

TENDER SPECIFICATION – SUPPLY AND INSTALLATION OF ONLINE UPS FOR BN PABX

1. **Name of the Items/ equipments with quantity.** Procurement of Online UPS for BN PABX as follows:

Ser	Description of items	Quantity	Bidder response
NHQ			
1.	3KVA Online UPS	20 in no's	
2.	1KVA Online UPS	65 in no's	
BNS ISSA KHAN			
3.	1KVA Online UPS	10 in no's	
BNS BHATIARY			
4.	3KVA Online UPS	01 in no	

2. **Purpose.** To remain active telecommunication system during power supply interruption.

3. **Country of Origin.** As per technical specification.

4. **Country of Manufacture.** As per technical specification.

5. **Type/ Model/ Brand.** As per technical specification.

6. **Year of Manufacture.** As per technical specification.

7. **Qualification of Bidders.** Bidder must have following qualifications:

a. Enlisted in NSSD Dhaka.

b. Experience in laying of underground cable and supplying network related items for renowned organization (Govt/ Non-Govt). Necessary document are to be submitted with the offer in support of said experience.

c. Own valid trade license with experience in network setup and maintenance work experience with any of the Bangladesh government entity or defense level is mandatory.

8. **Source of supply.** To be mentioned.

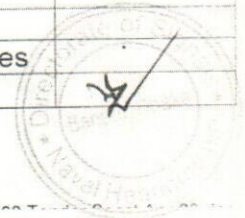
9. **Ports of shipment.** The port of country of origin/ manufacturer is to be mentioned (if applicable).

10. **Scope of supply.** The equipment is to be supplied fulfilling the technical specifications and complete in all respect with all required standard accessories and attachments.

11. **Technical specification.**

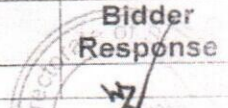
a. **ONLINE UPS 3KVA**

SI. No.	Name of Item or Related Services	Technical Specifications and Standards	Bidder Response
1	Brand	To be Mentioned	
2	Model	To be mentioned.	
3	Country of Origin	USA/ Japan/ Canada/ UK/ EU Countries	
4	Manufacturing Country	To be mentioned.	



SI. No.	Name of Item or Related Services	Technical Specifications and Standards	Bidder Response
5	Quantity	21 in no.	
INPUT PARAMETERS			
6	Rectifier type	IGBT	
7	Rated voltage	220Vac single-phase 3-wire	
8	Input voltage range	120-276V	
9	Input frequency range	45-55 Hz	
10	Input power factor	Single phase ≥ 0.99 / 3-phase ≥ 0.95	
BATTERY			
11	Charging capability	<3h for recharging to 90% of standard model	
12	Battery Number	Maintenance free (Blks to be mentioned)	
OUTPUT PARAMETERS			
13	Rated power	2.4 kW / 3 kVA	
14	Voltage precision	230Vac $\pm 1\%$	
15	Frequency precision	50 $\pm 0.2\%$	
16	Output voltage THD	<3% for linear load, <5% for non-linear load	
17	Load crest factor	3:1 (comply with IEC 62040-3) or better	
18	Step load performance	100	
System parameters and standard			
19	Whether rack mounting mode is supported	Yes	
20	System efficiency	>91% (with intelligent fan speed regulation function)	
21	Switching time (power failure)	0	
22	Noise	<51 DB	
23	Language	Chinese/English	
24	Whether LCD display is available	Yes (optional)	
25	Safety	GB4943-1995	
26	EMC	Conducted emission: EN50091-2 EN55022 Class A Immunity: EN61000-4-2.3.4.6.8.11 Level III EN61000-4-5 Level IV	
27	Surge protection	Meet installation requirements of IEC60664-1 IV Be able to withstand at least 6KV/3KA 1/2/50uS+8/20uS	
Communication and management			
28	Smart RS -232/USB	Support windows 2000/2003/XP/Vista/2008, Windows 7, Linux, Unix and MAC	
29	Interface type	USB/intelligent slot (SNMP)(Auto shutdown feature for Networking level)(Optional)	
Environmental parameters			
30	Operating temperature	0 - 40°C	
31	Relative humidity	5 - 95%	
32	Altitude	1500m	
33	Back up time	15 Minutes or higher	
34	Warranty	2 Years (Minimum)	

b. **Online UPS 1 kVA**

SI. No.	Name of Item or Related Services	Technical Specifications and Standards	Bidder Response
1	Brand	To be Mentioned	

Sl. No.	Name of Item or Related Services	Technical Specifications and Standards	Bidder Response
2	Model	To be mentioned.	
3	Country of Origin	USA/Japan/Canada/UK/EU Countries	
4	Manufacturing Country	To be mentioned.	
5	Quantity	75 in no.	
6	Phase	1 phase in / 1 phase out	
7	Capacity	1000 VA / 900 W	
INPUT			
8	Nominal Voltage	230 Vac	
Voltage Range			
9	Low Line Loss	110 VAC \pm 3% at 50% Load 176 VAC \pm 3% at 100% Load	
10	Low Line Comeback	120 VAC \pm 3% at 50% Load 186 VAC \pm 3% at 100% Load	
11	High Line Loss	280 VAC \pm 3%	
12	High Line Comeback	270 VAC \pm 3%	
13	Frequency Range	40 Hz ~ 70 Hz	
14	Power Factor	\geq 0.9 @ 100% load	
OUTPUT			
15	Nominal Voltage	208/220/230/240VAC	
16	AC Voltage Regulation	\pm 1%	
17	Frequency Range (Synchronized Range)	46Hz ~ 54 Hz or 56Hz ~ 64 Hz	
18	Frequency Range (Batt. Mode)	50 Hz \pm 0.1 Hz or 60 Hz \pm 0.1 Hz	
19	Current Crest Ratio	3:1 (max.)	
20	Harmonic Distortion	\leq 3 % THD (Linear Load), \leq 7 % THD (Non-linear Load)	
Transfer Time			
21	Bypass to Inverter (Line mode)	Zero	
22	Inverter to Bypass(Line mode)	4 ms (Typical)	
23	Waveform (Batt. Mode)	Pure Sine wave	
24	Efficiency on AC to AC mode@ 100% load.	88% or better.	
25	Inbuilt Isolation Transformer	No	
BATTERY			
26	Battery Type	Maintenance free seal lead acid	
27	Numbers	12V x 18 AH x3 Blks	
Standard Run Model			
28	Typical Recharge Time	4 hours recover to 90% capacity or better	
29	Charging Current (max.)	1.0 A	
30	Charging Voltage	27.4VDC \pm 1%	
Long Run Model			
31	Battery Type	12V-18 Ah or better.	
32	Numbers	Blks to be mentioned	
33	Charging Current	1.0A/2.0A/4.00.0A, 6.0A default	
34	Float Charging Voltage	41.0 VDC *1%	
INDICATORS			
35	LCD Panel	UPS status, Load level, Battery level, Input/ Output voltage, Discharge timer, and Fault conditions	
ALARM			
36	Battery Mode	Sounding every 4 seconds/ to be mentioned	
37	Low Battery	Sounding every second/ to be mentioned	
38	Overload	Sounding twice every second/ to be mentioned	



Sl. No.	Name of Item or Related Services	Technical Specifications and Standards	Bidder Response
39	Fault	Continuously sounding/ to be mentioned	
PHYSICAL			
40	Standard Run Model		
41	Dimension, D x W x H (mm)	282 x 145 x 220 or better.	
42	Net Weight (kgs)	9.8 or better.	
43	Dimension, O x W x H (mm)	282x145x220 or better.	
44	Net Weight (kgs)	4.1/ to be mentioned	
ENVIRONMENT			
45	Operation Humidity and Temperature	20-90 % RH @ 0- 45°C (non-condensing)	
46	Noise Level	Less than 50dBA @ 1 Meter	
MANAGEMENT			
47	Smart RS-232/USB	Supports Windows® 2000/2003/XP/ Vista/2008, Windows® 7, Linux, Unix, and MAC	
48	Optional SNMP	Power management from SNMP manager and web browser	
49	Warranty	2 Years (Minimum)	
50	Backup Time	15 Minutes or higher	

12. **Details of work.** Details of work as follows:

- a. Bidder has to complete fitting and fixing of Online UPS in respective Units.
- b. Bidder has to quote price list mentioning unit price for the items and any other cost involved for the work in the offer to fulfill the purpose (as per para 2).
- c. Bidder has to provide necessary items as required to complete the work apart from the items mentioned in para 1.
- d. If any damage occurred (internal/ external electric line, other cable or installation etc.) due to this work, the bidder is fully responsible for repairing that damage at his own cost and arrangement.
- e. On completion of the work, the bidder has to confirm Online UPS are fully operational.

13. **Test, Trial and Acceptance.** On completion of the work, Supplier will carry out functional test/ trial in presence of users representatives. Upon satisfactory completion of the test and trials, respective Commanding Officer/ OIC Tel Exchange will issue performance certificate to CINS Chattogram/ ACINS Dhaka whose will issue Final Acceptance Certificate.

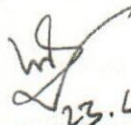
14. **Warranty.**

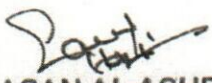
- a. Warranty for 02 (two) year or manufacturer standard whichever is higher by the principal/ manufacturer for trouble free operation of supplied items wef the date of final acceptance by BN is to be given by the principal/ manufacturer/ Supplier.
- b. During the warranty period, if any component of the supplied items becomes defective the warranty (for defective component) shall be extended automatically for the period of subject component remains defective. Moreover incase of any defective items or component if the whole system become defective or non-operational then the overall system warranty shall be extended automatically for the period of subject component remain defective.





c. For warranty repair/ replacement, the supplier will collect the defective item from respective NSD/ NSSD. After collecting, re-supply the same places after warranty repair or for replacement as early as possible.


15. **Completion of Work.** All work is to be completed within 30 (thirty) days after issuance of the work order by BN.
16. **Validity.** The offer should remain valid up to 30 June 2026.
17. **Terms of Payment.** 100% payment will be made in taka after final acceptance given by CINS Chattogram and ACINS Dhaka.
18. **Compliance Statement.** A compliance statement fulfilling all the requirement of the tender is to be submitted for evaluation of the quotations. Stating mere 'Yes' or 'No' will not suffice and detailed description/information as required is to be given. An incomplete compliance statement may attribute to cancellation of the offer. If any clause of this specification does not commensurate with offered item, the deviation has to be spelt out clearly.
19. **Security Aspects.** The contractor has to submit the Bio-Data of his staffs to Bangladesh Navy at least 30 days prior his/ their planned deployment. The concerned persons will only be employed after obtaining security clearance from appropriate Naval Authority. However, the contractor will be solely responsible for any Breach of Security by any of his employees.
20. **Place of Delivery.** Items should be delivered to respective NSD/ NSSD.
21. **Price Quotation.** All prices are to be quoted in taka including VAT/ Taxes and other dues.
22. **Consignee.** Officer-In-Charge, NSSD Dhaka, Namapara, Khilkhet, Dhaka-1229.


23.4.26
MD MOINUL ISLAM
Lt BN
Officer-in-Charge
Telephone Exchange
Directorate of Signals
Date:

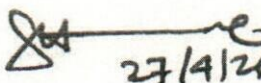

HASAN AL-AshRAF
Lt Commander BN
Staff Officer (NS-2)
Naval Headquarters
Banani, Dhaka-1213
Date:


KHALID MUNTASIR
Lt Commander BN
Staff Officer (Radio Electrical)
Directorate of Naval Weapons
and Electrical Engineering
NHE, Banani, Dhaka-1213
Date:


26/4/26
MD ABU SAZID
Lt Commander BN
Staff Officer (Repair)
Directorate of Naval Engineering
Naval Headquarters
Banani, Dhaka-1213
Date:


26/4
ZAYNAL ABEDIN MAHBUB
Captain BN
Director of Signals
Naval Headquarters
Date:


26/4/26
M SOHEL AZAM
Captain BN
Director of Naval Plans
Naval Headquarters
Banani, Dhaka-1213
Date:


27/4/26
MD SHAMSUL HAQUE
Commodore BN
Director of Naval Operations
Naval Headquarters
Banani, Dhaka-1213
Date: