

**TENDER SPECIFICATION SPARE PARTS FOR SPARE PARTS FOR TECHNICAL DATA LINK (TDL) SYSTEM
(BRAND: TECHNOBIT) (QTY: 17 L/I)**

1. **Name of the Equipment** : Technical Data Link (TDL) System
2. **Purpose** : The item will be required for both scheduled and unscheduled maintenance.
3. **Quantity** : 17 Line Item (List Attached Encl-2)
4. **Country of Origin** : As Per Technical Specification.
5. **Country of Manufacturer** : USA, Austria, Belgium, Denmark, Finland, France, Germany, Italy, Netherland, Spain, Sweden, UK, Japan, Canada
6. **Source of Supply** : Name & full address of source of supply is to be mentioned.
7. **Brand** : As Per Technical Specification.
8. **Model** : As Per Technical Specification.
9. **Supplier/Local Agent** : Name & full address **with email** of supplier is to be mentioned.
10. **Principal/Distributor** : Name & full address **with email** of supplier is to be mentioned.
11. **Year of Manufacture** : 2024 or later.
12. **Port of Shipment** : To be mentioned.
13. **Mode of Shipment** : To be mentioned.
14. **Original Equipment Manufacturer (OEM) Address:** As Per Technical Specification.

15. **Bidder's Qualification.** The Supplier must be enlisted at DGDP. The supplier must be commercially competent in trading technical stores. The concerned supplier is expected to have adequate knowledge in understanding all the technical criteria and ability to fulfill those in clear terms given in the indent. The supplier has to ensure that the source is either to be manufacturer or dealer/agent of the respective manufacturer (having clear existence in the manufacturer's authorization and website/fax & e-mail address) or sub-agent of the respective agent (having authorization from authorized dealer).

16. **Certificate and Document of Authentication.** The concerned supplier must provide following original certificate(s)/ document(s) as applicable with the quotation and during delivery of items as regard to the genuinity of source and item(s) in order to establish chain of links from the original source to supply items:

- a. One certificate by the Original Equipment Manufacturer (OEM) in favour of the local supplier (in case of OEM as principal).
- b. Two certificates, one by the OEM to authorized dealer/agent and other by the authorized dealer/agent to supplier (in case of authorized dealer/agent as principal).
- c. Three certificates, first one by OEM to authorized dealer/agent, second one by authorized dealer/agent to sub-agent and third one by sub-agent to supplier (in case of sub-agent as principal). If the supplier is unable to obtain the first certificate (by OEM to authorized dealer/agent), then it has to produce relevant document to prove agency-ship of its claimed agent of the recognized manufacturer.

d. Except otherwise the spares is not manufactured by OEM then the certificate of spares' manufacturer or its authorized dealer/distributor may be considered subject to confirmation

17. **Essential Requirement.**

a. The bidder must mention it's full name and address along with the chain of concerned source(s) i.e. manufacturer, agent and sub-agent with the offer as applicable from whom it has to collect certificate(s)/ document(s).

b. If the quoted part/ pattern no of item(s) is/ are dissimilar from the indented one because of recent modification or any other technical reason, then the supplier must provide an original certificate from manufacturer in favor of substitute and adequate information/ instruction in this regard, if so necessary. The offered spare shall perfectly match with the said model of the equipment; but if does not match, it will have to be replaced at free of cost including freight charge.

c. The bidder is to quote the cost of each line item including number of units and unit price in clear terms. In case of partial order of quoted spare parts/ item(s), the total price will be calculated basing on number of units of each line item and unit price.

d. The bidder/ local supplier is not allowed to supply from local obtained off the shelf or locally manufactured/ fabricated item.

e. **Minimum Order of Quantity or Value:** To be mentioned (If item wise lowest bidder's price does not match with Minimum Order Quantity, then total offer will be treated as cancelled).

f. The supplier cannot disagree to supply the items, if the acceptance is given for minimum 25% of total quoted price.

g. Financial evaluation of offer will be done for each line item separately. Accordingly, acceptance for all or part of the quoted line items will be given to a single or a number of bidder(s). In doing so, if any supplier shows inability or disagrees to supply the ordered spares under para. The respective offer will be considered as "Technically Not Complied".

h. The supplier must mention with its quotation about the requirement of End User Certificate (EUC), the format of which has been approved by Bangladesh Govt. In exceptional case (not expected), if the same EUC format does not serve the purpose, this is to be intimated in the quotation along with the format given by the source of supply.

18. **Guarantee and Warranty.**

a. The supplier must ensure that all items are new and unused. The supplier must provide warranty for at least for 01 (one) year from the date of acceptance of the item(s) after satisfactory inspection, test, trial etc as applicable. If any defect/ discrepancy of any item arises within the period of warranty, the specific period from the date of notification of the defect/ discrepancy to the supplier up to the date of rectification of defect/ resolve of discrepancy will have to be deducted from the warranty period for that particular item(s).

b. If any defect/ discrepancy arises, within warranty period, then the respective item(s) is/ are to be replaced at free of cost including freight within 03 (three) months from the date of notification of the same to the supplier. In this regard, the supplier must furnish an undertaking with the offer by stating, "I do hereby assure that we take the liability to replace all spare parts/ item(s) at free of cost including freight within three months from the date of notification about the defect/ discrepancy of the spare parts/ item(s) by the buyer, if it occurs within the period of warranty".

c. For warranty repair/ replacement, the supplier will collect the defective portable item from NSD Chattogram/NSSD Dhaka and re-supply the same to collecting place after warranty repair or replacement.



19. **Pre-Shipment Inspection (PSI).**

- a. Pre-Shipment Inspection (PSI) will be carried out by a team of 02 (two) BN officers for a duration of 03 (three) working days excluding journey period, at the buyer's expense (including return air ticket, food and accommodation). The supplier should inform the buyer about the date of PSI (schedule) at least 08 (eight) weeks prior to the date of commencement of the PSI. The PSI criteria for the items will be forwarded by the supplier along with the PSI schedule.
- b. All types of movement/transportation within the manufacturer/supplier's country, reception and arrangement for entry into the country/concerned area for the PSI team are to be arranged by the supplier.
- c. On return from the country of supplier, the PSI team will submit report to concerned directorate of NHQ. NHQ concerned directorate will, in turn, forward final decision within 3 weeks, basing on which DGDP will render clearance for shipment of stores to the supplier concerned. The supplier will not make shipment of any item of the contract without clearance from the DGDP.

20. **Shipment, Delivery and Inspection.**

- a. **Shipment.** The items are to be delivered (**Without Import Duties**) within **09 (Nine)** months from the date of signing the contract to the following consignee.

The Commanding Officer
Naval Stores Depot
New Mooring, Chattogram,
Bangladesh

or Officer In Charge
Naval Stores Sub Depot Dhaka
Naval Unit Khilkhet
Namapara, Dhaka-1229, Bangladesh

- b. **Place of delivery.** NSD, Chattogram.
- c. **Inspection Authority.** CINS, Chattogram.

21. Part shipment is not allowed.

22. LC will be opened for CFR/CPT value. However, payment will be made as per following steps:

- a. Payment of **80%** of CFR/CPT value will be made on submission of shipping documents.
- b. Payment of remaining **20%** will be made after satisfactory acceptance of all the items i.e. after inspection/ test/ trial as applicable.

23. **Validity.** Offer must be valid up to **30 Jun 2026.**

24. **Packing.** Standard Packing.

25. **Liquidate Damage (LD).** As per DGDP Rules.

26. **Certificate/ Document.** Following certificates are to be provided as original from the manufacturer in regard to the supplied spares as new, unused and genuine at the time of delivery:

- a. Authenticity and Genuineness Certificate.
- b. Quality Assurance Certificate.
- c. Warranty Certificate.

27. All terms and conditions of DGDP also remain valid. If any of the above terms and conditions contradicts with the terms and conditions laid down in the DGDP rules and regulations, the later shall supersede the same.

**LIST OF SPARE PARTS FOR TDL SYSTEM- COMFLOT WEST OPS ROOM, BNS ALI HAIDER,
BNS DHALESHWARI, BNS DURGAM & BNS PROTTASHA**

Ser	Description of Item	Part No	Deno	Qty	Ships
1.	VHF/UHF Radio Model: 721S Brand: Rockwell Collins	-	No	01	COMFLOT WEST OPS ROOM
2.	VHF/UHF Filter Model: E80551 Brand: Rockwell Collins	270-3148-304	No	01	
3.	I/O MODULE OF VITAL PC (GROUND) Model: APRASYS Brand: NRKD-KVMU-19b-8	-	No	01	
4.	Keyboard Video Mouse (KVM)		No	01	
5.	Power Amplifier Model: PA-2220A	270-2695-020	No	01	
6.	VHF SNC (TDL) Model: SDPC Brand: SNC-2050	822-2590-001 Rev.I	No	01	BNS ALI HAIDER
7.	VHF Filter Model: E80551 Brand: Rockwell Collins	270-3148-304	No	01	
8.	CMOS Battery Model: BR2032 Type: Coin type 3 legs Output Voltage: 3V Capacity: 200 mah	BR2032	No	05	
9.	VHF/UHF Radio Model: 721S-XB Brand: Rockwell Collins	-	No	01	BNS DHALESHWARI
10.	CMOS Battery Model: BR2032 Type: Coin type 3 legs Output Voltage: 3V Capacity: 200 mah	BR2032	No	05	
11.	VHF/UHF Filter Model: E80551 Brand: Rockwell Collins	270-3148-304	No	01	
12.	Open Link PC Model: 40102044	-	No	01	
13.	CMOS Battery Model: BR2032 Type: Coin type 3 legs Output Voltage: 3V Capacity: 200 mah	BR2032	No	05	BNS DURGAM
14.	CMOS Battery for Open Link PC Model: BR2032 Type: Coin type 3 legs Output Voltage: 3V Capacity: 200 mah	Panasonic CR2032	No	01	
15.	Handset	H-250/U	No	01	
16.	VHF/UHF Radio Transceiver Model: 721S-4B Brand: Rockwell Collins	-	No	01	BNS PROTTASHA
17.	VHF Filter Model: E80551 Brand: Rockwell Collins	270-3148-304	No	01	



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**TECHNICAL SPECIFICATION OF TACTICAL DATA LINK (VHF/UHF RADIO)
COMFLOT WEST (OPS ROOM)**

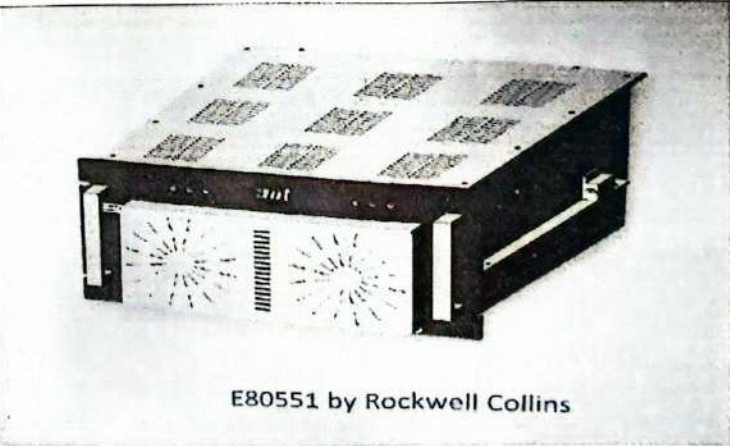
Ser	Particular	Description	
1.	Name of Item	VHF/UHF RADIO	
2.	Quantity	01 (ONE)	
3.	Part no	-	
4.	Name of Main Equipment	TACTICAL DATA LINK (TDL)	
5.	Brand	Rockwell Collins	
6.	Model	721S	
7.	Technical Parameter	Operating Frequency	30-512 MHz(available)
		Channel Spacing & Modulation modes	25kHz(AM DSB, FM) 12.5 KHz (AM DSB, FM) 8.33 KHz (AM DSB in VHF ATC Band)
		Receiver Sensitivity	-103.5dBm, AM voice -108 dBm FM voice -97 dBm AM or FM WB
		Transmit Power	100 W FM. 30 W AM
		Power Input	85 to 264 VAC, 47-63Hz or 24 to 30
		Operating temp	-30°C to +55°C
8.	Country of Origin	USA	
9.	Country of Manufacturer	USA	
10.	Year of Manufacturer	2024 or Latter	
11.	Source of Supply	To Be Mentioned	
12.	Port of Shipment	To Be Mentioned	
13.	Manufacturer Address	400 Collins Road NE MS 153-220, Cedar Rapids, Iowa 52498 Phone: 319.378.3500 Fax: 319.378.9446 E-mail: collinssintertradeaog@collins.com Aerospace Industry defense, USA	
14.	Supplier/Local Agent	-	
15.	Certificate and Document of Authentication	a. OEM Certificate b. Warranty Certificate	
16.	Packing/ Labeling	-	
17.	Warranty	At least 12 months from the date of acceptance	
18.	Installation	Installation work has to be done by Supplier if required	
19.	Test/ Trail and Acceptance	Acceptance will be carried out by CINS	
20.	Site Visit	-	
21.	Picture	 721S by Rockwell Collins	



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TECHNICAL SPECIFICATION OF TACTICAL DATA LINK (VHF/UHF filter)
COMFLOT WEST (OPS ROOM)

Ser	Particular	Description	
1.	Name of Item	VHF/UHF Filter	
2.	Quantity	01 (ONE)	
3.	P/N	270-3148-304	
4.	S/N	18030739	
5.	Brand	Rockwell Collins	
6.	Model	E80551	
7.	Technical Parameter	Frequency Range	100-450 MHz
		Frequency Steps	25kHz
		Power Input	28VDC, 1.5A (each filter)
8.	Dimensions	483x527x221.4	
9.	Weight	26 kg	
10.	Country of Origin	USA	
11.	Country of Manufacturer	USA	
12.	Year of Manufacturer	2024 or Latter	
13.	Source of Supply	To Be Mentioned	
14.	Port of Shipment	To Be Mentioned	
15.	Manufacturer Address	400 Collins Road NE MS 153-220, Cedar Rapids, Iowa 52498 Phone: 319.378.3500 Fax: 319.378.9446 E-mail: collinssintertradeaog@collins.com Aerospace Industry defense, USA	
16.	Certificate and Document of Authentication	a. OEM Certificate b. Warranty Certificate	
17.	Warranty	At least 12 months from the date of acceptance	
18.	Installation	Installation work has to be done by Supplier if required	
19.	Test/ Trail and Acceptance	Acceptance will be carried out by CINS	
20.	Picture	 E80551 by Rockwell Collins	



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TECHNICAL SPECIFICATION OF TACTICAL DATA LINK I/O MODULE OF VITAL PC (GROUND)
COMFLOT WEST (OPS ROOM)

Ser	Particular	Description
	Name of Item	I/O MODULE OF VITAL PC (GROUND)
1.	Quantity	01 (ONE)
2.	Part no	-
3.	Name of Main Equipment	TACTICAL DATA LINK (TDL)
4.	S No	2111810184023-5GZ-01
5.	Model	NRKD-KVMU-19b-8
6.	Technical Parameter	Operating Frequency
		30-512 MHz(available)
		Channel Spacing & Modulation modes
		25kHz(AM DSB, FM) 12.5 KHz (AM DSB, FM) 8.33 KHz (AM DSB in VHF ATC Band)
		Receiver Sensitivity
		-103.5dBm, AM voice -108 dBm FM voice -97 dBm AM or FM WB
		Transmit Power
		100 W FM. 30 W AM
		Power Input
		100-24 V, 50-60 Hz, 1.5 Amps
		Operating temp
		-30°C to +55°C
7.	Country of Origin	USA
8.	Country of Manufacturer	USA
9.	Year of Manufacturer	2024 or Latter
10.	Source of Supply	To Be Mentioned
11.	Port of Shipment	To Be Mentioned
12.	Manufacturer Address	400 Collins Road NE MS 153-220, Cedar Rapids, Iowa 52498 Phone: 319.378.3500 Fax: 319.378.9446 E-mail: collinssintertradeaog@collins.com Aerospace Industry defense, USA
13.	Supplier/Local Agent	-
14.	Certificate and Document of Authentication	a. OEM Certificate b. Warranty Certificate
15.	Packing/ Labeling	-
16.	Warranty	At least 12 months from the date of acceptance
17.	Installation	Installation work has to be done by Supplier if required
18.	Test/ Trail and Acceptance	Acceptance will be carried out by CINS
19.	Site Visit	-
20.	Picture	

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TECHNICAL SPECIFICATION OF TACTICAL DATA LINK KEYBOARD VIDEO MOUSE (KVM)
COMFLOT WEST (OPS ROOM)

Ser	Particular	Description
	Name of Item	KEYBOARD VIDEO MOUSE (KVM)
1.	Quantity	01 (ONE)
2.	Part no	-
3.	Name of Main Equipment	TACTICAL DATA LINK (TDL)
4.	S No	2111810184023-5GZ-01
5.	Model	NRKD-KVMU-19b-8
6.	Country of Origin	USA
7.	Country of Manufacturer	USA
8.	Year of Manufacturer	2024 or Latter
9.	Source of Supply	To Be Mentioned
10.	Port of Shipment	To Be Mentioned
11.	Manufacturer Address	400 Collins Road NE MS 153-220, Cedar Rapids, Iowa 52498 Phone: 319.378.3500 Fax: 319.378.9446 E-mail: collinssintertradeaog@collins.com Aerospace Industry defense, USA
12.	Supplier/Local Agent	-
13.	Certificate and Document of Authentication	a. OEM Certificate b. Warranty Certificate
14.	Packing/ Labeling	-
15.	Warranty	At least 12 months from the date of acceptance
16.	Installation	Installation work has to be done by Supplier if required
17.	Test/ Trail and Acceptance	Acceptance will be carried out by CINS
18.	Site Visit	-
19.	Picture	



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TECHNICAL SPECIFICATION OF POWER AMPLIFIER FOR HF RADIO
COMFLOT WEST (OPS ROOM)

Ser	Particulars	Description		
1.	Name of equipment	Power Amplifier for HF Radio		
2.	Quantity	01		
3.	Part No	270-2695-020		
4.	Model	To be mentioned		
5.	Name of main equipment	TDL		
6.	Standard/Brand	Rockwell Collins		
7.	Technical Parameter	a.	Supply	24V DC - 10%+30%
		b.	Power consumption	To be mentioned
		c.	Protection	Against over - voltage, Low voltage & inversion of polarity
		d.	Weight	To be mentioned
		e.	Dimensions (W x D x H)	To be mentioned
		f.	Operating temperature	To be mentioned
		g.	Storage temperature	To be mentioned
8.	Country of origin	To be mentioned		
9.	Country of manufacture	To be mentioned		
10.	Year of manufacture (spares)	2024 or Later		
11.	Source of Supply	To be mentioned		
12.	Port of shipment	To be mentioned		
13.	Manufacturer's name and address	To be mentioned		
14.	Supplier/Local agent	To be mentioned		
15.	Certificate and Document of authentication	a.	Warranty certificate	
		b.	Certificate of conformance	
		c.	Others (if any)	
16.	Packing	Items should be brand new and packed with original packing		
17.	Warranty	01 year from the date of acceptance by CINS		
18.	Installation	To be mentioned		
19.	Test, trial and acceptance	Test & trial will be conducted on board ship		
20.	Site visit	NA		
21.	Training	NA		
22.	Picture			



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TECHNICAL SPECIFICATION OF VHF SNC MotherBoard PCB (TDL)
BNS ALI HAIDER

Ser No	Particulars	Description (for Example)
1.	Name of Item	VHF SNC(TDL)
2.	Quantity	01
3.	Brand	To be Mentioned
4.	Model	SDPC-2050MKII
5.	Type	SNC-2050
6.	SER no	6314
7.	PART no	822-2590-001 Rev. I
8.	CAGE code	L0335
9.	Input power	100-240 VAC,50-60Hz,0.8A
10.	Ethernet	Dual 10/100 Mbps.
11.	Operating temperature	0° C to +50° C.
12.	Storage temperature	-40° C to +70° C.
13.	Video	SVGA output for embedded GUI
14.	Size	8.74"W x 1.75"H x 19.25"D
15.	Relative Humidity	0 to 95%, non-condensing
16.	Year of Manufacture	2023 or Later
17.	Country of Manufacture	USA/CANADA
18.	Country of Origin	USA/CANADA
19.	Warranty	At least 12 months from date of acceptance
20.	Image	



TECHNICAL SPECIFICATION OF TACTICAL DATA LINK (VHF/UHF filter)
BNS ALI HAIDER

Ser	Particular	Description	
1.	Name of Item	VHF/UHF Filter	
2.	Quantity	01 (ONE)	
3.	P/N	270-3148-304	
4.	S/N	18030739	
5.	Brand	Rockwell Collins	
6.	Model	E80551	
7.	Technical Parameter	Frequency Range	100-450 MHz
		Frequency Steps	25kHz
		Power Input	28VDC, 1.5A (each filter)
8.	Dimensions	483x527x221.4	
9.	Weight	26 kg	
10.	Country of Origin	USA/CANADA	
11.	Country of Manufacturer	USA/CANADA	
12.	Year of Manufacturer	2024 or Latter	
13.	Source of Supply	To Be Mentioned	
14.	Port of Shipment	To Be Mentioned	
15.	Manufacturer Address	400 Collins Road NE MS 153-220, Cedar Rapids, Iowa 52498 Phone: 319.378.3500 Fax: 319.378.9446 E-mail: collinssintertradeag@collins.com Aerospace Industry defense, USA	
16.	Certificate and Document of Authentication	a. OEM Certificate b. Warranty Certificate	
17.	Warranty	At least 12 months from the date of acceptance	
18.	Installation	Installation work has to be done by Supplier if required	
19.	Test/ Trail and Acceptance	Acceptance will be carried out by CINS	
20.	Picture		



TECHNICAL SPECIFICATION OF TACTICAL DATA LINK (CMOS Battery)**BNS ALI HAIDER**

Ser	Particular	Description	
1.	Name of Item	CMOS Battery	
2.	Quantity	05 (Five)	
3.	Part no	BR2032	
4.	Brand	Panasonic	
5.	Model	BR2032	
6.	Technical Parameter	Nominal Voltage	3 V
		Nominal Capacity(mAh)	200
		Diameter(mm)	20.0
		Operating Temp	-30°~85°
		Type	Coin type 3 legs
7.	Country of Origin	USA/JAPAN/ITALY	
8.	Country of Manufacturer	USA/JAPAN/ITALY	
9.	Year of Manufacturer	2024 or Latter	
10.	Source of Supply	To Be Mentioned	
11.	Port of Shipment	To Be Mentioned	
12.	Manufacturer Address	400 Collins Road NE MS 153-220, Cedar Rapids, Iowa 52498 Phone: 319.378.3500 Fax: 319.378.9446 E-mail: collinssintertradeaog@collins.com Aerospace Industry defense, USA	
13.	Certificate and Document of Authentication	a. OEM Certificate b. Warranty Certificate	
14.	Warranty	At least 12 months from the date of acceptance	
15.	Installation	Installation work has to be done by Supplier if required	
16.	Test/ Trail and Acceptance	Acceptance will be carried out by CINS	
17.	Picture		



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**TECHNICAL SPECIFICATION OF VHF/UHF RADIO FOR TACTICAL DATA LINK
BNS DHALESHWARI**

Ser	Particular	Description
1.	Name of Item	VHF/UHF Radio
2.	Quantity	01 (One)
3.	P/N	270-3148-032
4.	S/N	2918
5.	Name of Main Equipment	Tactical Data Link (TDL) (BANGLA 22)
6.	Brand	Rockwell Collins
7.	Model/Type	721S-3B
	Technical Parameter Frequency	a. Operating Frequency 30-512 MHz
		b. Channel Spacing & Modulation Modes 25kHz(AM DSB, FM) 12.5 KHz (AM DSB, FM) 8.33 KHz (AM DSB in VHF ATC Band)
		c. Receiver Sensitivity -103.5 dBm, AM voice -108 dBm, FM voice -97 dBm, AM or FM WB
		d. Transmit Power 100 W FM, 30 W AM
		e. Power Input 85 to 264 VAC, 47-63Hz or 24 to 30V DC
		f. Operating Temp -30°C to +55°C
		g. Humidity 5% to 95% non-considering
		h. Reliability ± 50,000 hours MTBF Ground Benign alculated IAW MIL-HDBK-217F
		j. EMI/EMC IAW MIL-STD-461F for Ground, Air Force
		k. RCU Power Input 12-30 Vdc, 15W Max
		l. Frequency Stability ±1 PPM (optional ± 0.1PPM)
		m. Frequency Agility Support ECCM Frequency Hopping Rates up to 500 hps
		n. Audio Distortion <10% Transmit <10% Receive
		p. Audio Characteristics 25 kHz and 12.5 kHz channels Balanced 600 Ohm E&M I/O -15 dBm to +6 dBm Input -10 to + 10 dBm output level into 600Ω (User adjustable) 300-3000 Hz, Xmt (±4 dB from 1kHz) 300-3000 Hz, Rcv (4 dB variation)
8.	Country of Origin	USA/CANADA
9.	Country of Manufacturer	USA/CANADA
10.	Year of Manufacturer	2024 or later
11.	Source of Supply	To be mentioned
12.	Port of Shipment	To be mentioned
13.	Manufacturer Address	Rockwell Collins Customer Response Center 400 Collins Road-NE, MS 153-220 Cedar Rapids, Iowa 52498 phone: 319.378.3500 Fax No: 319.378.9446 E-mail: collinssintertradeaog@collins.com Aerospace Industry defense, USA

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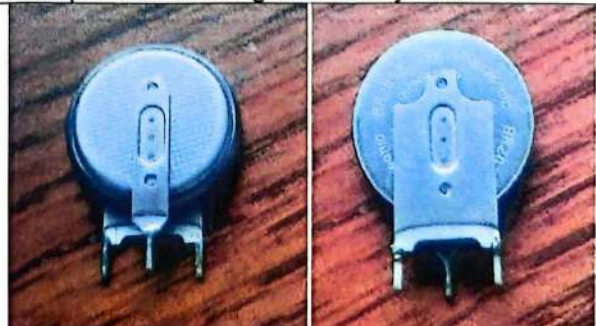


14.	Certificate and Document of Authentication	a. OEM Certificate b. Warranty Certificate
15.	Warranty	At least 12 months from the date of acceptance
16.	Installation	Installation work is to be done by supplier if needed.
17.	Test/ Trail and Acceptance	Acceptance will be given by CINS
18.	Picture	 721S by Rockwell Collins

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TECHNICAL SPECIFICATION OF TACTICAL DATA LINK (CMOS BATTERY)
BNS DHALESHWARI

Ser	Particular	Description	
1.	Name of Item	CMOS Battery	
2.	Quantity	05 (Five)	
3.	Part no	BR2032	
4.	Name of Main Equipment	TACTICAL DATA LINK (TDL)	
5.	Brand	Panasonic	
6.	Model	BR2032	
7.	Technical Parameter	Nominal Voltage	3 V
		Nominal Capacity (mAh)	200
		Diameter (mm)	20.0
		Operating Temp	-30°~85°
		Type	Coin type 3 legs
8.	Country of Origin	USA/SPAIN/ JAPAN/ITALY	
9.	Country of Manufacturer	USA/SPAIN/ JAPAN/ITALY	
10.	Year of Manufacturer	2024 or Later	
11.	Source of Supply	To Be Mentioned	
12.	Port of Shipment	To Be Mentioned	
13.	Manufacturer Address	Rockwell Collins Customer Response Center 400 Collins Road NE, MS 153-220 Cedar Rapids, Iowa 52498 phone: 319.378.3500 Fax No: 319.378.9446 E-mail: collinssintertradeaog@collins.com Aerospace Industry defense, USA	
14.	Certificate and Document of Authentication	a. OEM Certificate b. Warranty Certificate	
15.	Warranty	At least 12 months from the date of acceptance	
16.	Installation	Installation work is to be done by supplier if required.	
17.	Test/ Trail and Acceptance	Acceptance will be given out by CINS	
18.	Picture		

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TECHNICAL SPECIFICATION OF TACTICAL DATA LINK (VHF/UHF FILTER)
BNS DHALESHWARI

Ser	Particular	Description
1.	Name of Item	VHF/UHF Filter
2.	Quantity	01 (ONE)
3.	RC Pin no	270-3148-304
5.	Serial Number	18030729
6.	Name of Main Equipment	TACTICAL DATA LINK (TDL)
7.	Brand	Rockwell Collins
8.	Model	E80551
9.	Technical Parameter	Frequency Range 100-450 MHz
		Frequency Steps 25kHz
		Power Input 28VDC, 1.5A (each filter)
10.	Dimension	483x527x221.4
11.	Weight	26 kg
10.	Country of Origin	USA/CANADA
11.	Country of Manufacturer	USA/CANADA
12.	Year of Manufacturer	2024 or Latter
13.	Source of Supply	To be Mentioned
14.	Manufacture address	Rockwell Collins Customer Response Center 400 Collins Road NE, MS 153-220 Cedar Rapids, Iowa 52498 phone: 319.378.3500 Fax No: 319.378.9446 E-mail: collinssintertradeaog@collins.com Aerospace Industry defense, USA
14.	Port of Shipment	To be Mentioned
15.	Certificate and Document of Authentication	a. OEM Certificate b. Warranty Certificate
16.	Packing/ Labeling	At least 12 months from the date of acceptance
17.	Warranty	Installation work is to be done by supplier if needed.
18.	Installation	Test/ Trial is to be conducted by ship (In Coordination with Data Link Management Center)
19.	Test/ Trail and Acceptance	Acceptance will be given out by CINS
20.	Site Visit	Supplier may conduct site visit if deemed necessary.
21.	Picture	

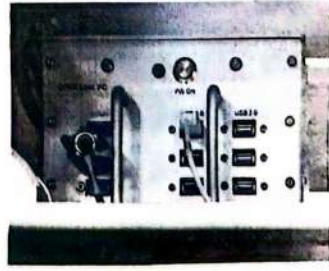


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TECHNICAL SPECIFICATION OF OPEN LINK PC FOR TACTICAL DATA LINK
BNS DHALESHWARI

Ser	Particular	Description
1.	Name of Item	OPEN LINK PC
2.	Quantity	01 (One)
3.	Name of Main Equipment	Tactical Data Link (TDL) (BANGLA 22)
4.	Brand	EPCOTS
5.	Model/Part No	40102044
6.	Technical Parameter	a Power Input 85 to 264 VAC, 47-63Hz or 24 to 30V DC
		b Operating Temp -30°C to +55°C
		c Humidity 5% to 95% non-considering
		d Communication Status TDL, CMS, GPS, SNR VHF, SNR HF, TZ-Link VHF, TZ-Link HF
		e Open Link Begin: AA200 End: AA577
		f Status Link and Listen mode
7.	Country of Origin	USA/SPAIN/ JAPAN/ITALY
8.	Country of Manufacturer	USA/SPAIN/ JAPAN/ITALY
9.	Year of Manufacturer	2024 or later
10.	Source of Supply	To be mentioned
11.	Port of Shipment	To be mentioned
12.	Manufacturer Address	Rockwell Collins Customer Response Center 400 Collins Road NE, MS 153-220 Cedar Rapids, Iowa 52498 phone: 319.378.3500 Fax No: 319.378.9446 E-mail: collinssintertradeaog@collins.com Aerospace Industry defense, USA
13.	Certificate and Document of Authentication	a. OEM Certificate b. Warranty Certificate
14.	Warranty	At least 12 months from the date of acceptance
15.	Installation	Installation work is to be done by supplier if needed.
16.	Acceptance	Acceptance will be given by CINS
17.	Picture (Open Link PC)	



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TECHNICAL SPECIFICATION OF CMOS BATTERY (TDL)
BNS DURGAM

Ser	Particulars	Description
1.	Name of Item	CMOS Battery
2.	Quantity	01
3.	Pattern No	BR2032
4.	Name of Main Equipment	ROCKWELL COLLINSRT-2200 (TDL)
5.	Equipment Brand	Panasonic
6.	Battery Type	Coin Type Primary Lithium Battery
7.	Voltage	3V
8.	Capacity	200mAh
9.	Country of Origin	INDONESIA
10.	Country of Manufacturer	INDONESIA
11.	Year of Manufacturer	2024 or Later
12.	Item Picture:	



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TECHNICAL SPECIFICATION OF CMOS BATTERY FOR OPEN LINK PC (TDL)
BNS DURGAM

Ser	Particulars	Description
1.	Name of Item	CMOS Battery For Open Link Pc
2.	Quantity	01
3.	Pattern No	CR2032
4.	Name of Main Equipment	ROCKWELL COLLINS RT-2200 (TDL)
5.	Item Brand	Panasonic
6.	Battery Type	Coin Type Primary Lithium Battery
7.	Voltage	3V
8.	Capacity	200mAh
9.	Country of Origin (Main Equipment)	INDONESIA
10.	Country of Manufacturer	INDONESIA
11.	Year of Manufacturer	2024 or Later
12.	Item Picture:	



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TECHNICAL SPECIFICATION OF HANDSET (TDL)
BNS DURGAM

Ser	Particulars	Description
1.	Name of Item	Handset
2.	Quantity	01
3.	Pattern No	H-250/U
4.	Name of Main Equipment	ROCKWELL COLLINS RT-2200 (TDL)
5.	Equipment Brand	SONETRONICS
6.	PTT Type	Mechanical Switch Type
7.	IP Protection	IP68
8.	Connector	U-229/U (5 Pin Connector)
9.	Country of Origin	USA
10.	Country of Manufacturer	USA
11.	Year of Manufacturer	2024 or Later
12.	Item Picture:	



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**TECHNICAL SPECIFICATION OF TACTICAL DATA LINK (VHF/UHF RADIO TRANSCEIVER)
BNS PROTTASHA**

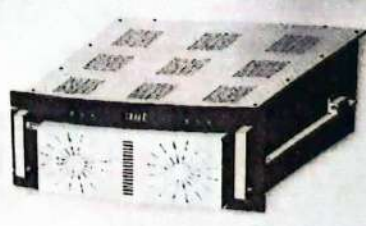
Ser	Particular	Description
1.	Name of Item	VHF/UHF Radio Transceiver
2.	Quantity	01 (One)
3.	Part no	-
4.	Name of Main Equipment	Tactical Data Link (TDL)
5.	Brand	Rockwell Collins
6.	Model	721S-4B
7.	Technical Parameter	Frequency Range
		30-511.975 MHz
		Frequency Steps
		12.5 and 25 kHz (AM DSB, FM)
		Modulation mode
		8.33 KHz (AM DSB)
		Transmit Power
		100W FM, 30W AM
		Power Input
		85 to 264VAC, 47-63 Hz 500W Max
		24 to 30VDC
		User Interface
		LCD Touchscreen provides operational control & RT status display for up to 5 radios
		LCD Touchscreen
		Soft Key Frequency & Mode Selection Input
		LCD Display
		LCD displays user options
8.	Country of Origin	USA
9.	Country of Manufacturer	USA
10.	Year of Manufacturer	2024 or latter
11.	Source of Supply	To be mentioned
12.	Port of Shipment	To be mentioned
13.	Manufacturer Address	Rockwell Collins Customer Response Center 400 Collins Road NE, M/S 133-100 Cedar Rapids, IA 52498-0001 Telephone: 1.888.265.5467 International: 1.319.265.5467 Fax No: 319.295.4941 E-mail: response@rockwellcollins.com
14.	Certificate and Document of Authentication	a. OEM Certificate b. Warranty Certificate
15.	Warranty	At least 12 months from the date of acceptance
16.	Installation	Installation work is to be done by Data Link Management Center. Supplier has to be present if deemed necessary.
17.	Test/ Trail	Test/ Trial is to be conducted by ship (In Coordination with Data Link Management Center).
18.	Acceptance	Acceptance will be given by CINS.
19.	Site Visit	Supplier may conduct site visit if deemed necessary.
20.	Picture	



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**TECHNICAL SPECIFICATION OF TACTICAL DATA LINK (VHF/UHF FILTER)
BNS PROTTASHA**

Ser	Particular	Description
1.	Name of Item	VHF/UHF Filter
2.	Quantity	01 (One)
3.	Part no	-
4.	Name of Main Equipment	Tactical Data Link (TDL)
5.	Brand	Rockwell Collins
6.	Model	E80551
7.	Technical Parameter	Frequency Range 100-450 MHz
		Frequency Steps 25kHz
		Power Input 28VDC, 1.5A (each filter)
8.	Country of Origin	USA
9.	Country of Manufacturer	USA
10.	Year of Manufacturer	2024 or latter
11.	Source of Supply	To be mentioned
12.	Port of Shipment	To be mentioned
13.	Manufacturer Address	Rockwell Collins Customer Response Center 400 Collins Road NE, M/S 133-100 Cedar Rapids, IA 52498-0001 Telephone: 1.888.265.5467 International: 1.319.265.5467 Fax No: 319.295.4941 E-mail: response@rockwellcollins.com
14.	Certificate and Document of Authentication	a. OEM Certificate b. Warranty Certificate
15.	Warranty	At least 12 months from the date of acceptance
16.	Installation	Installation work is to be done by Data Link Management Center. Supplier has to be present if deemed necessary.
17.	Test/ Trail	Test/ Trial is to be conducted by ship (In Coordination with Data Link Management Center).
18.	Acceptance	Acceptance will be given by CINS.
19.	Site Visit	Supplier may conduct site visit if deemed necessary.
20.	Picture	 E80551 by Rockwell Collins

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