



राष्ट्रीयसमुद्रप्रौद्योगिकीसंस्थान  
NATIONAL INSTITUTE OF  
OCEAN TECHNOLOGY

संविदा आमंत्रण सूचना(नि.आ.सू.)  
**NOTICE INVITING TENDER (NIT)**



फ़ार्म संख्या:  
Form No. NIOT/S&P/NIT

**GEM-Tender Schedule**

निविदा संख्या/ Tender No.	<b>NIOT/S&amp;P/CMC/9477/2024-25</b>
कोजारी Issued To	<b>Procurement of 60 KVA UPS along with 200 AH Battery Bank (under buyback mode)</b>
निविदाप्रणाली/Tender Mode	<b>GEM – Open Tender Dual Bid</b>
बोली का प्रकार एवं निविदा प्रस्तुतिकरण Bidding Type & Tender submission	Two Part Tender of Technical Bid and Price Bid should be submitted electronically through GeM portal <a href="https://gem.gov.in">https://gem.gov.in</a>
निविदा प्रलेख उपलब्धता स्थान Tender Documents available place	Bidders may download the help documents. Helpdesk number : Number: 1800-419-3436 E-Mail: <a href="mailto:helpdesk-gem@gov.in">helpdesk-gem@gov.in</a> For any issues / clarifications relating to the tender(s) published kindly contact the respective Tender Inviting Authority.
अपने प्रश्न ई मेल आईडी पर भेजें Send your queries to the email IDs	निविदा के अंतिम चरण तक/Upto Tender finalisations <a href="mailto:gopalakrishnaa.niot@gov.in">gopalakrishnaa.niot@gov.in</a> / <a href="mailto:vaidehi.niot@gov.in">vaidehi.niot@gov.in</a>

राष्ट्रीय समुद्र प्रौद्योगिकी संस्थान **NATIONAL INSTITUTE OF OCEAN TECHNOLOGY**  
वेलचेरी ताम्बरम मेन रोड **VELACHERY TAMBARAM MAIN ROAD**  
नारायण पुरम, चेन्नै **600 100 NARAYANPURAM, CHENNAI 600 100**  
रा.स.प्रौ.सं. वेबसाइट/NIOT Website : [https://www.niot.res.in/tenders\\_index.php](https://www.niot.res.in/tenders_index.php)

**Commercial Terms Compliance sheet (The format should not be altered)**

<b>Sl. No</b>	<b>Particulars</b>	<b>Yes</b>	<b>No</b>	<b>offer Page Ref</b>
1	Whether every page of the tender document is signed for acceptance of tender and uploaded along with the offer?			
2	Whether Taxes and duties are shown separately in the quote. (Registration numbers for claiming the same to be strictly indicated)			
3	Whether accepted to submit the order acceptance within 7 days from the date of order?			
4	Whether Quote is valid for <b>120 days</b> from the due date of tender or time specified in the tender document whichever is later?			
5	Whether <b>payment terms</b> of the tender is complied with?			
6	Whether the bidder satisfies the Pre- qualification criteria			
	a. a copy of your GST Registration certificates and PAN details are attached (Mandatory qualifying condition)			
	b. Supplier should have previous experience in supply of similar items to recognized institutions. (Mandatory qualifying condition)			
7	<b>a. The Goods / items quoted are manufactured in India and not imported from any country.</b>			
	<b>b. Make in India Clause: If the item/goods are partially imported, specify your category:</b>			
	1. CLASS I Category: Supplier or service provider, whose goods, services or works offered for procurement, has local content greater than or equal to 50%.			
	2. CLASS II Category: Supplier or service provider, whose goods, services or works offered for procurement, has local content more than 20% but less than 50%.			
8	Whether self certification form is enclosed (For Class I & Class II supplier only)?			
9	Whether price is <b>FOR /DAP</b> NIOT, Chennai and <b>including buyback value</b> ?			
10	Whether the freight cost is included, if not included whether the freight cost is indicated separately?			
11	Whether the <b>authorization letter</b> exclusively for this tender, from the original manufacturer is enclosed?			
12	a) Whether <b>warranty</b> period accepted as per tender?			
	b) Whether submission of <b>warranty</b> certificate in the prescribed format is acceptable?			
13	a) Whether the <b>delivery period</b> is clearly indicated, and is as per tender?			
	b) Whether declaration for supply within the delivery period has been filled & Signed by the competent authority ( <b>Annexure – 2</b> )			
14	Whether the cost of installation / inspection / testing explicitly mentioned in the quote?			
15	Whether Past track record of quality and service is enclosed?			
16	Whether list of deliverables attached and comply as per tender?			
17	Whether liquidated damage clause is acceptable in case of delayed supply?			
18	Whether the tender is fully complying with tender specification/Adjustment if no, list out deviations very clearly along with the appropriate reason for the deviation?			
19	Whether item-wise price is quoted as per price bid and quoted price is realistic?			
20	Whether technical specification has been duly filled in and submitted with the tender document is uploaded along with the quotation.			
21	Whether HSN code of the product has been indicated?			
22	<b>Whether your firm is registered under MSME/ NSIC/DIC/UAM? If yes enclose copy of registration</b>			

## **PRICE BID FORMAT**

<b>S. No.</b>	<b>Description</b>	<b>Quantity</b>	<b>Unit</b>	<b>Unit rate</b>	<b>Amount</b>
<b>1.</b>	60 kVA UPS, 3 X 3 Phase, 6 Pulse, 415 V, Hipulse-U - Vertiv Make with 0.9 PF	1	<b>Nos.</b>	<b><u>The price has to be quoted in GEM BOQ only and shall not be revealed. If the prices are revealed in the technical bid or otherwise, it will be at the risk of the bidder and NIOT shall not be responsible. The quote will be considered against the price mentioned in the GEM BOQ.</u></b>	
<b>2.</b>	12V 200 AH SMF Battery with 3-Years Warranty	34	<b>Nos.</b>		
<b>3.</b>	Uninyvin Interlinks Cables	1	<b>Set</b>		
<b>4.</b>	Painted Steel Rack of angle size 2 inch and 5 mm thick to house 34 No of 200AH Batteries	1	<b>Nos.</b>		
<b>5.</b>	Buy Back of UPS and batteries ( <b>Less</b> ) ( <b>As detailed in technical compliance</b> )	<b>1</b>	<b>Lump sum</b>		
<b>6.</b>	GST as applicable		<b>%</b>		
<b>Total Amount</b>					
(Amount in words. _____)					

**The total price is inclusive of GST and less buyback value and F.O.R. NIOT, Chennai.**

**Amount for SI No. 1 should be mentioned in GeM after deducting Buy back value while bidding.**

### **Note:**

**#** *The goods items quoted are manufactured in India and not imported from any country.*

### **\* For Supply**

The GST will be paid as applicable.

### **For Service**

GST @ 18% is applicable.

NIOT has enrolled under GST in the category "Tax Deductor". The bidders are requested to update their database regarding NIOT's Registration under GST-Tax Deductor. (See clause No.51 II (c))

TDS @ 2% on the order value towards GST will be deducted on payments made to the supplier in respect of goods and/or services, supplied/provided if the value exceeds Rs. 2.5 lakhs.

1. The copy of the GST registration certificate to be attached.
2. The duly filled technical and commercial compliance sheets should be submitted along with quotation/offer.

**We agree to all applicable terms and conditions listed in the tender document.**

**Signature with Seal**

## Technical specification

### Pre – qualification criteria:

Sl. No.	Criteria	Description	Remarks (Yes/No)
1	Experience	The bidder/manufacturer should have manufacturing plant in India. The bidder/OEM should have supplied and installed <b>atleast 10 numbers</b> of similar capacity UPS i.e 60KVA to Government/Semi government/PSUs organizations <b>in the last 5 years</b> prior to tender opening date. Documentary evidence and Proof of purchase orders should be submitted.	
2	Bidder/OEM Location	The Bidder must have office in Chennai with a call coordination centre along with Experts / Specialists for providing support on time and to handle critical issues (attach valid Proof for office being in Chennai / GST Certificate / Certificate of Incorporation etc.)	
3	Annual Turnover of Bidder	Annual Turnover of Bidder should be <b>Rs.5.23 lakh</b> or above in the past three financial years (i.e. 2021-2022, 2022-2023, 2023-2024), valid proofs to be attached.	
4	ISO 27001	Bidder should possess ISO 27001 certificates and Proof should be attached for this bid.	
5	OEM Authorization	1. Bidder should be an authorized Supplier / Reseller of the respective product and should be listed as Partner or above. 2. Manufacturer Authorization Form (MAF) should be provided against this BID by the OEM.	
6	<b>Buyback</b>	<b>The bidder should quote including buyback.</b>	

### Technical specification Compliance:

S. No.	Item Description	Specification	Compliance (Yes/No)
1	Rated Power (KVA)	60 KVA	
2	Input Voltage Range	323-478 VAC, 3-phase $\pm 20\%$	
3	UPS Technology	Fully digital, twin DSP controlled	
4	Conversion Topology	Online Double Conversion	
5	Inverter	IGBT (Insulated Gate Bipolar Transistors)	
6	Input Frequency Range	45Hz to 65Hz	
7	Input Power Factor	Up to 1 @ Full Load	
8	Output Power Factor	0.9 (non-lagging) to deliver active power	
9	Battery Type	200 AH Sealed Maintenance Free batteries. Supply includes painted steel racks of angle size 2 inch and 5 mm thick for placing the batteries	
10	No. of Batteries and Backup	To meet 1 Hour backup under full load condition	
11	Overload Capability	101 to 110%, 60 minutes; 111 to 125%, 10 minutes; 126 to 150%, 1 minute	

12	Voltage stability	$\pm 1\%$ in Steady state and $\pm 5\%$ in Transient state	
13	Voltage Distortions	< 1% for linear loads and <5% for 100% non-linear loads	
14	Maintenance	Built in maintenance bypass switch	
15	Compatibility Standards	UPS - IEC 62040-1-1, EMC - IEC 62040-2, Classification - IEC 62040-3 VFI-SS-111	
16	Architecture	Easy Dual bus configuration	
17	Frequency Synchronization	Adjustable frequency synchronization window up to 6% in the static bypass	
18	Field Protocols	ModBus / Jbus	
19	Network Protocols	Enabled with SNMP Network protocols	
20	Isolation Transformer	Inbuilt Isolation Transformer should be available	
21	Breaker switches	Inbuilt Input, output, Bypass, Maintenance & Battery Breaker should be available	
22	Phase angle displacement accuracy	$\pm 1^\circ$ for 100% balanced/unbalanced load	
23	Surge Protection	Should be available	
24	Ingress Protection Level	IP20	
25	Communication Interface Type	RS 232 / RS 485 / USB – MODBUS-IP, MODBUS-486, SNMP, HTTP	
26	Power monitoring / Management	Software assisted	
27	Operating Temperature	UPS 15-40 degree C, Battery 20-30 degree C	
28	Relative Humidity	0-95%	
29	Static Switch / Bypass /Hot Standby Feature	Should be available	
30	DC Breakers	As applicable	
31	Connecting Cables, accessories and lugs	Uninyvin interlink cables, SGT Battery cables, accessories including lugs and Teflon sheets for racks should be provided by the vendor	
32	Bidder should have atleast 27 years if experience and manufacturing plant in India	Should comply	
33	Bidder should have office in Chennai to provide immediate service support	Should comply	
34	Warranty	3 years Comprehensive	
35	Service Level Agreement	i. During the warranty period, THE BIDDER/OEM agrees to maintain the UPS EQUIPMENT in perfect working condition.	

ii. THE BIDDER/OEM shall rectify any defects, faults and failures in the UPS EQUIPMENT and shall repair and replace worn out of defective parts of the UPS EQUIPMENT during NIOT's normal local working hours (other than holidays). In cases where unserviceable parts of the UPS EQUIPMENT need replacement THE BIDDER/OEM shall replace such parts, at no extra cost to NIOT, with brand new OEM certified parts.

iii. THE BIDDER/OEM shall provide repair and maintenance service, in response to oral, including telephone notice by NIOT, within 2(Two) hours (including intervening Sundays and NIOT holidays) and should be set right within 24 hours. In case if the item is not serviceable, THE BIDDER/OEM will be required to arrange for an immediate replacement of the same unit till the faulty one is repaired. Failure to arrange for the immediate repair/replacement will be liable for penalty of Rs. 1000/- per day. The amount of penalty will be recovered from the Bank guarantee submitted by the vendor.

iv. THE BIDDER/OEM shall ensure that the full configuration of the UPS EQUIPMENT is available to NIOT in proper working condition for 98% of the time in every month.

v. THE BIDDER/OEM shall ensure that the mean time between failures (including any malfunctioning, breakdown or faults) in the UPS EQUIPMENT is very minimum.

vi. Preventive Maintenance: THE BIDDER/OEM shall conduct Preventive Maintenance (including but not limited to inspection, testing, satisfactory execution of all diagnostics, cleaning and removal of dust and dirt from the interior and exterior of the UPS EQUIPMENT, and verify the batteries once in a month during the currency of the warranty period.

vii. All engineering changes generally adopted hereafter by THE BIDDER/OEM for UPS EQUIPMENT similar to that covered by this SLA, shall be made to the UPS EQUIPMENT at no cost to NIOT.

viii. All repair and maintenance service described herein shall be performed by qualified/certified maintenance engineers from the OEM.

ix. THE BIDDER/OEM's engineer shall enter the details of the action taken every time a preventive or corrective maintenance is carried out. THE OEM's engineer shall make, effect in duplicate, a Field Call Report which shall be signed by him and thereafter countersigned by NIOT's official. The original of the Field Call Report shall be handed over to the NIOT's official.

x. Periodical maintenance/inspection should be ensured for the UPS and batteries. Inspection of UPS System includes a) Checking all inputs, outputs and battery connections from and to the system b) Checking Charger/Rectifier parameters of the UPS System c) Checking the output parameters of the UPS System. Inspection of battery includes a) inspecting and cleaning all the battery cells b) checking individual cell voltage c) checking battery intercell connectors, battery connections d) checking the electrolyte level and topping up if required. Apart from attending to the other periodic maintenance work, the vendor should check the voltages of batteries and record the same. Any impending weakness or failure of batteries should be brought to the notice of NIOT. The vendor should initiate steps expeditiously to replace, as fast as possible, the defective batteries within the warranty.

xi. During the preventive maintenance, the battery terminals and connectors should be cleaned and white petroleum jelly applied to prevent corrosion by acid fumes. Vendor should ensure quarterly/as and when required topping up of distilled water for batteries if required.

xii. Testing of UPS and batteries should be done periodically, at least once a month. Any shutdown has to be carried out by the OEM preferably on a holiday.

xiii. Any worn or defective parts withdrawn from the UPS EQUIPMENT and replaced by OEM shall become the property of OEM; and the parts

replacing the withdrawn parts shall become the property of NIOT.  
xiv. THE OEM'S maintenance personnel shall be given access to the UPS EQUIPMENT when necessary, for purposes of performing the repair and maintenance services indicated in this SLA.  
xv. Within the period of warranty, NIOT reserves the right to shift the UPS EQUIPMENT to alternate site of its choice, disconnect/connect/substitute Battery bank acquired from any other Vendor. In such case THE BIDDER/OEM undertakes to continue to maintain the UPS EQUIPMENT at the new location without any additional cost to NIOT.  
xvi. No term or provision hereof shall be deemed waived and no breach excused, unless such waiver or consent shall be in writing and signed by the party claimed to have waived or consented.

36 Hardware Authorization and Support  
1. The Hardware quoted should be certified / Authorized by the respective OEM  
2. The product should be directly supported by the OEM after Installation by the bidder.

37 Buy Back  
Offer should include buyback of 193 Nos of Old UPS and 230 Nos of Batteries.  
**The bidder carries the responsibility to deliver the new UPS and taking back the buyback items from NIOT.**

38	Buyback Item Details	<table border="1"> <thead> <tr> <th>Sl. no.</th> <th>UPS details</th> <th>Qty</th> </tr> </thead> <tbody> <tr><td>1</td><td>APC SUA 700/SUA 750</td><td>70</td></tr> <tr><td>2</td><td>APC BR1100</td><td>79</td></tr> <tr><td>3</td><td>APC SURT 6000</td><td>1</td></tr> <tr><td>4</td><td>APC SURT 3000 UXI</td><td>1</td></tr> <tr><td>5</td><td>APC SU2200INET</td><td>1</td></tr> <tr><td>6</td><td>APC Back UPS pro 420</td><td>1</td></tr> <tr><td>7</td><td>APC BK650MI</td><td>1</td></tr> <tr><td>8</td><td>Emerson 1 KVA</td><td>19</td></tr> <tr><td>9</td><td>Emerson 2 KVA</td><td>1</td></tr> <tr><td>10</td><td>Emerson 10 KVA</td><td>1</td></tr> <tr><td>11</td><td>Hykon 5 KVA</td><td>2</td></tr> <tr><td>12</td><td>APC SRC 3000UXI</td><td>1</td></tr> <tr><td>13</td><td>BR8001N</td><td>2</td></tr> <tr><td>14</td><td>Smart ups 2000</td><td>1</td></tr> <tr><td>15</td><td>SUA 1000 I</td><td>3</td></tr> <tr><td>16</td><td>SURT 1000 XLI</td><td>1</td></tr> <tr><td>17</td><td>SURT 2000 UXI</td><td>1</td></tr> <tr><td>18</td><td>SURT 2000 XLI</td><td>1</td></tr> <tr><td>19</td><td>SURT 3000 UXI</td><td>3</td></tr> <tr><td>20</td><td>SURT 40 KVA</td><td>1</td></tr> <tr><td>21</td><td>SURT 6000 UXI</td><td>2</td></tr> <tr><td></td><td><b>Total</b></td><td><b>193</b></td></tr> </tbody> </table>	Sl. no.	UPS details	Qty	1	APC SUA 700/SUA 750	70	2	APC BR1100	79	3	APC SURT 6000	1	4	APC SURT 3000 UXI	1	5	APC SU2200INET	1	6	APC Back UPS pro 420	1	7	APC BK650MI	1	8	Emerson 1 KVA	19	9	Emerson 2 KVA	1	10	Emerson 10 KVA	1	11	Hykon 5 KVA	2	12	APC SRC 3000UXI	1	13	BR8001N	2	14	Smart ups 2000	1	15	SUA 1000 I	3	16	SURT 1000 XLI	1	17	SURT 2000 UXI	1	18	SURT 2000 XLI	1	19	SURT 3000 UXI	3	20	SURT 40 KVA	1	21	SURT 6000 UXI	2		<b>Total</b>	<b>193</b>
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Sno.	Battery details	Qty
1	12v/7 AH	115
2	12v/26 AH	59
3	12v/42 AH	56
	Total	<b>230</b>

**Note:**

The literature/brochure/write up of the items quoted should be uploaded.

**Terms and Conditions:**

**1. Validity:** Quote should be valid for **120 days**.

**2. Payment: 100%** Payment will be made **within 30 Days** after supply, acceptance of the materials. No advance payment shall be made.

**3. Delivery:** The items should be delivered at **NIOT, Chennai within three weeks** from the date of receipt of the purchase order.

**4. Warranty:** All the supplies shall carry warranty for **three years** from the date of supply and acceptance by NIOT. The format of the warranty certificate shall be furnished to the successful bidder.

**5. Part Supply:** Not Allowed. All the items should be delivered in a single lot within the stipulated time.

**6. Liquidity Damage Clause:** Delivery of the items as specified in the purchase order is very essential. In the event of the supplier failing to deliver the item within time or any extension agreed thereto, NIOT shall have the right to recover from the supplier as liquidated damages a sum at the rate of **0.5%** of order value per week not exceeding a total of 5% of the value of the order. Delay beyond this will be dealt as breach of contract and NIOT holds the discretion to accept or reject the item include cancellation of the order without any liability to NIOT.

**We agree to all terms and conditions as per tender document.**

**Date:**

**Signature of supplier**

**Place:**

**Stamp**

**Format for Self Certification under Preference to  
"MAKE IN INDIA" Policy**

(Refer Clause No. 2.8 & 3.4.4 of ITT)

**CERTIFICATE**

In line with Government Public Procurement Order No. P-45021/2/2017-BE-II dt. 15.06.2017, as amended from time to time and as applicable on the date of submission of tender, we hereby certify that we M/s \_\_\_\_\_ (supplier name) are local supplier meeting the requirement of minimum **Local Content** \_\_\_\_\_% as defined in above orders for the material against Tender No. \_\_\_\_\_

Details of location at which local value addition will be made is as follows:

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We also understand, false declarations will be in breach of the Code of Integrity under Rule 175(1)(i)(h) of the General Financial Rule for which for which a bidder or its successors can be debarred for up two years as per Rule 151 (iii) of the General Financial Rules along with such other actions as may be permissible under law.

Seal and Signature of Authorized Signatory

**DECLARATION**

We, M/s. \_\_\_\_\_, hereby declare that the rate quoted for the item "**Procurement of 60 KVA UPS along with 200 AH Battery Bank**" against bid no. \_\_\_\_\_ is readily available in the market. We have checked the availability with the manufacturer/ dealer and we will supply all the items in single lot **within three weeks** from the date of order.

Seal and Signature of Authorized Signatory