



KHULNA SHIPYARD LIMITED

BANGLADESH NAVY, KHULNA

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BABE (F) - 632/ICCP-MGPS/2024-2025

03 June 2025

Dear Sir

INVITATION FOR QUOTATION OF IMPRESSED CURRENT CATHODIC PROTECTION (ICCP) AND MARINE GROWTH PROTECTION SYSTEM (MGPS) FOR REDUCING CORROSION AND MARINE GROWTH.

1. Khulna Shipyard Limited (KSY) will procure "Impressed Current Cathodic Protection (ICCP) And Marine Growth Protection System (MGPS) For Reducing Corrosion And Marine Growth" as per attach specification (03 Pages), following terms & condition.
2. Please send your offer CPT at Dhaka Air Port basis within **22/06/2025 (1130 Hours)** by closed envelop.
 - a) Payment: Payment will be made through Letter of Credit. 80% of the total contract value will be paid against shipping documents and rest 20% will be paid after receiving the material at KSY and satisfactory acceptance.
 - b) Shipment: 30 days from the opening date of LC.
 - c) Material value & air freight should be shown separately.
3. 03% (Three) Bid Bond/Earnest Money of the total quoted value must be submit with offer. Bid Bond may be Pay Order/Bank Guarantee (03 months validity) in favour of Khulna Shipyard Limited, Khulna.
4. 05% Performance Guarantee (PG) is to be submitted before Purchase Order.
5. Offer Validity: 30 Days from Tender Opening Date.
6. The above terms and conditions are not absolute, the Khulna Shipyard Ltd., Bangladesh Navy, reserves the right to incorporate additional terms and conditions, if necessary. The Khulna Shipyard Ltd., BN also is not bound to accept the lowest tender and reserves the right to reject any or all tenders without assigning any reason whatsoever.

Thanking You

Sk. Shah Moshir Rahman
Manager Admin
For Managing Director

TECHNICAL SPECIFICATION OF THE IMPRESSED CURRENT CATHODIC PROTECTION (ICCP) AND MARINE GROWTH PROTECTION SYSTEM (MGPS) - 3 X LCT PROJECT

1.	Name of Equipment	:	Impressed Current Cathodic Protection (ICCP) and Marine Growth Protection System (MGPS) for reducing corrosion and marine growth.				
2.	Purpose	:	The ICCP and MGPS will be used to protect the underwater surfaces of ships.				
3.	Ship's Material in different area	:	a. Hull Material: Mild Steel, Grade – AH 36. b. Shaft material: Duplex Stainless Steel, Grade-F51-4462 c. Propeller material: Aluminum Bronze.				
4.	Quantity	:	03 x complete sets of ICCP and 03 x complete sets of MGPS.				
5.	Country of Origin	:	Indonesia. (To be mentioned)				
6.	Manufacturing country	:	To be mentioned				
7.	Manufacturer	:	To be mentioned.				
8.	Type	:	To be mentioned. (If required)				
9.	Year of manufacturer	:	2024 or later. All items should be brand new and original				
10.	Shipment	:	Air Shipment				
11.	Delivery Time	:	Within 30 days after opening of LC				
12.	Nature	:	Ready in stock is preferable				
13.	Ambient condition						
	a. Temperature	:	10 ⁰ to 45 ⁰ C				
	b. Relative humidity	:	up to 98%				
	c. Location	:	on board ship				
14.	The ICCP and MGPS should have the following technical requirements for each ship:						
	a. ICCP	:	Scope of Supply per ship:				
			Ser.	Description	Qty.	Unit Price	Total price per ship
			(a)	ICCP controller power unit. i. Power/ Current: To be mentioned. ii. Voltage: To be mentioned. iii. Phase: To be mentioned. iv. Frequency: To be mentioned.			
			(b)	MMO/TI circular anode assembly. i. Type: To be mentioned. ii. Power/ Current: To be mentioned.			
			(c)	Cofferdam box for anodes.			
			(d)	Purity zinc reference electrode.			
			(e)	Cofferdam box assembly for reference electrode.			
			(f)	Anode cable Size: To be mentioned.			
			(g)	Reference electrode cable. Size: To be mentioned.			
			(h)	Power supply cable to ICCP panel			
			(i)	Epoxy filler.			

			Type: To be mentioned. Quantity: To be mentioned.			
		(j)	Others to be mentioned to complete the system as per GA.			
		Total CFR price for 3 x Ships				
b. MGPS	:	(1) Basic Information to design the MGPS.				
		(a) Material of sea water pipe line: Cu-Ni. (b) Anodes are to be fitted in sea chest. (c) Quantity of Sea chest: 12 (Twelve). (d) Max. flow rate of each sea chest as follows:				
		Ser.	Sea chest	Flow rate		
		i.	4 X Main Engine sea chests, Flow rate of each sea chest.	84.7 m3/hr		
		ii.	4 X Genset sea chests, Flow rate of each sea chest.	~ 30 m3/hr		
		iii.	1 X Ballast/ Firemain sea chest,	180 m3/hr		
		iv.	3 x Auxiliary, Flow rate of each sea chest.	~ 80 m3/hr		
		(2) Scope of Supply per ship:				
		Ser	Description	Qty.	Unit Price	Total price per ship
		(a)	MGPS control panel. i. Type: To be mentioned. ii. Power/ Current: To be mentioned.			
		(b)	Cu anode assembly. Dimension: To be mentioned.			
		(c)	Fe anode assembly. Dimension: To be mentioned.			
		(d)	Cu anode assembly. Dimension: To be mentioned.			
		(e)	Fe anode assembly. Dimension: To be mentioned.			
		(f)	Cofferdam box for anode to be mentioned.			
		(g)	Mounting flange for anode, standard to be mentioned.			
		(h)	Junction box watertight, Details to be mentioned.			
		(i)	Anode connection cable. Size: To be mentioned.			
		(j)	Others to be mentioned to complete the system as per GA.			
		Total CFR price for 3 x Ships				
15.	Standard necessary accessories	:	Any items not specified in this technical specification but essential to operate the supplied System/ Item is also under the scope of supply of the Supplier.			
16.	Documents	:	a. Supplier will provide 01 (one) copy of operation and maintenance catalogue, information (data) etc of above mentioned system in English with the offer. b. Supplier will provide 9 (nine) sets of operation and			

			maintenance catalogue, information (data) etc of above mentioned system in English during delivery of item.
17.	Certificate	:	Type Approval certification issued by a Recognized Body (other Classification Society, Flag administration or Certification Body) is to be provided with the subject mentioned items/ system. Coatings shall be recognized by LR as complying with the IMO Convention on the Control of Harmful Anti-fouling.
18.	Installation Supervision	:	Supplier will provide his engineer/ expert at KSY during installation of the ICCP and MGPS systems for first vessel only. Subsequent sets of ICCP and MGPS systems will be installed by KSY under guidance of supplier. Supplier will provide required guideline through online/e-mail/ video call etc in this regard.
19.	Test-Trial and Commissioning	:	Supplier will provide his engineer/ expert at KSY during Test-Trial and Commissioning of the ICCP and MGPS systems for three vessels.
20.	Training	:	Supplier will provide 2 (Two) days onboard training during Commissioning of the ICCP and MGPS systems for first vessel only. Subsequent sets of ICCP and MGPS systems will be trained by KSY under guidance of supplier. Supplier will provide required guideline through online/e-mail/ video call etc in this regard.