



National Insurance Academy
25, Balewadi, Baner Road, NIA P.O., Pune 411 045
Tel: 020-27204000/4444, Fax: 020-27204555
Website: www.niapune.org.in

Through Online Mode Only
NIA E-PROCUREMENT WEBSITE IS:
<https://www.tenderwizard.com/NIA>

E-TENDER / E-QUOTATION DOCUMENT

FOR

**SUPPLY, INSTALLATION, TESTING AND COMMISSIONING OF 2 NOS. OF 40 KVA
TRUE ONLINE THREE PHASE UPS WITH BATTERY BACKUP AT N.I.A. CAMPUS.**

(Engineering Department)

National Insurance Academy, Pune (NIA) invites Online Tender in Two Bid System i.e. Technical with Financial bid from eligible Tenderers for the supply, installation, testing and commissioning of 2 Nos. of 40 KVA True Online Three Phase UPS as detailed below with the terms & conditions of the tender.

TECHNICAL BID

NOTICE INVITING TENDER (NIT)

Brief Description of the requirement	SUPPLY, INSTALLATION, TESTING AND COMMISSIONING OF 2 NOS. OF 40 KVA TRUE ONLINE THREE PHASE UPS WITH BATTERY BACKUP AT N.I.A. CAMPUS.
Tender Type	Open
Bid Type	Two Bid
Mode	ETS E-Tendering System
Period for Downloading of tender document Online	From 11:00 Hrs of 28.12.2020 to 15:00 Hrs of 17.01.2021
Online Submission of Tender Fee & EMD	Up to 17.01.2020 @ 17.00 Hrs. (IST)
Last Date & Time for Tender Submission Online	17.01.2021 @ 17.00 Hrs. (IST)
Date / Time of Technical Bid Opening online	18.01.2021 @ 11.30 Hrs. (IST)
Date & Time of Opening of Commercial Bid Online	Shall be intimated at a later date to the Tenderers, who qualify in the Technical Evaluation.
Tender Fee Applicable	500+18% GST = Rs.590/-
EMD Applicable	Rs.10,000.00

INSTRUCTIONS TO TENDERERS

1. All Tenderers are required to read these conditions carefully and submit a Tender Acceptance Letter as per format at **ANNEXURE A**, as token of having read, understood and accepted the conditions, along with information called for by NIA.
2. The bidding document shall be read in conjunction with any amendment(s) issued on later date.
3. Tenderers should get clarified all the technical doubts and other points related to the tender before submitting the priced and un-priced offer.
4. No assumption, stipulation, deviations from terms and conditions or presumptions, etc. shall be made by the Tenderer while submitting the offer in the Price Part of the Tender. The liability of obtaining all necessary clarity with respect to the tender, its technical aspects and pricing shall be on the Tenderer.
5. NIA shall be under no obligation whatsoever to entertain any tender bid which is based on any assumption, stipulation, deviations from terms and conditions or presumptions, etc. and would have the option to reject such bid.
6. Tenderer shall submit the offer in two parts, i.e. Technical Bid and Price Bid online i.e. tender should be uploaded in the e-system only.

Part I - TECHNICAL BID

Tenderers are required to serially number all the pages being appended by them as part of submission to the Technical bid. Such numbering shall include, Covering letter, Technical specifications, items list being offered, Drawings, Specifications, Certificates, Catalogues, Compliance or Deviation statements, etc. as applicable to this Tender and create an Index Page with headings and corresponding page numbers. In addition to this, all pages of the Tender Documents issued by NIA shall be signed on all pages and to be uploaded in the system.

Part II - PRICE BID

In case, PRICE BID is included in TECHNICAL BID portion, or PRICES are mentioned in the technical bid itself the entire bid will be rejected.

7. The item supplied/service provided shall be Environment friendly and Energy efficient.
8. In case of Tender Fee / EMD, the parties are requested to upload the online receipts as a proof of the same.
9. The Bank Guarantee by Indian Tenderers will be given on non-judicial stamp paper as per stamp duty applicable at the place where the tender has emanated. The non-judicial stamp paper should be in name of the issuing Bank. The Bank Guarantee by the Tenderers will be given from Nationalized /Scheduled Banks only.
10. Bids without Tender Fee and EMD will be summarily rejected without any further reference to the Tenderer.
11. **Any corrigendum / amendment to the tender will be uploaded on NIA's e-tendering website <https://www.tenderwizard.com/NIA> and will not be published through press advertisement.**
12. Prospective Tenderers should visit the above NIA website / e-Procurement site from time to time to make note of corrigendum / amendment if any. NIA will not be responsible for non-receipt of communications in this regard.
13. Deviation on Pre-Qualification Criteria (as applicable) and Tenderers' Evaluation Criteria is not acceptable and such Bids having any deviation are liable for rejection.

14. Date format should be “DD.MM.YYYY” (Date/Month/Year) format in respect of dates mentioned by Tenderers in their offer.
15. The tender terms / conditions as per SCC (Special conditions of the contract) supersedes all similar terms/conditions prescribed under General Conditions of Contract and in case of ambiguity of similar tender terms / conditions, the stricter terms shall prevail.
16. Tenderers shall send GST Invoices / Debit Notes / Commercial Invoices for the associated delivery costs including **Freight and TPI** if any along with the main invoice for material supply.
17. In case any of the documents / details submitted are found to be false / incorrect, NIA reserves right to cancel such bids and place such Tenderer/s on black listing.

INFORMATION & INSTRUCTIONS TO THE TENDERERS
FOR USING ONLINE ELECTRONIC TENDERING SYSTEM (ETS).

Special Conditions & instructions for using online Electronic Tendering System (ETS) through portal (website) <https://www.tenderwizard.com/NIA> adopted by National Insurance Academy, Pune as given in the subsequent pages will over-rule the conditions stated in the tender documents, wherever relevant and applicable.

Tenderers are required to enrol for Tenderer Registration on the NIA e-Procurement Tender wizard Portal (URL: <https://www.tenderwizard.com/NIA>) by clicking on the link “Registration” on the home page of e- Portal, which is chargeable. (Rs.1000/- + GST 18%, Non-Refundable) to be paid online through e-payment gateway).

Note: The e-Payment Gateway is available on e-Procurement Portal for making the Online Tenderer Registration Payment.

Note: Information about e-Procurement Portal.

More useful information for submitting online bids on the NIA e-Procurement Tender wizard Portal may be obtained at: <https://www.tenderwizard.com/NIA>.

Tenderers are requested to refer to the Tenderer’s manual by downloading the Tenderer’s Manual by visiting on home page of <https://www.tenderwizard.com/NIA> and following KEY INSTRUCTIONS for TENDERERS by clicking on “Latest Circulars/Formats/Help Manuals/FAQs”. The complete Step by Step Tenderers Help Manual For e-Procurement / e-Tendering Process, Tenderers Registration Process, System Settings Requirements & JAVA Settings Manuals, e-Payment Guidelines & Digital Signature Certificate Process are available on e-Auction Website regarding the e-Auction.

Online Support / Web Support / E-Mail Support / Phone Support are also available for Tenderers as well as Dept. Officials. Online support will be provided through “Team viewer” or “Ammy Admin” Remote software only.

For Downloading this software, the downloading software links are available on home page of e-Auction Website.

• **Registration of the Tenderers:** All the Tenderers intending to participate in the tenders floated online using Electronic Tendering System (ETS) are required to get registered on the e-Tender Portal (website) <http://www.tenderwizard.com/NIA>. After successful Registration on above mentioned portal, Tenderers will get a User ID and Password to access the website. **Those Tenderers who have enrolled recently need not register. The validity of registration is one year.**

• **Viewing of Online Tenders:** The Tenderers can view tenders floated on online Electronic Tendering System (ETS) hereinafter referred as “e-Tendering System” through portal (website) at <http://www.tenderwizard.com/NIA>. They can view the details like Tender Notice, Terms and Conditions, drawing (if any) and any other information. To download the tender they need to login on to the above portal and can download the tender documents of an e-Tender.

• **Key Dates:** The Tenderers can view the Online Scheduled dates of e-tendering System (time schedule) hereinafter referred as “Key Dates” for all the tenders floated using the online electronic tendering system on above mentioned portal (Website) <http://www.tenderwizard.com/NIA>

The Tenderers are strictly advised to follow dates and time as mentioned in Key Dates of a particular tender. The date and time will be binding on all the Tenderers. The Tenderers are required to complete the stages within the stipulated time as per the schedule (Key Dates) to continue their participation in the tender. All online activities are time tracked and the system enforces time locks that ensure that no activity or transaction can take place outside the start and end dates and time of the stage as defined. The Tenderer should ensure that the status of a particular stage should be shown as “Completed” before the expiry date and time of that particular stage and they should possess a copy of receipt of completion of each stage to be performed from their end which should match with the status with their offer on online portal. It will be the sole responsibility of the Tenderer if the status of a particular stage is “Pending” till the expiry date and time of that stage and he will not be able to proceed further in the e-Tendering process. The Key dates are subject to change in case of any amendment in schedule due to any reason stated by the Department.

• **Obtaining a Digital Certificate and its Usage:** On e-Tendering System the bids should be Encrypted and Signed electronically with a Digital Signature Certificate (DSC) to establish the identity of the Tenderer on online Portal. The Digital Signature Certificate (DSC) has two keys i.e. Public Key and Private Key. The Public Key is used to Encrypt (code) the data and Private Key is used to decrypt (decode) the data. The Encryption means conversion of normal text into coded language whereas decryption means conversion of coded language into normal text.

Note: Digital Signature Certificates: Class II or Class III Signing + Encryption Digital Signature Certificate is required for e-Tendering. (DSCs) are issued by an approved Certifying Authority, by the Controller of Certifying Authorities (CCA India), Government of India.

• The Tenderers may obtain Class II/III digital certificate from any Certifying Authority or Sub certifying Authority authorized by the Controller of Certifying Authorities on the portal <http://cca.gov.in>. or may obtain information and application format and documents required for issue of digital certificate from our Service Provider for Electronic submission.

E-Tendering System (ETS):

E-Tender helpdesk

#24, Sudha Complex,

03rd Stage, 04th Block,

Basaveshwaranagara,

Bangalore - 560079

dscprocessingunit@yahoo.com

Help Desk Contact Details:

Tel: 080-40482000/121/133/140

Mobile: 9686115304/9686115323

E-mail: lokesh.hr@antaressystes.com

raghuprashanth@antaressystems.com

- The Bid (Online Offer) for a particular e-Tender may be submitted only using the Digital Signature Certificate (DSC), which is used to Encrypt (codified) the data and sign the Hash (Impression of your data) during the stage of Bid Preparation and Hash submission. In case, during the process of a particular e-Tender, the user loses his Digital Certificate (i.e. due to virus attack, hardware problem, operating system problem), he may not be able to submit the bid online. Hence, the users are advised to keep their Digital Signature Certificates in safe custody.

- In case of online Electronic Tendering, if the Digital Certificate issued to the authorized user of a firm is used for signing and submitting an online bid, it will be considered equivalent to a no objection certificate/power of attorney to that User. The firm has to authorize a specific individual via an authorization certificate signed by all partners to use the Digital Certificate as per Indian Information Technology Act 2000 and its amendments. Unless the certificates are revoked, it will be assumed to represent adequate authority of the user to bid on behalf of Tenderer for NIA Office Pune, as per Information Technology Act 2000 and its amendments. The Digital Signature of this authorized user will be binding on the firm. It shall be the responsibility of management / partners of the registered firms to inform the certifying authority or Sub Certifying Authority; in case of change of authorized user and that a fresh digital certificate is procured and issued an “Authorization Certificate” for the new user. The procedure for application of a Digital Certificate will remain the same for the new user.

- The same procedure holds true for the authorized users in a private/Public limited company. In this case, the authorization certificate will have to be signed by the directors of the company.

- Tenderers participating in e-tendering shall check his/her validity of Digital Signature Certificate before bidding in the specific work floated online at the e-Tendering Portal (website) through <http://www.tenderwizard.com/NIA>.

NOTE:-

NIA AND TENDERWIZARD will not entertain any reasons / claims of Tenderer on account of Net Connection Failure / Power Connection Failure and any issues during the submission of tender online. Tenderer shall be solely responsible for all those facts and failure of Net Connectivity, Electricity Current Connectivity etc.

For Registration and for further details on e-tendering, please visit website above mentioned portal (website) or below mentioned address:-

E-Procurement Helpdesk Officials details.

Office Address:- E-Tender helpdesk, # 24, Sudha Complex, 03rd Stage, 04th block, Basaveshwaranagara, Bangalore-560079

Help Desk Contact Details: -

- 1) **Mr. Sanjay K. Chandak, (Pune & Mumbai Maharashtra) (E-mail : sanjay.kc@antaressystems.com) Or sanjay.kc@etenderwizard.com Ph: 9665721619 / 8800591739.**
- 2) **Mr. Lokesh, (E-mail: lokesh.hr@antaressystems.com) Ph: 09686115304 & 080-40482140**

3) Mr. Raghu Prashant, (E-mail:raghuprashanth@antaressystems.com)
Ph: 09686115323

4) Mr. Vinay B P (E mail: vinaybp@antaressystems.com)

SECTION 1: PRE-QUALIFICATION ELIGIBILITY CRITERIA

1. The Tenderer shall be an Individual / Sole Proprietor, a Partnership Firm or a Limited / Private Limited Company or Corporation or Society involved in the business of supply and installation of UPS systems.
2. The Tenderer should have a minimum experience of three years as on 31.03.2020. (Attach Proof)
3. The Tenderer should be a manufacturer of UPS systems / Authorized sales and service dealer of products of such OEM's. In case of Authorized Distributor/ Authorized Dealer, a Manufacturer's Authorization Letter must be submitted.
4. All firms participating in the bid should Registration Certificate and valid GST Registration Certificate. The documentary evidence towards Registration of Firm / GST registration certificate / Income Tax Registration / PAN number shall be provided to this effect.
5. The Tenderer should have an **Average** Annual Financial Turnover of Rs.50.00 Lakh (Rupees Fifty Lakh Only) on supply of UPS systems during last 3 (three) years. Tenderer should submit the Audited balance sheet along with Profit & Loss Account for the financial year 2016-17, 2017-18 and 2018-19.
6. The Tenderer should submit copies of Tender fee details and Earnest Money Deposit (EMD) details along with the bid. The tender fee and EMD should be uploaded on or before the last date of submission of tender.
7. The Tenderer should enclose and upload Tender acceptance letter (**Annexure A**) and general information of the Tenderer (**Annexure B**) along with the bid.
8. Uploaded Bids should accompany the filled and signed Tender Document.
9. Tenderer should submit Manufacturer's Authorization Form (MAF) from OEM (**Annexure C**) along with the bid.
10. The Tenderer should provide OEM's service centre details in Pune. Tenderer must define a single point of contact of OEM for support and service, related to all items covered in the tender. Contact details of the Tenderer's responsible person should also be submitted along with the bid.
11. The Tenderers should enclose documentary proof in support of satisfactory completion of five similar supplies (Supply, Installation and commissioning of UPS Systems - 20 KVA and above) in the form of separate orders, completion certificates preferably in Government Depts., PSUs and Central Autonomous bodies or IT Companies, executed during the last three years.
12. The Tenderer should enclose schedule of work including delivery dates and installation plan.
13. Documentary proof for technical compliance should be submitted as per the technical specifications for UPS system given in this tender (**Annexure D**). NIA reserves the right to verify, if it so desires, the correctness of documentary evidence furnished by the Tenderer.

14. The Tenderer's whose contracts have been terminated / foreclosed by any department / company / firm during the last 2 years due to non-fulfillment of contractual obligation are not eligible to bid. The bidder should provide a declaration to this effect in writing separately
15. Tenderer/s shall keep his / their offer valid for a period of at least 2 months (60 days) from the date of opening of the tender. If any Tenderer withdraws or amends impairs or derogates from the tender in any respect within the period of validity of his offer, the EMD is liable to be forfeited.
16. Before submission of the bid, the Tenderers must verify the pre-qualification eligibility criteria and ensure fulfilment of all the terms and conditions. In the absence of documents / certificates under pre-qualification eligibility criteria above, the bid is liable to be rejected.

SECTION 2:

GENERAL TERMS & CONDITIONS

1. A prospective Tenderer requiring any clarification on the tender document may submit his queries, in writing, at the mailing address and as per schedule. NIA may incorporate any changes in the tender document based on acceptable suggestions received. Prospective Tenderers are free to raise their queries and responses / corrigendum will be conveyed to all the prospective Tenderers (by way of hosting amendments / clarifications on the website i.e. at <http://www.tenderwizard.com/NIA> and no participant would be informed individually about the response of NIA. The decision of the NIA regarding acceptability of any suggestion shall be final and shall not be called upon to question under any circumstances. The Tenderers are advised to visit the aforementioned website on regular basis for checking necessary updates.
2. The bids prepared by the Tenderer and all correspondence and documents relating to the Bids exchanged by the Tenderer and NIA shall be written in English language. Any printed literature furnished by the Tenderer may be written in another language so long the same is accompanied by a duly attested English translation in which case, for purposes of interpretation of the Bid, the English translation shall govern.
3. The Tenderer / OEM shall provide the layout, manufacturer, model, material specifications, dimensions, brochures, photo catalogues of items quoted along with the bid, if available. Tenderer shall contact NIA for any clarification regarding the tender requirement.
4. The Tenderer shall visit the site for work before filling in his tender and get acquainted with all the information required before submitting the tender. No extra claim on account of any extra work required after submission of tender will be entertained.
5. **Bids without documents in support of the pre-qualification criteria given in Section 1 of this tender shall be summarily rejected.**
6. The Tenderer / OEM shall be responsible for deputing qualified personnel for installation, testing, commissioning and other services under his scope of work. All the required tools and tackles for completing the scope of work as per the specification is also the responsibility of the Tenderer.
7. During Technical evaluation, NIA may request the shortlisted Tenderers to make a presentation on their proposal to an Evaluation Committee to be constituted for the purpose at NIA, Pune. It is, however, clarified that, subject to other provisions of this document, every Tenderer will have to comply the minimum technical specifications laid down in the tender document for being qualified technically. In order to assist in the examination, evaluation and comparison of Bids, NIA may at its discretion ask the Tenderer for a clarification regarding its bid. The clarification shall be given in writing immediately, but no change in the price shall be sought, offered or permitted.
8. During Commercial evaluation, the commercial Bids of the technically qualified Tenderers will only be opened for further processing. The successful Tenderer is selected based on the total lowest price including taxes and freight charges and any other expenses.

9. Tenderer shall quote in Indian Rupees only. The rates quoted by the Tenderer shall be firm throughout the contract period and there shall be no upward revision of the rates quoted by the Tenderer for any reason what so ever.
10. GST payable should be shown separately. Total GST Amount shall be shown in GST amount column of BOQ. Otherwise quoted price will be treated as all inclusive. Input GST invoice shall be submitted at the time of delivery.
11. The validity of the quotation should be minimum 60 days from the bid opening date.
12. **Order Placements & Payments:**
The Chief Administrator
National Insurance Academy,
25, Balewadi, NIA P.O.,
Baner Road, Pune 411045
13. **Warranty & Maintenance Support:**
OEM should provide comprehensive on-site warranty for both the UPS for a period of two years.
14. **Delivery & Installation:** Delivery, Installation, Testing and Commissioning should be completed within 2 - 3 weeks from the date of purchase order. The Tenderer needs to take care of the documentary formalities and permissions required, if any, from any of the Government agencies / departments.
15. The Tenderer should integrate the solution with the existing systems at the NIA and carry out thorough system integration testing. System integration testing will be followed by user acceptance testing, plan for which has to be submitted by the Tenderer to the NIA. The User Acceptance Test shall include functional tests and operational tests etc. The product(s) are considered accepted (commissioned and operationalized) after signing the Acceptance Test document jointly by the NIA/Representative and the Tenderer/Representative.
16. The Tenderer / OEM shall, upon request, provide spare parts for the supplied UPS in a timely manner as well as provide access to qualified and trained service personnel to provide preventative maintenance and service on the UPS System as and when required.
17. Any charges towards packing, delivery and insurance would also be considered while computing total price.
18. **Payment Terms:**
 - a) No advance payment will be made.
 - b) Payment of the first 40% of the order value shall be made by NIA within 15 days of 100% of material delivery at the site in good condition and verification by NIA.
 - c) Another 50% payment and EMD amount shall be paid within 15 days after installation, testing & commissioning of products at the designated location and its acceptance by NIA. The Tenderer should also hand over the OEM warranty cards (both UPS and Batteries), Installation reports, UPS drawings and User Manuals to NIA officials before claiming for the second payment.
 - d) Balance 10% of value of the contract will be paid on completion of defects liability period of Two years from the date of Commissioning of the UPS Systems and put into regular use.

However, the same may be released if the Tenderer furnishes the bank guarantee for equivalent amount valid for 2 years with grace period of 6 months from the date of completion.

e) All payments are subject to statutory deductions, wherever applicable.

- 19 Liquidated Damages shall be levied @ 0.5% of the total order value, per week per part of the week or the delayed period subject to a maximum of 5% of the order value.
- 20 The purchase will be governed by International Trade Regulation and Import Export Policy of Government of India.
- 21 Force Majeure: NIA may consider relaxing the penalty and delivery requirements, as specified in this document, if and to the extent that, the delay in performance or other failure to perform its obligations under the contract is the result of an Force Majeure. Force Majeure is defined as an event of effect that cannot reasonably be anticipated such as acts of God (like earthquakes, floods, storms etc.), acts of states / state agencies, the direct and indirect consequences of wars (declared or undeclared), hostilities, national emergencies, civil commotion and strikes at successful Tenderer's premises or any other act beyond control of the Tenderer.
- 22 NIA reserves the right to accept / reject / select more than one Tenderer. And to annul the bidding process of any or all bids at any time prior to award of contract without thereby incurring any liability to the affected tenderers.
- 23 The Director, NIA, reserves all rights to reject any tender including of those tenderers who fail to comply with the instructions without assigning any reason what so ever and does not bind itself to accept the lowest or any specific tender. The decision of Director, NIA in this regard shall be final and binding on the tenderers. No claim or compensation will be entertained from any tenderer regarding rejection / non-acceptance of their tender.
- 24 In case of any dispute arising with regards to this tender or its conclusion, the decision of the Director NIA shall be final.
- 25 For the agencies located outside Pune, it is necessary for them to have service and maintenance setup at Pune. Information about this set up giving all particulars need to be furnished with the tender.

26 Scope of work:

To ensure uninterrupted and safe power supply to the Fair IT Park at NIA, two numbers 40 KVA TRUE ONLINE THREE PHASE UPS WITH BATTERY BACKUP in Standalone configuration which gives a battery backup of specified VAH are desired. Bids are invited for the design, engineering, supply, installation, testing and commissioning of two numbers of 40KVA, True on-line UPS with battery backup.

In case of failure of the UPS system, the corresponding load of that UPS shall be automatically passed on to the bypass (normal supply) through static bypass switch without any break. The UPS system has to operate in conjunction with the existing building electrical system and diesel generator to provide power conditioning, back-up power protection, and power distribution for the critical loads of Fair IT Park. Tenderers are advised to visit the site and get apprised about the existing conditions at the site. Submission of Bids shall be deemed to have been done after careful study and examination of the tender document with full understanding of its implications.

The scope of work includes supply, installation, commissioning and testing of 40 KVA UPS systems – 2 Nos of double conversion IGBT based UPS and related electrical works at NIA Pune, as per the technical specifications mentioned in this document.

The scope of the tenderer also includes:

- a) Delivery & storing of material at site and its installation including loading and unloading shall be the responsibility of bidder.
 - b) The equipment should be installed and commissioned as per the manufacturer's instructions and in conformity with the relevant codes, rules and regulations.
 - c) **Required size copper cabling between UPS and battery bank & also between input source of power supply and UPS and output of UPS to distribution MCB DB.**
 - d) Necessary accessories (bolts, nuts, cables etc.) required for successful installation and commissioning should be provided by the tenderer.
 - e) Should ensure connectivity to existing earthing system.
 - f) Working drawings and procedure for works should be approved by NIA representative.
 - g) Necessary training should be given to operate and manage the equipment.
 - h) Detailed Technical specification of UPS system described in **Annexure D**.
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SECTION 3: SERVICES TO BE DONE DURING DLP PERIOD & CAMC PERIOD

DLP PERIOD:

1. The defects liability period shall be 24 months reckoned from the date of Installation of UPS with Battery. It is responsibility of the successful tenderer to replace the batteries at free of cost to NIA in case of defects during the Defect liability period of 2 years.
2. During the defect liability period of 24 months the UPS shall be serviced by the Tenderer by deputing the service personnel once in every three months or earlier as directed by the NIA including attending to all break down calls at his cost and all necessary materials are to be provided for repair and replacement by the Tenderer at his cost. All the expenses towards Travelling, incidental charges, etc. incurred for deputing the personnel for carrying out the servicing/ breakdown calls are to be borne by the Tenderer

COMPREHENSIVE ANNUAL MAINTENANCE CONTRACT:

After the Guarantee period of 2 years, the Tenderer should carry out Comprehensive Annual Maintenance Contract for the systems supplied as per the rates mentioned in the price bid. The CAMC charges given shall be all inclusive comprehensive maintenance for UPS units including all taxes **but excluding batteries**. The normal terms & conditions for CAMC are as under:

The Comprehensive AMC will automatically commence from the date of expiry of defect liability period.

1. Quarterly services to be done for UPS. Any parts etc. to be replaced at free of cost to NIA.
2. In case of breakdown calls the Tenderer has to attend to it immediately within 24 hours on information over phone / writing by NIA.
3. The Tenderers should submit the bills along with service reports quarterly for Payment to Engineering Department of NIA.
4. In case of any defect in the machine the Tenderer must provide a standby unit until the original machine is repaired.
5. In case of requirement of batteries due to aging or for any reason, services of Tenderer are limited to replacement of batteries and required setting of charging voltage as per battery manufacturer. NIA has sole authority to determine purchase of batteries either from the Tenderer or from any other battery manufacturer or service dealer.
6. The Director, NIA, reserves the rights to cancel the contract at any point of time, if the services rendered are found un-satisfactory. Any breakdown call intimated orally over phone or in writing by the NIA should be attended immediately within 24 hours otherwise proportionate delay of amount may be deducted from your AMC Bill.

ANNEXURE A:

TENDER ACCEPTANCE LETTER
(To be uploaded on Company Letter Head with sign and seal)

To:

Date:

The Director
National Insurance Academy
25, Balewadi, Baner Road,
NIA P.O.
Pune – 411045

Sub: Acceptance of Terms & Conditions of Tender.

Name of Tender / Work: Supply, Installation, Testing and Commissioning of 2 Nos of 40 KVA True Online UPS with battery banks at NIA Pune.

Dear Sir,

1. I/We have downloaded / obtained the tender document(s) for the above mentioned 'Tender/Work' from the web site namely: <https://www.tenderwizard.com/NIA>, as given in the above mentioned website.
2. I/We hereby certify that I / We have read the entire terms and conditions of the tender documents (including all documents like annexure(s), schedules(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 / organization should also be 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 earnest money deposit absolutely.

Yours Faithfully,

Authorized Signatory.
(Signature of the Tenderer, with Official Seal)

ANNEXURE B:

GENERAL INFORMATION OF THE TENDERER
(To be uploaded on Company Letter Head with sign and seal)

INDIVIDUAL / FIRM / COMPANY PROFILE		
Sr. No.	Required Information (QUERY)	ANSWER
1	Name and registered address of the Individual/firm/company.	
2	Name, designation, and telephone nos. of the contact person / persons. Mobile Nos. Fax No. E-mail id	
3	Month and Year of commencement of service business in present name.	
4	(Photocopies of following documents to be Uploaded)	
	1. Registration number of the firm. (As per Shop and Establishment act.)	
	2. PAN No. and TIN No.	
	3. Goods and Service Tax No	
5	Name and complete postal address of bankers.	
	Name of Bank	
	Branch	
	Account No	
	Account Type	
	IFSC Code	
6	Additional Information if any.	

ANNEXURE C:

MANUFACTURER AUTHORISATION FORMAT

(To be uploaded on Manufacturer's Letter Head with Sign and Seal)

To:

Date:

The Director
National Insurance Academy
25, Balewadi, Baner Road,
NIA P.O.
Pune – 411045

Subject: Manufacturer authorization against Tender No: for Supply, Installation &
Commissioning of 2 Nos of True Online 40 KVA UPS with battery backup as per
Technical Specifications at NIA Pune.

Dear Sir,

We, M/s (Name of the manufacturer) having registered office at (address of the manufacturer-----
-----) hereby virtue of being manufacturer for (Name of the product/s -----), hereby
authorize M/s (Name of the Tenderer) having their office at (Address of Tenderer -----) to submit
quote, negotiate, supply, install and provide after sales support for our range of products quoted by
them to meet the above mentioned tender requirements at NIA, Pune.

M/s (Name of the manufacturer-----) within the scope of requirement as per the tender
mentioned above through its authorized partner M/s (Name of the Tenderer -----)
shall provide support & product warranty services for a minimum period of two years from the date
of acceptance of items.

The undersigned is authorized to issue such authorization on behalf of M/s (Name of the
Manufacturer-----).

For M/s (Name of the manufacturer)

Signature & Company Seal
Name
Designation
E-mail
Mobile

UPS SYSTEM TECHNICAL SPECIFICATION

1. GENERAL

1.1. SCOPE

The aim of this specification is to provide all the information required to choose the best technological and functional solution for the protection and safeguarding of the electric power supply provided by an UNINTERRUPTIBLE POWER SYSTEM (also designated as UPS) and its accessories.

1.2. DESCRIPTION OF THE EQUIPMENT

This specification states the requirements for the best technical-economic offer for the provision of the following:

2 Nos. X 40 KVA Uninterruptible Power Systems (UPS) of approved make with 40 KVA (36 kW) power*, complete with batteries.

The batteries to be installed in external cabinets, so as to ensure a minimum back-up time of 30 minutes at 36 KW with the characteristics defined in the “Batteries” section. Vendor to submit Battery Sizing Calculations in accordance with IEEE Standards.

Bidders are asked to submit their offers strictly complying with the content of this Specification, confirming that the technical features will be as required by the client and specifying any discrepancies.

Any changes and/or deviations to/from the specified features must be clearly indicated in the tender document; where no deviations are declared, it shall be assumed that all the technical characteristics listed herein are satisfied.

(*)Power

KVA	40
KW	36

2. STANDARDS

2.1. OVERVIEW

The construction of the equipment and choice of materials and components must comply with all the applicable Laws, Decrees, Directives and Standards in force.

Some of these Directives and Standards that may be taken as a minimum reference are listed below.

The UPS units must comply with the following standards:

2.2. ELECTROMAGNETIC COMPATIBILITY

EN50091-2 Electromagnetic compatibility
IEC 62040-2 Electromagnetic compatibility

2.3. SAFETY

- (EN) IEC60950-1 General and safety provisions for devices installed in operator-accessible areas
- (EN) IEC62040-1-1 General and safety provisions for UPS installed in operator-accessible areas
- EN 50272-2 Safety provisions for accumulator batteries and their installation
- (EN) IEC60896-1 Lead acid stationary accumulator batteries. General provisions and testing methods. Part1: Batteries of the vented type
- (EN) IEC60896-2 Lead acid stationary accumulator batteries. General provisions and testing methods. Part1: Batteries of the valve-regulated type
- (EN) IEC60529 Degree of protection of the enclosures
- ESD: IEC61000-4-2: level4 RS:
- IEC61000-4-3: level3 EFT:
- IEC61000-4-4: level4 SURGE:
- IEC61000-4-5: level4 CS:
- IEC61000-4-6: level3
- IEC 61000-2-2
- EN 62040-2
- EN 61000-3-2

2.4. TYPE AND PERFORMANCE

- (EN) IEC62040-3 Uninterruptible power systems (UPS). Methods of specifying the performance and test requirements

2.5. EN ISO 9001:2000 CERTIFICATION Quality Systems

The bidding company must be certified by a third-party authority, in accordance with the ISO 9001:2000 standard, for Quality Assurance in the following processes:

Design, Development, Production, Installation and Technical Support.

QMS: As per ISO 9001: 2008

EMS: As per ISO 14001: 2004

OSHAS: As per ISO 18001: 2007

UPS should be ROHS compliant

3. MANUFACTURING PROVISIONS

3.1. OVERVIEW

The aim of this specification is to define the minimum design, manufacture and testing requirements for the supply of a three-phase UPS unit of approved makes.

VFI (Voltage and Frequency Independent according to EN- IEC62040-3 classification) type UPS to ensure a filtered and stabilized output voltage to loads that is not dependent on the mains power supply and composed of:

Rectifier / DC-DC Converter with Input Power Factor Control (PFC) (power factor in input > 0.97),

Battery charger,

Inverter using IGBTs as driven power devices operating in pulse width modulation (PWM) and an output filter and regulation by means of a digital signal processor (DSP),

Built-in automatic by-pass,

**Built-in manual by-pass,
Batteries and battery cabinet**

3.2. BATTERIES

The stationary accumulator battery shall consist of 12V valve-regulated lead acid (VRLA) blocks.

Batteries shall be housed in one or more external cabinets with overload and short circuit protection included within Battery cabinet.

The battery shall ensure generation of the UPS's active rated power in the event of the total failure of both the mains power supply and the emergency mains, guaranteeing at least 30 minutes back-up for 36 KW Load. Vendor to submit Battery Sizing Calculations in accordance with IEEE Standards.

The UPS shall be able to automatically perform tests on the batteries to check their efficiency. The test shall generate an alarm if any faults are detected. It shall also be possible, if certain conditions are satisfied (battery charged, mains present...) to perform this test manually, independently of automatic scheduling.

3.3. MIMIC PANEL

The mimic panel shall be designed and manufactured as specified below. It shall consist of at least the following components:

An LCD alphanumeric display where states, alarms and measurements shall be displayed. The measurements log shall be available for preventive and corrective maintenance operations.

A schematic representing the various parts of the UPS. The schematic lights up to represent the power flow from the UPS to the load.

A luminous bar that simply and instantly indicates the power supply conditions of the load (normal, transitory and risk of loss of continuous power).

For the purpose of preventive or corrective maintenance operations, it shall be possible to store up to 2000 events in a circular buffer, such as:

Alarm conditions, changes in operating status and the commands executed by the equipment with the relative time reference (date-time) stored in a circular buffer

A set of buttons that can be used to scroll the menu, with the following functions:

- ESC button
- UP button
- DOWN button
- ENTER/OK button

3.4. COMMUNICATION

At least one configurable RS232/RS485 serial interface shall be available with JBUS/MODBUS protocol for communication with the server or with Building Management Systems (BMS).

4. OPERATING MODES

It shall be possible to select any one of the following operating modes:

- "On Line" mode
- Eco Mode"

4.1. “ON LINE” MODE

The UPS is configured as VFI (Voltage and Frequency Independent according to EN-IEC62040-3 classification) type in order to ensure a filtered and stabilised output voltage to loads that is not dependent on the mains power supply

4.2. HIGH EFFICIENCY MODE: “ECO MODE”

The UPS shall have an "economy" operating mode that can be selected and programmed in order to increase overall efficiency for energy saving purposes. The loads shall be powered by the mains supply through the static by-pass. It shall also be possible to select and programme specific daily or weekly time intervals when the loads will be powered directly from the emergency mains supply.

5. SYSTEM CONFIGURATION

5.1. PARALLEL

The system submitted shall allow for a subsequent increase in power obtained by connecting another unit of the same type in parallel configuration. The units connected in parallel shall share the output currents equally between them (load sharing).

Parallel operation can also be used in redundancy mode; this ensures that should one of the units connected in parallel fail, the load will continue to be powered by the remaining parallel units (selective disconnection).

ANNEXURE D:

UPS SYSTEM TECHNICAL SPECIFICATION / COMPLIANCE STATEMENT

(To be uploaded on Company Letter Head with sign and seal)

I. Two Nos of 40 KVA UPS System with 30 Minutes backup each			
S. N.	SPECIFICATIONS	REQUIREMENT	COMPLIANCE (YES / NO). IF NO, SPECIFY
1	UPS Capacity	40KVA / 36KW, 3-Phase Input / 3-Phase Output, 50 C/S.	
	UPS Configuration	Standalone – 2 Nos.	
2	Make	Vertiv (Emerson) / Schneider (APC) / ABB / Socomec	
3	Model Name & Number	Model No to be specified by the Tenderer.	
4	Technology and Capability	a) True Online configuration with double conversion UPS	
		b) Fully rated power (36 KW) for maximum power availability.	
		c) Possibility of enhancing UPS capacity / redundancy by operating UPS in Parallel Redundant Configuration (PRS).	
		d) Capability of Independent or Common battery bank operation of the UPS when operated in PRS.	
		e) UPS should be designed at Rated PF of 0.9 i.e. 40KVA/36KW UPS rating.	
		f) UPS should have IGBT topology for both PFC (power factor correction) rectifier and PWM inverter.	
5	Input		
	Input facility - Phases / Wires	3-Phase / 4-Wire & Gnd (3 Phase & Neutral + Ground)	
	Input Voltage Range	Range (Full Load) 173 ~ 276 / 304 ~ 477VAC	
	Input Frequency Range	50/60 Hz (45 to 65 Hz)	
	Input Power Factor	> 0.99 (Full Resistive Load)	
	Input Current Harmonic Distortion(ITHD)	< 4% on Full Load (with input voltage THD less than 1%)	

	Generator Compatibility	Compatibility to Gen-set supply required	
	Input Protection	Should be provided at the input of the UPS suitable for the full rated capacity of the UPS (For both Input to Rectifier and Input to Bypass)	
6	Output		
	Nominal Output voltage	380V, 400V, 415V (3Φ4W) - selectable	
	Output Voltage Regulation	± 1.5 %	
	Nominal Output Frequency	50 Hz	
	Output Frequency Regulation	± 0.05Hz for free running mode	
	Output Frequency Slew Rate	<1Hz/sec	
	Output Wave Form	Pure Sine Wave	
	Output Voltage Distortion (THDu)	< 3% for linear full load < 5.5% for non-linear full load	
	Crest Factor	3:1	
	Output Short circuit Protection	Electronic Protection	
		In-built 3P MCCB protection should be provided	
	Unbalanced condition at the output	100% unbalanced load	
		±2% Voltage symmetry with 100% Unbalanced Load	
		120° ± 2° displacement angle for 100% balanced Load	
	Output Power Factor	0.9	
7	Transient Response / Recovery		
	Transient Response: Dynamic Regulation for 10% to 90% step linear load	±7%	
	Transient Recovery to steady state condition after 10% to 90% step linear load	< 2 cycles	
8	Transfer Time		
	Transfer Time (Mode of operation)	Zero ms from Mains mode to Battery Mode, Zero ms from Battery Mode to Mains mode	
	Transfer Time (Inverter to Bypass / Bypass to Inverter)	<1ms for Synchronized Mode < half cycle for asynchronous mode	
	Automatic & Bi-directional static by-pass (In-built)	Bypass To Inverter ±10 % (Rated Voltage) Inverter To Bypass ±7 % (Rated Voltage)	

	Maintenance Bypass	UPS should have option for manual maintenance bypass	
	Static Switch	Bypass path and Output path Static Switch for transferring the load to the input source during clearing overloads that exceeds the capability of power electronics. Special Hybrid bypass transfer switch is to be used (Make before brake technology)	
9	Efficiency (At Nominal Voltage & Resistive Load up to KW rating of UPS)		
	Overall Efficiency (AC to AC) Online (Double Conversion)	Up to 95%	
	Overall Efficiency (AC to AC) ECO Mode (Bypass feeding the load under normal conditions)	Up to 99%	
10	Inverter Overload capacity	≤105 %: continuous	
		125% for 10 min	
		150% for 1 min	
11	Display Panel (In-build LC Display & LED)		
	Measurements (On LCD)	AC Voltage: Input / Output	
		AC Current: Input / Output	
		Frequency: Input / Output	
		DC Battery Voltage	
		DC Charging / Discharging Current	
		Battery: Remaining time / Battery Level Indicator,	
		Load: Percentage / Load Level Indicator,	
		System Date/Time Setting, Current Time,	
		KVA,	
		KW	
	Fault Indications (On LCD)	Mains ON with phase indication for single phase / three phase separately for all the three phases	
		Main Input Sequence Fault,	
		Charger ON / FAULTY / or TRIP (Reason)	
		Inverter ON / OFF / FAULTY / or TRIP (Reason)	
		Battery Low	

		Battery High													
		Static by-pass ON													
		Over Temperature													
12	Alarms														
	Audible Alarms	Mains Fail beep / Battery Low beep / DC Fault beep / UPS Overload beep / o/p short ckt. fault beep / Shutdown beep													
13	Battery Backup / Battery Bank & Charger														
	Battery Bank Voltage	To be specified by the Tenderer													
	No. of Batteries and each Voltage	To be specified by the Tenderer													
	Ampere Hour Capacity of each Battery	To be specified by the Tenderer. The minimum backup time shall be 1/2 hr at full load for 40 KVA (40 KVA UPS should have minimum 46800VAH) End cell voltage for cut off shall be considered as 1.75/cell													
	Battery Bank VAH	<ul style="list-style-type: none"> ▪ Minimum VAH should be minimum 46800. ▪ Capacity for SMF batteries for the tender shall be calculated in VAH as per the below formula. (Enclose calculations in separate sheet) ▪ $D.C. \text{ Current} = \frac{\text{UPS KVA} \times 1000 \times (\text{Power factor} = 0.9)}{\text{Inverter Efficiency} \times \text{End Voltage}}$ ▪ (Inverter efficiency taken shall match the tested value) ▪ Capacity of battery (AH) = D.C. Current x Duration in Hrs./ % Capacity utilization. ▪ $VAH = AH \times \text{Nominal voltage.}$ <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Duration %</th> <th>Capacity Utilisation</th> </tr> </thead> <tbody> <tr> <td>½ (30 Min.)</td> <td>52 %</td> </tr> <tr> <td>1 hr.</td> <td>62 %</td> </tr> <tr> <td>2 hr.</td> <td>74 %</td> </tr> <tr> <td>3 hr</td> <td>83 %</td> </tr> <tr> <td>4 hr.</td> <td>85 %</td> </tr> </tbody> </table> <ul style="list-style-type: none"> ▪ End voltage may be taken either as 1.75 V i.e. for one cell, or 	Duration %	Capacity Utilisation	½ (30 Min.)	52 %	1 hr.	62 %	2 hr.	74 %	3 hr	83 %	4 hr.	85 %	
Duration %	Capacity Utilisation														
½ (30 Min.)	52 %														
1 hr.	62 %														
2 hr.	74 %														
3 hr	83 %														
4 hr.	85 %														

		<ul style="list-style-type: none"> ▪ 10.5 V (one battery with 6 cells). ▪ Accordingly, the nominal voltage shall be 2 V (for one cell) or 12 V (for one battery with 6 cells) respectively. ▪ The VAH figures in either case shall be the same. ▪ The tendered battery set shall have minimum 46800VAH or higher. 	
Batteries Type		Sealed Maintenance Free (VRLA) - 12V Battery. Detailed literature of batteries to be uploaded.	
Battery Makes		Amara Raja (Preferable) / Exide / Rocket	
Minimum Charger Rating (Including internal / external)		The charger should be able to deliver charging current equivalent to 10% of Battery Ah rating offered.	
Charger type / Charging Method & Charging Voltages		Constant Voltage Constant Current Solid state SMPS charger	
Battery recharge time (After complete discharge) to 90% capacity		10-12 hours	
Battery Housing (Tenderer to provide the GA drawings of the offered Battery Rack)		Should be compact and space saving M.S. steel open rack complete with Interconnectors with earth terminals.	
Battery End Cell Voltage		1.75 V/cell	
Battery protection		With proper MCCB	
14	Interfaces		
	Serial Communication RS232 Port (Option of USB Port should be available)	RS232 Port should be provided as standard in the UPS. However there should be provision for USB port also in the UPS.	
	REPO (Remote Emergency Power OFF) / ROO (Remote ON - OFF) Port	Provide both onsite & remote EPO to shutdown UPS when emergency situation happens. REPO Port with a user-supplied switch	
	Interface to NMS (Network Management System)	SNMP (IPV6) Card for connecting the UPS to LAN thru Ethernet port & monitoring thru NMS should be available	

	UPS status information presented as 3 contact closures	UPS should have configurable input signal as shutdown UPS or battery test dry contact.	
15	Restart / Testing Capability		
	Cold Start	UPS should start up On AC Supply (Mains) without DC Supply (Batteries) On DC Supply (Batteries) without AC Supply (Mains)	
	Automatic Restart	UPS should start up automatically on mains resumption after battery low shutdown	
	Self-Diagnosis	UPS should be capable to carry out self-test of Rectifier / Charger / Battery & Inverter module during start-up	
16	Physical		
	Operating Temperature	0°C ~ 40°C	
	Storage Temperature	-20°C ~ 40°C	
	Operating Humidity	< 95%	
	Operating Altitude	0 to 1500 Metre	
	Type of Cooling	Forced Air	
	Noise Level	< 65dBA at 1 Meter	
	Air Filters	UPS should have internal anticorrosion air filters for dust filtration	
	Dimension (w x d x h) in mm	To be furnished by the Tenderer	
	Weight - in kg	To be furnished by the Tenderer	
	Reliability	MTBF greater than 100000 hours (Mean Time Between Failure)	
	Packaging Material / Vibration Withstand & Drop Test	Recyclable (No CFC) & 1. Vibration testing as per ISTA - 1G Non-operational with Packing	
	Standard Package of UPS to include the following minimum accessories	1.SMART Slot 2.Parallel Port 3.RS232 Port 4.REPO Port 5.Input Dry Contact 6.Output Dry Contact 7.USB Port	
	Parallel Configuration	UPS should have capability for parallel configuration.	
DC bus Capacitor	UPS DC bus capacitor have minimum life of 5 years @ 40° ambient.		

17	Warranty & Service		
	UPS	Two year OEM onsite warranty	
	Battery	Two year OEM replacement warranty	
18	Buyback of existing UPS		
	UPS Capacity	Magnaflux make 30 KVA x 2 Nos (2004)	
	Batteries	Exide, 12V, 42Ah SMF Type – 38 Nos. (2017) (Single Set only)	
	Battery Rack	2 Racks for 42Ah, 38 Nos of batteries.	
19	Testing of UPS	The tenderer shall have facilities to carry out tests at factory / center, and tests will have to be satisfactorily carried out & certified for the UPS. Non-Compliance to tendered specifications during testing shall liable the system for rejection.	
	OEM's Test Report	Tenderer has to necessarily submit the OEM's Test Reports of the supplied UPS systems indicating Make, Model and Serial Number of UPS, complying the Tender Specifications and observed values during Testing towards compliance.	
	Interface Facility	The UPS System has necessary hardware and software with RS 232 port to work on Windows or any OS specified by NIA. Remote Manageability through SNMP Facility.	
	SNMP Web Monitoring and software compatibility.	The Ethernet Web/SNMP Adaptor should allow one or more network management systems (NMS) to monitor and manage the UPS in TCP/IP network environments. The management information base (MIB) should be provided.	

COMMERCIAL BID

NOTE: Below Commercial bid is for reference purpose only. The same commercial bid is available in Excel format on NIA e-Procurement Site, Vendors need to login and down load the excel sheet and filled excel sheet should be uploaded online.

NAME OF THE TENDERER (Mandatory):				
Sr. No.	Description	Quantity	Unit Rate	Total Amount
PART A				
01	Supply, Installation, Testing & Commissioning of 40 KVA (Three phase input and Three phase output) Online UPS System with IGBT based PFC Rectifier, IGBT based Inverter with input voltage 415V, 50 Hz, suitable for Input Voltage Variation – 300V to 477 VAC and Frequency Variation - +/- 10%) to give Three Phase Output Voltage – 380/400/415 V AC with regulation of +/- 1.5% with 30 minutes backup as described in the tender documents and specifications, Required size copper cabling between UPS and battery bank & also between input source of power supply and UPS and output of UPS to distribution MCB DB should also be supplied complete as required.	2 Sets		
02	Supply, Installation, Testing and Commissioning of Battery Banks comprising of Valve Regulated Lead Acid Sealed Maintenance Free batteries of minimum 5 years design life to provide 30 minutes backup at full load at 0.9 PF and 1.75 ECV for 40 KVA UPS. The batteries shall be installed on shelves of rack for quick replacement and servicing. The bank of batteries shall comprise of required numbers of batteries connected in series. Suitable size Flexible single core copper cables for interconnections between UPS to battery bank and copper links for batteries, MCCB having I thermal, I magnetic and automatic U/V trip mechanics for battery bank etc. Complete as required. Tenderer to provide complete details of make of Batteries, ampere hour ratings, no. of Batteries, Expected life, Final discharge voltage, Nominal float voltage, Battery recharge time & configuration of back up time, Battery Sizing Calculations. etc.	2 Sets		

03	Basic Price of 2 Sets of UPS			
	GST % and Amount			
	Total Amount			
04	Basic Price of 2 Sets of Battery Banks			
	GST % and Amount			
	Total Amount			
05	Total of 03 and 04 above			
06	Buyback price of NIA's old 30 KVA UPS Systems. – 2 Nos			
	HSN Code for Sale of UPS (Scrap)			
	GST Applicable			
	Total Buyback Price of UPS			(-)
07	Buyback price of 38 Nos. of old Exide 12V, 42 Ah batteries.			
	HSN Code for Sale of Batteries (Scrap)			
	GST applicable			
	Total Buyback Price of Batteries			(-)
08	Net Total Amount of PART A (05 – (06+07))			
PART B				
01	Comprehensive Annual Maintenance Contract Charges after Warranty Period of 2 years for each set of 40 KVA UPS systems which should include for attending break down calls, repairs, replacement of all spares if any required for UPS System. In case Batteries needs to be replaced, the Batteries will be supplied by NIA and necessary removing and refixing of Batteries and connections are to be included in the Comprehensive AMC charges. During the Comprehensive AMC period servicing to be carried out once in 3 months and the charges for this to be included in Comprehensive AMC. The break down calls shall be attended within 24 hours of intimation.			
	1st Year CAMC Rate			
	2nd Year CAMC Rate			
	3rd Year CAMC Rate			
	Total of 1st , 2nd and 3rd year AMC			
	Applicable GST	%		
	Total Amount of PART B			
	GRAND TOTAL FOR PART `A` + PART `B`			