to participate in tender opening.
- 11. The bids submitted shall remain valid for a period of one year from the date of opening the technical bid.
- 12. If the date fixed for opening of bids is declared a holiday by the authority, the revised date of opening will be the next working day or as posted in the website.
- 13. The Committee constituted by the Director, NCDIR shall have the right to verify the particular furnished by the bidder independently. Those technically qualified bids will only be considered for price evaluation (Financial bid). Price should not be quoted in the technical bid; otherwise the tender will be rejected without any correspondence. Decision of the Director, NCDIR Bengaluru on the eligibility for qualifying technical bids shall be final and no representation shall be considered in this regard.
- 14. All the communication with respect to the tender shall be addressed to:

The Director, National Centre for Disease Informatics and Research (ICMR) Nirmal Bhawan-ICMR Complex (II Floor), Poojanahalli Off N.H. –7, Adjacent to Trumpet Flyover of BIAL Kannamangala Post, Bengaluru – 562 110

15. In the event of any dispute the legal matter shall be subject to the jurisdiction of Bengaluru Court only.

5. <u>TECHNICAL BID:</u>

Technical Bid must contain the following,

- 1. Copy of Certificate of incorporation / Certificate of Registration of the bidder.
- 2. Technical Bid (<u>Annexure- I</u>): Duly filled in and signed, on the letter head of the company.





- Proof of Experience (<u>Annexure III(a</u>): Relevant Experience of the bidder in the field of providing UPS services to Govt. /PSU organizations. (Documentary proofs like work order/contract agreement/invoices etc are required for ascertaining bidder's work experience).
- 4. Satisfactory Performance Certificate (<u>Annexure III(b)</u>): Copy of satisfactory Performance certificate towards executing at least two similar contracts of same nature and value.
- 5. Vendor/Contractor/Supplier Details (<u>Annexure IV</u>): The Bidders shall submit the copy of details mentioned in Annexure IV.
- 6. Undertaking from Bidders (<u>Annexure V</u>)
- 7. Tender Fee & Earned Money Deposit Payment Particulars (Annexure VI)
 - (i) Tender Fee of ₹. 500/-

The cost of tender document is $\overline{\mathbf{x}}$. 500/- (Rupees five hundred only) (Non - refundable). The tender document can be obtained by paying the fees through Demand Draft drawn in favour of "The Director, NCDIR payable at Bengaluru". The cost of tender document shall be attached with Technical Bid in case the tender document is downloaded from the website. The Tender Document is not transferable to any other bidder.

(ii) Earnest Money Deposit (EMD) of ₹ <u>42,500</u>/-

- a. The units registered with Central Purchase Organization (DGS&D), National Small Industries Corporation (NSIC), Micro and Small Enterprises (MSEs) as defined in MSE Procurement policy issued by Dept. of Micro, Small and Medium Enterprises or the concerned Ministry or Department shall be exempted from the payment of Earnest Money as defined under Rule 170 of General Financial Rules (GFR), 2017. In such case, copy of the certificate showing registration with the above mentioned institutions to be enclosed along with the bid.
- b. In case the unit is not covered as above, it shall submit the offer along with the Earnest Money Deposit (EMD) for ₹ 42,500/-

An Earnest Money Deposit of $\underbrace{42,500}$ /- (Rupees forty-two thousand five hundred only) in the form of demand draft drawn in favour of Director, NCDIR Bengaluru may be submitted, failing which the bids will not be considered valid. The amount will be refunded/returned to unsuccessful bidder without any interest after completion of the tender process. The EMD should remain valid for a period of 45 days beyond the final tender validity period.

<u>Note</u>: The EMD will be forfeited in the following cases:

- a) If the bidder fails to accept the order based on his/her offer (bid) and within the prescribed time.
- b) If the bidder fails to supply the material with technical specifications in compliance with the specification as mentioned in Annexure -I.
- c) If the bidder delays supply beyond a reasonable time resulting in disruption of NCDIR works.





- 8. **Non-Blacklisting Declaration** (<u>Annexure VIII</u>): A self-certified letter by the authorized signatory of the bidder stating that the bidder is not blacklisted or debarred from tendering by the Central Government/State Government/Other Government bodies or under a declaration of ineligibility for corrupt or fraudulent practices as on the last date for submission of the bid.
- 9. **Turn over Details** (<u>Annexure IX</u>): A copy of the bidder's audited profit and loss account/balance sheet/annual report for at least last two financial years.
- 10. A copy of the tender document duly signed on each page by the authorized signatory for endorsing the compliance to all clauses of tender by the bidder.
- 11. All other relevant document required as evidence of meeting technical evaluation criteria and their proposal criteria.

6. FINANCIAL BID:

The bidder must give Financial Bid as per the price bid format given in **Financial Bid** (<u>Annexure-II</u>). The bidders are also mandatorily required to give details for arriving at each of the figure. The details of taxes wherever applicable also be mentioned.

7. EVALUATION PROCEDURE:

The evaluation of technical bids shall be undertaken by a Committee of the officers duly constituted for this purpose. The Technical evaluation would be based on the following:

- (i) Assessment of bidders meeting the eligibility criteria.
- (ii) Assessment of technical capability of bidder to carry out desired scope of work.
- (iii) The Financial/ Price Bids of only those bidders will be opened whose bids have been technically found suitable.
- (iv) On the basis of technical evaluation, the eligible entities shall be identified and their financial bids shall be opened. The lowest bidder giving cost-effective solution will be awarded the work subject to meeting all terms & conditions and criteria.
- (v) Evaluators of Technical Proposals shall have no access to the Financial Proposals until the technical evaluation is concluded.

8. PERIOD OF CONTRACT:

Under normal circumstances the contract shall be valid for a period of one-year from the date of issue of purchase /work order.

9. PAYMENT TERMS:

(i) Bidders should strictly quote the prices as per Financial Bid (<u>Annexure-II</u>).





- (ii) Payment will be made within 45 days after satisfactory supply/installation of the 15 KVA Online UPS System.
- (iii) No advance payment will be made.
- (iv) The payment will be made through NEFT by NCDIR to the bank account as mentioned in the bank mandate form. The bidder shall submit the documents which shall clearly indicate that the supply and installation of 15 KVA Online UPS is done and said document shall be duly acknowledged by the Administration of NCDIR.

10. <u>DELIVERY PERIOD:</u>

Successful bidder will be required to supply & install the two 15 KVA UPS within 15 days from the date of purchase order.

11. EARNEST MONEY DEPOSIT (EMD):

- (i) Bidder shall submit EMD of Rs. <u>42,500</u>/- (Rupees forty two thousand five hundred only) in the form of a Demand Draft on any Scheduled / commercial bank, in favour of "The Director, NCDIR" payable at Bengaluru on or before the opening of the Technical Bid i.e. 20-8-2019. EMD in any other form shall not be entertained. The EMD shall be denominated in Indian Rupees only. No interest will be payable to the Bidder on the amount of EMD. Bids submitted without the EMD shall be summarily rejected.
- (ii) An unsuccessful Bidder's EMD will be discharged/ returned / refunded as promptly as possible, but not later than 30 days after the award of the contract to the Successful Bidder.

12. <u>THE EMD MAY BE FORFEITED:</u>

If a Bidder withdraws his bid or increases his quoted prices during the period of bid validity or its extended period, if any:

Or

If the successful bidder fails to submit the performances guarantee or sign the contract within specified time.

Or

If the Successful Tenderer (referred as "Tenderer") fails to act according to the tender conditions or backs out after the tender has been accepted, the Earnest Money will be forfeited by NCDIR, Bengaluru.

13. <u>PENALTY CLAUSE:</u>

(a) In case of default in performance on the part of the Agency, NCDIR shall decide the penalty to be imposed for such default considering the quantum and other related factors which shall be deducted from the payments that may become due to the Agency.





- (b) In case the agency fails to carry out the contract to its logical conclusion, delays its performance or poor performance to the extent making the whole exercise futile, the NCDIR shall be at liberty to forfeit the Bank Guarantee and get the amount credited to NCDIR's accounts.
- (c) In case of any breach of terms of the contract agreement, the Agency shall be liable to penalty/ legal action as the circumstances warrant as assessed by NCDIR. However, any breakdown in service beyond one hour will be penalized as follows;
 - i. <u>A penalty of Rs. 500 per hour beyond first hour will be imposed for any breakdown in</u> service. No penalty will be imposed if the fault is attended within one hour of reporting subject to maximum penalty of monthly rent during the month. A part of the hour will be considered as one hour for calculating penalty.

In the event of failure of the successful tenderer to deliver the system within the stipulated time, without prejudice to other remedies under the contract a penalty equivalent to 0.5% (Half Percent) of the value of delayed goods will be levied per week with a maximum of 5% of the contract value. If requested by the tenderer, it is the discretion of the Director, NCDIR, Bengaluru to grant extension of time with penalty/without penalty and to purchase the stock from any other source at the prevailing market rate at the risk and responsibility of the successful tenderer and to claim any loss sustained by NCDIR, Bengaluru in the transaction from the tenderer besides forfeiting Earnest Money Deposit and Security Deposit.

14. VALIDITY OF TENDER:

- a) The tender shall be valid for a period of one year from the date of opening of the tender.
- b) Bidder for any reason whatsoever withdraws the tender after it is accepted or becomes unable or fails to execute the orders within stipulated delivery period, NCDIR shall be at liberty to cancel the order forthwith and the EMD of the tender in such a case will be forfeited by the NCDIR.
- c) No representation for the enhancement of the prices of the accepted tender or alteration of the terms and conditions will be entertained till the successful completion of installation of the UPS system.

15. OFFERS READY STOCK / SUBJECT TO PRIOR SALE:

- a) Offers from ready stock are preferred. In case the offers are subject to prior orders, the Bidders shall indicate the period within which the ordered quantity will be supplied. The Bidders shall note that in case Bidder fails to supply within the period of delivery indicated in the said tender, penalty at the rate of 1% of value of the order, per week of delay subject to maximum of 20% of the order value will be levied.
- b) The successful Bidder shall, within 5 working days from the date of receipt of communication of acceptance of quotes from NCDIR shall intimate their acceptance of the order. The successful Bidder shall complete supplies strictly as per the accepted delivery period.

16. PRICE APPLICABILITY:





The price shall be firm and shall include all applicable taxes and charges. Any variation in the duties, levies etc. during the period of services shall be charged to the bidder account. The rates quoted shall be all inclusive, with the delivery, up to destination i.e. NCDIR, Bengaluru.

17. INSPECTION AND TESTS

- a) The Purchaser or its representatives or ultimate client shall have the right to inspect and test the goods for their conformity to the specifications. The Purchaser may also constitute a committee for this purpose. The technical specifications shall specify what inspection and tests the Purchaser requires and where they are to be conducted, Where the Purchaser decides to conduct such tests on the premises of the Contractor, all reasonable facilities and assistance like testing instruments and other test gadgets including access to the drawings and production data shall be furnished to the Inspector free of cost. In case the tested goods fail to conform to the specifications, the Inspector may reject them and the Contractor shall either replace the rejected goods or make alteration necessary to meet the specifications requirements free of cost to the Purchaser.
- b) Notwithstanding the pre-supply tests and inspections, the material on receipt in the Purchaser's premises shall also be tested and if any material or part thereof is found defective, the same shall be replaced free of cost to the Purchaser. If any material before it is taken over is found defective or fails to fulfil the requirements of the contract, the Inspector shall give the Contractor notice setting forth details of such defects or failures and the Contractor shall make the material good or alter the same to make it comply with the requirements of the contract and in any case within a period not exceeding 1 month of the initial report. These replacements shall be made by the Contractor, free of the all charges, at the site(s).

18. <u>SERVICE FACILITY:</u>

In order to ensure proper and timely after sales service, contact details with addresses of service centre nearest to Bengaluru shall be provided along with the bid.

19. <u>TAXES:</u>

Contractors shall be entirely responsible for all taxes, duties, license fees, octroi, road permits, etc., incurred until delivery of the contracted Goods to the Purchaser.

20. <u>SUB-LETTING:</u>

The Bidder cannot assign or transfer and sub-contract its interest/ obligations under the contract without prior written permission of the Purchaser.

21. ARBITRATION

a) In the event of any dispute arising between Purchaser and the Contractor in any matter covered by this contract or arising directly or indirectly therefrom or connected or concerned with the said contract in any manner of the implementation of any terms and conditions of the said contract, the matter shall be referred to 'The Director, National Centre for Disease Informatics and Research (ICMR), Nirmal Bhawan-ICMR Complex (II Floor), Poojanahalli, Off N.H. –7, Adjacent to Trumpet Flyover of BIAL, Kannamangala Post, Bengaluru –562





110 (India), who may himself act as sole arbitrator or may name as sole arbitrator an officer of NCDIR notwithstanding the fact that such officer has been directly or indirectly associated with this contract and the provisions of the Indian Arbitration Conciliation Act, 1996 shall apply to such arbitration. The contractor expressly agrees that the arbitration proceedings shall be held in Bangalore.

- b) The proceedings of arbitration shall be in English language:
- c) In case any contractor wants to take the dispute to a court of law after arbitration award as aforesaid, it is clearly understood that only courts in Bangalore shall have the Jurisdiction.

22. <u>RISK PURCHASE</u>

In the event of Contractor's failure to execute the contract to the satisfaction of the purchaser, the purchaser reserves the right:

- a) To reject any part of the Contract executed and withhold payment for such portion of the Contract till such time the defects are rectified to the satisfaction of the purchaser.
- b) To terminate the Contract by giving 2 weeks' notice in writing without assigning any reason and to get the Contract executed by other agency at the risk and cost of the Contractor.

23. <u>APPLICABLE LAWS</u>

This contract shall be interpreted, construed and governed by the laws of the Republic of India and the parties hereby submit to the exclusive jurisdiction of the Court at Bangalore and to all Courts at Bangalore having jurisdiction in appeal there from. Any dispute in relation to the contract shall be submitted to the appropriate Court of the Republic of India for determination. The parties to the contract shall continue to fulfil their respective obligations under the contract during the currency of the contract pending the final decision of the Court.

24. TERMINATION FOR DEFAULT

- a) The Purchaser, may, without prejudice to any other remedy for breach of contract, by written notice of default, sent to the Contractor, terminate this contract in whole or in part.
 - 1) If the Contractor fails to perform any other obligation(s) under the contract;
 - 2) If the Contractor, in the judgment of the Purchaser has engaged in corrupt or fraudulent practices in competing for or in executing the Contract.
 - 3) If the Contractor, in either of the above circumstances, does not remedy his failure within a period of 12 hours/month (or such longer period as the Purchaser may authorize in writing) after receipt of the default notice from the Purchaser.
 - 4) On a notice period of 60 days.

For the purpose of this Clause:

- 1) "Corrupt practice" means the offering, giving, receiving or soliciting of anything of value to influence the action of a public official in the procurement process or in contract
- 2) "Fraudulent practice" means a misrepresentation of facts in order to influence a procurement process or the execution of a contract to the detriment of Borrower, 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 Borrower of the benefits of free and open competition".

b) In the event the Purchaser terminates the contract in whole or in part pursuant to above paragraph the Purchaser may procure, upon such terms and in such manner as it deems appropriate, goods similar to those undelivered and the Contractor shall be liable to the Purchaser for any excess cost for such similar goods. However, the Contractor shall continue the performance of the contract to the extent not terminated.

26. <u>PERFORMANCE SECURITY</u>

- a) The successful bidder shall deposit an amount equal to 10% of the approved tender cost within 2 weeks of conveying NCDIR's intention for accepting the bid as Performance Security.
- b) Performance Security shall be submitted in the form of Bank Guarantee issued by a scheduled Bank and the Proforma provided in Performance Security Bond Form (<u>Annexure</u> <u>VII</u>) of the bid document or DD/Banker's cheque drawn in favour of Director, NCDIR, Bengaluru
- c) Performance Security will be discharged after completion of contractor's performance obligations under the contract.

27. TERMINATION FOR INSOLVENCY

The Purchaser may at any time terminate the Contract by giving written notice to the Contractor, without compensation to the contractor if the contractor becomes bankrupt or otherwise insolvent as declared by the competent court provided that such termination will not prejudice or affect any right of action or remedy which has accrued or will accrue thereafter to the purchaser.

28. ADD ON/REPEAT ORDER

NCDIR, reserves the right to place Add on/Repeat order for additional quantity to 100% of the original quantity at the same rate and terms & conditions of the purchase order within one year from the date of issue of purchase order.





Technical Specifications / Requirements

1. General specifications

- 1UPS Type: DSP control based ON-LINE Double Conversion Technology2Capacity: 15 KVA/ 13.5KW
- 3 Battery Backup : no hour 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: \geq 94% (Online mode)
- 9. Parallel configuration : \geq 3 units (System should have option of paralleling 3 units (optional)

2. INPUT

2. Il	NPUT	
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	$:\leq$ 3% and should constant from 20% to 100% load
11	Power factor	: > 0.99
3. C	DUTPUT	
1	Voltage Configuration	: Three-phase, 4-wire plus ground
2	Voltage	: 400V/415 V
3	Voltage regulation	: a) $\pm 1\%$ 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.
		b) $\pm 2\%$ three-phase RMS average for a 100% unbalanced load for the combined variation effects of input voltage, connected load, battery voltage, ambient temperature, and load power factor.
4	Voltage Distortion	$1 \le 3\%$ total harmonic distortion (THD) for linear loads. and $\le 5\%$ THD for 100% nonlinear loads.

- 5 Crest factor
- 6Frequency: 50 Hz and Pure sine wave7Frequency regulation: 50 Hz +/- 0.1%
- 8 Output power factor : 0.9 or better
- 9 Overload Capacity : 125% for ten minutes (without bypass source).

: 3:1

- : 150% for one minute (without bypass source).
- 10 Wave form : Pure Sinusoidal
- 11 Output Voltage adjustment $:\pm 5\%$ (Software Controlled adjustment)





4. Batteries:-

1	Туре	: TUBULAR
2	Rated battery life	: 5 years
3.	Battery back up	: one hour with full load
4.	Battery stand	: Suitable battery stand with MS fabricated with powder coated.
5.	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 five 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. 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 battery charger must be able to operate with the following types of accumulator:

- Lead acid, hermetically sealed
- Lead acid, vented

Depending on the temperature, the battery charger shall be able to select the most suitable recharge method automatically, without operator intervention, alternating float mode in combination with "intermittent" charge in such a way as to limit the effects of corrosion (plate sulphation) and significantly prolong battery life. 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.

6. Operating Ambient Temperature:-

UPS Module	:	(0°C to 45°C).
Battery:		$30^{\circ}C \pm 5^{\circ}C.$

7. Cooling

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





8. 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.

9. 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.

10.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.

11. 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

12. 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

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- 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.

13. 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)
 - rectifier;
 - o inverter;
 - bypass;
 - power bus;
 - cables, contactors and fuses;





14. 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.

15. 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).

16. 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 Bengaluru 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 Bengaluru 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 Bengaluru is very much essential.

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. Warranty/Guaranty:

The equipment (complete system including battery banks) supplied shall be guaranteed against all types of defects for a period of **Two years (2 years)** from the date of handing over of the equipment to NCDIR 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. 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 24 hrs during after office hours and weekends.

The track record of the firm in implementing and maintaining similar UPS systems, the nearest local(Bengaluru) service establishment and the promptness in attending to service/breakdown calls shall also form basis of tender evaluation.

20. Annual Maintenance Contract (AMC)

After warranty, the offer should have separate component of AMC for three years.

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 check lists:

Sl.No	Description	Marks	remarks
1	Capacity: 15kVA/13.5 KW		
2	Overall efficiency AC/AC at 100% load >		
	95%		
3	Input power factor $@>0.99$		
4	Output power factor : 0.9 or better		
5	Input voltage range : +/- 20%		
6	Input THDi : <3%		
7	Output voltage and frequency regulation:		
	voltage : +/- 1% and Frequency : +/- 0.1%		
8	Battery make & type: Reputed make,		
	TUBULAR		
	Battery backup : 60mins		
9	Local service team & team strength		
10	Warranty/guaranty and rating test		
11	Parallel configuration (Optional)		

Note: Optional items should be quoted separately





<u>ANNEXURE – I</u> <u>TECHNICAL BID (Part-I)</u> (To be submitted On Company Letter Head)

To, Director, National Centre for Disease Informatics and Research (NCDIR), Bengaluru 562110

Subject: Submission of proposal in response to the Tender for supply and installation of 2 nos. of 15 KVA Online UPS System at to NCDIR, Bengaluru.

Dear Sir,

1. Having examined the tender document, we the undersigned, herewith submit our proposal in response to your tender notification for supply and installation of 2 nos. of 15 KVA Online UPS System to NCDIR, Bengaluru in full conformity with the said tender document. Our contact persons are:

Name: Title: Company Name & Address: Phone/ Mobile/ Fax/ Email:

- 2. We have read the provision of the tender document and confirm that these are acceptable to us. We further declare that additional conditions, variations, deviations, if any, found in our proposal shall not be given effect to.
- 3. We agree to abide by this proposal, consisting of this letter, the detailed response to the tender and all attachments, for a period of one year from the date of opening of the technical bids as stipulated in the tender document.
- 4. We would like to declare that we are not involved in any major litigation that may have an impact of affecting or compromising the delivery of services as required under this assignment and we are not under a declaration of ineligibility for corrupt or fraudulent practices.

Date:

(Signature)

Duly authorised to sign the Bid Response for and on behalf of:

(Name and Address of Company) Seal/Stamp:

SIGNATURE OF THE BIDDER





TECHNICAL BID (PART - II)

Name of the Tenderer :
Address:
Pin Code No.:
Tel. No. :
Mobile No.:
Fax No. :
Email. :
Status of the Company :
(Pls. Tick mark as applicable) : Proprietor/Partnership/Company
Name of the Proprietor/Partners/ : Directors of the company/firm





TECHNICAL BID (PART - III)

Sl. No.	Description of the company/firm	Proof requires Yes / No	Page No.
1	Name of the firm		
2	PAN Card No.		
3	VAT Reg. No./ Sale Tax No./ GST Registration No.		
4	Annual turn Over (Rs. 50 Lakhs)		
5	List of Clients		
6	Work Experience For providing 10 year experience in the sale and maintenance (Attached documentary proof in support of claim)		
7	Total number of Engineers working in the Organization		
8	Proof of having Service centre at Bengaluru		
9	Illustrated pamphlets containing all the Technical Details, Specification of the tendered item should be enclosed along with the tender.		
10	Whether EMD submitted or not		
11	Tender document cost should be enclosed along with technical bid in form of DD in case of downloaded from website	DD No: Date: Amount:	
	Bidder should submit the AMC certificate		
12	A declaration that the after sales service facilities as well as spare parts shall be made available at least for 5 years for each of the specific equipment / article quoted.		
	A declaration indicating willingness to provide AMC services at least for 3 years after the expiry of the warranty for each of the maintainable equipment quoted.		
13	Undertaking regarding black-listing by any department as per Annexure - VIII		
14	This tender document, the bidders are requested to sign a & the Commercial bid should be sealed by the bidder in	10	e Technical bid





<u>ANNEXURE - II</u> <u>FINANCIAL BID</u> (To be submitted On Company Letter Head)

Reference No.

To, Director, National Centre for Disease Informatics and Research (NCDIR), Bengaluru 562110

Dear Sir

With reference to the tender no. NCDIR/ICMR/310/2019 dated for "Supply and Installation of 15 KVA Online UPS System to NCDIR, Bengaluru", we have carefully studied its scope of work and deliverables and based on these, we submit our best rates for carrying out the desired scope of work as below:

Sl. No.	Item description	Unit Cost	Qty.	Taxes/VAT/ GST
1	15 KVA online UPS with DSP control based ON-LINE Double Conversion Technology, Three phase input and Three phase output, IGBT with PFC control technology, Isolation transformer only on input side			
2	Battery bank for one hour back up along with interconnecting cables, cable from UPS to Battery Bank with battery stand with 48 months warranty and THREE years maintenance.			
3	Installation & Commissioning charges			
4	Comprehensive AMC for UPS and batteries for a period of 3 years after warranty period			
	Total			

<u>Note * :</u> The installation of wiring will be paid actual

The above Total amount mentioned is inclusive of all tax and other charges

Date:

Name, signature & seal of the tenderer





<u>ANNEXURE – III(a)</u> PROOF OF EXPERIENCE

Date:

To, Director, National Centre for Disease Informatics and Research (NCDIR), Bengaluru 562110

Sl. No.	Name of the Organisation / Clients	Name of the Contact Persons & Number	Address	No. of years
1				
2				
3				
4				
5				
6				
7				
8				
9				

Important: Documentary proof like work order/Agreement/Invoice should be enclosed for each organization mentioned above.

Signature of Bidder

Name: _____





ANNEXURE – III(b)

SATISFACTORY PERFORMANCE CERTIFICATE

Date:

To, Director, National Centre for Disease Informatics and Research (NCDIR), Bengaluru 562110

Sl. No.	Name of the Organisation / Clients	Name of the Contact Persons & Number	Address
1			
2			
3			
4			
5			
6			
7			
8			
9			

Important: Copy of satisfactory performance certificate should be enclosed for all the firms mentioned above.

Signature of Bidder

Name: _____





ANNEXURE – IV

ON THE LETTERHEAD OF THE VENDOR/CONTRACTOR/SUPPLIER DETAILS

Date:

То

The Director, National Centre for Disease Informatics and Research (NCDIR) Bengaluru – 562 110

Dear Sir,

We hereby give our consent to accept the related payments of our claims/bills on NCDIR through Cheques or Internet based online E-Payments system at the sole discretion of NCDIR. Our Bank account details for the said purpose are as under:

A. Vendor Details	
<u>A. venuor Details</u>	
1. Name (As per the Bank Records)	
2. Address	
3. PAN No.	
4. TIN No.	
5. GST No.	
6. Email ID	
7. Mobile Number	
B. Particulars of Bank Account:	
1. Bank Name	
2. Branch Name/Branch Code	
3. Branch Address	
4. 9 Digit MICR No. of Bank and Branch (As appearing on the cheque)	
5. Account Type (Saving/Cash credit/ Current)	
6. Account Number (as appearing on the cheque book)	
7. IFSC Code of the Branch (For RTGS)	
8. IFSC Code of the Branch (For NEFT)	





***(please attach a blank copy of a cancelled cheque/photocopy of a cancelled cheque issued by your Bank related to the above account number for verifying the accuracy of the 9 digit MICR code number.

I/We hereby declare that the particulars given above are correct and complete. If the transaction is delayed or not effected to all for reasons of incomplete or incorrect information, I would not hold the user Institution responsible.

Date:

Phone No:

Signature/Seal of Firm

Certified that the particulars furnished above are correct as per our records

Date:

Phone No:

Company's Authorized Signatory

Encl: Photocopy of cheque duly cancelled and copy of Indian PAN Card





ANNEXURE – V

UNDERTAKING FROM BIDDERS

То

The Director, National Centre for Disease Informatics and Research (NCDIR) Bengaluru – 562 110

Sir,

Nature of Services	Supply and Installation of 2 Nos. of 15 KVA	
	Online UPS System for NCDIR, Bengaluru	

Having examined and perused the tender documents,

I/Wedo hereby submit tender in prescribed formats for supply and installation of 2 nos. of 15 KVA Online UPS System to NCDIR, Bengaluru, completed in all respects in accordance with the conditions applicable.

If this tender is accepted, I/We agree to abide by and fulfil all the terms and conditions in the tender documents

I/We hereby distinctly and expressly declare and acknowledge that before submission of this tender, I/We have carefully read and followed the instructions and I/We have understood the existing system of supply in the NCDIR, including the scope and nature of duties expected from the Bidder.

I/We distinctly agree that I/We would hereafter make no claim or demand upon the NCDIR, Bengaluru based upon or arising out of any alleged misunderstanding or misconceptions or mistake on my/our part of the said stipulations, restrictions and conditions.

Any notice required to be served on me/us shall be sufficiently served on me/us by post (registered or ordinary) or courier or left at my/our address furnished herein. I/We fully understand the terms and conditions in the tender documents.

Date:

Name, signature & seal of the bidder





<u>ANNEXURE – VI</u>

TENDER FEE & EARNEST MONEY DEPOSIT PAYMENT PARTICUALRS

Number of Demand Drafts enclosed:

Demand Draft particulars:

Sl. No.	D. D. No.	Date	Name of the Bank / Branch and Place	Amount
1.				
2.				
3.				

Signature :

Name :

Designation :

Name of the Agency:

Address of the Bidder:

Phone No. & Mob. No. :

Email Address :

Website Address (if any) :

Date :





ANNEXURE –VII

PERFORMANCE SECURITY BOND FORM

1. In consideration of National Centre for Disease Informatics and Research (ICMR) Bengaluru (here in after called the NCDIR Bengaluru) having agreed to exempt (here in after called the said contractor(s) from the demand of security deposit/earnest money of ₹. ______ on production of Bank Guarantee for ₹. ______ For the due fulfilment by the said contractors of the terms & conditions to be contained in an Agreement in connection with the contract for supply and installation of 2 nos. of 15 KVA Online UPS for National Centre for Informatics Disease and Research (ICMR) Bengaluru. Bank) (name of the we. "the Bank") (herein after referred to as at the request of Contractor's do hereby undertake to pay the NCDIR Bengaluru an amount of not _____, against any loss or damage caused to or exceeding suffered or would be caused to or suffered by the NCDIR Bengaluru reason of any breach by the said contractor's of any of the terms & conditions contained in the said agreement.

2. We (Name of the Bank) ______do hereby undertake to pay the amounts due and payable under this guarantee without any demur, merely on a demand from the NCDIR Bengaluru stating that the amount claimed is due by way of loss or damage caused to or would be caused to or suffered by the NCDIR Bengaluru reason of breach by the said contractor's of any of terms & conditions contained in the said agreement or by reason of the contractors failure to perform the said Agreement. Any such demand made on the bank shall be conclusive as regards the amount due and payable by the Bank under this guarantee, where the decision of the NCDIR Bengaluru in these counts shall be final and binding on the Bank. However, our liability under this guarantee shall be restricted to an amount not exceeding $\overline{\mathbf{x}}$.______.

3. We undertake to pay to the NCDIR Bengaluru any money so demanded not withstanding any disputes raised by the contractor(s)/supplier(s) in any suit or proceeding pending before any court or tribunal relating thereto our liability under the present being absolute and equivocal. The payment so made by us under this bond shall be valid discharge of our liability for payment there under and the contractor(s)/ supplier(s) shall have no claim against us for making such payment.

4. We (Name of the bank) _______ further agree that the guarantee herein contained shall remain in full force and effect immediately for a period of one year from date herein and further agrees to extend the same from time to time (one year after) so that it shall continue to be enforceable till all the dues of the NCDIR Bengaluru, under or by virtue of the said agreement have been fully paid and its claims satisfied or discharged or till NCDIR Bengaluru certifies that the terms & conditions of the said agreement have been fully and properly carried out by the said contractor(s) and accordingly discharges guarantee.





5. We further agree with the NCDIR Bengaluru that the NCDIR Bengaluru shall have the fullest liberty without our consent and without affecting in any manner our obligations here under to vary and of the terms & condition of said agreement or to extend time of performance by the said contactor(s) from time to time or to postpone for any time to time any of the powers exercisable by the NCDIR Bengaluru against the said any contractor(s) and to forbear or enforce any of the terms & conditions relating to the said agreement and we shall not be relieved from our liability by reason of any such variation, or extension being granted to the said contractor(s) or for any forbearance, and or any omission on the part of the NCDIR Bengaluru or any indulgence by the NCDIR Bengaluru to the said contractor(s) or by any such matter or thing whatsoever which under the law relating to sureties would, but for this provision, have effect of so relieving us.

6. The guarantee will not be discharged due to the change in the constitution of the Bank or the contractor(s)/supplier(s).

7. This guarantee shall be irrevocable and the obligations of the Bank herein shall not be conditional to any prior notice by NCDIR Bengaluru.

Dated:

For

(Indicating the name of the bank)

Note: This guarantee should be issued on non-judicial stamped paper, stamped in accordance with the stamp act.





ANNEXURE – VIII

NON-BLACKLISTING DECLARATION

I/We having our office as mentioned below and declare that I/we have never been blacklisted by any State Government/Central Government or any State/Central PSU.

Signature :

Name :

Designation :

Name of the Agency:

Address of the Bidder:

Date :

Place :





<u>ANNEXURE – IX</u> <u>TURN OVER DETAILS</u>

As per the tender eligibility criteria, The Service Provider must have a turnover of Rs. 50 Lakh, at least two of the last three Financial Years ending on 31-03-2019. These turnover details will have to be substantiated with the appropriate documentary evidences duly enclosed.

The last three years' sales turn-over details are furnished as follows.

Name of the Company / Firm:

Sl. No.	Financial Year	Turnover (Rs. In lakh)
1	2016-17	
2	2017-18	
3	2018-19	

Important: Proof of the above sales turn-over details should be furnished in the form of Audited Annual Accounts of the bidder.

Date:

Company's Authorized Signatory





<u>ANNEXURE – X</u>

MANUFACTURERS AUTHORIZATION FORM

Ref No:	Dated:		
То,			
The Director			
National Centre for Disease Informatics & Research			
Indian Council of Medical Research			
Nirmal Bhawan – ICMR Complex (II Floor)			
Poojanahalli Off N.H – 7			
Adjacent to Trumpet Flyover of BIAL			
Kannamangala Post			
Bengaluru – 562 110.			
Reference: Tender No	dated due on		
Dear Sir,			
We	_ the Manufacturers of		
having manufa	cturing unit at		
	(Address of the factory) do here by authorize		
	(Name and Address of dealer)		
to submit a bid, and subsequently negotiate and sign t			

We hereby extend our full guarantee, warranty and support and also in meeting warranty obligations by providing necessary spares in time for the goods & services offered by the above dealer against this tender.

Yours faithfully

(Name) (Name of the Manufacturer)

[Note: This letter of authority should be on the letterhead of the manufacturer and should be signed by a person competent and having a power of attorney to bind the manufacturer. The bidder in its bid should include it.]