



F. No. 9-33/22-23/NIHSAD (P&S)

Dated: - 23.08.2022

NOTICE INVITING TENDER THROUGH E-PROCUREMENT

Online Bids are invited from interested firms under two bid systems for **Purchase of 40 KVA UPS alongwith Batteries on Buy Back Basis** at ICAR-NIHSAD, Bhopal (M.P.). Manual bids shall not be entertained. Tender documents may be downloaded from e-Procurement website of CPPP <https://eprocure.gov.in> as per the schedule as given in CRITICAL DATE SHEET as under: -

CRITICAL DATE SHEET

Tender ID	2022 DARE 708232 1
Tender No.	No. F. 9-33/22-23/NIHSAD (P&S)
Name of Organization	ICAR-National Institute of High Security Animal Diseases, Hathai Kheda Dam Road, Anand Nagar, Bhopal – 462022 (M.P.)
Date and time for Issue/Publishing	24.08.2022 on 06:00 PM
Document Download/Sale Start Date and Time	25.08.2022 on 11:00 AM
Pre Bid Meeting Date and Time	14.09.2022 on 12:00 Noon
Bid Submission Start Date and Time	25.08.2022 on 11:30 AM
Bid Submission End Date and Time	21.09.2022 on 05:00 PM
Date and Time for Opening of Bids (Technical)	23.09.2022 on 11:00 AM
Price Bid/BOQ Opening Date and Time	Will be intimated after scrutiny of technical bid
Address for Communication	Director, ICAR-NIHSAD , Hathai Kheda Dam Road, Anand Nagar, Bhopal – 462022 (M.P.)

Administrative Officer
ICAR-NIHSAD
Anand Nagar, Bhopal – 462022 (M.P.)
Phone No.: - 0755-2754672

Annexure – I**INSTRUCTIONS FOR BIDDER**

1. The tender form/bidder documents may be downloaded from the website: <https://eprocure.gov.in>. Online submission of Bids through Central Public Procurement Portal (<https://eprocure.gov.in>) is mandatory. Manual/Offline bids shall not be accepted under any circumstances.
2. Tenderers/bidders are requested to visit the website <https://eprocure.gov.in> regularly. Any changes/modifications in tender enquiry will be intimated by corrigendum through this website only.
3. In case, any holiday is declared by the Government on the day of opening, the tenders will be opened on the next working day at the same time. The Director, ICAR-NIHSAD reserves the right to accept or reject any or all the tenders.
4. The interested Firms are required to deposit (in original) the Earnest Money Deposit (EMD) of the amount mentioned against item in the form of Account Payee Demand Draft/FDR from any of the Commercial Banks in favour of **ICAR Unit, NIHSAD, Bhopal** payable at Bhopal may be addressed to Director, ICAR-NIHSAD, Bhopal – 462022. The EMD can also be deposited online in an acceptable form on or before bid opening date and time as mentioned in the Critical Date Sheet. In case of depositing the EMD through online mode, proof of EMD (UTR No or any other) must be submitted alongwith tender. No quotation shall be considered without the earnest money deposit. The earnest money will be refunded only after the finalization of the procurement and no interest will be paid on earnest money.
5. The firm should send the **original brochures of the product as well as a copy of complete tender documents** in a sealed envelope addressed to **Director, ICAR-NIHSAD, Bhopal – 462022** on or before bid **opening date and time as mentioned in the Critical Date Sheet**. Original brochures should also be available on the website of the firm.
6. Bidder need not to come at the time of Technical as well as Financial bid opening at ICAR-NIHSAD. They can view live bid opening after login on CPPP e-procurement Portal at their remote end. If bidder wants to join bid opening event at ICAR-NIHSAD then they have to come with bid acknowledgement slip that generates after successful submission of online bid.

The firms are also required to upload copies of the following document: -

- **Technical Bid Qualification Criteria**

- (a) Scanned copy of Earnest money Deposit (EMD) in favour of **ICAR Unit, NIHSAD, Bhopal**/its exemption (MSME, NSIC/Startup firms etc. as per Govt. rules) if any.
- (b) Scanned copy of Firm's registration, Pan card, GST No. and Tender Acceptance Letter (Annexure – V).
- (c) Scanned copy of Annexure – II and IV duly signed and stamped by the bidder.
- (d) Scanned copy of duly signed and stamped Authorization certificate from OEM, if the bidder is an authorized distributor otherwise, scanned copy of OEM Certificate.
- (e) Undertaking of comprehensive onsite warranty of 40 KVA UPS and Batteries for minimum 2 years after successful installation and commissioning alongwith the test certificates (Ref. Annexure – VIII) duly signed and stamped.
- (f) Experience in supply, installation, testing & commissioning of 40 KVA or above capacity online UPS with atleast two installations in Govt./PSU/Autonomous bodies/Educational Institutions/Reputed Private Organizations within past 5 years (2017-2022). **Scanned copy of duly signed two satisfactory performance certificate from clients must be submitted.**
- (g) Scanned copies of technical data & specifications of UPS and batteries as per Annexure – VII & VIII.
- (h) Scanned copy of Technical literature of 40 KVA UPS alongwith Batteries.

- **Financial Bid**

Price Bid as BOQ_XXXX.xls

**Administrative Officer
ICAR-NIHSAD
Anand Nagar, Bhopal – 462022 (M.P.)**

Annexure – II**Terms & Conditions**

1. The tenderer shall quote rates, which will include the supply, installation, testing & commissioning of 40 KVA UPS alongwith Batteries at NIHSAD site & other incidental charges. Taxes etc. should be indicated separately.
2. The rates should be quoted as per the BOQ uploaded on the CPP Portal (reference may be obtained from Annexure – III). Taxes, if any, should be indicated separately. It must be noted that the contract shall be awarded to the firm which fulfills all the required terms and conditions and remains L-1 for any particular items.
3. The firm must also possess valid PAN No., GST No. registration number and a copy of the same must also be enclosed with the tender documents.
4. The 40 KVA UPS alongwith Batteries on Buy Back Basis quoted should be of latest technology. The spare parts of the 40 KVA UPS alongwith Batteries on Buy Back Basis quoted should be available for next 10 years.
5. Modification in the tender documents after the closing date is not permissible.
6. The successful firm shall have to supply the 40 KVA UPS alongwith Batteries on Buy Back Basis within 30 days from the date of confirmed supply order and if the materials are not supplied in time then EMD shall be forfeited. **The rates quoted shall be valid for One Hundred & Eighty days (180) from the date of opening of tender.**
7. The contractor bidder/ or his representative may contact the undersigned at Tel No. 0755-2750647, 2757542 for any further clarification between office hours. No variation in terms of quality of the items shall be entertained or else EMD/Security deposit shall be forfeited.
8. The Director, ICAR-NIHSAD shall have the right to reject all or any of the offers, accept more than one offer, and assign part of the job.
9. Merely quoting of lowest rates does not mean that order shall be given to that firm. The competent authority will finally decide on the basis of quality & performance or past installations.
10. Rates once finalized will not be enhanced/reduced during the currency of the contract.
11. In case, the successful bidder shown inability at any stage, after the contract is finalized and awarded, for whatsoever reason(s), to honour the contract, the earnest money/performance security deposited would be forfeited.
12. The Director, ICAR-NIHSAD reserves the right to cancel the contract at any time during the currency period of the contract without giving any reasons.

13. The firm, to whom the tender will be awarded, will have to deposit the performance security equal to 3% of the total amount before supply of the 40 KVA UPS alongwith Batteries on Buy Back Basis. If the services are not found to be satisfactory, the performance security is liable to be forfeited. No interest will be paid on performance security.
14. If any dispute(s) arises between ICAR-NIHSAD and the firm with reference to the contract, ICAR-NIHSAD will decide it and its decision will be binding on the firms.
15. No official of a procuring entity or a bidder shall act in contravention of the codes which includes
 - (i) Prohibition of
 - (a) Making offer, solicitation or acceptance of bribe, rewards or gift or any material benefits, either directly or indirectly, in exchange for an unfair advantage in the procurement process or to otherwise influence the procurement process.
16. Our institute is registered with DSIR and we are exempted from Excise Duty & Custom Duty. Hence, CDEC/DSIR will be provided to the firm, if demanded. Rate should be quoted accordingly.
17. **Payment -**
 PAYMENT TERMS: Payment will be made within reasonable time say within 30 days from the date of receipt of material in good condition without any damage. **Since the mode of payment will be e-payment system, hence Bank Account Number, name of bank with location and IFSC Code Number of Bank may be furnished on the body of the bill.**
18. **Supply, installation, testing & commissioning:-**
 Within 30 days from the date of issue of purchase order.
Liquidated Damage clause: - It would be realized @ 0.5% (half per cent) of the base price (excluding taxes) of the delayed goods for each week of delay subject to maximum 10%.
19. **Warranty:** -Comprehensive onsite warranty of 40 KVA UPS alongwith Batteries for minimum 2 years after successful installation and commissioning alongwith the test certificates dully signed.

‘Terms & conditions are acceptable’

Date:-

(Authorized Signatory of the firm)

ANNEXURE – III

(Reference for BOQ) (To be quoted in format provided on CPP Portal)

Price bid for Purchase of 40 KVA UPS alongwith Batteries on Buy Back Basis

Sr. No.	Name of the item	Qty	Price (In figure/words) (as per BOQ)
1.	40 KVA UPS alongwith Batteries on Buy Back Basis	01 No.	Price should only be quoted in BOQ format provided in CPPP

- * Items should be of reputed make and suitable for high end elite users.
- * Tax extra as applicable should be indicated separately in the column provided.

Note:- The above mentioned Financial Proposal/Commercial bid format is provided as BoQ_XXXX.xls along with this tender document at <https://eprocure.gov.in>. Bidders are advised to download this BoQ_XXXX.xls as it is and quote their offer/rates in the permitted column and upload the same in the financial bid. Bidder shall not tamper/modify downloaded price bid template in any manner. In case if the same is found to be tempered/modified in any manner, tender will be completely rejected and EMD would be forfeited and tenderer is liable to be banned from doing business with ICAR-NIHSAD.

Annexure – IV

भाकृअनुप-राष्ट्रीय उच्च सुरक्षा पशुरोग संस्थान
ICAR-National Institute of High Security Animal Diseases

(एवियन इन्फ्लूएंजा ओ.आई.ई. संदर्भ प्रयोगशाला)
 (OIE Reference Laboratory for Avian Influenza)

आनंद नगर, भोपाल - ४६२०२२ (म.प्र.), भारत
 Anand Nagar, Bhopal - 462022 (M.P.), India



EPABX Tel. No. 0755-2757542, 2750647, FAX: 0755-2758842, Website: www.nihsad.nic.in

Name of the Firm _____

Registered/Postal Address _____

1.	Permanent Account Number (PAN)	
2.	GST Registration No.	
3.	BANK DETAILS: -	
a)	Bank Name	
b)	Branch Address	
c)	Account No.	
d)	Type of Account (Current/Savings)	
e)	MICR No.	
f)	RTGS/NEFT Code	

Date: -

Name of the Authorized Signatory

Stamp & Signature

Place: -

Annexure – V**TENDER ACCEPTANCE LETTER**
(To be given on Company Letter Head)

Date:-

To,

Sub:- Acceptance of Terms & Conditions of Tender.

Tender Reference No.:

Name of Tender / Work: -

Dear Sir,

1. I/ We have downloaded / obtained the tender document(s) for the above mentioned 'Tender/Work' from the web site(s) namely:

as per your advertisement, given in the above mentioned website(s).

2. I / We hereby certify that I / we have read the entire terms and conditions of the tender documents from Page No. _____ to _____ (including all documents like annexure(s), schedule(s), etc .), which form part of the contract agreement and I / we shall abide hereby by the terms / conditions / clauses contained therein
3. The corrigendum(s) issued from time to time by your department/ organizations too have also been taken into consideration, while submitting this acceptance letter.
4. I / We hereby unconditionally accept the tender conditions of above

mentioned tender document(s) / corrigendum(s) in its totality / entirety.

5. I / We do hereby declare that our Firm has not been blacklisted/ debarred by any Govt. Department/Public sector undertaking.
6. I / We certify that all information furnished by the our Firm is true & correct and in the event that the information is found to be incorrect/untrue or found violated, then your department/ organization shall without giving any notice or reason therefore or summarily reject the bid or terminate the contract, without prejudice to any other rights or remedy including the forfeiture of the full said earnest money deposit absolutely.

Yours faithfully,

(Signature of the Bidder, with Official Seal)

ANNEXURE - VI

Details of 40 KVA UPS alongwith Batteries on Buy Back Basis & EMD

Item	Qty	Earnest Money in INR	File No. for reference
40 KVA UPS alongwith Batteries on Buy Back Basis	01 No.	Rs. 50,000/- in favour of ICAR Unit, NIHSAD, Bhopal (DD/FDR)	9-33/22-23/NIHSAD (P&S)

ANNEXURE – VII

Specifications for 40 KVA UPS alongwith Batteries on Buy Back Basis

Name of the Item: - 40 KVA UPS along with batteries.

Quantity: - One Number.

1. General Description: -

Supply, installation, testing and commissioning of one number of 40KVA Uninterrupted Power Supply (UPS) along with batteries & all associated items / accessory as specified below at ICAR-NIHSAD, Bhopal. The 40 KVA online UPS shall be acceptable only after satisfactory commissioning of UPS complete in all aspects including safe and trouble-free continuous operation of the system in a manner acceptable to NIHSAD and complying with latest provision of national and international standards / codes and practices of Indian electricity rules and Industrial Electricity Act.

2. Technical specifications of 40 kVA UPS along with batteries & associated accessories.

a. EQUIPMENT	40kVA Online UPS (Modular Rack Mount)	To be filled by bidder
Power (kVA)	40 kVA	
Power (kWatt)	36 kW	
Make & Model	Any reputed make & model	
OEM or Authorized distributor	Bidder should be OEM or Authorized distributor (Authorization certificate must be submitted)	Attached (Yes/No)
Country of Origin	To be mentioned by bidder	
b. INPUT		
Rectifier Design	IGBT Technology	
Input Voltage AC	380 / 400 / 415 VAC ; 3 Phase, N	
Input Voltage Range	± 10%	
Input Frequency	50 Hz	
Input Frequency Range	± 5%	
Input Power Factor	> 0.99	
c. OUTPUT		
Inverter Design	IGBT based PWM	
Output Power Factor	0.99	
Output Voltage AC	400 / 415 (selectable) VAC ; 3 Phase, N	
Output Voltage Regulation	± 1% (Static) ; ± 5% (Dynamic)	
Output Frequency	50 Hz	
Frequency Stability	± 0.1% (operation by battery) ; ± 1% (main synchronized)	
Voltage Wave	Sinusoidal	
Total Harmonic Distortion	< 3% (linear load) ; < 5% (non-linear load)	
System Efficiency	> 90 % or better.	
Crest Factor	3 : 1	
Transfer Time	0 msec.in AC mode to Battery mode.	
BYPASS		
Static Bypass	The integral bypass should be available to perform an automatic transfer of the critical load from the inverter to the bypass, in the event of overload, over temperature, or inverter failure condition without any load break.	
Maintenance Bypass	Must be available.	
d. BATTERY /BATTERY BANK & CHARGER		
Battery Bank	Should have Double battery bank which	Battery Warranty

	provide minimum 1 hour backup on full load of irrespective of the configuration selected. No. of batteries as per the make & model of UPS should be quoted. Warranty: Minimum 2 years from the Installation. (Attach scanned copy of undertaking)	Undertaking attached (Yes/No)
Battery Type	Battery Type should be No maintenance battery/SMF of reputed brand having ISO 9001:2008 & ISO 4001 BIS/ISI for quality and environment.	
Battery Bank DC Voltage	Should have 12 VDC x Configured battery number (adjustable via display panel such that in case of failures of some batteries in the bank, the UPS can operate with reduced number of batteries) Battery circuit breaker for Battery bank.	
Battery Self Test	Automatic and manual battery test system	
Battery Charge Time	8 hours to 10 hours, 90% capacity after deep discharge	
Battery Data	Full technical data sheet of quoted battery to be attached.	Technical data sheet Attached (Yes/No)
DC disconnect switch with protection	Isolator with the UPS should be provided	
Deep Discharge Protection	Should be available.	
Battery Design Life	3 years Minimum	
Battery End Cell volts	1.75 volts/cell	
e. MIMIC & CONTROL PANEL		
Type	LCD Alphanumerical mini panel or LCD touch screen	
LCD Display	Should display- Input Voltage, Output Voltage, Battery Voltage, Battery Current, Output Frequency, Battery Charge Level, Remaining back-up time (in minutes) capacity display, UPS Power, Load Percent, communication systems fault info.	
LED Display	Should consist of Load on Bypass, Load on UPS, Alarms and operation by battery leads.	
Push Button	Emergency OFF should be available.	
Event Log	Display log status and alarm events to be provided.	
f. PROTECTION		
Over Load Capacity	Should compatible with 100% ~ 125% load for 10 minutes ; 125% ~ 150% load for 1 minute; > 150% load on the bypass	
Short Circuit	In case of short circuit, UPS should have following protection feature: a) Inverter mode: UPS shuts down itself. b) Bypass mode: AC protection fuse is blown.	
Over Heat	During over heat, UPS should have following protection features: a) If main normal: UPS should cross to by-	

	pass mode. b) If main voltage is not normal: UPS should cut output and Alarm on the LCD Display.	
Battery Low Level	Battery low alarm should occur on the LCD along with Sound alarm	
g. ALARMS		
Visual and Auditory	Should consist of Bypass alarm, mains fault, load on bypass, overload, mains failure, output voltage high / low, over temperature, battery voltage high/low, short circuit, fault inverter, battery test (Buzzer can be Off.), Output frequency error, Output voltage error, Load on mains, Load on batteries, Ventilation fan failure, Battery output breaker open.	
h. COMPUTER INTERFACE		
Communications	Standard configurations: RS232, RS485, USB/Ethernet, Dry contacts etc. Optional Configuration : SNMP	
i. GENERAL		
Noise Level at 1 Meter	< 60 dB	
Technology	High frequency IGBT technology, PWM, True Online System, 2 Micro Pro. and high protection by driver	
Operation Temperature / Humidity	0 °C ~ +40 °C / Maximum 90%	
Cooling	Fan	
UPS should fit within space of Dimension (WxHxD) (mm)	1200 x 1900 x 635	
Bottom/Front on standard E models	Rear on EB models	
Cable Entry	Bottom/Front on standard E models, Rear on EB models	
Generator Compatible	Should be compatible	
j. STANDARDS & CERTIFICATIONS		
Quality system	ISO 9001/ISO14001	
EMC/Performance	IEC (IEC62040-1/IEC62040-2/IEC62040-3)	
k. MARKINGS	CE/UL/ROHS	
l. TEST CERTIFICATES	Test certificates shall be provided along with supply of UPS.	Attached (Yes/No)
m. WARRANTY	Comprehensive onsite warranty of UPS for minimum 2 years after successful commissioning of UPS. (Free servicing of UPS once a year during warranty).	UPS Warranty Undertaking Attached (Yes/No)
n. Installation, testing and commissioning	Quote should be inclusive of supply, installation, testing & commissioning.	Attached (Yes/No)
o. Experience of supply, installation and commissioning of 40 KVA or above capacity online UPS.	Two satisfactory performance certificates of 40KVA or above capacity UPS installed in Govt./PSU/ Educational Institution / Reputed private Organization within past 5 years. (Work orders will not be accepted in lieu of installation performance certificates).	Attached (Yes/No).

2.1 General Design Aspects: -

The 40 KVA Online UPS systems shall be designed such that the switchgear, instruments, relays, cables, small wirings etc. are arranged and mounted with due consideration for the following:-

- a. Enclosure - Dead front, floor standing, rigid welded/bolted/rebated steel frames, metal clad, vermin, damp and dust proof, suitable for indoor installation and provision for bolting to the floor. Suitable lifting hooks needs to be provided for lifting of the equipment.
- b. Degree of protection – IP4X
- c. Material of construction- CRCA steel
- d. Metal sheet thickness- 2.5mm
- e. **Space available for installation of panels– Height-1900 mm, Depth -635mm, Width-1200 mm.**
- f. Facility for inspection, maintenance and repairs of testing terminals and terminal boards for ease of external connection.
- g. Minimum noise and vibrations, no risk of accidental short circuits and open circuits and secured and vibration proof connections for power and control circuits.
- h. Avoid Risk of accidental contact and danger to personnel due to live connections
- i. Mountings at approachable height.
- j. The access door of 40 KVA Online UPS systems should be hinged type & provided at the back of each Panel where no instruments or relays shall be mounted.
- k. The complete panel shall incorporate all necessary instruments, meters, relays, auxiliary relays, control switches, indicating lamps, mimic, annunciation, audible alarms, horizontal and vertical wiring trough, wiring supports, interior lighting system, terminal blocks , fuses and links etc.
- l. The indicating and signaling devices and relays etc. shall be mounted on the front side and the auxiliaries switch shall be inside the Panel. The access door shall be at the back side and of suitable height.
- m. Reverse phase sequence protection: - Reverse phase sequence protection for each UPS, shall be capable of correcting the input phase sequence and the UPS shall not go to Battery mode under such condition.
- n. 40 KVA Online UPS shall be designed to operate as true on line double conversion and shall have galvanic isolation through the inbuilt Isolation transformer at UPS input to cover online as well as static bypass path of suitable capacity for meeting out UPS full load, losses of UPS and fully drained battery charging load etc.
- o. UPS shall have its own static switch, IGBT based rectifier/charger, IGBT based inverter, based on digital signal processing technology (DSP) and the battery bank.
- p. Static bypass module shall ensure the instantaneous transfer of load to the bypass AC source input. Manual maintenance bypass switch shall isolate the UPS for maintenance and transfer the load to the bypass AC source input.
- q. In case of failure of the UPS units due to internal faults the load shall be fed by the bypass mains automatically, provided the Mains voltage and frequency are within acceptable limits.
- r. In case of excessive temporary over loads the system shall be designed to switch over to the bypass mains provided the Mains voltage and frequency are within acceptable limits. After removal of the temporary overload, the system shall automatically switch back to UPS mode from bypass mode.
- s. UPS shall have complete isolation facility by means of MCCBs/circuit breakers at battery bank, input and output.

3. Battery Bank: -

- a. The rack of the Battery Bank shall be made of MS angle framework of adequate size and strength to accommodate all the required batteries of UPS and shall have suitable clearance for ventilation and maintenance of batteries. The rack shall be powder coated. The interconnection of battery shall be with single core PVC insulated fire retardant copper cables of suitable size and capacity with necessary terminal blocks, nuts bolts etc. and all the cable shall be dressed in a neat manner. The suitable capacity MCCB shall be mounted outside the rack to isolate the battery bank in case of emergency or during maintenance.

- b. The 40 KVA UPS shall have double battery bank with back up of 1 hour for 40 kVA at 0.9 Lag Power Factor with required number of batteries.
- c. To substantiate the selection of number and size of batteries, the detailed calculations shall be furnished along with the selection chart/graph. The end cell voltage after discharge of batteries shall not be less than 1.75 V per cell
- d. **Advance Battery Management:-** To prolong the battery life, the UPS shall be provided with temperature – compensated battery charging and protection against over-charging of battery. Protection against deep discharge of batteries shall be incorporated

4. Testing of UPS:-

- a. UPS shall be tested in the manufacturers factory/bidder premises to ascertain the compliance of offer specifications
- b. The bidder shall carryout the various tests mentioned below in their factory/work and forward the copy of those test reports/certificates along with supply. **(Sample format for testing of 40 KVA UPS attached as Annexure-VIII)**
 - i) Visual Inspections
 - ii) Static –state tests i.e. Input/output stability, harmonics, efficiency, frequency, power factor.
 - iii) Dynamic tests-different operating modes, overload test, battery backup test.
 - iv) Failure simulations- battery failure, ac mains failure, bypass.
- c. Further, the UPS system shall be tested at the site for proper functioning and performance. The testing equipment shall be provided by the bidder, if required to confirm that UPS has not been damaged during transportation to NIHSAD site.

5. Installation & Commissioning: -

- a) Installation & Commissioning of the 40 KVA online UPS system along with control wiring has to be carried out at the designated location at NIHSAD, Electrical Substation.
- b) All commissioning work should be as per BOQ & should be compatible with over existing Electrical system and with minimum modification if required complete in all respect with all materials and labors etc including dismantling and repairing of civil parts and minor modification of interlocking wiring if any.
- c) The commissioning & modification of 40 KVA online UPS system is to be carried out in phased manner without disturbing the functioning of electrical substation & working of Bio-containment Facility lab as per the bio-safety norms of NIHSAD under the supervision of NIHSAD staff.
- d) The existing electrical single line diagram of substation and 40 KVA UPS system may be referred for reference. In order to ensure exact installation and commissioning & modification involved and to know Bio-safety norms the bidders are highly recommended to visit the location before quoting the bid.
- e) Necessary training /instructions on operation of the system should be given by the bidder to NIHSAD technical staff at free of cost after completion of the installation.
- f) The commissioning of Earthing with copper earth conductor of required capacity from the existing earth pit to UPS & battery bank is in bidder scope.

6. Note to Bidders: -

- a. The vendor of UPS shall provide free updates of software upto 5 years from the date of installation.
- b. The vender shall provide free servicing /maintenance once in a year during the warranty period.
- c. All the Tools & Tackles, Consumables and manpower required for dismantling, installation and commissioning of 40 KVA UPS is in the bidder scope.
- d. The vender shall submit 3 Sets of GA Drawing, instruction manual and SLD drawing of the 40 KVA online UPS system after successful commissioning along with the bill.
- e. If there is any mismatch between the specifications given in the Tender and Indian standards, then decision of the ICAR-NIHSAD, Bhopal is final and party has to accept the same without any cost implication.

- f. Design, material selection and workmanship shall be such as to result in neat appearance, inside and outside with no welds, rivets or bolt head apparent front outside, with all exterior surfaces tune and smooth.
- g. Electronic Annunciation shall have first Fault Indication Facilities with 'Accept', 'Reset' and 'Test' push buttons .Provision for testing healthiness of visual and audible alarm circuits of annunciation shall be available.
- h. Terminal Ends of all wires shall be provided with numbered Ferrules. At point of inter-connection where a change of number is necessary, duplicate Ferrules shall be provided with the appropriate numbers on the changing.
- i. The entire numerical relay should have provision for setting all the features available in the relay and viewing those setting as well as different other parameters through both built in display unit.

7. Other terms and conditions:-

1. Manufacturers Authorization Form (MAF)/certificate with OEM details such as name, designation, address, e-mail and contact number required to be furnished along with the bid.
2. Bidders should submit complete specification/details/brand of the item offered along with the bid.
3. **The bidder shall quote rates, which will include the supply, installation, testing & commissioning of UPS and other incidental charges, taxes etc. FOR to ICAR-NIHSAD, Bhopal.**
4. The bidder must possess valid PAN No., GST No. and registration number of company/firm/entity.
5. The Equipment (40 KVA UPS along with batteries) quoted should be of latest technology. The spare parts of the Equipment (40 KVA UPS) should be available for next 10 years.
6. The successful bidder shall supply 40 KVA UPS along with batteries within 30 days from the date of confirmed supply order. **The rates quoted shall be valid for One Hundred & Eighty days (180) from the date of opening of tender/technical bid.**
7. Supply includes successful installation, testing and commissioning of 40 KVA UPS at ICAR-NIHSAD, Bhopal.
8. The bidder or his representative may contact at Tel No. 0755-2750647, 2757542 for any further clarification during office hours. No variation in terms of quality/model of the items shall be entertained or else EMD/Security deposit shall be forfeited.
9. The Director, ICAR-NIHSAD shall have the right to reject all or any of the offers, accept more than one offer, and assign part of the job.
10. Merely quoting of lowest rates does not necessarily mean that order shall be given to that firm. The competent authority will finally decide on the basis of terms and conditions of the tender/bid.
11. Rates once finalized will not be enhanced due to the currency value fluctuations during the contract finalization.
12. In case, the successful bidder shows inability at any stage, after the contract is finalized and awarded, for whatsoever reason(s), to honor the contract, the earnest money/performance security deposited shall be forfeited.
13. The Director, ICAR-NIHSAD reserves the right to cancel the contract at any time during the currency period of the contract without giving any reasons.
14. The firm, to whom the tender will be awarded, will have to deposit the performance security equal to 3% of the total amount before supply of the 40KVA UPS along with batteries. If the services are not found to be satisfactory, the performance security is liable to be forfeited. No interest will be paid on performance security.
15. If any dispute(s) arises between ICAR-NIHSAD and the firm with reference to the contract, ICAR-NIHSAD will decide it and its decision will be binding on the firms.
16. No official of a procuring entity or a bidder shall act in contravention of the codes which includes (i) Prohibition of (a) Making offer, solicitation or acceptance of bribe, rewards or gift or any material benefits, either directly or indirectly, in exchange for an unfair advantage in the procurement process or to otherwise influence the procurement process.

17. **ICAR-NIHSAD, Bhopal is registered with DSIR and we are exempted from Excise Duty & Custom Duty. Hence, CDEC/DSIR will be provided to the firm, if demanded. Rate should be quoted accordingly. Applicable GST rate should be 5% (Five percent).**
18. **Payment - PAYMENT TERMS:** Payment will be made within reasonable time say within 30 days from the date of receipt of material in good condition without any damage.
19. **Liquidated Damage clause:** - It would be realized @ 0.5% (half per cent) of the base price (excluding taxes) of the delayed goods for each week of delay subject to maximum 10% of the contract value.
20. **Warranty:** -Comprehensive warranty for two years from the date of successful installation and commissioning of UPS.

Annexure-VIII

Sample Format for Testing of 40 KVA UPS

Make of UPS.....

Model no. of UPS.....

Sr.no. of UPS.....

Details of Instruments used for Testing:-

Type	Make	Model	Calibrated on
Power Analyzer			
Multi-meter			
CRO			
Any other Instrument used			

The UPS system shall be tested before delivery at site and the following tests shall be performed.

1. **Input voltage variation** test at rated load condition .Vary the input voltage to the UPS and note the readings. The parameters recorded are input voltage, input current, DC voltage, Dc current, Output voltage, output current, output waveform distortion and ripple on battery terminal

Input Voltage	Output voltage	Output Voltage Harmonics	Ripple at battery terminal
360			
400			
460			

2. **Measurements of Input power factor, efficiency, output power factor:-**

Load on UPS	Actual Input KW	Output KW	Tested Efficiency	Committed efficiency	Observation
100% load at 0.9 pf					
75% load at 0.9 pf					
50 % load at 0.9 pf					

3. **Overload test:-**

Percentage of Load	Tripping Time
125% overload	
150 % overload	

4. **Output Voltage Regulation** (at 100% load):-

Output voltage at No Load (Vnl).....Volts
 Output voltage at 100% Load (Vfl).....Volts
 Voltage regulation: $(Vnl - Vfl) / 100 =$ %

- 5) **Testing of Input Frequency range:-**

Vary the input frequency from 47 to 53 Hz and observe the voltage frequency .It should be within 49.5 to 50.5 Hz.

- 6). **Battery backup test.**

Financial Bid (BOQ) should be filled & uploaded separately

To

The Director,
NIHSAD,
Bhopal – 462021 (M.P.)

Sir,

I/We submit our tender with respect to financial bid for Purchase of 40 KVA UPS alongwith Batteries on Buy Back Basis at ICAR-NIHSAD, Bhopal and my/our rate is as follows which may be read with reference to Schedule – II: -

Financial Bid (BOQ) (For reference purpose only and not to be filled with technical bid)				
Tender Inviting Authority: Director, ICAR-NIHSAD, Bhopal Name of Item: Purchase of 40 KVA UPS alongwith Batteries on Buy Back Basis at ICAR-NIHSAD, Bhopal Contract No: 9-33/22-23/NIHSAD (P&S)				
Name of the Bidder/ Bidding Firm / Company:				
<u>PRICE SCHEDULE</u>				
NUMBER #	TEXT #	NUMBER #	NUMBER #	TEXT #
Sl. No.	Item Description	BASIC RATE In Figures To be entered by the Bidder in Rs. P	TOTAL AMOUNT in Rs. P	TOTAL AMOUNT In Words
1	2	3	4	5
1	Supply/Purchase			
1.01	Cost of 40 KVA UPS alongwith Batteries including supply, installation, testing and commissioning (as per Annexure – VII & VIII) (Amount in INR)		0.00	INR Zero Only
1.02	Buy Back Cost (Amount in INR)		0.00	INR Zero Only
1.03	GST [as applicable (Sl. No. 1.01 – Sl. No. 1.02)] (Amount in INR)		0.00	INR Zero Only
Total in Figures			0.00	INR Zero Only
Quoted Rate in Words		INR Zero Only		

I/We agree to forfeiture of the EMD deposited by me/us in connection with tender if we fail to comply with any of the terms and conditions in whole or in part as paid down in the tender documents. We have carefully read the terms and conditions of the tender and agree to abide by these in letter and spirit.

In other terms and conditions that the tender would like to specify, it will form a part of the schedule.

Note:- The National Institute of High Security Animal Diseases, Indian Council of Agricultural Research under the Deptt. Of Agriculture Research and Education (DARE), Govt. of India is engaged in Research and Development activities in the field of Animal Sciences. This Institute is 100% funded by the Govt. of India and has been exempted from the payment of Excise Duty under Notification No. 51/96-Gustoms dated 23.July, 1996 and amended by Notification No. 43/2017 dated 30.06.2017, Notification No. 47/2017-Outergrated Tax (Rule) dated 14.11.2017 and Notification No. 45/2017-Central Tax (Rate) dated 14.11.2017, Notification No. 45/2017-Union Territory Tax (Rule) dated 14.11.2017 and is registered under the Ministry of Science & Technology, Deptt. Of Scientific and Industrial Research vide Regd. No. TU/V/RG-CDE (1235)/2019 dated 01.09.2019. Hence, GST may applicable accordingly.

Signature
Name and address of the firm with phone number