TENDER SPECIFICATION OF INTERCOM SYSTEM WITH ACCESSORIES – BNS ALI HAIDER

1. **Name of the Equipment**. Intercom System with Accessories.

2. **Purpose**. Intercom system will be used in a naval ship for internal communication.

3.	**Quantity**	:	01 (One) Complete set.
4.	**Type**	:	Marine Type.
5.	**Brand**	:	To be mentioned.
6.	**Model**	:	To be mentioned.
7.	**Country of Origin**	:	Australia, Canada, France, Germany, Italy, Japan, Norway, Netherlands, South Korea, Switzerland, UK and USA (Country to be mentioned).
8.	**Country of Manufacture**	:	Australia, Canada, France, Germany, Italy, Japan, Norway, Netherlands, South Korea, Switzerland, UK and USA (Country to be mentioned).
9.	**Manufacturer** manufacturer	:	Name and full address with e-mail of is to be mentioned.
10.	**Supplier/ Local agent**	:	Name and full address with e-mail of supplier is to be mentioned.
11.	**Year of Manufacture**	:	2026 or later.

12. **Pre-bid Site Survey**. Prospective bidder may visit the installation site to estimate installation materials and works (including requirement of any supporting structure to install the offered Intercom System etc) involved in installation works before submission of offer to avoid any difficulties/ confusion after placing order. Site survey report has to be submitted by the bidder with offer in this regard. Bidder may send application to BN through DGDP for security clearance 04 (Four) weeks prior to the said site survey.

13. **Qualification for Bidder**. Manufacturers of Intercom System or their authorized distributor/ agent can submit quotations through their authorized local agent enlisted in DGDP. In case of offer from distributor/ agent, certificate of dealership/ agencyship from OEM is to be submitted with the offer. In this regard the following certificates are to be submitted with the offer (if not OEM):

a. Authorization Certificate from OEM.

b. Supply Assurance Certificate from OEM.

14. **Manufacturer Requirement**. The items should be brand new, unused and of recent model, proven reliability in the field of operation. The supplier will ensure the continuity of the operation and availability of necessary spares for at least 15 years each in case of obsolete model over time. In case of absence of spare parts, the OEM is to be propose appropriate/ alternate solution's to ensure trouble free operation of the equipment for the said period.

15. **User List**. List of users of the offered Intercom System is to be mentioned with full address. The list should provide the name of various navies/ coastguards/ merchant marines with respective model and brand of offered System. The Intercom System should be widely used. The user list will be evaluated for the assessment of the offer.

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16. **Condition for Acceptance of Quotation**. The quotation should have supporting coloured documents (booklets, leaflets, catalogues, brochures etc) with details about the offered Intercom System. If detailed information regarding specifications, manufacturer's manuals and catalogue for the quoted model of the Intercom System, spare parts, accessories, scope of supply, etc are not provided the quotation may not be accepted.

17. **Acceptance/ Rejection of Bid**. DGDP/ BN reserves the right to accept or reject any bid or to terminate the bidding process and reject all bids at any time prior to the contract award (without thereby incurring any liability to the BIDDER).

18. **Classification/ Standard**. The offered item is to fulfill the requirement of IEEE/ IEC/ IMO and other competent internationally recognized standards. The applicable classification standard(s) of offered items are to be mentioned and should be well supported by the certificates/ OEM brochures.

19. **Environmental Condition**. Environmental Condition requirements are as follows:

a.	Operating Temperature	:	-5°C to +55°C.
b.	Relative Humidity	:	Up to 95% (Non- condensing).
c.	Shock and Vibration	:	Anti shock and vibration for marine use (To be mentioned).
d.	Sea conditions	:	The system will be operated up to scale 7 sea condition.
e.	EMI & EMC	:	Military standard or equivalent (To be mentioned).

20. **Scope of Supply**. The scope of supply covers following (but not limited to):

a. 01 x Complete set of Intercom System with standard accessories for operation.

b. Standard Accessories.

c. Software.

d. Special Tools (If any).

e. Spares (Optional).

f. Certification and Reports.

g. Drawing and Manual/ Documentation.

h. Local Training.

j. Installation, Supervision & STW (Setting to Work).

k. Test/ Trial and Acceptance.

21. **Features**. The system should have following features but not limited to:

a. Marine type telephone exchange and intercom system.

b. Redundant power input with switchover.

c. Caller ID display.

d. Incoming and outgoing call log.

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e. Conference call with add on facility (05 line or above).

f. Priority Call.

g. Alarm for Handset Off-hook.

h. Re-dial, Hold and On-hook dial.

j. The item should be capable to operate in engine room spaces and harsh marine environment.

22. **System Composition.** Intercom System with Accessories shall comprise of the following configuration but not limited to:

Ser	Description	Quantity
1.	Intercom Telephone Exchange Main Unit	01
2.	Telephone Set	
	a. Wall Mounted type	67
	b. Wall Mounted type with boom microphone (PTT) and Head set for machinery spaces	05
3.	Visual Alarm System for machinery spaces	05
4.	Power Cable (Armoured, Rat-Protected and Screened)	As required
5.	Control cable (Armoured, Rat-Protected and Screened)	As required
6.	Audio Cable (Armoured, Rat-Protected and Screened)	As required
7.	On-Line UPS (3000 VA)	01

23. **Technical Specification**. The system is to be of marine type with robust and weather resistant complying with international standards for marine use.

a. **Intercom Telephone Exchange Main Unit (Marine Standard)**. The specification of item is as follows (but not limited to):

(1)	Brand	:	To be Mentioned.
(2)	Model	:	To be Mentioned.
(3)	Type	:	Marine type.
(4)	Mounting	:	Suitable for wall mounting/ Rack based.
(5)	Power Supply	:	220V AC ±5%, 50 Hz, 1 Phase and 24V DC backup with Auto change over switch.
(6)	Ingress Protection	:	IP 22 or more.
(7)	Dimension and weight	:	To be mentioned.
(8)	Any other	:	Details to be mentioned.
(9)	Country of Origin & Manufacture	:	As per para 7 & 8.

b. **Wall Mounted Telephone Set (Marine Standard)**. The specification of item is as follows:

(1)	Brand	:	To be Mentioned.
(2)	Model	:	To be Mentioned.
(3)	Standard	:	Marine Standard

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(4) Type : Magnetic contact hook

(5) Ingress protection : IP 22 or more.

(6) Power Supply : To be mentioned.

(7) Digital & Multi station working facilities.

(8) Incoming/ Outgoing alarm/ indicator & Caller ID facilities.

(9) Country of Origin & Manufacture : As per para 7 & 8.

c. **Wall Mounted type with Boom Microphone (PTT) and Head set for machinery spaces (Marine Standard)**. The specification of item is as follows:

(1) Brand : To be Mentioned.

(2) Model : To be Mentioned.

(3) Type : Marine type.

(4) Ingress protection : IP 22 or more.

(5) Power Supply : To be mentioned.

(6) Digital & Multi station working facilities.

(7) Incoming/ Outgoing alarm/ indicator & Caller ID facilities.

(8) Country of Origin & Manufacture : As per para 7 & 8.

d. **Visual Alarm System for Machinery Space**. The specification of item is as follows:

(1) Brand : To be mentioned.

(2) Model : To be mentioned.

(3) Type : Marine type.

(4) Country of Origin & Manufacture : As per para 7 & 8.

(5) Power Supply : To be mentioned.

e. **Online UPS**. The specification of item is as follows:

(1) Brand : To be mentioned.

(2) Model : To be mentioned.

(3) Type : Online.

(4) Input Voltage : 220VAC ±5%, 50Hz, 1Phase.

(5) Output Voltage : To be mentioned.

(6) Capacity : 3000 VA.

(7) Back-up Time : At least 30 Munits (To be mentioned).

(8) Country of Origin & Manufacture : To be mentioned.

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f. **Cables**. All cables as mentioned below should be of high quality marine type, EMI shielded, noise resistant Fire proof, Armoured and rodent bite resistance with metallic cover/ skin:

Ser	Name of Cable	Specification	Remarks
1.	Control and Signal Cables	a. Control Cable & Signal Cable b. Core & mm: As per system requirement (To be mentioned) c. Marine type d. Type Certified e. Certification f. EMI resistant g. Quantity: As required h. Country of origin & manufacturer: To be mentioned	**The requirement of cables is to be assessed by the supplier through Pre-bid Site Survey/ ship visit and to be submitted with the offer.** Supplier shall have to meet additional requirement of cables during installation. Details of various cable specifications are to be provided along with the price.
2.	Audio Cables	a. Audio Cable b. Core & mm: As per system requirement (To be mentioned) c. Marine type d. Type Certified e. Certification f. EMI resistant g. Quantity: As required h. Country of origin & manufacturer: To be mentioned	
3.	Power Cable	a. Power Cable b. Core & mm: As per system requirement (To be mentioned) c. Marine type d. Type Certified e. Certification f. EMI resistant g. Quantity: As required h. Country of origin & manufacturer: To be mentioned	

24. **Power Supply**. The system should run with 220V AC ±5%, 50Hz, 1 Ph and 24V DC power supply. Provision should be made to switch over automatically from normal AC supply to DC supply in case of AC supply failure. Details of the power supply are to be mentioned.

25. **Standard Accessories**. Standard accessories must include every item and accessories, which are essential to make the offered Intercom System operational with full functionality, whether those are mentioned in the specification or not are to be supplied by the bidder within the scope of the supply. Any such accessories, kit and items associated to operate the said equipment in full functionality are to be mentioned clearly with purpose and submitted with the offer mentioning item wise Unit price.

26. **Software**. The Software must be genuine and should be free from bug. The Software must be compatible with hardware configuration of the system and will satisfy the BN requirement The system backup software is to be provided by supplier with installation tools (i.e patch/connecting cord etc)

27. **Optional Items**. A list of OEM recommended spares as optional items (if any) is to be quoted separately mentioning item-wise price. The buyer may select item/ items from bidder's proposed list.

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28. **Special Tools**. A list of special tools (if required) is to be quoted separately mentioning item-wise price. The buyer may select item/ items from bidder's proposed list.

29. **Certificate and Reports**.

a. Following certificates and reports are to be provided in English for the offered item including associated equipment/ accessories **with the offer**:

(1) 'Type Approval Certificates' of classification society.

(2) Supply Assurance Certificate.

(3) Guarantee and Warranty Certificates.

(4) After Sales Service Support Certificate.

b. Following certificates and reports are to be provided in English for the offered item including associated equipment/ accessories **during delivery**:

(1) 'Type Approval Certificates' of classification society.

(2) 'Quality Assurance Certificates' for each item and their associated equipment and instruments from OEM is to be provided.

(3) Certificate of Genuine Product and Brand-New Item.

(4) Guarantee and Warranty Certificates.

(5) After Sales Service Support Certificate.

30. **Drawing and Manual/ Documentation**.

a. **Installation Drawings**. Following drawings are to be submitted for buyer's approval prior 04 (Four) months of commencing of installation work:

(1) Layout drawing.

(2) Electrical inter-connection diagram of all equipment.

(3) Cable diagram including cable type and cable grouping.

(4) List of works (facility work support) those are needed from BN.

b. **Manuals/ Document**. 02 (Two) sets of following documents and manuals in English are to be provided **at free of cost** at the time of delivery:

(1) Operating Manual.

(2) Technical Manual with Circuit Diagram (At lasts upto component level).

(3) Maintenance Manual.

(4) Parts Catalogue with parts Identification List (PIL).

(5) Installation Manual having Layout drawing of equipment, alignment instruction, electrical interconnection diagram, cable diagram, diagram showing interface (mechanical and electrical) and data protocol.

31. **Brochures/ Booklet**. 02 (Two) set of original coloured Brochures/ Booklets (including soft copy) in English having details technical information about the quoted System is to be provided along with the quotation for evaluation/ assessment.

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32. **Local Training**. The manufacturer is to arrange onboard operation and maintenance training including system configuration to a group of BN personnel for duration of minimum 03 working days after necessary test/ trial and commissioning of the system. Training content is to be provided by supplier to BN 02 (Two) weeks prior to the said training. The training should include (but not limited to) the following:

a. System composition, configuration, principle of operation and troubleshooting.

b. Software installation, operation and configuration for smooth conduct of all the tests.

c. Theoretical concept and procedure of tests (practical).

c. Repair and maintenance.

33. **Delivery**.

a. **Delivery Time**. The items shall be delivered to the "Place of Delivery" within **09 (Nine)** months after signing the contract.

b. **Place of Delivery**. NSD, Khulna.

c. Incase of CFR the supplier shall carry the items from sea port/ air port (as applicable) to NSD, Khulna at the cost and risk of supplier.

34. **Shipment**.

a. **Source of Supply**. The source of supply of the offered System are to be mentioned. It should be from the country of manufacturer or country of origin.

b. **Port of Shipment**. The port of shipment of the offered System are to be mentioned. It should be from the country of manufacturer or country of origin.

c. **Consignee**. The supplied item shall be the following consignee.

The Commanding Officer Naval Stores Depot New Mooring, Chattogram, Bangladesh BIN-002349278-0503	or	Officer In Charge Naval Stores Sub Depot Dhaka Naval Unit Khilkhet Namapara, Dhaka-1229, Bangladesh

d. All items should be brand new and to be delivered by seaworthy packing to ensure safe transit by sea. Certificates in this regard are to be provided during delivery.

e. All packages should have packing notes showing their contents in detail and all packages shall be marked with the name and address of the consignee and gross weight.

35. **Installation and Setting to Work (STW)**.

a. **Installation Site**. The Intercom System will be installed onboard BNS ALI HAIDER at Khulna Naval Area, Bangladesh.

b. **Installation Materials and Accessories**. All Installation materials, like junction's boxes, brackets, nuts, bolts, securing tie clips, slips, channels, Sealing Materials (not limited to) are to be provided by the supplier. Bidder may visit the installation site prior submitting the offer.

c. 02 (Two) set of technical documents (Installation drawings, Installation instruction, specifications etc) required for installation of the System is to be supplied by the manufacturer.

d. The complete Intercom System to be installed by replacing the existing Intercom System.

e. Removal of existing system and Installation of the offered system will be done by the supplier.

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f. A qualified manufacturer's/ supplier engineer will supervise the Setting to Work (STW) and commissioning.

g. Cost of installation and Setting to Work (STW)/ Commissioning are to be borne by the supplier and quoted separately.

h. Any damage to onboard existing systems, items, equipment and machineries due to cable laying shall be compensated to make damaged items operational.

j. BN will provide available welding, cutting and drilling support as required.

36. **Test, Trial and Acceptance**. On completion of installation and STW, Test/ Trial is to be conducted by supplier/ manufacturer's engineer in presence of BN representative. Final acceptance will be given by CINS/ACINS after satisfactory Test and Trial of the system.

37. **Warranty, Guarantee and After Sales Service**.

a. **Warranty**.

(1) 12 (Twelve) months manufacturer's warranty for trouble free operation is to be provided for the item from the date of acceptance by the purchaser. If any component and submit of the supplied items becomes defective during the warranty period, the overall warranty shall be extended automatically for the period of subject component remains defective.

(2) For warranty repair/ replacement, the supplier shall collect the defective item from NSD, Chittagong/ NSD Khulna/ NSSD, Dhaka (as applicable) and re-supply the same to collecting place after warranty repair or for replacement within 90 (ninety) days from the date of defect at no cost to the purchaser.

b. **Bank Guarantee (BG) for Warranty**. The BIDDER shall issue a Bank Guarantee (BG) during submission of last 20% payment for a value of **@ 05% (Five percent) of the total CFR value** from any scheduled bank in Bangladesh in favour of The Senior Finance Controller (Navy), Sailors Colony, Lalasarai, Mirpur–14, Dhaka-1206, representing Bangladesh Navy, Peoples Republic of Bangladesh, information to The Directorate General Defence Purchase, Ministry of Defence, Peoples Republic of Bangladesh. This BG shall remain valid until the warranty period of the **Intercom System** other items (notwithstanding minor deficiencies which would be mutually settled and agreed between PURCHASER and BIDDER) in Bangladesh, and it shall expire on receipt of **Warranty Completion Certificate**. If the contractual obligation warrants the extension of the validity of the BG, the BIDDER shall remain liable to do so at its own cost. In case of material failure of the BIDDER to fulfill its contractual obligation as per the terms and conditions of the contract, the BG in full or part thereof may be forfeited at the discretion of the PURCHASER.

c. **Guarantee**. The supplier is to give guarantee of continued supply of spares for at least 10 (Ten) years at a reasonable price (not exceeding 3% per year). Certificate is to be submitted with the offer.

d. **After Sales Service**. After sale service should be available with the local agent of supplier and is to be provided as and when required for indefinite period or at least 15 years after the installation. If any system, equipment etc becomes obsolete or out of production during or after the installation period (at least upto 15 years), the supplier is to submit alternative of same/ improved version for selecting the suitable replacement.

38. **Validity**. The offer shall remain valid till 30 June 2027.

39. **Terms of Payment**. Payment shall be made through an Irrevocable Letter of Credit (LC). LC shall be opened at the expense of the PURCHASER and **100% LC** value shall be made operative in favour of Supplier. CFR value being the value of the supplied goods, payment shall be made as under:

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a. 1st Installment. 80% of CFR value shall be paid **after shipment of hardware and software** and on submission of the following documents to the bank:

(1) Original Airway Bill (AWL)/ Bill of Landing (BL) must be issued by air lines/ shipping lines or authorized agent of shipping lines/ air lines against DGDP contract reference (after signing the contract). LC number, and Bangladesh bank registration number are to be mentioned in AWL/ BL. Freight amount must be shown separately otherwise only FCA value shall be paid. All documents to be submitted (01) original with at least (05) five copies other than bill of lading shall be (03) three original with (03) three copies. In addition to this, following shall also be considered:

(a) Name of the carrier must be indicated in AWL/ BL.

(b) Must be signed by carrier or a named agent for/ on behalf of the carrier.

(2) 'Supplier's Signed Commercial Invoice' for (freight/ services amount to be shown separately (if applicable)) representing 80% of CFR value as stated in the contract.

(3) 'Packing List' signed by the authorized representative of the shipping company or exporter.

(4) 'Certificate of Origin' signed by the Manufacturer's Authorized Person/Authorized Official of the exported country.

(5) 'Manufacturer's Certificate' Signed by the MANUFACTURER/ SUPPLIER. Certifying that product has been produced as per technical data/ analytical data and specification as per contract.

(6) 'Manufacturer's Warranty Certificate' Signed by the MANUFACTURER/ SUPPLIER.

(7) 'Quality Assurance Certificate' (QAC) signed by the SUPPLIER.

(8) 'Shipment Clearance Letter' Signed by DGDP (Directorate General Defense Purchase, Dhaka, Bangladesh) as PURCHASER.

b. 2nd Instalment. 20% of CFR value shall be paid **after successfully commissioning the System** and on submission of the following documents to the bank.

(1) 'Final Acceptance Certificate' issued by the PURCHASER after successful completion of installation, integration with related ship borne equipment, HAT, SAT and commissioning of System.

(2) The bidder shall submit the relevant document of 5% BG of CFR value, which shall be released on submission of warranty completion certificate.

c. **Instalment of Training and Services**.

(1) Local Training. 100% cost of Local Training shall be paid **after successful completion of local training** and on submission of the following documents to the bank:

(a) 'Local Training Completion Certificate' Signed by the PURCHASER for the successful completion of the Local Training in Bangladesh

(b) 'Supplier's Signed Commercial Invoice' for 100% of Local Training value as stated in the contract.

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(2) **Installation and Acceptance**. 100% cost of Installation shall be paid **after successful completion** of Installation and final acceptance on submission of the following documents to the bank:

(a) Certificate Signed by the PURCHASER for the successful 'Completion of the Installation and Final Acceptance' in Bangladesh.

(b 'Supplier's Signed Commercial Invoice' for 100% of Installation and Final Acceptance value as stated in the contract.

40. **Price**. Price of the each item of the total offer is to be shown separately (e.g. price of the main equipment, additional accessories, Installation, local training, warranty/ guarantee etc) and then grand total of the foreign currency to be shown on the original offer submitted by the bidder. Moreover, if the item is imported against this tender, price to be quoted without import duties.

41. **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 evidences with description/ information, brochures/ booklet, drawing and diagram 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 the offered System, the deviation has to be spelt out clearly.

