



Chittagong Dry Dock Limited

Bangladesh Navy
East Patenga, Chattogram, Bangladesh

Phone: +88 02333301117, Mobile: +8801769744450
Fax: +88 02333301123, E-mail: commerce@cddl.gov.bd, contact@cddl.gov.bd,
Website: www.cddl.gov.bd



23.02.1565.341.53.006.25.361

Dated: 16 March 2025

INVITATION FOR TENDER

1.	Procuring Entity	Chittagong Dry Dock Ltd
2.	Invitation for	Phased Array Ultrasonic Testing (PAUT) Machine with Standard Probe and Accessories (Detail Technical Specifications Mentioned in Tender Document)
3.	Reference No	23.02.1565.341.53.006.25.362 Date: 16 March 2025
4.	Procuring Method	Open Tender
5.	Budget & Source of Funds	Own Fund of Chittagong Dry Dock Ltd
6.	Tender Last Selling Date (Office Time only)	16 March 2025 to 13 April 2025 at 12.00 PM
7.	Tender Closing	13 April 2025 at 12.15 PM
8.	Tender Opening	13 April 2025 at 12.30 PM
9.	Name and Address of the Office(s) for Selling, Receiving and Opening of Tender Documents:	(1) Cash Section, Accounts Department, Chittagong Dry Dock Ltd, Bangladesh Navy, East Patenga, Chattogram (2) Schedule will also be available at CDDL's website (www.cddl.gov.bd)
	a. Selling Tender Document	
	b. Receiving Tender Document	Purchase & Commerce Department, Chittagong Dry Dock Ltd.
	c. Opening Tender Document	(1) Chittagong Dry Dock Ltd, Bangladesh Navy, East Patenga, Chattogram (2) Tenderers and their authorized representatives are allowed to attend
10.	Price of Tender Document	TK 1,000.00 (One Thousand Only) (Non-refundable)
11.	Contact Details	Phone: +88 02333301117, Mobile: +8801769744452 Fax: +88 02333301123, E-mail: commerce@cddl.gov.bd, contact@cddl.gov.bd
12.	Special Instructions	The Procuring Entity reserves the right to reject all or any tenders prior to acceptance without showing any reason

Head of Commerce & Purchase Department

For Managing Director



**TENDER DOCUMENT FOR PURCHASE
CHITTAGONG DRY DOCK LTD
BANGLADESH NAVY**

East Patenga, Chattogram.

Phone: +88 02333301117, Fax: +88 02333301123

E-mail: commerce@cddl.gov.bd, contact@cddl.gov.bd

Website: www.cddl.gov.bd



Cost of tender document Tk. 1,000.00 (Tk. One Thousand Only) per set (Non-refundable)

**TENDER DOCUMENTS FOR PHASED ARRAY ULTRASONIC TESTING (PAUT)
MACHINE WITH STANDARD PROBE AND ACCESSORIES - 01 (ONE) SET**

TENDER ENQUIRY NO- 23.02.1565.341.53.006.25.362 Date: 16 March 2025

DUE FOR OPENING ON: 13 April 2025

**CHITTAGONG DRY DOCK LTD
BANGLADESH NAVY**

East Patenga, Chattogram.

Phone: +88 02333301117, Fax: +88 02333301123

E-mail: commerce@cddl.gov.bd, contact@cddl.gov.bd

Web: www.cddl.gov.bd

IMPORTANT POINT

1. **TENDER NO.** 23.02.1565.341.53.006.25.362 Date: 16 March 2025.
2. **DUE FOR OPENING ON.** 13 April 2025.
3. **PRICE OF TENDER DOCUMENTS.** Tk. 1,000.00 per set (Non-refundable).
4. **EARNEST MONEY.** 1% (One) of the total quoted CFR/CPT value Or Delivery at CDDL Site value either in Bangladesh currency or equivalent US\$ /EURO/GBP/JPY favoring Chittagong Dry Dock Ltd, Bangladesh Navy in the form of Bank Draft/Pay Order/Bank Guarantee.
5. **NAME OF THE COMMODITY.** 01 (One) Complete Set Phased Array Ultrasonic Testing (PAUT) Machine with Standard Probe and Accessories (As Per Attached Specification).
6. **PURPOSE.** To find hidden cracks, voids, porosity, inclusion and similar discontinuities with accurate & detailed cross-sectional pictures of internal metal structures and weld joints at fast inspection speeds.
7. **SOURCE OF FUND.** Own Fund of Chittagong Dry Dock Limited.
8. **TERMS OF SUPPLY.** CFR Chattogram /CPT Dhaka or Delivery at CDDL Site.
9. **PRICE.**
 - a. **FOR CFR CHATTOGRAM /CPT DHAKA.**
 - (1) FOB and Ocean/Air freight should be shown separately.
 - (2) Freight should be shown/ endorsed on Bill of Lading/Air Way Bill.
 - (3) Freight will be paid at actual against Bill of Lading/Air Way Bill but not exceeding the amount shown in quotation/offer.

OR,
 - b. **FOR DELIVERY AT CDDL SITE.** Total Price including all govt. Duty, Taxes, Port expenses, carrying cost etc. up to CDDL site.
10. **YEAR OF MANUFACTURING.** 2024 or later. The item should be brand new and original.
11. **BRAND.** Olympus, Topaz, Krautkramer or equivalent brand.
12. **COUNTRY OF ORIGIN.** EU Countries, G-7 Countries and South Korea.
13. **COUNTRY OF MANUFACTURING.** EU Countries, G-7 Countries and South Korea.
14. **MANUFACTURER.** Name and full address to be mentioned.
15. **SUPPLIER/LOCAL AGENT.** Name and full address to be mentioned.



16. **DELIVERY/SHIPMENT SCHEDULE.** 180 days from date of opening of LC/ within 06 (Six) months after signing the contract (in case of delivery at CDDL site).

17. **PORT OF SHIPMENT.** Any sea port of manufacturing country (To be mentioned).

18. **TENDER SHOULD REMAIN VALID.** The offer should remain valid for minimum 90 (Ninety) days from the date of tender opening.

19. **THE TENDER DOCUMENTS ARE REQUIRED TO BE WITH SEAL AND SIGN THERE OF ON EACH PAGE.** The Chittagong Dry Dock Ltd, Bangladesh Navy invites quotation from Manufacturers/Principal Suppliers for supply of the item described in the attached sheet schedule (Annex-A & B) on firm CFR Chattogram /CPT Dhaka Or Delivery at CDDL site. Quotations will be received by this office up to 12.15 PM 13 April 2025 and will be opened 12.30 PM, 13 April 2025 in public on the date specified above.

20. **AMENDMENTS TO TENDER DOCUMENTS.**

a. At any time prior to deadline for submission of bids the purchaser may, for any reason, whether of its own initiative or in response to a clarification requested by a prospective bidder, modify the tender documents by the amendment(s).

b. The amendment(s) will be notified in writing by letter/fax or by cable to all prospective bidders who have purchased tender documents and also publishing in newspaper & CDDL web site (www.cddl.gov.bd) and the same will be binding on them.

c. In order to allow the prospective bidders reasonable time to take the amendment into account in preparing their bids, the purchaser may at its sole discretion extend the deadline for submission of bids.

PREPARATION AND SUBMISSION OF QUOTATION

21. **GENERAL.**

a. Offers are to be dropped in the tender box provided for the purpose at the office of Chittagong Dry Dock Ltd, Bangladesh Navy, East Patenga, Chattogram.

b. Tender number and opening date as above should be written on the envelope. The envelope containing quotation should be sealed and addressed as follows:

THE MANAGING DIRECTOR
CHITTAGONG DRY DOCK LTD
BANGLADESH NAVY
EAST PATENGA, CHATTOGRAM.

Tender number and opening date as above should be written on the envelope.

c. Tender may be put into the tender box kept for this purpose at the above address, but care must be taken to ensure that it reaches this office on the date and time fixed. Late tenders will not be considered. Suppliers may also post the tenders to the MANAGING DIRECTOR, CHITTAGONG DRY DOCK LTD, BANGLADESH NAVY, EAST PATENGA, CHATTOGRAM, BANGLADESH, so, as to reach him on due date and time. No responsibility will be accepted by buyer for late receipt.

d. The Manufacturers/Principal Suppliers may quote in their own letter head, but it is essential that the tender schedule is also completed and returned, along with original money receipt to the buyer. If the schedule is not accordingly returned, the quotation may not be considered.



- e. Tenderers may quote price in **Bangladesh Taka/US Dollar/ EURO/GBP/JPY**.
- f. Tenders should enclose with the quotation the Original Proforma Invoice of their Principal and the Proforma should be based on **FIRM CFR/CPT PRICE Or Delivery at CDDL Site**.
- g. Quotation should be strictly in accordance with the following:
- (1) Accounting unit prescribed in the tender enquiry.
 - (2) Terms of delivery and place of delivery as specified in the tender enquiry.
- h. The name of the manufacturers/principal suppliers and country/countries of origin with port of shipment proposed should invariably be indicated.
- j. Tenderers must submit with the quotation the original Proforma Invoice of their Principals and the Proforma Invoice shall clearly indicate detail technical specification, the percentage of commission, if any, included in FOB price for the local agent. Commission payable to the local agent by the foreign supplier will be deducted and paid to local agent in equivalent local currency at the exchange rate at which the bill of exchange is negotiated. **Buyers will not pay any extra commission or otherwise to the Local Agent.**
- k. No claims on the ground of typographical errors in calculating prices would be entertained later and the tendering firms would be asked under points of penalty and disciplinary action to supply at price they have originally quoted.
- l. Indenting agent should also submit along with the tender valid registration certificate issued by the Chief Controller of Imports and Exports (CCI&E) and Bangladesh Bank permission. In absence of original certificate, Photostat copy may serve.
- m. Tenderers should quote the price as per schedule given in **Annex A** to this document.
- n. **Tenderers should submit a certificate along with the offer to the effect that they have gone through the instructions and terms and conditions stipulated in the tender documents and have accepted them into. As a token of such acceptance each page of this tender documents must be signed by the supplier with their SEAL. If the tender documents are not received accordingly, the quotation may not be considered. In case of disagreement on any point this must be stated clearly in a separate sheet. Tenderers, must give full and detailed specification of the items they like to offer. Expressing like as per your specifications should be avoided and will be treated as disqualification.**
- p. Quotation has to have supporting documents (booklets, leaflet, catalogue, brochure etc OEM in English) having detailed particulars of the offered **01 (One) Complete Set Phased Array Ultrasonic Testing (PAUT) Machine with Standard Probe and Accessories**. The detailed information to be provide.

22. **CONTRACT.** The terms and conditions of the tender document shall form an integral part of the contract/purchase order document. The tenderer is requested to check this set of tender documents in order to ensure proper compliance and the "Form of Acknowledgement" along with the "Certificate as to Corporate Principal", where applicable, duly filled in be returned along with the tender.

23. **BID LANGUAGE.** The bids, all correspondences and documents relating thereto exchanged between the bidders and the purchaser shall be written in English Language.

24. **QUALIFICATION OF BIDDER.** Manufacturers of Phased Array Ultrasonic Testing (PAUT) Machine with Standard Probe and Accessories or their authorized distributor/submit quotations through their authorized local agent in desk. In case of offer from



distributor/agent, certificate of dealership/agency ship from Original Equipment Manufacturer (OEM) is to be submitted with the offer.

25. **PAYMENT CONDITIONS FOR CFR CHATTOGRAM /CPT DHAKA.**

For CFR Chattogram /CPT Dhaka.

a. The total contract price (TCP) will comprise of both foreign currency and local currency offer of the supplier. Letter of credit (LC) will be opened in foreign currency in favor of the manufacturer/principal supplier for the complete scope of supply with the following terms of payment:

i. 80% of LC value will be released after shipment of all items and on submission of necessary shipping documents **along with FAT/PSI report.**

ii. The remaining 20% LC value will be released after satisfactory installation, test, trial, commissioning and acceptance of the delivered items by the buyer at the buyer's premises.

b. The letter of credit shall be negotiable on presentation of the following documents:

- (1) Complete set of original 'Clean on Board' Bill of Lading/Air Way Bill/mentioning the amount of freight on Bill of Lading/ Air Way Bill.
- (2) Supplier's invoice signed in ink.
- (3) Buyer's authorized inspection agent's certificate.
- (4) Pre-Shipment Inspection (PSI)/ Factory Acceptance Test (FAT) report.
- (5) Fax. /E-mail/Swift advice for insurance cover. (In terms of buyer)
- (6) Certificate of origin.
- (7) Certificate showing that the commodity has been shipped in a non-Israel vessel.
- (8) **Undertaking** regarding supply/re-placement of short supplied and defective materials on free of cost demanded by the buyer.

c. Bank charges in Bangladesh for opening of LC shall be borne by the buyer. Any Bank Charge for revalidation or amendment of the LC on the request of the supplier shall be exclusively borne by the beneficiaries and not by the CHITTAGONG DRY DOCK LTD. Confirmation of letter of credit by foreign bank will not be entertained.

d. Bank charge for withdrawal against LC established by buyer will be borne by the beneficiary.

e. The beneficiary will have to bear the following foreign bank charges: -

- (1) Negotiation commission.
- (2) Payment commission.
- (3) Postage and cable charges.
- (4) LC confirmation charges/ additional (ADD) confirmation charges.
- (5) LC amendment commission/LC extension commission.
- (6) LC cancellation charges.

Or

For Delivery at CDDL SITE.

a. **80% payment will be made after delivery at CDDL and upon successful joint inspection report submission.** Remaining 20% will be paid after successful test, trial & commissioning and acceptance of the delivered items at CDDL



26. **SHIPMENT AND DELIVERY INSTRUCTIONS.**

a. The Phased Array Ultrasonic Testing (PAUT) Machine with Standard Probe and Accessories to be delivered within 06 months/180 days after Opening LC to the following consignee:

The Managing Director
Chittagong Dry Dock Ltd.
Bangladesh Navy
East Patenga, Chattogram, Bangladesh.

b. The supplier will arrange shipment of all items by sea/air to Chattogram, Bangladesh.

c. The supplier will arrange transportation of all supplied items from Chattogram Seaport / Dhaka Airport to CDDL, Chattogram.

Or

d. Delivery of the items will be within 06 (Six) months after signing the contract (in case of delivery at CDDL site).

27. **PACKING AND MARKING.**

a. The seller shall be responsible for proper packing and marking of the goods for shipment by rail, road and sea. Goods shall be assembled to the maximum extent practical prior to shipment. Goods shall be packed so as to withstand usually rough handling and ensure delivery without loss or damage.

b. Each packet/bundle must have the following information printed in **BOLD LETTERS**

- (1) Name of the consignee and destination.
- (2) Letter of credit number.
- (3) Gross and net weight.
- (4) Serial number of bundles/boxes/packets.
- (5) Name and address of the seller.

c. All items are to be delivered in sea/air worthy packing to ensure safe transportation by sea/air. All packages are to have packing notes showing their contents in details and all packages shall be marked with the name and address of the consignee and gross weight.

28. **INSURANCE.** Insurance of the consignment after shipment to destination port/place (up to buyer's premises) will be arranged by buyer. Quotation should, therefore, be exclusive of the insurance charges.

29. **LATE DELIVERY AND LIQUIDATED DAMAGES.**

a. Liquidity damage equivalent to **0.5% (half percent) per week or part thereof** on the value of the undelivered goods may be realized from the supplier/contractor.

b. In specific cases where delay in delivery is likely to cause dislocation of work and financial loss, a higher rate of liquidity damage, not over **1% (one percent) per week or part thereof** on the value of the undelivered goods may be charged.



c. In case of delay in delivery beyond one hundred days from specific delivery time mentioned in **clause 26** for importable item(s), purchase order/contract may be cancelled in which case the performance guarantee shall be forfeited.

d. On genuine reasons/grounds beyond the control of the suppliers/contractor, extension of delivery period may, however, be granted by the purchase approving authority without realization of any liquidated damage provided validity of their performance guarantee covers such extension.

30. **GENUINENESS OF THE PRINCIPAL SUPPLIERS.** The principal supplier shall have to submit a certificate from the supplier's bankers regarding the Bonafide and standing of the supplier. In this respect satisfactory **credit report** issued by supplier's bank is to be submitted along with the quotation/ offer.

And/Or

Certificate from the Chamber of Commerce and Industry from the supplier's country regarding its standing as an exporter/manufacturer along with the Proforma Invoice.

31. **QUALITY CERTIFICATE.** Tenderers should furnish guarantee from the Original Manufacturers/Suppliers/Sole Agent to the effect that the goods will be of exact specification as laid down in the tender and in the event of placing order with the tenderers, the manufacturers/suppliers or their sole agents will supply materials to them (Tenderers) for supply of the same against their tender. Tenderers for all purposes shall be responsible for the acts of omission and commission of their Principal.

32. **EARNEST MONEY.** All bidders must submit earnest money for an amount equivalent to **1% (One)** of the actual quoted CFR/CPT value or value at CDDL site (in case of delivery at CDDL site) of the stores either by Bangladesh currency or equivalent US Dollar/ EURO/GBP/JPY favoring the Chittagong Dry Dock Ltd in **bank draft/pay order/bank guarantee** which will be issued by any scheduled bank of Bangladesh. In case bank guarantee is submitted, the same should remain valid for **90 (Ninety) days from the date of opening of the tender.** Neither any inland cheque for a cheque/ guarantee issue by Bank of foreign countries will be entertained. Earnest money is liable to forfeiture if the bidder for any reason whatsoever withdraws or modifies its offer; or violates the terms after opening of the tender and before expiry of the validity of the offer or fails to furnish the required performance bond within the stipulated time after issuance of letter of intent. Bid bond/earnest money of unsuccessful tenderer would be returned once a decision of the tender is made. A tender not accompanied by earnest money/bid bond would be rejected as non-responsive. Bid bond of the successful bidder shall be returned after furnishing performance bond. **A specimen copy of bid bond is enclosed herewith as Annex- C.**

33. **PERFORMANCE BOND.** The successful tenderer will be required to furnish performance bond to the extent **5% (Five Percent)** of the total CFR/CPT value or total value at CDDL site (in case of delivery at CDDL site) either in the form of **pay order /bank draft or bank guarantee** for the satisfactory execution of the order. The performance bond should be given by any Bangladesh Commercial Bank under their (Bank) full risk and liabilities. If the same is submitted by bank guarantee it must remain **valid till warranty period or 18 (Eighteen) months** beyond the date of shipment. Performance bond must be furnished within **10 (Ten) days** from the date of letter of intent. It will be liable for forfeiture if the supplier fails to supply the goods within the specified time or commits any breach of contract. **A specimen copy of performance bond is enclosed herewith as Annex -D.**

34. **PRE-SHIPMENT INSPECTION (PSI)/ FACTORY ACCEPTANCE TEST (FAT).**

a. PSI/FAT will be observed by nominated **02 (Two)** officers of CDDL for **02 (Two)** to **04 (four)** days or any agency of their choice at the buyer's expenses. The FA



carried out at manufacturer's /supplier's (Phased Array Ultrasonic Testing (PAUT) Machine) factory premises. The supplier should inform the buyer about the date and schedule of FAT/PSI at least 08 (Eight) weeks prior to the date of commencement of the said test. Both way air fare, accommodation and food for CDDL nominated officers or agency will be borne by the buyer. The supplier will be liable to pay any expenses of rejected stores and also for such tests/inspection, which will become payable to the inspector due to multiple intervention/visits and or fruitless visits at the call of and to suit the convenience of the supplier. The inspectors should be provided with all facilities to carry out their job smoothly and without interference.

b. All types of movement/ transportation (air, sea, road, rail) of the team within the manufacturer's/supplier country, reception and arrangement for entry into country/ concerned area for the FAT/PSI are to be arranged by the supplier without any extra cost. After FAT/PSI, a joint test report will be prepared and signed by supplier and buyer's representatives.

c. On return from the country of manufacturer's/supplier or successful completion of FAT/PSI, the FAT/PSI team will submit the test report to CDDL authority. The supplier will not make shipment of any item of the contract without clearance from CDDL.

Or

d. A joint inspection will be carried out at site in presence of manufacturer's authorized person'(s) and a technical team of CDDL who will combindly inspect the correctness of items according to Annex –B (in case delivery at CDDL site)

35. **TEST and ACCEPTANCE.** Test will be carried out by the purchaser in presence of supplier's representative and if found satisfactory, certificate will be signed jointly by the buyer and representative of supplier.

36. **TRAINING.** On acceptance of the item, the supplier's representative/Trainer will provide training on operation and maintenance of the machine to 02 x operators and maintainers for a period of at least 05 working days at buyer's premises. The trainer must be a minimum PCN Level-II in PAUT or ASNT Level III in PAUT certified person. Training schedule should be provided.

37. **WARRANTY.** Warranty for trouble free operation is to be given by the supplier/ manufacturer for all the supplied items for a period of 12 (Twelve) months from the date of acceptance by the buyer. During the warranty period, if the Phased Array Ultrasonic Testing (PAUT) machine remains non-operational for any action pending by the supplier, the warranty period will be extended for the same period. The warranty covers all parts and labor (including service engineer's cost) throughout the warranty period. For warranty repair/replacement, the supplier will collect the defective item from Chittagong Dry Dock Limited and re-supply the same to collecting place after warranty repair or for replacement.

38. **INDEMNITY.** The supplier has to indemnify the buyer against all claims which may be made in respect of the stores for infringement of any right protected by patent, registration of design etc. and shall take all risk of accidents or damage which may cause or failure of the supply from whatever cause arising and take entire responsibility for the sufficiency of the means used by the supplier for the fulfillment of the contract.

39. **INCREASE OR DECREASE IN QUANTITY OF CONTRACT.** The buyer reserves the right at the time of award of contract, with no adjustment in unit price (bid), to increase or decrease the quantity tendered. The buyer also reserves the right to accept or reject any or all the tenders or to waive any informality, minor deviation or omission. Award will be made to the bidder whose responsive bid determined to be the lowest evaluated bid and who meets the



specification and other terms and conditions of the tender document.

40. Should the suppliers be adjudged insolvent, the buyer shall have the power to terminate the contract.

41. **DISQUALIFICATION OF OFFER.**

a. Telex/E-mail/Swift/Fax offer may be considered provided signed copy of Proforma Invoice is received within 24 (Twenty-four) hours from the opening of the tender.

b. Any addition or alternation to the specification or rate quoted by a firm in the tender after submission not only be ignored but should also render the firms liable to disqualification.

c. Any tender received late and not strictly confirming to the terms and conditions prescribed in this tender documents not accompanied with the requisite earnest money and the money receipt of tender price and registration certificate may be liable for rejection.

42. **TAXES AND OTHER CHARGES.**

a. For CFR Chattogram /CPT Dhaka offer, all duties, taxes and other charges levied on the goods by authorities in buyer's country shall be borne by the buyer and shall not be included in the bid price.

b. For Delivery at Chittagong Dry Dock Ltd Site, all duties, taxes and other charges levied on the goods by authorities in buyer's country shall be borne by the sellers.

c. Charges of such nature in seller's country or in any country other than the buyer's country shall be borne by the sellers.

43. **BREACH OF CONTRACT.** On any breach of contract by the seller, the buyer may recover the actual loss suffered and the amount may be realized by encashing the performance guarantee.

44. **UNDER TAKING.** The manufacturers/suppliers shall issue a certificate to be effect that they have shipped the goods strictly conforming to the quality and quantity stipulated in the Purchase Order and that they will replace the defective materials and replenish the short-supplied quantity free of charge on demand by the buyer. Such certificate shall form an integral part of the original shipping documents required to be submitted to the bank for drawing of payment against letter of credit by the supplier.

45. **APPLICABLE LAW.** The purchase order shall be interpreted in accordance with the law of the buyer's country.

46. **FORCE MAJEURE.** Should any circumstance arise preventing either contracting party from wholly or partly carrying its obligations under the present contract, namely Natural Calamity, Strike, Riots, firm acts and elements of War, Military Operation of any, Nature, Blockades and any unforeseen event which is beyond human control the period stipulated for the performance of this contract shall be extended or as long as the circumstances prevail. Provided that in the event of these circumstances continuing for more than thirty days, either party may refuse to fulfill its obligations under this contract and in such case neither party shall be entitled to indemnification of any losses it may sustain. The party unable to carry out its obligation under this contract shall immediately advise the other party of the commencement and the termination of circumstances preventing the performance of the contract. A certificate issued by the Chamber of Commerce of the sellers or the buyers' country shall be sufficient proof of the existence and duration of such circumstances.



47. **ARBITRATION.** In the event of any dispute or difference arising out of the terms and conditions as specified above, the same shall be referred to the award of a sole arbitrator appointed by the parties on mutual agreement, failing which it shall be referred to the award of the two Arbitrators, from each side (buyer and seller), or in the case of disagreement between the two arbitrators, to the award of an umpire to be appointed by the two arbitrator in writing ,before proceeding on the reference of the decision of the sole arbitrator or of the two Arbitrators or the umpire as the case may be shall be final, conclusive and binding upon the parties. The provisions of the Arbitration Act 2001 and rules there under and any statutory modification there of shall deem to apply to the said arbitration. The place of arbitration shall be in Bangladesh any statutory modification enactment thereof for the time being in force in Bangladesh shall apply to the arbitration proceeding.

48. The above terms and conditions are not absolute, the Chittagong Dry Dock Ltd., Bangladesh Navy, reserves the right to incorporate additional terms and conditions, if necessary. The Chittagong Dry Dock Ltd. also not bound to accept the lowest tender and reserves the right to reject any or all tenders without assigning any reason whatsoever.

Yours Faithfully



TANVIR AHAMMAD TALUKDAR
Commander BN
For Managing Director

Enclosures:

- | | | | |
|----|---|---|------------------|
| 1. | Format of Price Schedule (Annex-A) | - | 01 (One) Page. |
| 2. | Technical Specification (Annex - B) | - | 03 (Three) Page. |
| 3. | Format of Bank Guarantee in Lieu of Earnest Money (Annex-C) | - | 01 (One) Page. |
| 4. | Format of Performance Bank Guarantee (Annex-D) | - | 01 (One) Page. |

Chittagong Dry Dock Ltd.
Bangladesh Navy, East Patenga, Chattogram

SCHEDULE TO TENDER ENQUIRY NO: 23.02.1565.341.53.006.25.362 Date: 16 March 2025

Ser.	DESCRIPTION OF GOODS	QUANTITY	Unit	PRICE PER UNIT CFR/CPT including local agent commission as per manufacturer/ principal/ supplier/ quotation/ proforma invoice Or Delivery at CDDL site (Bangladesh currency or equivalent USD/ EURO/GBP/JPY)	FREIGHT (for CFR/CPT Value only) (Bangladesh currency or equivalent USD/ EURO/GBP/JPY)	TOTAL PRICE CFR/CPT Value Or Delivery at CDDL site (Bangladesh currency or equivalent USD/ EURO/GBP/JPY)
1.	Phased Array Ultrasonic Testing (PAUT) Machine with Standard Probe and Accessories. Details technical specification attached at Annex B	01 (One)	Set			
Total =						
In Word:						

N.B. Please mention your offer price in CFR/CPT or Delivery at CDDL site.

Your quotation no

Signature, Name and Address of the Tenderer Date:

Telephone No:



TECHNICAL SPECIFICATION OF PHASED ARRAY ULTRASONIC TESTING (PAUT) MACHINE

1. **Name of the Equipment.** Phased Array Ultrasonic Testing (PAUT) Machine.
2. **Purpose.** To find hidden cracks, voids, porosity, inclusion, and similar discontinuities with accurate & detailed cross sectional pictures of internal metal structures and weld joints at fast inspection speeds.
3. **Quantity.** 01 (one) in number.
4. **Year of Manufacture.** 2024 or later. The item should be brand new and original.
5. **Country of Origin.** EU Countries, G-7 countries and South Korea.
6. **Brand.** Olympus, Topaz, Krautkramer or equivalent brand.
7. **Manufacturing Country.** EU Countries, G-7 countries and South Korea.
8. **Standard.** Phased Array Ultrasonic Testing (PAUT) machine is to be designed and constructed fulfilling the requirements of International standard. The standard to which the quoted machine complies with is to be specified in the offer.
9. **Scope of Supply.** The scope of supply is to include the followings:
 - a. Main items (01 x Phased Array Ultrasonic Testing (PAUT) machine) complete set with all items necessary for immediate operation with the requirement of any other items (attachments, features, safety devices and accessories) (as per paragraph 10 to 11).
 - b. Spare parts (as per paragraph 12).
 - c. Documents (Instruction, Operation, Maintenance Manual, Certificates, etc; as applicable) (as per paragraph 13).
 - d. Test, Acceptance and Training (as per paragraph 14 to 15).
 - e. Warranty (as per paragraph 16).

10. **Technical Specification.**a. **Instrument Specification:**

(1)	General Data		
	(a)	Brand	To be mentioned.
	(b)	Type	To be mentioned.
	(c)	Model	To be mentioned.
(2)	Input/ Output		
	(a)	Digital Input	4 or more Digital TTL inputs
	(b)	Digital output	4 or more Digital TTL outputs
	(c)	Power Output Line	Short circuit protected (Voltage and Amperage to be mentioned)
	(d)	USB Ports	Minimum 1 USB ports
	(e)	Video Output	HDMI or better
	(f)	Encoder	2 axis encoder line
(3)	Display		
	(a)	Size	25 cm diagonal or bigger
	(b)	Resolution	1280x768 pixels or better
	(c)	Viewing Angles	160° both horizontal and vertical
	(d)	Display View	Three Scan display when inspection
(4)	Power Supply		
	(a)	Power Source	Battery
	(b)	Type	Smart Li-ion battery
	(c)	Battery Life	Minimum of 5 hrs (Hot swap capable)
(5)	PAUT Specification		



	(a)	Connectors	1 PA Connector, 2 UT Connectors
	(b)	Effective digitizing frequency for data acquisition	Up to 100 MHz
	(c)	Refresh rate for data visualization	60Hz for A scan, 20Hz or more for S scan
	(d)	Scan Type	Single, Linear, Sectorial, Compound and TFM
	(e)	Number of Focal Laws	500 or more
	(f)	Aperture Element	Minimum 16 Elements
	(g)	Receiving Element	Minimum 64 Receiving Elements
(6)	Other Specifications		
	(a)	Number of data points	15,000 or more
	(b)	Rectifier	RF, full wave, half wave+, half wave-
	(c)	Video filtering	Smoothing (adjusted to probe frequency range)
	(d)	Operating temperature range	10°C to 45°C
	(e)	Storage temperature range	-20°C to 60°C (with battery) -20°C to 70°C (without battery)
	(f)	Ingress Protection	IP65 or better
	(g)	Shockproof rating	Drop tested according to MIL-STD-810G
	(h)	Overall dimension	To be mentioned
	(i)	Weight	To be mentioned

- b. **Required Phased Array Probe/ Wedge Specification.** Required number and specification of the probes to be mentioned to measure plate thickness from 6 mm to 100 mm.

- c. **Required Conventional UT Probe/ Wedge Specification.** Required number and specification of the probes to be mentioned to measure plate thickness from 6 mm to 100 mm.

- d. **Required Calibration Block Specification.**

Type	Description
ASTM E164 Calibration IIW-Type Block in 1018 Steel and Miniature Angel Block	Meets AASHTO and AWS Type 1 block requirements. Calibrates distance and sensitivity settings. Measure refracted angle and sound exit point of angle beam Transducers.

- e. **Required features.** The Phased Array Ultrasonic Testing (PAUT) machine should preferably be with following features:

a.	Single-group, non-modular.
b.	Two-axis encoding and data archiving capacity.
c.	Conventional UT, TOFD, TFM and PA capabilities.
d.	Touch screen.
e.	Compact, lightweight design.
f.	Portable & battery operated.
g.	Automatic probe recognition.
h.	Weld Overlay and Ray Tracing simulation.
i.	Pc analysis software and NDT setup builder design software
j.	Streamlined workflow Step-by-step through the required calibrations, including Velocity, Wedge Delay, Sensitivity.
k.	The instrument should have Data, reference, and measurement cursors for defect sizing.

11. **Standard Accessories.** Standard accessories must include all items and accessories which are



essential to the Phased Array Ultrasonic Testing (PAUT) machine, whether those are mentioned in this specification or not. A list of such items/ accessories along with price is to be provided with offer.

12. **Spare Parts.** A list of recommended spare parts for the Phased Array Ultrasonic Testing (PAUT) machine for 02 years running is to be provided with the quotation indicating item wise price (price should not be included in the total price).


13. **Documents.** Two (02) sets of following documents in English language are to be supplied with the Phased Array Ultrasonic Testing (PAUT) machine free of cost:

- a. Instruction manual for operation, maintenance and workshop manual.
- b. Spare parts catalogue.
- c. Quality Assurance Certificate

14. **Test and Acceptance.** Test will be carried out by the purchaser in presence of supplier's representative and if found satisfactory, certificate will be signed jointly by the buyer and representative of supplier.

15. **Training.** On acceptance of the item, the supplier's representative/ trainer will provide training on operation and maintenance of the machine to 02 x operators and maintainers for a period of at least 05 working days at buyer's premises. The trainer must be a minimum PCN Level-II in PAUT or ASNT Level III in PAUT certified person. Training schedule should be provided.

16. **Warranty.** Warranty for trouble free operation is to be given by the supplier/ manufacturer for all the supplied items for a period of 12 months from the date of acceptance by the buyer. During the warranty period, if the Phased Array Ultrasonic Testing (PAUT) machine remains non-operational for any action pending by the supplier, the warranty period will be extended for the same period. The warranty covers all parts and labour (including service engineer's cost) throughout the warranty period. For warranty repair/ replacement, the supplier will collect the defective item from Chittagong Dry Dock Limited and re-supply the same to collecting place after warranty repair or for replacement.


MOHAMMAD MAHABOOBUL ALAM
Captain CN
General Manager (Planning)
Chittagong Dry Dock Limited
Bangladesh Navy



BANK GUARANTEE IN LIEU OF EARNEST MONEY

Guarantee No.....

Dated

For (mention amount).

Dear Sirs

Whereas (Name of tender floating organization) under tender No. dated inviting tenders for supplies of (described supplies) has agreed to waive the requirement of Cash deposit/ Call deposit of US\$/ £/Tk..... being 1% (One Percent) of the value of supplies as earnest money by the tenderer for making the supplies in accordance with the terms and conditions of the tenderer and the tenderer shall provide a bank guarantee for payment for the said amount.

And whereas the tenderer M/S ofhas requested us (name of bank) of to issue as guarantee for payment of the amount of US\$/£/Tk. when called upon.

In consideration of the aforesaid, we (name of bank) of hereby undertake and guarantee due performance of the tender by the tenderer M/S. of and unconditionally and absolutely bind ourselves:

1. To make payment without any question whatsoever of US\$/£/Tk. to (Name of organization) or as directed by the organization immediately on receipt of demand from the said, organization in writing, in the event the tenderer fail to perform the tender. It is expressly understood that the organization shall be the sole judge for-deciding whether the tenderer has performed the tender and fulfilled the terms and conditions of the tender.
2. It is specially stipulated and understood by the bank that any grant of time or indulgence to the tenderer without reference to the bank shall not in any manner tent to absolve the bank from its liability to make the payment stipulated above under this guarantee.
3. The Bank's commitment under this guarantee is limited to an amount of US\$/£/Taka (.....) Only.
4. The guarantee will remain valid up to 03 (Three) months from the date of tender opening.

Yours faithfully

(Seal of the Bank)

.....Bank



PERFORMANCE BANK GUARANTEE

Managing Director Bank Guarantee No
CHITTAGONG DRY DOCK LTD Dated:
Bangladesh Navy for (Mention amount)
EAST PATENGA, CHATTOGRAM, Bangladesh

Dear Sirs

Whereas Chittagong Dry Dock Ltd, Bangladesh Navy, Chattogram, hereinafter referred to as the buyers proposed to enter into a contract through a Letter of Intent/Purchase Order No. dated hereinafter called the contract with (name of the sellers) of hereinafter referred to as the sellers for the supply of (described supplies) in accordance with the terms and conditions of the contract. And whereas the sellers have requested us (name of bank) to issue a guarantee for an amount of US\$/£/EURO/TK..... being 5% (Five Percent) of the CFR value of the supplies.

In consideration aforesaid (name of bank) hereby undertake and guarantee due observance and performance of the terms and conditions of the contract by the sellers and we unconditionally and absolutely bind ourselves.

To make payment on demand, without demur and without reference to the sellers, of US\$/£/EURO/TK. to the buyers or as directed by the buyers in writing, if the sellers shall fail to perform the contract or fulfill the terms and conditions thereof.

To keep guarantee valid and in force for **till warranty period or 18 (Eighteen) months** beyond the date of shipment but extendable if so required by the buyers.

The guarantee is unconditional and it is expressly understood that the buyers shall be sole judge for deciding whether the sellers have performed the contract and fulfilled the terms and conditions thereof.

It is specifically stipulated and understood by us (name of bank) that any grant of time or indulgence to the sellers without reference to us shall not in any manner tend to absolve us from our liability to make payment as stipulated above under this guarantee.

Our commitment under this guarantee is limited to an amount of US\$/£/EURO/TK..... Only.

Yours faithfully

.....Bank

(Seal of the Bank)

