

TENDER SPECIFICATION – SUPPLY AND INSTALLATION OF CABLES WITH VARIOUS NECESSARY ITEMS FOR BN PABX

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

Ser	Description of items	Quantity	Bidder response
NHQ			
1.	PA to Boss Machine	12 in no	
2.	PA to Boss Telephone set	10 in no	
3.	USB Headphone set for operator board console	06 in no	
4.	Multifunctional tool set	01 Box	
5.	Laser Light	02 in no	
6.	Insulating Tap	12 in no	
7.	Pencil Battery	500 Pcs	
8.	Jumper Cable	500 Mtr	
9.	100 Pair underground Copper Cable	500 Mtr	
10.	Duct pipe	500 Mtr	
11.	Cable Termination Cabinet Box (H-30" B- 24" W-8")	01 in no	
12.	Cable Termination Cabinet Box (H-18" B-18" W-6")	03 in no	
13.	9U Rack (H-600mm X W-600 mm X D-500mm)	04 in no	
14.	Ethernet Gigabit Router	03 in no	
15.	Cat-6 Cable (305 Mtr per box)	02 Box	
16.	ElectricPower Cable	100 mtr	
17.	Patch Cord SC/SC	10 in no	
18.	Cable Tie 8"	3 pkt	
19.	Combined Switch Socket	10 Pcs	
20.	TJ Box	03 Box	
21.	Cable Wiring	200 Mtr	
22.	Road Boring	15 Mtr	
23.	Open Cutting	500 Mtr	
24.	Installation and Commissioning	01 Job	
BNS DHAKA			
25.	Rack Steel (L-10" H-8" B- 2")	01 in no	
26.	Rack Steel (L-8" H-8" B- 2")	01 in no	
BNS ISSA KHAN			
27.	Optical Fiber Cable (06 core)	1500 mtr	
BNS TITUMIR			
28.	IP Telephone Set Compatible with Karel PABX	50 in no	
29.	Executive IP Telephone Set Compatible with Karel PABX	50 in no	
30.	100 pair Underground Copper Cable	200 mtr	
31.	PoE Switch 04 Port	70 in no	
32.	FXS/ FXO Gateway	10 pair	
33.	ATA Adapter	20 in no	
34.	5 Port Extension Board	50 in no	
BNS NIRVIK			
35.	Rectifier with Charger	01 in no	



Ser	Description of items	Quantity	Bidder response
36.	Battery for UPS	06 in no	
BNS BHATIARY			
37.	Media Converter, 2 Channel 220V AC	04 pair	

2. **Purpose.** Expansion of telecommunication network, providing telephone connection for regular operational requirement and replacement of damaged various cables with necessary items.

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. **PA to Boss Machine.**

Ser	Features	Specification
1.	Name of Item	8 Port PA to Boss Machine
2.	Brand	To be mentioned
3.	Model	To be mentioned
4.	Country of Origin	Vietnam/ Malaysia/ Japan/USA (To be mentioned)
5.	Country of Manufacturer	To be mentioned
6.	Year of Manufacturing	2025 or later

b. **PA to Boss Telephone Set.**

Ser	Features	Specification
1.	Name of Item	PA to Boss Telephone Set
2.	Brand	To be mentioned
3.	Model	To be mentioned



4.	Country of Origin	Vietnam/Malaysia/Japan/USA (To be mentioned)
5.	Country of Manufacturer	To be mentioned
6.	Year of Manufacturing	2025 or later

c. **USB Headphone set for operator board console.**

Ser	Features	Specification
1.	Name of Item	USB Headset
2.	Brand	Plantronics
3.	Model	Blackwire 3325
4.	Color	Black/ White
5.	Country of Origin	USA/Japan/Thailand/Malaysia (To be mentioned)
6.	Country of Manufacturer	To be mentioned
7.	Year of Manufacturing	2024 or later

d. **Multifunctional Tool Set**

Ser	Features	Specification
1.	Name of item	Multifunctional Tool Set
2.	Quantity	1 box
3.	No of tools	48 pcs
4.	Brand	Hozan/ Equivalent
5.	Model	To be mentioned
6.	Country of Origin	Japan/ Malaysia/USA/UK (To be mentioned)
7.	Year of manufacture	2025 or later

e. **Laser Light.**

Ser	Name of equipment	Specification
1.	Country of origin	Laser light EU countries/USA/Australia/Japan/UK (To be mentioned)
2.	Country of manufacture	To be mentioned
3.	Year of manufacture	2025 or later
4.	Type of light	Class 1
5.	Weave length	632.8nm
6.	Size/ Dimension	Medium
7.	Power output	5 mw or more
8.	Lighting color	Red/ Green
9.	Body material	Metal
10.	Operating temperature	To be mentioned
11.	Battery type	Rechargeable
12.	Distance covered	20 km or more
13.	Weight	To be mentioned

f. **100 Pair Underground Copper Cable**

Ser	Features	Specification
1.	Name of Item	Underground copper cable jelly filled
2.	Number of Pair	100 Pair (0.4 mm)
3.	Manufacturer	BRB/ BCSL/ Paradise (To be mentioned)
4.	Year of Manufacturing	2025 or later



g. Duct Pipe (50/43)

Ser	Features	Specification
1.	Name of Equipment	Duct Pipe
2.	Brand	RFL/ Navana/ BCSL (To be mentioned)
3.	Colour	Green/ Yellow
4.	Dia	50/43mm
5.	Year of manufacture	2025 or later

h. 9U Rack with accessories

Ser	Features	Specification
1.	Name of Item	9U Rack
2.	Brand	To be mentioned
3.	Model	To be mentioned
4.	Dimension	H-600mm X W-600 mm X D-500mm)
5.	Manufacturer	To be mentioned
6.	Color	To be mentioned
7.	Year of Manufacturing	2025 or later

j. Ethernet Gigabit Router

Ser	Features	Specification
1.	Name of Item	Ethernet Gigabit Router
2.	Brand	To be mentioned
3.	Model	To be mentioned
4.	Country of Origin	EU Countries/USA/Germany/Turkey/UK (To be mentioned)
5.	Country of Manufacture	To be mentioned
6.	Year of manufacture	2025 or later

k. Cat-6 cable.

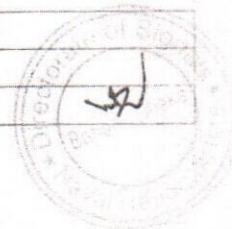
Ser	Features	Specification
1.	Type	100% copper
2.	Brand	Rosenberger/ BRB/ AirNet (To be mentioned)
3.	Country of origin	Germany/ Bangladesh/ USA (As per brand)
4.	Country of Manufacturer	To be mentioned
5.	Year of manufacture	2025 or later

l. Electric Power Cable.

Ser	Features	Specification
1.	Name of Item	Electric cable
2.	Manufacturer	BRB/BBS/EASTERN
3.	RM	2.0
4.	Year of Manufacturing	2025 or later

m. Patch Cord (SC/SC)

Ser	Features	Specification
1.	Name of item	Patch cord
2.	Brand	To be mentioned



3.	Type	SC/SC
4.	Year of manufacture	2025 or later

n. **TJ Box.**

Ser	Features	Specification
1.	Name of item	TJ Box
2.	No of Channel	10
3.	Colour	Black
4.	Year of manufacture	2025 or later

p. **Optic Fiber Cable (06 core)**

Ser	Features	Specification
1.	Name of Item	Optical fiber cable
2.	Number of core	06 core
3.	Manufacturer	BRB/ BCSL/ Paradise (To be mentioned)
4.	Year of Manufacturing	2025 or later

q. **IP Telephone Set compatible with Karel PABX**

Ser	Features	Specification
1.	Type	IP Telephone set
2.	Quantity	50
3.	Brand	To be mentioned
4.	Model	To be mentioned
5.	Country of Origin	Japan/Turkey/USA (To be mentioned)
6.	Country of Manufacturer	USA/Japan/Thailand/Singapore/Turkey/Malaysia (To be mentioned)
7.	Color	Black/White
8.	Source of supply	To be mentioned
9.	Port of shipment	The port of country of origin/ manufacture to be mentioned (If applicable)
10.	Year of Manufacture	2025 or later
11.	The proposed telephone set should have the following features:	
	a. Display and Indicator	
	b. HD voice: HD handset, HD speaker	
	c. One VoIP account	
	d. One-touch speed dial, hotline	
	e. Call recording	
	f. Call forward, call waiting, call transfer	
	g. Call history: dialed/received/missed/forwarded	
	h. Redial, call return, auto answer	
	j. Local 5-way conferencing	
	k. Set date time manually or automatically	
	l. Caller ID with name and number	
	m. 6 features keys: transfer, message, headset, redial, mute, hands-free speakerphone	

r. Executive IP Telephone (compatible with Karel PABX)

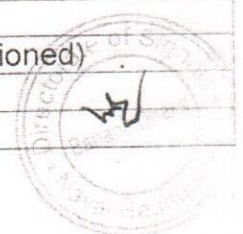
Ser	Features	Specification
1.	Type	Executive IP Telephone set
2.	Quantity	50
3.	Brand	To be mentioned
4.	Model	To be mentioned
5.	Power source	Telephone line/ Adapter/ Adapter with Battery.
6.	Country of Origin	Japan/ Turkey/ USA (To be mentioned)
7.	Country of Manufacturer	USA/ Japan/ Thailand/Singapore/Turkey/Malaysia (To be mentioned)
8.	Colour	Black/white
9.	Source of supply	To be mentioned
10.	Port of shipment	The port of country of origin/ manufacture to be mentioned (If applicable)
11.	Year of Manufacturing	2025 or later
12.	The proposed telephone set should have the following features:	
	a.	3.66" (240x120-pixel) graphical LCD with backlight
	b.	LED for call and message waiting indication
	c.	HD handset, HD speaker & Full-duplex hands-free speakerphone with AEC
	d.	Caller ID with name & number
	e.	Intuitive user interface with icons and soft keys
	f.	6 VoIP accounts
	g.	One-touch speed dial/redial
	h.	Call forward, call waiting & music on hold
	j.	Mute, auto answer & DND
	k.	3-way conference call
	l.	Call history (dialed, received, missed & forwarded)
	m.	Message Waiting Indicator (MWI)
	n.	Dual-color (red or green) illuminated LEDs for line status information

s. PoE Switch (04 port)

Ser	Features	Specification
1.	Type	Manageable
2.	Number of port	04 port
3.	Brand	Cisco/ Netgear/ TP-Link
4.	Model	To be mentioned
5.	Country of Origin	USA/ EU Countries/ UK (To be mentioned)
6.	Country of Manufacture	To be mentioned
7.	Power Supply	Input AC 100 - 220 V 50/ 60Hz , Output 53.5V DC
8.	Year of manufacture	2025 or later

t. FXS/ FXO Gateway

Ser	Features	Specification
1.	Name of Equipment	FXS Gateway with Gigabit NAT Router
2.	Brand	Grandstream
3.	Model	To be mentioned
4.	Country of origin	USA/ EU Countries/ UK (To be mentioned)
5.	Country of manufacture	To be mentioned
6.	Number of Port	4/8 Port



7.	Number of line	08
8.	Audio Conferencing	3 Way voice conferencing per Port
9.	Network Interface	Two (2) 10/100/1000 Mbps
10.	ED Indicators	Power, LAN, WAN, PHONE1-8
11.	Telephone Features	Caller ID display or block, call waiting, flash, blind or attended transfer, forward, hold, do not disturb, 3-way conference
12.	Year of manufacture	2025 or later

u. **ATA Power Adapter**

Ser	Features	Specification
1.	Name of item	ATA Power Adapter
2.	Brand	Grandstream
3.	Country of origin	USA/ EU Countries/ UK (To be mentioned)
4.	Country of manufacture	To be mentioned
5.	Power Supply	Input- 100-240VAC, Output- 12v DC
6.	Year of manufacture	2025 or later

v. **Rectifier with accessories.**

Ser	Features	Specification
1.	Name of item	Rectifier with accessories
2.	Capacity	3 KW
3.	Redundancy	N+1
4.	Brand	To be mentioned
5.	Model	To be mentioned
6.	Country of Origin	USA/UK/Germany/Japan (To be mentioned)
7.	Country of Manufacturer	To be mentioned
8.	Frequency	45-70Hz
9.	Output Voltage	45-48V DC
10.	Input Voltage	150-230V AC
11.	Year of manufacture	2025 or later
12.	Bidder will provide following items with rectifier	
	32 Amp Double pole breaker	01 no
	Multi plug (5 point each)	03 no
	Battery loop cable	4 mtr
	25RM Cable socket	18 no

w. **Battery for UPS**

Ser	Features	Specification
1.	Name of item	Battery
2.	Brand	Diamac/Long/KStar
3.	Model	To be mentioned
4.	Country of Origin	USA/ EU Countries/ UK (To be mentioned)
5.	Country of Manufacturer	To be mentioned
6.	Voltage	12v DC
7.	Ampere	9Ah
8.	Year of manufacture	2025 or later



x. **Media Converter**

Ser	Features	Specification
1.	Name of item	Media converter with adopter
2.	Brand	D-Link/ TP Link (To be mentioned)
3.	Model	To be mentioned
4.	Country of Origin	Taiwan/ China (To be mentioned)
5.	Country of Manufacturer	To be mentioned
6.	Year of manufacture	2023 or later

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

- a. Bidder has to complete fitting and fixing of all kinds of items stated in above in respective Units.
- b. Bidder has to quote itemized price list mentioning unit price for the work, labour cost 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 subscriber's telephone lines and all other equipments are fully operational.

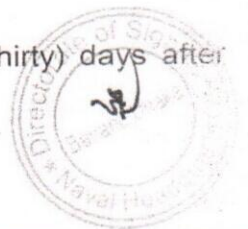
13. **Test, Trial and Acceptance.** On completion of the work, Supplier will carry out functional test/ trial in presence of users representatives. Upon satisfactory completion of the test and trials, respective Commanding Officer/ OIC Tel Exchange will issue performance certificate to CINS Chattogram/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

14. **Warranty.**


- a. Warranty for 01 (One) 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.** issuance of the work order by BN.


All work is to be completed within 30 (thirty) days after




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, ACINS Dhaka and ACINS Khulna.
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
Member Secy
MD MOMINUL ISLAM
Lt BN
Officer in Charge
NHQ Telephone Exchange
Directorate of Signals
Date:

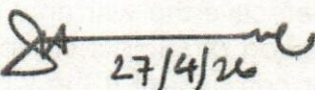

HASAN ALASHRAF
Lt Commander BN
Staff Officer (NS-2)
Naval Headquarters
Banani, Dhaka-1213
Date:


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


26/04/26
MD ABU SUFIAN
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
Member
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
Commander BN
Director of Naval Operations
Naval Headquarters
Banani, Dhaka-1213
Date:

x. **Media Converter**

Ser	Features	Specification
1.	Name of item	Media converter with adopter
2.	Brand	D-Link/ TP Link (To be mentioned)
3.	Model	To be mentioned
4.	Country of Origin	Taiwan/ China (To be mentioned)
5.	Country of Manufacturer	To be mentioned
6.	Year of manufacture	2023 or later

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

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- 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 subscriber's telephone lines and all other equipments 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/ ACINS Khulna who will issue Final Acceptance Certificate.

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- a. Warranty for 01 (One) 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.

