

RESTRICTED

TENDER SPECIFICATION OF BORE SIGHT ALIGNMENT SYSTEM - BN DOCKYARD

1. **Name of the Equipment.** Bore Sight Alignment System.
2. **Purpose.** To streamline alignment operation and quickly calculate blind arc dimension. It should be able to collimate the line of sight and line of fire compared with the fire control designator. This system will be used to measure the misalignment of the gun barrel line of fire and the fire control system line of sight (dynamic alignment) optically.
3. **Quantity** : 01 (one) Complete Set.
4. **Type** : Portable (To be mentioned).
5. **Brand** : To be mentioned.
6. **Model** : To be mentioned.
7. **Country of Origin** : Canada, EU Countries, Japan, UK, USA, Turkiye, Australia, South korea (Country to be mentioned).
8. **Manufacturing Country** : Canada, EU Countries, Japan, UK, USA, Turkiye, Australia, South korea (Country to be mentioned).
9. **Original Equipment Manufacturer (OEM).** Name & Full address with telephone number and e-mail of OEM to be mentioned.
10. **Principal/ Supplier/ Bidder.** Name & Full Address with telephone number and e-mail of Principal Supplier is to be mentioned.
11. **Local Agent.** Name & Full Address with telephone number and e-mail of Local Agent is to be mentioned.
12. **Year of Manufacturing.** 2025 or later.
13. **Qualification of Bidder.** Manufacturers of Bore Sight Alignment System or their authorized distributor/ agent can submit quotations through their authorized local agent enlisted in DGDP. In case of offer from foreign trading company/ distributor/ agent, certificate of dealership/ agencyship from Original Equipment Manufacturer (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. **Equipment Manufacturer and Reliability/ Requirement.** The items should be brand new, unused and of recent model, proven reliability in the field of operation. The supplier shall ensure the continuity of the operation and availability of necessary spares for at least 15 years each in case of obsolete model over time.
15. **User List.** List of users of the offered system is to be mentioned with full address. The list shall provide the name of various navies/coastguards with respective model and brand of offered system. The system should be widely used by various navies/ coastguards. The user list will be used for the assessment of the offer.
16. **Condition for Acceptance of Quotation.** The quotation must enclose supporting documents (booklets, catalogues, brochures etc) with details about offered equipment/ item. If detailed information regarding specifications, manufacturer's manuals and catalogue for the quoted equipment/ items PCBs and modules, 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).

RESTRICTED

18. **Classification/ Standard.** The offered item is to fulfil 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.**

- a. Temperature : -5°C to +50°C
- b. Relative Humidity : up to 95% (Noncondensing)
- c. Climate : For Tropical Environment like Bangladesh.
- d. Storage Temperature : To be mentioned.

20. **Scope of Supply.**

- a. 01 x Complete set of Bore Sight Alignment System (As per para 23).
- b. Essential Accessories (**As per para 24**).
- c. Certification and Reports (As per para 25).
- d. Drawing and Manual/ Documentation (As per para 26).
- e. Other accessories/ tools (Optional) (As per para 27).
- f. Spares (Optional) (As per para 28).
- g. Local Training (As per para 29).
- h. Installation, Test/ Trial and Acceptance (As per para 30).

21. **General Features and Capability.** The key features will be as follows, but not limited to:

- a. Portability and Lightweight Design.
- b. Modular compatibility.
- c. High- Capacity Battery.
- d. Rapid Recharge time.
- e. User Friendly interface.
- f. Comprehensive Data Management.
- g. Accurate Misalignment Calculation.
- h. Versatile Video Camera.
- j. Efficient Data Integration.

22. **Additional Feature Offered by Bidder.** The bidder may suggest and offer additional features for the offered system. In this case, Bidder is to explain the detailed advantage of that/ those features of the offered system.

23. **Technical Specification.** The technical specification of the Bore Sight Alignment System should have followings (but not limited to):

Ser	Description	Remarks
<u>General</u>		
1.	Brand	To be mentioned
2.	Model	To be mentioned
3.	Country of Origin	As per Paragraph-7 (To be mentioned)
4.	Country of Manufacturer	As per Paragraph-8 (To be mentioned)
5.	Suitability for Barrel Interface (adaptor)	100mm, 76mm, 57mm, 40mm, 37mm, 30mm, 25mm, 20mm, 14.5mm and 12.7mm Gun (To be mentioned)
6.	Optical Focal Length	To be mentioned
7.	Video Format	To be mentioned
8.	Bore Sight Accuracy	To be mentioned
9.	Power Supply	To be mentioned
10.	Cable Length	100 meter or more
11.	Environment Protection	Humidity, Rain, Sand, Salt Fog, Fungus, Sun Radiation and Transportation
12.	Case	To be mentioned
13.	Accessories	To be mentioned

24. **Essential Accessories.** Essential accessories shall include every item which are essential to make the offered system operational with full functionality, whether those are mentioned in the

RESTRICTED

specification or not are to be supplied by the supplier within the scope of the supply. Any such accessories, tools, kit and items associated to operate the said equipment are to be mentioned clearly with purpose and submit with the offer mentioning item wise price. These will include but not limited to the followings:

(1) **Bore Adapter.**

Brand	To be mentioned.
Model	To be mentioned.
Type	To be mentioned.
Country of Origin	As per Paragraph-7 (To be mentioned).
Country of Manufacturer	As per Paragraph-8 (To be mentioned).
Barrel Interface (To be provided)	100mm, 76mm, 57mm, 40mm, 37mm, 30mm, 25mm, 20mm, 14.5mm and 12.7mm Gun Barrel.
Material	To be mentioned.
Length	To be mentioned.
Weight	To be mentioned.

(2) Hard Carrying Case.

(3) Necessary software and backup software with license copy of all related software are to be provided in CD/ DVD and portable memory device. Method of loading and recovery of software is to be provided.

25. **Certificate and Reports.**

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

- (a) Supply Assurance Certificate.
- (b) Guarantee and Warranty Certificates.
- (c) After Sales Service Support Certificate.

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

- (a) 'Quality Assurance Certificates' for each item and their associated equipment and instruments from OEM is to be provided.
- (b) Certificate of Genuine Product and Brand-New Item.
- (c) Guarantee and Warranty Certificates.
- (d) After Sales Service Support Certificate.

26. **Drawing and Manual/ Documentation.**

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

- (a) Electrical inter-connection diagram of all equipment.
- (b) List of works (facility work support) those are needed from BN.

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

- (a) Operating Manual.
- (b) Technical Manual with Circuit Diagram (At lasts upto component level).
- (c) Maintenance Manual.



RESTRICTED

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

27. **Other Accessories/Tools (Optional).** Other accessories/ tools if needed to be quoted separately with item wise price. The buyer may select any of the suggested items from the proposed list.

28. **Spares (Optional).** A list of OEM recommended spares (if any) for five years trouble-free operation are to be quoted showing item wise price.

29. **Local Training.** A group of operators/ technicians are to be trained locally in Bangladesh for 05 (Five) working days by the Manufacturer's Engineer on completion of installation and Test/Trial. Cost of air fare (to and from Bangladesh (installation site)), accommodation, food and internal transportation (to and from work site and hotel) of the Manufacturer's engineer will be borne by Supplier. The cost of local training is to be quoted with the offer separately.

a. **Training Objective.** Objective of training is to learn about the functionality and maintenance of the delivered system.

b. **Training Contents.** The contents of the training should include following (but not limited to):

- (1) System composition, configuration, principle of operation and troubleshooting.
- (2) Data format and protocol of sensor.
- (3) Software installation, operation and configuration for smooth conducting of all the tests.
- (4) Theoretical concept and procedure of tests (practical).
- (5) Repair and maintenance.

30. **Installation, Test/Trial and Acceptance.**

a. **Installation Site.** Onboard BN DOCKYARD at Chattogram Naval Area.

b. Site Acceptance Test (SAT) and installation shall be conducted at BN premises. SAT protocol shall be forwarded to BN for approval. BN may provide some facilities for the test.

c. On completion of satisfactory Test/ Trial and commissioning, an acceptance certificate will be provided by BN.

31. **Delivery.**

a. The items shall be delivered to the 'Place of Delivery' within **12 (Twelve)** months after signing the contract.

b. **Place of Delivery.** NSD Chattogram.

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

32. **Shipment.**

a. **Source of Raw Material.** To be mentioned.

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

c. **Port of Shipment:** To be mentioned. The port of shipment is to be from the country of manufacturer or country of origin.

d. **Consignee.** The supplied item shall be the following consignee:

RESTRICTED

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

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

f. All packages are to 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.

33. **Project Timeline.** A forecasted project timeline indication month-wise event is to be provided with the offer and another reviewed project time line with project implementation plan is to be submitted after 15 days of signing the contract. The project timeline and implementation plan shall have clear indication of duration also including details of support/ facility work required from BN.

34. **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/CPT 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 Bore Sight Alignment System and 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.

35. **Validity.** The offer is to remain valid till 30 June 2026.

36. **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/ CPT value being the value of the supplied goods, payment shall be made as under:

RESTRICTED

a. **1st Installment.** 80% of CFR/ CPT 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/CPT 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/CPT value shall be paid **after successfully commissioning the system** and on submission of the following documents to the bank:

(1) 'Supplier's Signed Commercial Invoice' for representing 20% of CFR/CPT value as stated in the contract.

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

(3) 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.

RESTRICTED

(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.

37. **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.

38. **Compliance Statement.** A clear and complete compliance statement of the tender supported by the product catalogue and Brochure with necessary specification and drawing/ diagram is to be submitted for evaluation of the quotation. Incomplete compliance statement will attribute to cancellation of the offer. If any clause of this specification does not commensurate with offered item practically, the deviation has to be spelt out clearly.

