

**GOVERNMENT OF INDIA  
DEPARTMENT OF SPACE  
ISRO TELEMETRY TRACKING & COMMAND NETWORK (ISTRAC)  
BANGALORE**

**Tender for SITC of 2x120KVA UPS for new 18mtr facility**

**Bids to be submitted online**

**Tender No.: ISTRAC/ISTRAC PURCHASE/TR202100021401 dated 24-09-2021**

## A. Tender Details

Tender No :	<b>ISTRAC/ISTRAC PURCHASE/TR202100021401</b>
Tender Date :	<b>24-09-2021</b>
Tender Classification:	<b>GOODS</b>
Purchase Entity :	<b>ISTRAC PURCHASE</b>
Centre :	<b>ISRO TELEMETRY TRACKING &amp; COMMAND NETWORK (ISTRAC)</b>

### **Procurement of SITC of 2x120KVA UPS for new 18mtr facility at IDSN, Byalalu, Bangalore.**

1) This is a Two Part Tender. Please submit your Offers separately for Technical and Price Bid under relevant Template. Please upload Price Bid under Price Bid only and no where else. If price is mentioned any where other than Price Bid, your offer will not be considered.

2) Vendor shall provide compliance to Vendor Specified Terms as applicable for Supply and CAMC.

#### **A.1 Tender Schedule**

Bid Submission Start Date :	<b>27-09-2021 10:00</b>
Bid Clarification Due Date :	<b>01-11-2021 17:00</b>
Bid Submission Due Date :	<b>08-11-2021 17:00</b>
Bid Opening Date :	<b>09-11-2021 09:00</b>
Price Bid Opening Date :	<b>22-11-2021 09:00</b>

## **B. Tender Attachments**

### **Technical Write-up/Drawings**

**Document : ANNEXURE-A**

**Document : ANNEXURE-B**

**Document : List of approved makes for Electrical works**

### **Instructions To Vendors**

#### **4. INSTRUCTIONS TO TENDERERS FOR ONLINE SUBMISSION OF TENDERS THROUGH E-PROCUREMENT SYSTEM**

1. Conditions for online submission of tenders:

- a) It is mandatory for interested parties to register as vendors in our e-procurement portal <https://eproc.vssc.gov.in/home.html> for participating in online eProcurement process of ISRO. Only registered vendors can submit their offers online in our eProcurement portal.
- b) Vendors who are already registered in the existing EGPS software of ISRO, please register by clicking the link in the email you would have already received from 'eproc@vssc.gov.in'. After registration, do the profile update by login to this portal.
- c) For new vendors, who are not registered in the existing EGPS software, vendor registration will be released along with the portal release. To register as vendors please refer to the help demos listed on the home page of the e-procurement link mentioned above. They may approach help desk (contact details provided on the home page) for any technical help for registration and subsequent process.
- d) OEM details should be added in your E-Procurement profile under Add Agent/Principal without fail.

2. a) Bidders shall arrange themselves all resources, including Digital signature certificates and Internet Connections at their own cost, for participating in online tendering.

b) Vendors can download the tender details and submit their offers online using their vendor accounts (obtained during registration) in our portal. Help demos for tender download and bidding processes are given on home page.

c) The tender should be submitted online in the ISTRAC link before the due date and time as specified in the tender schedule in the portal.

d) Vendors shall also take note of other Instructions to tenderers indicated in the tender documents.

3. Procedure for seeking clarifications/help for the tender:

a) All enquiries regarding the tenders and submission of offers shall be online and only through our eProcurement portal.

b) Vendors may approach help desk e-mail id and phone number given on the home page for any technical help (e-mail: eproc@vssc.gov.in and Phone: +91471 2565454/4574/2527/3753/3289).

4. ISTRAC shall not be responsible for failure of vendors in submitting bids online caused due to technical reasons at vendor end such as network or power failures, computer failure, internet-browser, mistakes / errors in filling the bids on line by vendor etc.

5. Queries by vendors on technical problems on the last day of tender will not be binding on ISTRAC/ISRO for resolving/addressing. ISTRAC will not be responsible for non-submission of bids for those cases.

## **5. PROFORMA FOR INSTRUCTIONS TO TENDERERS AND TERMS & CONDITIONS OF TENDER**

1. PRICES: Tender offering firm prices will be preferred. Where a price variation clause is insisted upon by a tenderer, quotation with a reasonable ceiling should be submitted. Such offers should invariably be supported by the base price taken into account at the time of tendering and also the formula for any such variation/s.

2. a) Your offer should be valid for 120 days from the date of opening of the tender. b) Prices are required to be quoted according to the units indicated in the annexed tender form. When quotations are given in terms of units other than those specified in the tender form, relationship between the two sets of units must be furnished.

3. The term Purchase Order shall mean the communication signed on behalf of the Purchaser by an Officer duly authorised intimating the acceptance on behalf of the Purchaser on the terms and conditions mentioned or referred to in the said communication accepting the tender or offer of the Contractor for supply of stores or plant, machinery or equipment or part thereof.

4. Please provide your compliance for Security Deposit, Performance Bank Guarantee and Liquidated Damages Clause.

5. CUSTOMS DUTY : This office is eligible for Concessional Customs Duty @ 5.5% against Ministry of Finance, Department of Revenue, Government of India, vide Customs Notification No.51/96-Cus Dated 23-07-1996 (Sl.No.1) and amended under Notification No.93/96 dated 11th December 1996 and 24/2002 dated 01-03-2002

6. GST : This office is eligible for Concessional GST @ 5% against Ministry of Finance, Department of Revenue Notification No. 45/2017, Central Tax (Rate) and No. 47/2017, Integrated Tax (Rate) dated 14-11-2017.

7. It is to be noted that either Customs Duty or GST is applicable ( any one)

8. If the IGST is applicable, the same will be reimbursed if it is reflected in Bill Of Entry. Proof shall be provided while claiming payment.

9. SECURITY DEPOSIT: Wherever, the Purchase Order value is Rs. 5.00 Lakhs or more, on acceptance of the tender, the Contractor shall, at the option of the Purchaser and within the period specified by him, deposit with him, in cash or in any other form as the Purchaser may determine, security deposit not exceeding ten percent of the value of the Contract as the Purchaser shall specify. If the Contractor is called upon by the Purchaser to deposit, 'Security' and the Contractor fails to provide the security within the period specified, such failure shall constitute a breach of the Contract, and the Purchaser shall be entitled to make other arrangements for the re-purchase of the stores Contracted at the risk of the Contractor in terms of Sub-Clause (ii) and (iii) of clause regarding Delivery. (b) hereof and/or to recover from the Contractor, damages arising from such cancellation.

10. Sales Tax and/or other duties/levies legally leviable and intended to be claimed should be mentioned in the price bid template. If nothing is mentioned, then it will be presumed that the rate quoted is inclusive of all taxes/duties.

#### 11. TERMS & CONDITIONS OF TENDER

12. TEST CERTIFICATE: Wherever required, test certificates should be sent along with the despatch documents.

13. The Purchaser reserves the right to place order on the successful tenderer for additional quantity up to 25% of the quantity offered by them at the rates quoted.

14. The authority of the person signing the tender, if called for, should be produced.

15. The purchaser shall be under no obligation to accept the lowest or any tender and reserves the right of acceptance of the whole or any part of the tender or portions of the quantity offered and the tenderers shall supply the same at the rates quoted.

16. a) All available technical literature, catalogues and other data in support of the specifications and details of the items should be furnished along with the offer.

(b) Samples, if called for, should be submitted free of all charges by the tenderer and the Purchaser shall not be responsible for any loss or damage thereof due to any reason whatsoever. In the event of nonacceptance of tender, the tenderer will have to remove the samples at his own expense.

(c) Approximate net and gross weight of the items offered shall be indicated in your offer. If dimensional details are available the same should also be indicated in your offer.

(d) Specifications: Stores offered should strictly confirm to our specifications. Deviations, if any, should be clearly indicated by the tenderer in his quotation. The tenderer should also indicate the Make/Type number of the stores offered and provide catalogues, technical literature and samples, wherever

necessary, along with the quotations. Test Certificates, wherever necessary, should be forwarded along with supplies. Wherever options have been called for in our specifications, the tenderer should address all such options. Wherever specifically mentioned by us, the tenderer could suggest changes to specifications with appropriate response for the same.

17. The tenderer should supply along with his tender, the name of his bankers as well as the latest Income-Tax clearance certificate duly countersigned by the Income-Tax Officer of the Circle concerned under the seal of his office, if required by the Purchaser.

18. The term Contractor shall mean, the person, firm or company with whom or with which the order for the supply of Stores is placed and shall be deemed to include the Contractor's successors, representative, heirs, executors and administrators unless excluded by the Contract.

19. The term Purchaser shall mean the President of India or his successors or assigns.

20. The term "Stores" shall mean what the Contractor agrees to supply under the Contract as specified in the Purchase Order including erection of plants & machinery and subsequent testing, should such a condition is included in the Purchase Order.

21. ACCEPTANCE OF STORES: (a) The stores shall be tendered by the Contractor for inspection at such places as may be specified by the purchaser at the Contractor's own risk, expense and cost. (b) It is expressly agreed that the acceptance of the stores Contracted for, is subject to final approval by the purchaser, whose decision shall be final. (c) If, in the opinion of the purchaser, all or any of the stores do not meet the performance or quality requirements specified in the Purchase Order, they may be either rejected or accepted at a price to be fixed by the purchaser and his decision as to rejection and the prices to be fixed shall be final and binding on the Contractor. (d) If the whole or any part of the stores supplied are rejected in accordance with Clause No. (c) above, the purchaser shall be at liberty, with or without notice to the Contractor, to purchase in the open market at the expense of the Contractor stores meeting the necessary performance and quality Contracted for in place of those rejected, provided that either the purchase, or the agreement to purchase, from another supplier is made within six months from the date of rejection of the stores as aforesaid.

22. REJECTED STORES: Rejected stores will remain at destination at the Contractor's risk and responsibility. If instructions for their disposal are not received from the Contractor within a period of 14 days from the date of receipt of the advice of rejection, the purchaser or his representative has, at his discretion, the right to scrap or sell or consign the rejected stores to Contractor's address at the Contractor's entire risk and expense, freight being payable by the Contractor at actuals.

23. As a Government of India Department, this office is exempted from payment of Octroi and similar local levies. Tenderers shall ensure that necessary Exemption Certificates are obtained by them from the Purchase Officer concerned to avoid any payment of such levies.

24. **DESPATCH:** The Contractor is responsible for obtaining a clear receipt from the Transport Authorities specifying the goods despatched. The consignment should be despatched with clear Railway Receipt/Lorry Receipt. If sent in any other mode, it shall be at the risk of the Contractor. Purchaser will take no responsibility for short deliveries or wrong supply of goods when the same are booked on 'said to contain' basis. Purchaser shall pay for only such stores as are actually received by them in accordance with the Contract.

25. **PACKING FORWARDING & INSURANCE:** The Contractor will be held responsible for the stores being sufficiently and properly packed for transport by rail, road, sea or air to withstand transit hazards and ensure safe arrival at the destination. The packing and marking of packages shall be done by and at the expense of the Contractor. The purchaser will not pay separately for transit insurance, all risks in transit being exclusively of the Contractor and the Purchaser shall pay only for such stores as are actually received in good condition in accordance with the Contract.

26. **GUARANTEE & REPLACEMENT:** (a) The Contractor shall guarantee that the stores supplied shall comply fully with the specifications laid down, for material, workmanship and performance. (b) Warranty shall be for the period mentioned in the tender document. After the acceptance of the stores, if any defects are discovered therein or any defects therein found to have developed under proper use, arising from faulty stores design or workmanship, the Contractor shall remedy such defects at his own cost provided he is called upon to do so within the warranty period, by the purchaser who shall state in writing in what respect the stores or any part thereof are faulty. (c) If, in the opinion of the purchaser, it becomes necessary to replace or renew any defective stores such replacement or renewal shall be made by the Contractor free of all costs to the purchaser, provided the notice informing the Contractor of the defect is given by the purchaser in this regard within the said period of warranty from the date of acceptance thereof. (d) Should the Contractor fail to rectify the defects, the purchaser shall have the right to reject or repair or replace at the cost of the Contractor the whole or any portion of the defective stores. (e) The decision of the Purchaser notwithstanding any prior approval or acceptance or inspection thereof on behalf of the Purchaser, as to whether or not the Stores supplied by the Contractor are defective or any defect has developed within the said period of warranty or any other period or as to whether the nature of defects requires renewal or replacement, shall be final, conclusive and binding on the Contractor. (f) To fulfill guarantee conditions outlined in (a) to (e) above, the Contractor shall, at the option of the Purchaser, furnish a Bank Guarantee (as prescribed by the Purchaser)

27. **SETTLEMENT OF DISPUTES :** Except as otherwise specifically provided in the contract, all disputes concerning question of fact arising under the Contract shall be decided by the Purchaser subject to a written appeal by the Contractor to the Purchaser whose decision shall be final to the parties hereto. Any disputes or differences including those considered as such by only one of the parties arising out of or in connection with the Contract shall be, to the extent possible, settled amicably between the parties. If amicable settlement cannot be reached, then all disputes shall be settled by arbitration.

28. **ARBITRATION** : All disputes, differences, claims and demands arising under or pursuant to or touching this agreement shall be referred to Arbitration of a sole Arbitrator to be appointed by the Director, ISTRAC, whose decision/award will be final and binding on both the parties. Such arbitration shall be held in Bangalore and shall be subject to and governed by the provisions of the Arbitration and Conciliation Act of 1996 or any statutory modification or re-enactment thereof. The language to be used in Arbitration is English only.

29. **JURISDICTION** : The contract/ purchase order shall be governed by an interpreted and construed in accordance with the laws of India. The courts situated at Bangalore only shall have jurisdiction to deal with and decide any legal matter or dispute arising out of contract/ purchase order.

## **6. GENERAL TERMS AND CONDITIONS FOR CAMC**

1. Adequate number of mechanics and supervisors should be engaged, with proper materials, tools/plants for satisfactory operations and execution of the contract.

2. The supply of the materials and implements required for the work connected with the execution of the contract will be the responsibility of the contractor.

3. In case the contractor fails to carry out the works to the satisfaction of Department and if there is any disruption in the smooth functioning of the activities, Department reserves the right to make alternate arrangements for execution of work at the risk and cost of the contractor.

4. The contractor shall duly comply with all the requirements of the labour laws, viz., minimum wages act, wherever it is applicable, contract labour (Regulation and Abolition) Act, Workmen's Compensation Act, Provident Fund Act and rules made thereunder, Employees State Insurance Act and other acts as applicable from time to time and shall keep Department fully indemnified and harmless against any action or proceedings, costs or claims, loss or any liability arising due to this contract at the instance of the labourer employed by the contractor, or if authorities under the respective acts and against breach of any of the provisions of the above said acts.

5. The contractors are wholly responsible for any accident and compensation payable to the personnel employed by them and working under their control. They should keep department fully indemnified against any claim in this regard.

6. The decision of ISTRAC shall be the final with regard to satisfactory maintenance of the contract and is binding on the contractor.



7. The Department shall be at liberty to recover Income Tax at source as applicable.
8. The contractor shall engage labourers who have completed 18 years of age only and they shall be physically fit and should not be suffering from any communicable diseases. Contractor shall be responsible for covering the risks of labourers and other technical personnel deputed for the servicing work at our premises.
9. The Department reserves the right to ask the contractor to dispense with the services of any labourer who is reported to be of doubtful integrity/unwholesome behaviour.
10. It shall be the sole responsibility of the contractor to settle disputes, if any, arising out of the employment between himself and the labourers engaged by him and the Department will not in any way be responsible in the event the labourers approach the competent authority under the act or the court. The entire expenses in this behalf shall be borne by the contractor.
11. The workmen employed by the contractor in our premises will have to strictly adhere to the discipline of the Department. Wherever necessary you will have to furnish your men with safety appliances and ISTRAC will not be responsible for accidents or injuries caused to your men during the course of work.
12. The contractor or his responsible representatives should be available in the premises to control his workmen and take down instructions from and carry out the servicing to the entire satisfaction of the Department.
13. The contractor shall make his own arrangements for safeguarding his material and the Department will not be responsible for any loss.
14. The contractor should arrange the work in the time stipulated, subject to security checks and restrictions of the Department. Contractor's workmen should wear the badges assigned to them while working for identification.
15. If any of the personnel of the contractors shall break, deface, injure or destroy any part of the building in which they may be working or any building, road, kerbs, fence, enclosure water pipes, cables, drains, electric or telephone posts or wires, trees, grass or grass land or if any damage shall happen to the work while in progress, the contractor shall make good the same at his own expense or in default the department may cause the same to be made good by other agency at the risk and cost of the contractor.

16. Fall Clause :

The Service charges quoted by you shall in no event exceed the lowest charges at which you service machines of identical description to any other party during the period of this contract. If at any time during the said period you reduce the servicing charges of such machines to any other party, you shall forthwith notify such reduction or service charges applicable to the Purchase Officer, ISTRAC Bangalore and the charges payable under the contract for the servicing done after the date of coming into force of such reduction or servicing charges, shall stand correspondingly reduced.

**7. CERTIFICATE OF UNDERTAKING**

1. GOVERNMENT OF INDIA  
DEPARTMENT OF SPACE  
ISTRAC, BENGALURU: 560 058.

2. Subject: Restrictions under Rule 144 (xi) of the General Financial Rules (GFRs) 2017 - reg.

3. REQUIREMENT OF REGISTRATION:

4. Any bidder from a country which shares a land border with India will be eligible to bid in this tender only if the bidder is registered with the Competent Authority. (Competent authority is : DEPARTMENT FOR PROMOTION OF INDUSTRY AND INTERNAL TRADE (DPIIT)).

5. BIDDER (including the term tenderer, consultant or service provider in certain contexts) means any person or firm or company, including any member of a consortium or joint venture (that is an association of several persons, or firms or companies), every artificial juridical person not falling in any of the descriptions of bidders stated hereinbefore, including any agency branch or office controlled by such person, participating in a procurement process.

6. Bidder from a country which shares a land border with India for the purpose means:

- (a) An entity incorporated, established or registered in such a country; or
- (b) A subsidiary of an entity incorporated, established or registered in such a country; or
- (c) An entity substantially controlled through entities incorporated, established or registered in a such a country; or
- (d) An entity whose beneficial owner is situated in such a country; or
- (e) An Indian (or other) agent of such an entity; or
- (f) A natural person who is a citizen of such a country; or
- (g) A consortium or joint venture where any member of the consortium or joint venture falls under any of the above.

7. The beneficial owner for the purpose of (6) above will be as under:

8. i) In case of a company or Limited Liability Partnership, the beneficial owner is a natural person(s), who, whether acting alone or together, or through one or more juridical person, has a controlling ownership interest or who exercises control through other means.

9. Explanation:

(a) Controlling Ownership interest means ownership of or entitlement to more than twenty-five per cent of shares or capital or profits of the company;

10. (b) Control shall include the right to appoint majority of the directors or to control the management or policy decisions including by virtue of their shareholding or management rights or shareholders agreements or voting agreements.

11. ii) In case of a partnership firm, the beneficial owner is the natural person(s) who, whether acting alone or together, or through one or more juridical person, has ownership of or entitlement to more than fifteen percent of capital or profits of the partnership.

12. iii) In case of an unincorporated association or body of individuals, the beneficial owner is the natural person(s), who, whether acting alone or together, or through one or more juridical person, has ownership of or entitlement to more than fifteen percent of the property or capital or profits of such association or body of individuals.

13. iv) Where no natural person is identified under (i) or (ii) or (iii) above, the beneficial owner is the relevant natural person who holds the position of senior managing official.

14. v) In case of a trust, the identification of beneficial owner(s) shall include identification of the author of the trust, the trustee, the beneficiaries with fifteen percent or more interest in the trust and any other natural person exercising ultimate effective control over the trust through a chain of control or ownership.

15. An AGENT is a person employed to do any act for another, or to represent another in dealings with third person.

16. A certificate from the bidder shall be enclosed along with their quotation (Technical bid) as per the format enclosed.

17. (TO BE PRINTED ON THE LETTER HEAD OF THE VENDOR)

18. CERTIFICATE

19. Ref:Tender No \_\_\_\_\_ date \_\_\_\_\_

Our Quotation No. \_\_\_\_\_ date \_\_\_\_\_

20. (i).I/WE \_\_\_\_\_ read the clause regarding restrictions on procurement from a bidder of a country which shares a land border with India. I / We \_\_\_\_\_ Certify that this bidder is not from such a country.

21. OR\*

I/We \_\_\_\_\_ read the clause regarding restrictions on procurement from a bidder of a country which shares a land border with India.

22. I / We \_\_\_\_\_ Certify that this bidder is from such a country and registered with the Competent Authority (i.e. Registration Committee constituted by the Department for Promotion of Industry and Internal Trade (DPIIT). Copy of Registration Certificate is enclosed.

23. (ii).I/We hereby confirm that the country of origin of goods is \_\_\_\_\_

24. (iii).I/We \_\_\_\_\_ hereby undertake that if the Certificate is found to be false at any given time ISRO/ISTRAC may treat this as a ground for immediate termination and further legal action in accordance with law can be initiated.

25. SIGNATURE:

26. NAME:

27. DESIGNATION:

28.

COMPANY NAME AND SEAL:

29. ( \* Strike out whichever is not applicable).

## C. Bid Templates

### C.1 Technical Bid - SITC of 2x120KVA UPS for new 18mtr facility

#### 1. Uninterruptable Power Supply (UPS)-Supply of Paralleling kit(for 2x120KVA UPS)

#### 2. Uninterruptable Power Supply (UPS)-Supply, installation, testing and commissioning of 120KVA UPS with battery bank as per enclosed specification in ANNEXURE-A including 5years warranty from the date of commissioning including battery banks

#### Item specifications for Uninterruptable Power Supply (UPS)

SI No	Specification	Value	Compliance	Offered Specification	Remark
1	UPS RATING	(KVA 120) (KW 108 at 0.9 lag)	Yes / No / Explain		
2	Quantity	2sets (1set consist of UPS unit 1no. and battery bank 1no.).	Yes / No / Explain		
3	Approved Makes of the UPS	VERTIV, APC,RIELLO, PILLER, EPI, SOCOMEC,NUMERIC(LEGRAND)	Yes / No / Explain		
4	Series & Model of UPS	To be furnished by the vendor	Yes / No / Explain		
5	Output Power factor at full rated load	0.9	Yes / No / Explain		
6	Output wave form	sine wave.	Yes / No / Explain		
7	Overload capacity-1	150% for 60 sec	Yes / No / Explain		
8	Overload capacity-2	125% for 10min	Yes / No / Explain		
9	Output voltage distortion factor with linear load	<1%	Yes / No / Explain		
10	Output voltage distortion factor with non linear load	<3%	Yes / No / Explain		
11	Maximum crest factor	3	Yes / No / Explain		

12	Maximum input current at rated load & power factor	To be furnished by the vendor	Yes / No / Explain		
13	Maximum input current with battery charging(line current)	To be furnished by the vendor	Yes / No / Explain		
14	Battery charging current max	To be furnished by the vendor	Yes / No / Explain		
15	Rectifier / Charger Technology	IGBT	Yes / No / Explain		
16	Type of Rectifier/ Charger	IGBT	Yes / No / Explain		
17	(a)Input Voltage	415 V AC	Yes / No / Explain		
18	(b)Input voltage Range	270V – 470V	Yes / No / Explain		
19	(c)Input Frequency	50 Hz.	Yes / No / Explain		
20	(d) Frequency Range	45-55Hz.	Yes / No / Explain		
21	(e) Input Current Harmonic Distortion at 100% non-linear load	<5%.	Yes / No / Explain		
22	(f)AC-AC efficiency for nonlinear loads	To be furnished by the vendor	Yes / No / Explain		
23	Total heat dissipation in BTU At 100% load At 50% load	To be furnished by the vendor	Yes / No / Explain		
24	Walk in time	>10 sec	Yes / No / Explain		
25	Converter output (DC Voltage)	To be furnished by the vendor	Yes / No / Explain		
26	Ripple on DC bus	To be furnished by the vendor	Yes / No / Explain		
27	Inverter Technology	IGBT without using transformer	Yes / No / Explain		
28	Inverter output voltage	415V Adjustable	Yes / No / Explain		
29	Voltage Regulation Balanced Load and on unbalanced load	±1%	Yes / No / Explain		
30	Transient Voltage Regulation	To be furnished by the vendor	Yes / No / Explain		

31	Transient Recovery time	<10ms	Yes / No / Explain		
32	Output Frequency in free running mode	±0.001%	Yes / No / Explain		
33	Output frequency Synchronization range	±1% (shall be Adjustable)	Yes / No / Explain		
34	Power loss at 100% load	To be furnished by the vendor	Yes / No / Explain		
35	Total Harmonic Distortion at out-put <1% with linear load and <3% with non-linear load	to be complied by the vendor	Yes / No / Explain		
36	Crest Factor	1:3	Yes / No / Explain		
37	Phase Voltage displacement	<1%	Yes / No / Explain		
38	Short circuit performance when inverter on battery mode and mains failure	300% for 10ms	Yes / No / Explain		
39	Max. non-linear load	100%	Yes / No / Explain		
40	Rated voltage of Bypass Static Switch	415V	Yes / No / Explain		
41	Voltage tolerance Bypass Static Switch	±10%	Yes / No / Explain		
42	Rated frequency Bypass Static Switch	50Hz	Yes / No / Explain		
43	Frequency tolerance of Bypass Static Switch	± 10%	Yes / No / Explain		
44	Overload capacity of Bypass Static Switch	150% 10min	Yes / No / Explain		
45	Change over time From inverter to bypass From bypass to inverter in synchronization mode	(0 ms) seamless	Yes / No / Explain		

46	Change over time From inverter to bypass From bypass to inverter in non- synchronization mode	To be furnished by the vendor	Yes / No / Explain		
47	Cooling method adopted / type of cooling	to be furnished by the vendor	Yes / No / Explain		
48	Environmental protection	to be furnished by the vendor	Yes / No / Explain		
49	Audible Noise in dbA at 1 Mtr.	to be furnished by the vendor	Yes / No / Explain		
50	Degree of Ingress protection	to be furnished by the vendor	Yes / No / Explain		
51	Batteries: Type:	12V VRLA Gel or AGM maintenance free	Yes / No / Explain		
52	No. of Battery Panels	To be furnished by the vendor	Yes / No / Explain		
53	Whether inter-cell / Row / Tier connection included in the Bat-tery offered.	To be furnished by the vendor	Yes / No / Explain		
54	Battery backup time	30 min	Yes / No / Explain		
55	Battery bank voltage	low battery bank voltage preferred	Yes / No / Explain		
56	No. of Battery per bank as designed	to be furnished by the vendor	Yes / No / Explain		
57	Battery capacity in AH for 10 hour discharge rate	to be furnished by the vendor	Yes / No / Explain		
58	Battery approved make	EXIDE, AMCO, PANASONIC, AMARARAJA, SONNENSCHNEIN	Yes / No / Explain		
59	Battery Model	to be furnished by the vendor	Yes / No / Explain		
60	Efficiency AC/AC (overall) a) At full load b) At 75% load c) At 50% load d) At 25% load	to be furnished by the vendor	Yes / No / Explain		
61	Reliability MTBF	to be furnished by the vendor	Yes / No / Explain		



62	MTTR	to be furnished by the vendor	Yes / No / Explain		
63	Details of External Maintenance bypass switch offered	to be furnished by the vendor	Yes / No / Explain		
64	Details of Remote monitoring of-fered	to be furnished by the vendor	Yes / No / Explain		
65	List of test offered at factory and at site shall be furnished	to be furnished by the vendor	Yes / No / Explain		
66	All the magnetics like chokes etc shall be copper wound		-		

**Document : ANNEXURE-A**

**3. Unintrruptable Power Supply (UPS)-Supply and laying of size 4 Nywin cable from UPS to UPS Input panel, from UPS to UPS out panel, from UPS to battery bank.(For 2x120 KVA UPS)**

**4. Unintrruptable Power Supply (UPS)-CAMC for 2 x 120KVA UPS with battery bank as per enclosed specifications, terms and conditions in ANNEXURE-B**

**Item specifications for Unintrruptable Power Supply (UPS)**

SI No	Specification	Value	Compliance	Offered Specification	Remark
1	COMPREHENSIVE ANNUAL MAINTENANCE CONTRACT SPECIFICATIONS, TERMS AND CONDITIONS FOR 2x120KVAUPS ALONG WITH ASSOCIATED BATTERY BANKS.The scope of work covered under CAMC is detailed below.		-		

2	Spares for day to day satisfactory operations, spares required for preventive maintenance and spares required for replacement of defective parts during break down maintenance shall have to be included in the scope of the tenderer.		-		
3	<b>TECHNICAL &amp; GENERAL SCOPE OF WORK</b> • Agency shall have to carry out preventive maintenance of UPS system once in three months.		-		
4	Preventive maintenance and break down maintenance of UPS shall be carried out as per the instructions of the UPS manufacturer for the satisfactory maintenance of UPS.		-		
5	Therefore maintenance schedule shall be in line with UPS manufacturer's instruction. • Cleaning of UPS shall be done. • Preparation of maintenance data for future records shall be done.		-		
6	Replacement of any defective components or parts shall be done at free of cost. • ISTRAC will only spare vacuum cleaner for cleaning purpose.		-		

7	CAMC shall be for 5 years and shall commence from the date of completion the warranty period .Periodicity of preventive maintenance: Once in 3 months at a clear interval of 90 ± 10 days between two consecutive preventive maintenance services.		-		
8	Preventive maintenance shall be taken up only on Department working days and in the presence of Department Engineers.		-		
9	Preventive maintenance generally shall cover the following. a) Examination of basic functions b) Examination of power quality and measurement of such parameters c) Bypass changeover d) Simulation of a mains failure		-		
10	e) Readout of system data/ download of system data and submit the same f) Battery breaker condition g)measurement of impedance of all batteries		-		
11	Break down maintenance:Unlimited service. The firm shall depute their Service Engineers / Technicians to site IDSN, Byalalu , Bangalore within reasonable time but not beyond 24 hours from the receipt of break down calls received from the Department.		-		

12	Emergency calls shall be attended on Department's holidays / out of office hours without any extra charges.		-		
13	All spares required for preventive maintenance and break down maintenance shall be supplied without any extra cost including replacement of batteries		-		
14	Tools, tackles and instruments required for preventive maintenance and break down maintenance have to be provided by AMC agency only.		-		
15	The firm shall repair and put UPS into satisfactory operation on the same day of attending as far as possible.		-		
16	The firm shall make all efforts to repair UPS as far as possible at the Department's premises.		-		
17	However, in case if any parts of UPS are to be taken out to the firm's premises for repair, the same shall be subject to furnishing of bank guarantee towards the cost of items.		-		
18	The rate indicated in the maintenance contract shall be firm and there shall not be any price revision during the tenure of the contract. However, GST or any other statutory levies, when applicable, will be paid on production of documentary proof.		-		

19	The Department reserves the right to delete / include any of the systems in the existing contract. However, the rates for inclusion of new systems into the contract shall be on pro-rata basis mutually worked out and agreed upon by both the parties.		-		
20	The Department reserves the right to revoke the service contract in part or in full or entrust the contract with any other contractor in case the contractor fails to comply with contractual obligation during the currency of the contract.		-		
21	The contractor shall be responsible for any loss to the Department as a result of non-compliance of the contractual obligations and breach of trust.		-		
22	The Department reserves the right to relocate the systems as and when necessary.		-		
23	It shall be open to Department to terminate this contract at any time during its currency by giving three months' notice to the firm in writing.		-		
24	In the event of any damage to the Department's property or personal injury or to contractor personnel due to the negligence of the contractor's employees, the responsibilities shall solely rest upon with the contractor.		-		

25	NOTE: 1. The AMC agency shall submit the service report in a printed form to the Department after obtaining the signature of concerned / authorized Department official for each service carried out.		-		
26	2. AMC agency shall be authorized by UPS manufacturer or Service technicians / engineers deputed for servicing should have been trained by UPS manufacturer and has thorough knowledge.		-		
27	3. No advance payment will be made. Payment will be made on quarterly basis on submission of service reports duly signed and certified by the authorized department official.		-		

**Document : ANNEXURE-B**

**5. Uninterruptable Power Supply (UPS)-Supply of communication cable(CAT6 cable) and laying it from UPS to LAN port through suitable size Steel wired reinforced (SWR) PVC flexible conduit pipes and necessary materials such as brackets, clamps, MS spacers etc**

**Common Specifications (Applicable for all items)**

SI No	Specification	Value	Compliance	Offered Specification	Remark
1	Detailed Specifications, scope for 120KVA UPS along with batteries mentioned in ANNEXURE-A is uploaded in documents section	Signed and sealed copy of ANNEXURE-A to be uploaded by the vendor indicating compliance.Any deviations shall be brought out clearly.	Yes / No / Explain		

2	Terms and conditions for CAMC of 2x120KVA UPS along with batteries mentioned in ANNEXURE-B is uploaded in documents section	Signed and sealed copy of ANNEXURE-B to be uploaded by the vendor indicating compliance. Any deviations shall be brought out clearly.	Yes / No / Explain		
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**Supporting Documents required from Vendor**

- 1. Data sheet, Product catalogue/equipment brochure of the quoted battery**
- 2. Bill of materials without the cost to be submitted in the technical bid**
- 3. Data sheet, product catalogue/equipment brochure of the quoted UPS model**
- 4. Documentary evidence for having installed similar UPS in any industry and their performance for the past 7 years has to be submitted Failing which offer will be out rightly rejected.**
- 5. Completion certificate for works issued by private parties shall be supported by TDS (Tax Deducted at Source) certificate**
- 6. Signed and sealed copy of ANNEXURE-A indicating compliance to the specifications of UPS & Batteries. Any deviations in compliance may please be brought out clearly**
- 7. Signed and sealed copy of ANNEXURE-B indicating compliance to the terms and conditions of CAMC of UPS and battery bank. Any deviations in compliance may please be brought out clearly.**
- 8. Battery sizing calculation**
- 9. Authorisation certificate from OEM**
- 10. company profile**

5 additional documents can be uploaded by the vendor

## C.2 Commercial Terms / Bid

Sl. No.	Description	Compliance	Vendor Terms
1	Payment Terms: Supply: Our normal terms of payment is 100% within 30 days from the date of Supply, Installation and Acceptance of items. CAMC: Pro-rata Quarterly payment after completion of each quarter.	Yes / No / Explain	
2	Taxes and other costs, if any	Yes / No / Explain	
3	Delivery Period	Yes / No / Explain	
4	Delivery Term	Yes / No / Explain	
5	Security Deposit: FD or BG for 3% of PO value to be submitted after receipt of PO and valid till supply & acceptance. (Separately for Supply & CAMC).	Yes / No / Explain	
6	Performance Bank guarantee : BG for 3% of PO value to be submitted while claiming payment valid till end of warranty period with a claim period of 60 days. (For Supply only).	Yes / No / Explain	
7	(OR) SD-cum-Warranty (PBG) (in lieu of SD & PBG as a single instrument): BG for 3% of PO value to be submitted after receipt of PO valid till end of warranty period with a claim period of 60 days. (For Supply only).	Yes / No / Explain	
8	DELAY IN COMPLETION / LIQUIDATED DAMAGES :If the Contractor fails to deliver the stores within the time specified in the Contract or any extension thereof, the Purchaser shall recover from the Contractor as Liquidated Damages a sum of one-half of one per cent (0.5%) of the Contract price of the undelivered stores for each calendar week of delay. The total liquidated damages shall not exceed ten percent (10%) of the contract price of the unit or units so delayed. Stores will be deemed to have been delivered only when all their component parts are also delivered. If certain components are not delivered in time, the stores will be considered as delayed until such time as the missing parts are delivered.	Yes / No / Explain	



9	Down Time Compensation: Service Down time compensation at the rate of 1% of the CAMC value of that particular component/section shall be levied per every extra day subject to a maximum of 10% of the CAMC value of that particular component/section in case the vendor is not able to respond to the issue even after 24 hrs from the time of reporting of the issue.(Applicable for CAMC)	Yes / No / Explain	
10	Warranty	Yes / No / Explain	
11	Name and Address of the company on whom purchase order to be placed (OEM if any should be added in your E-Procurement profile under Add Agent/Principal without fail).	Yes / No / Explain	
12	Certificate of Undertaking: Any bidder from a country which shares a land border with India will be eligible to bid in any procurement whether of goods or services (including consultancy services and non consultancy services) or works (including turn-key projects) only if the bidder is registered with the Competent authority (i.e. DPIIT). Hence, it is mandatory to furnish Certificate of Undertaking as indicated in the tender document.	Yes / No / Explain	
13	Any other terms	Yes / No / Explain	

### C.3 Price Bid

Sl. No.	Item	Quantity	Unit Price	Currency	Total Price	Remark
1	Unintrruptable Power Supply (UPS)-Supply of Paralleling kit(for 2x120KVA UPS)	1.00 Nos.		-		

2	Unintrruptabl e Power Supply (UPS)- Supply, installation, testing and commissioning of 120KVA UPS with battery bank as per enclosed specification in ANNEXURE-A including 5years warranty from the date of commissioning including battery banks	2.00 Nos.		-		
3	Unintrruptabl e Power Supply (UPS)-Supply and laying of size 4 Nywin cable from UPS to UPS Input panel, from UPS to UPS out panel, from UPS to battery bank.(For 2x120 KVA UPS)	1200.00 m		-		
4	Unintrruptabl e Power Supply (UPS)-CAMC for 2 x 120KVA UPS with battery bank as per enclosed specifications , terms and conditions in ANNEXURE-B	5.00 Yearly		-		

5	Uninterruptible Power Supply (UPS)-Supply of communication cable(CAT6 cable) and laying it from UPS to LAN port through suitable size Steel wired reinforced (SWR) PVC flexible conduit pipes and necessary materials such as brackets, clamps, MS spacers etc	100.00 m		-		
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**Common charges (Applicable for all items)**

<b>P&amp;F Charges</b>	
<b>Freight Charges</b>	
<b>Installation Charges</b>	
<b>Documentation &amp; Handling Charges</b>	
<b>Other Charges (If any)</b>	