



PAMBANSANG PUNONGHIMPILAN TANOD BAYBAYIN NG PILIPINAS
(National Headquarters Philippine Coast Guard)
Technical Working Group for Ships Repair/Maintenance
139 25th Street, Port Area, 1018 Manila

SUPPLEMENTAL/BID BULLETIN NO. 03-2025

This Supplemental/Bid Bulletin No. 03-2025 is issued to include the following clarifications/changes raised by the prospective bidders and initiative of TWG as an integral part of the Bidding Documents for the **Modernization of Structural Facilities and Repowering of TB HABAGAT (TB-271)** detailed as follows:

Section VII. Technical Specifications

Section VII. Technical Specifications is hereby amended to read as and additional item/s must be included as required:

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A	DRYDOCKING & UNDOCKING WORKS			
1	Docking and Undocking	1	occasion	
2	Drydock lay days rental	120	days	
3	Mooring and Unmooring - arrival, docking, undock, depart	3	movement	
	a) Docking			
	b) Undocking			
	c) Departure			
4	Tug Assistance during towing, docking/undocking			
	a) Assist vessel on Yard movement during beaching/docking.	1	/tug/hr.	
	Mobilization/demobilization during beaching/docking	2	/tug/hr.	
	b) Assist vessel on Yard movement during unbeaching/undocking	1	/tug/hr.	
	Mobilization/demobilization during unbeaching/undocking	2	/tug/hr.	
5	Shoreline Handlers - arrival, docking, undock, depart	3	movement	
	a) Docking			
	b) Undocking			
	c) Departure			
6	Dock Preparation and Block Arrangement			
	Hull Keel Block	18	/set	
	Hull Side Block Port & Starboard	37	/set	
	Removal of Blocks	11	/set	



	Relocation of Block	11	/set
	Installation of Shoring Post	4	/set
7	Dock Master during movements docking & undock	2	movement
B	GENERAL SERVICES		
1	Wharfage - to provide berth side for afloat	15	days
2	Gangway for access during vessel stay at yard	1	/unit/time
3	Shore line Power		
	a) Connect and disconnect; 220V, single phase; 380V, 3 phase	1	time
	b) Electrical power consumption, : 45 kw/day 70 days	5400	/kwh
4	Fire line Supply (SOP)		
	a) Connect and disconnect (Fwd. and Aft)	2	time
	b) Daily maintained pressure supply	120	days
5	Fresh Water Supply		
	a) Connect and disconnect	1	time
	b) Fresh Water Supply,	5	/ton
6	Garbage Disposal (1 bin per day for 100 days)	30	cbm
7	Gas Free Inspection, : 52 days 4 tank	104	/day
8	Ventilation / Blower, : 52 days 2 units	100	/unit/day
9	Temporary Lighting, : 50 days 2 lights	100	/unit/day
10	Security Guard - SOP	120	/man-day
11	Safety Firewatch - SOP	120	/man-day
12	Yard's Equipment Usage		
	a) Forklift usage,	30	/unit/hr.
	b) Crane usage - up to 25T,	20	/unit/hr.
	c) Crane Mobilization/Demobilization	2	/time
	d) Scissor Lift for blasting and painting access	30	/unit/hr.
	e) Service boat for vessel crew usage		
	1. Arrival	8	/unit/hr.
	2. Docking	8	/unit/hr.
	3. Undocking / Shipside	8	/unit/hr.
	4. Departure	8	/unit/hr.
	f) service boat for supply of water in anchorage near yard		
	g) Cherry Picker (Access for UTG, Blasting and Painting Works)	120	/unit/hr.
13	Scaffold / Staging for access		
	a) External Staging (IWO propulsion works)	1000	/cbm
	b) Internal Staging	1000	/cbm



14	Hull Scupper chutes	1	/piece	
15	Various Testing			
	a) Vacuum Testing on weldments on main deck & bottom plates.	50	/l-mtr	
16	Provide temporary accommodation for vessel crew			
	a) Provide temporary accommodation for vessel crew (30 Crews including the CO)	4	/months	
C	EXTERNAL HULL PRESERVATION			
1	a) Hull FW high pressure Jet washing from Keel to Topside, 308.01 sqm	308	/sqm	
	b) Hull FW low pressure Washdown prior second coat, Keel to Topside, 308.01 sqm	308	/sqm	
	c) Hull Scraping from Keel to DLL 169.01 sqm	169	/sqm	
	d) Hull Manual Chipping	169	/sqm	
2	Hull Grit / Stag Blasting on the following areas.			
	a) Keel to DLL=241.44 sqm			
	Spot Blasting (SA 2.0) 30% area; allow: 72.43 sqm	72	/sqm	
	Sweep Blasting (SA 1.0) 70 % area; allow: 169 sqm	169	/sqm	
	b) DLL to Fender line=66.57 sqm			
	Spot Blasting (SA 2.0) 30% area; allow: 72.43 sqm	19.972 3	/sqm	
	Sweep Blasting (SA 1.0) 70 % area; allow: 46.6 sqm	46.601 9	/sqm	
	c) Main deck to Aft Deck=141.00 sqm			
	Spot Blasting (SA 2.0) 30% area; allow: 42.3 sqm	42.3	/sqm	
	Sweep Blasting (SA 1.0) 70% area; allow: 98.7 sqm	98.7	/sqm	
	d) Main deck to Bulwark=82.64 sqm			
	Spot Blasting (SA 2.0) 30% area; allow: 42.3 sqm	24.792	/sqm	
	Sweep Blasting (SA 1.0) 70% area; allow: 98.7 sqm	57.848	/sqm	
	e) Superstructure=184.80 sqm			
	Spot Blasting (SA 2.0) 30% area; allow: 42.3 sqm	55.44	/sqm	
	Sweep Blasting (SA 1.0) 70% area; allow: 98.7 sqm	129.36	/sqm	
	f) Weather Deck=81.42 sqm			
	Spot Blasting (SA 2.0) 30% area; allow: 55.44 sqm	24.426	/sqm	
	Sweep Blasting (SA 1.0) 70% area; allow: 129.4 sqm	56.994	/sqm	



3	Hull Painting (Yard supply paints & thinners)			
	a. Keel to DLL=241.44 sqm			
	One (1) Full coat Epoxy primer	241.44	m ² /coat	
	Two (2) Full coat Anti- Corrosive	482.88	m ² /coat	
	Two (2) Full coat Anti-Fouling	482.88	m ² /coat	
	Yard supply paints & thinners for five (5) coat systems	1207.2	m ² /coat	
	b. DLL to Fender line=66.57 sqm			
	One (1) Full coat Epoxy primer	66.574 2	m ² /coat	
	Two (2) Full coat Anti- Corrosive	133.14 8	m ² /coat	
	Yard supply paints & thinners for three (3) systems	199.72 3	m ² /coat	
	c. Main deck to Aft. Deck=141.00 sqm			
	One (1) Full coat Epoxy primer	141	m ² /coat	
	Two (2) Full coat Anti- Corrosive	282	m ² /coat	
	Yard supply paints & thinners for three (3) coat systems	423	m ² /coat	
	d. Main deck to Bulwark=82.64 sqm			
	One (1) Full coat Epoxy primer	82.64	m ² /coat	
	Two (2) Full coat Anti- Corrosive	165.28	m ² /coat	
	Yard supply paints & thinners for three (3) systems	247.92	m ² /coat	
	e. Superstructure=184.80 sqm			
	One (1) Full coat Epoxy primer	184.8	m ² /coat	
	Two (2) Full coat Anti- Corrosive	369.6	m ² /coat	
	Yard supply paints & thinners for three (3) systems	554.4	m ² /coat	
	f. Weather Deck=81.42 64 sqm			
	One (1) Full coat Epoxy primer	81.42	m ² /coat	
	Two (2) Full coat Anti- Corrosive	162.84	m ² /coat	
	Yard supply paints & thinners for three (3) systems	244.26	m ² /coat	
4	Seachest box/grids			
	1) Seachest box/grids (clean, blast, paint, refit in good order)	5	/grating	
	2) Blasting and painting of sea chest boxes	5	/chest	
5	Hull Markings Repaint			
	Re-Paint with Yard's paint on hull markings			
	1 Draft Marks, Mid, Fwd., Aft, P/S	6	/set	
	2 Ship's Name, Fwd. P/S, Stern	2	/set	
	3 Port of Registry	1	/set	
	4 Plimsoll, P/S	2	/set	
	5 Ship's LOGO, P/S "COAST GUARD" allow 10sqm per side,	20	/set	
	6 Yard supply paints & thinners for markings/names/port of	1	lot	



	registry allow:			
6	Hull Zinc Anodes	1	lot	
	Removing of wasted anodes and installation of new anodes (including rudder and seachest box)	1	lot	
	a) Plain removal of anode	29.2	/anode	
	b) Anode Installation	29.2	/anode	
	c) Yard supply Zinc Anode, @3kg Aluminum Anode	29.2	/anode	
	d) Strap/Guard Installation	29.2	/anode	
	e) Cover/Protection iwo painting	29.2	/pce	
	f) Plain removal of anode inside tank	29	/pce	
	g) Anode Installation inside tank	29	/pce	
D	STRUCTURAL AND PIPE WORKS			
1	Ultrasonic Thickness Gauging - UTG (local in-house technician)			
	a) Bottom & Side Shell Plate Gauging	928	/point	
2	Reweld Wasted Seams/ Butt / Build up - min of 1 mtr per pass	1	/l-mtr/pass	
	a) Hammer test, inspect hull & marked suspected areas before dock	1	/occasion	
	b) Hull survey/inspection prior undocking	1	/occasion	
3	Hull Replating (External)	1	/lot	
	Hull external replating using yard's supply MS plates	1	lot	
	Mild Steel Plate (MSP) (yards Supply plates) 10mm thick	1	lot	
	Above 1000kg	1	/kg	
	Above 500kg	1	/kg	
	300kg - 499kg	2	/kg	
	Below 300kg	2	/kg	
	Below 200kg	2	/kg	
4	Crop out and renew deteriorated shell plating and framing	1	lot	
	Renew/Re-plate the center keel use MS plate size 6 mm thick estimated 25 sqm	1	lot	
	3 sheets - 6 mm x 1828.71 mm x 6095.7 mmL Marine Grade MS Plate	1575.1 1	/kgs	
	a) Blasting of new plates and paint with primer paint one (1) coat	1	lot	
	New MS Plates	1	lot	
	3 sheets - 6 mm x 1828.71 mm x 6095.7 mmL Marine Grade MS Plate	66.883 7	/sqm	



	Yard supply paints & thinners for 1 coat system	66.8837	m ² /coat
	b) Conduct leak test, vacuum testing and kerosene test	1	lot
	Vacuum Testing on weldments	1	lot
	3 sheets - 6 mm x 1828.71 mm x 6095.7 mmL Marine Grade MS Plate	47.5465	/l-mtr
	c) Supply of 6 sheets Marine Grade MS plates ^ mm x 6 ft. x 20 ft.	1	lot
	3 sheets - 6 mm x 1828.71 mm x 6095.7 mmL Marine Grade MS Plate	3	/sheets
	d) Removal and renewal of ceiling, Electricals, flooring and rubber mats IWO of sundeck Replating	1	lot
	Supply of materials for the removal and renewal of Ceiling, Electricals, Flooring and Rubber Mat	1	lot
5	Hull replating on locations failed in UTG readings including deteriorated deck plates, bulkheads and freeboard decks (Estimated to be 30% of the total Hull Area)	1	lot
	9 sheets - 12 mm x 1828.71 mm x 6095.7 mmL Marine Grade MS Plate	200.651	/kgs
	a) Blasting of new plates and paint with primer paint coat	1	lot
	New MS plates	1	lot
	9 sheets - 12 mm x 1828.71 mm x 6095.7 mmL Marine Grade MS Plate	200.651	/sqm
	Yard supply paints & thinners for 1 coat system	200.651	m ² /coat
	b) Conduct leak test, vacuum testing and kerosene test	1	lot
	Vacuum Testing on weldments	1	lot
	9 sheets - 12 mm x 1828.71 mm x 6095.7 mmL Marine Grade MS Pate	143	/l-mtr
	c) Supply of 9 sheets Marine Grade MS Plates - 12 mm x 6 ft. x 20 ft.	1	lot
	9 sheets - 12 mm x 1828.71 mm x 6095.7 mmL Marine Grade MS Plate	9	/sheets
6	Renew deteriorated frame stiffeners		
	24 length: 12 mm x 75+150 mm x 6095.7 mmL Angle Bar	4030.99	/kgs
	a) Blasting of new angle bars and paint with primer paint 1	1	lot



	coat				
	New MS Plates	1	lot		
	24 length: 12 mm x 75+150 mm x 6095.7 mmL Angle Bar	32.916 8	/sqm		
	Yard supply paints & thinners for 1 coat system	32.916 8	m²/coat		
	b) Supply of 24 lengths of angle bars	1	lot		
	24 length: 12 mm x 75+150 mm x 6095.7 mmL Angle Bar	24	/sheets		
7	Recondition frozen hinges and dog locks	1	lot		
8	Replacement of rubber gaskets (1" x 2 " 50 mtrs)	1	lot		
	a) Supply of Rubber Gaskets (1" x 2" x 50 mtrs)	1	lot		
9	Fabrication and Installation of stainless fresh water storage at capacity of 1000L	1	lot		
	3 sheets - 6 mm x 1219.14 mm x 2438.3 mmL Marine Grade Stainless Steel	762.47 4	/kgs		
	a) Conduct leak test, vacuum testing and kerosene test	1	lot		
	Vacuum Testing on weldments	1	lot		
	3 sheets - 6 mm x 1219.14 mm x 2438.3 mmL Marine Grade Stainless Steel	21.944 5	/l-mtr		
	b) Supply of 3 sheets Marine Grade SS plates - 6 mm x 4ft. X 8 ft.	1	lot		
	3 sheets - 6 mm x 1219.14 mm x 2438.3 mmL Marine Grade Stainless Steel	3	/sheets		
10	Renewal of Pipelines (yard supply)	1	/lot		
	1. Minimum of one (1) meter per section. (flange to flange)	1	lot		
	Elbows, flanges, fasteners, sleeves, reducer -	1	lot		
	Testing, air testing, pickling, flushing -	1	lot		
	Pipes inside confine spaces and tanks -	1	lot		
11	Sea Water Supply System	1	lot		
	1. Recondition sea chest valves	1	lot		
	2. Replace deteriorated pipes, flanges, gasket and bolts	1	lot		
	Supply of the following materials for the se water supply system	1	lot		
	1. Pipes	10	lengths		
	2. Flanges	20	pcs		
	3. Gaskets	1	roll		
	4. Bolts	80	pcs		
12	Installation of Marine Growth Protective System (MGPS) on	1	lot		



	the following locations			
	1. Main Pipe Suction	1	lot	
	2. Fire Cannon Pump	1	lot	
	3. GS Pump	1	lot	
	4. Bilge Pump	1	lot	
	Supply of the MGPS to the following locations	1	lot	
	1. main Pipe Suction	2	unit	
	2. Fire Cannon Pump	1	unit	
	3. GS Pump	1	unit	
	4. Bilge Pump	1	unit	
13	Renew all deteriorated Fireline pipelines including valves	1	lot	
14	Recondition of fire cannon nozzle and fittings	1	lot	
E	TANK WORKS			
1	Removal/reinstallation of drain/bottom plugs	1	/set	
2	Opening/reclosing of Manhole, (yard's gasket)	8	/set	
F	CLEANING OF TANKS			
1	Fuel Oil Tank Center - 1.0 m³			
	Clean & Wipe Dry	1	Tons	
	Collect and Dispose of sludge from FOT iwo Hot Works	1	/cbm	
2	Lube Oil Tank - 1.0 m³			
	Clean & Wipe Dry	1	lot	
	Collect and dispose of sludge from FOT iwo Hot Works	1	cu. m.	
3	Lube Oil Sump Tank- 2.38 m³			
	Clean & Wipe Dry	1	lot	
	Collect and dispose of sludge from FOT iwo Hot Works	2	cu. m.	
4	Sludge tank-0.05 m³			
	Collect and dispose of sludge from FOT iwo Hot Works	1	cu. m.	
5	Fuel Oil Tank No. 1 (2 Tanks) - 5.4 m³			
	Clean & Wipe Dry	1	lot	
	Collect and dispose of sludge from FOT iwo Hot Works	5	cu. m.	
	Pump out and in thru centrifugal pump residual fuel	5	ton	
	Provide Tank Storage for Fuel	120	day	
6	Fuel Oil Tank No. 2 (2 Tanks) - 7.4 m³			
	Clean & Wipe Dry	1	lot	
	Collect and dispose of sludge from FOT iwo Hot Works	7	cu. m.	
	Pump out and in thru centrifugal pump residual fuel	7	ton	
	Provide Tank Storage for Fuel	120	day	
7	Fuel Oil Tank No. 2 (2 Tanks) - 7.4 m³			



	Clean & Wipe Dry	1	lot
	Collect and dispose of sludge from FOT iwo Hot Works	7	cu. m.
	Pump out and in thru centrifugal pump residual fuel	7	ton
	Provide Tank Storage for Fuel	120	day
8	Fuel Water Tank - 10.4 m³		
	Clean & Wipe Dry	10.4	lot
9	Water Ballast Tank - 112.7 m³		
	Clean & Wipe Dry	113	Lot
10	Engine Room Cleaning IWO hot works Activities		
	Remove and reinstallation of E/Room floor plate iwo tank cleaning	1	lot
	Clean & Wipe Dry	1	lot
	Application of 2 coats marine epoxy paint	100	m²/coat
11	Yard supply paints & thinners for 2 coat system	100	m²/coat
G	ANCHORS/CHAINS AND LOCKERS WORKS		
	Range out/in anchor chain from c/locker & lay-out to dock floor	2	/set/s
	De-rust chain slagblasting to SA 2.0	2	/set/s
	Calibrate anchor and chain & issue certificate	2	/set/s
	Disconnect/reconnect bitter ends.	2	Sets
	Renew anchor/chain swivel.	10	Pcs
	Free-up frozen swivel.	10	per piece
	Free-up tangled chains.	10	per set
	Apply one coat (chain & anchor)	2	per set
	Pumping out sea water & bail-out mud from chain locker	10	/drum
	Apply paint/coating to chain locker - yard's paint	2	/locker
	a) Supply of paint/coating to chain lockers	100	sqm
	b) Supply of paint to chain and anchor	100	sqm
H	TAILSHAFT WORKS		
	Fixed Type Tailshaft, assuming 135 mm-D of shaft	2	time/s
	Remove/re-install rope guard.	2	time/s
	Check bearing clearance of tailshaft.	2	location/s
	Decouple/re-couple, jump off tailshaft	2	shaft/s
	Remove, lay aside and reinstallation of intermediate shafts	2	unit/s
	Draw out Tailshaft	2	shaft/s
	Transport tailshaft to shop for	2	shaft/s



works						
Transport intermediate shaft to shop for works		2				shaft/s
Disassemble/assemble packing gland, P/S		2				shaft/s
Renewal of packing using yard supply materials		2				shaft/s
Dye check tailshaft tapered ends @ coupling and propeller side.		4				/shaft
Conduct Honing/blue fitting of port/starboard side propeller taper cone both propeller side and coupling sides.		2				/loc
Removal of Existing deteriorated bearing and replaced with newly fabricated bearing (Yard Supply)		4				bearings
Clean & polish of tailshaft.		2				shaft/s
Mount tailshaft to lathe machine, clean & polish and check straightness tailshaft.		2				shaft/s
Check and calibrate tailshaft's sleeves		2				/sets
Recondition bolt/nuts, flange		16				pce
Check radial/ axial alignment		2				shaft/s
Renew inboard/outboard bearings using yard supply materials.						
A. Inboard Bearing P/S (With assuming bearing dimensions)						
2 sets 5.47 ID 9.84252 in-L (Fabrication of bearing by boring of holes)		463.00 9				cu. in.
2 sets 9.09 OD 9.84252 in-L (Fabrication of bearing by Skimming)		561.93 9				sq. in.
B. Outboard Bearing (With assuming bearing dimensions)						
2 sets 5.47 ID 18.1102 in-L (Fabrication of bearing by boring of holes)		851.93 6				cu. in.
2 sets 9.09 OD 18.1102 in-L (Fabrication of bearing by Skimming)		1033.9 7				sq. in.
C. Supply of Thordon Bearing		4				set
I PROPELLER WORKS						
Fixed Type Propeller; 1101-1200 mmOD		2				lots
Clean and polish propeller blades.		2				unit/s
Unfreeze, remove/reinstall propeller lock nut		2				unit/s
Removal/reinstallation of propeller blades		2				unit/s
Pull out rubber seal and re-install		2				unit/s
Propeller Reconditioning and repitch		2				set/s



	Haul to shop propeller blades	2	set/s
	Dye check blade roots	2	/set
	Pull-out and re-install propeller hub	2	/set
J	RUDDER WORKS		
	: 151-175 mm dia.	2	lots
	Check clearance of pintle bearing	2	pce
	Repack rudder stock gland using yard supply materials	2	pce
	Unfreeze, recondition rudder stud bolts/huts	12	pce
	Disassemble/re-assemble steering gear.	2	set/s
	Remove/re-installation of blade.	2	set/s
	Remove and re-install rudder stock.	2	set/s
	Machine to finish rudder stock	2	/pc
	Transport rudder stock to shop for works.	2	stock/s
	Mount on lathe machine to check lateral or torsional distortion.	2	set/s
	Clean rudder stock tailshaft & apply preservation coat	2	pce
	Break solid cement sealed at rudder flanges, re-cement	2	set/s
	Check bearing clearance of rudder stock.	2	shaft/s
	To perform swing test of rudder stocks and blades	2	shaft/s
	Renew inboard/outboard bearings using yard supply materials.	1	lot
	A. Inboard Bearing P/S (With assuming bearing dimensions)	1	lot
	2 sets 5.47 ID 9.84252 in-L (Fabrication of bearing by boring of holes)	253.53 9	cu. in.
	2 sets 9.09 OD 9.84252 in-L (Fabrication of bearing by Skimming)	387.22 2	sq. in.
	B. Outboard Bearing (With assuming bearing dimensions)		
	2 sets 5.47 ID 18.1102 in-L (Fabrication of bearing by boring of holes)	158.46 2	cu. in.
	2 sets 9.09 OD 18.1102 in-L (Fabrication of bearing by Skimming)	242.01 4	sq. in.
	C. Supply of Thordon Bearing	4	sets
K	VALVES & MACHINERY WORKS		
	Valve Works		
	1. Grind in place, suction valves seating, paint & repacking using yard's materials.	1	lot



	2. Remove & reinstall back valves	1	lot	
	3. Elbow, flanges, fasteners, sleeves, reducer -	1	lot	
	4. Testing, air testing, picking, flushing -	1	lot	
	5. Pipes inside confine spaces and tanks -	1	lot	
L	MISCELLANEOUS AND ADDITIONAL WORKS			
1	Shell Expansion Plan			
	Provided Four (4) copies of Shell Expansion Plan indicating the work done in the vessel, w/ reference plan.	1	lot	
2	Electrical Megger Testing	1	lot	
	0- 25 KW	1	lot	
	26 KW- 50 KW	1	lot	
	51KW-100KW	1	lot	
	101 KW- 500 KW	1	lot	
3	Sea Trial			
	Provide technical crew during sea trial incl. Service boat @ anchorage	1	trial	
4	Other Works			
	Fire Cannon Engine & pump (Mitsubishi M-6D14P)	1	set	
	Conduct PMS on both of the Fire Cannon Engine and Pump	1	set	
5	General Service Pump and Motor for reconditioning (7.5 kW, 220VAC, 3-phase, 4 poles, 1800 RPM)	1	set	
	Dismantle Unit	1	lot	
	Cleaning Main Stator, Main Rotor, Exciter Stator Rotor & parts using 25 SD	1	lot	
	Bake to Dry using Strip Water	1	lot	
	Conduct Megger Test	1	lot	
	Apply Red Insulating Varnish & Pre Heat again	1	lot	
	Assemble Unit	1	lot	
	Conduct Final Instrumentation Test	1	lot	
	Test run the unit	1	lot	
6	Bilge Pump and motor for reconditioning	1	set	
	Dismantle Unit	1	lot	
	Cleaning Main Stator, Main Rotor, Exciter Stator, Exciter Rotor & parts using 25 SD	1	lot	
	Bake to Dry using Strip Heater	1	lot	
	Conduct Megger Test	1	lot	
	Apply Red Insulating Varnish & Pre Heat again	1	lot	



Assemble Unit	1	lot
Conduct Final Electrical Instrumentation Test	1	lot
Test run the unit	1	lot
7 Defective pressure gauge	1	lot
Replacement of found nonfunctional pressure gauges	2	units
8 Rubber Fenders and Chain Fenders	1	lot
a) Replacement of damage tire fenders	1	lot
b) Replacement of chain with 24 pcs D-shackles (20mm dia.) x 25 mtrs	1	lot
To be coated with 2 full coat marine epoxy paint and 2 full coats top coat black	1	lot
c) Chain fenders to be suited with rubber hose, 1-1/2 dia. X 25 mtrs	1	lot
d) Relocated chain pad-eye at top of bulwark 24 pcs	1	lot
9 Supply of the following materials for Rubber and Chain fenders Works	1	lot
1. Tire Fenders	12	pcs
2. Chain-20 mm-D x 25 mtrs	25	mtrs
3. D-shackles	24	pcs
4. Rubber Hose	25	mtrs
5. Yard supply paints & thinners for 4 coat system	100	m ² /coat
10 Fairlead Rollers	12	sets
a) free-up frozen fairlead rollers	1	lot
b) Apply 2 full coat of marine epoxy paint and 2 full coats top coat black	1	lot
Yard supply paints & thinners for 4 coat system	100	m ² /coat
11 Main Mast		
a) De-rust, chipping, power tooling	100	sqm
b) Painting	100	sqm
c) Renew pulley at side arm, 4 pcs	4	sets
d) Fabricate and install nav. Light base, to be determined by CO the location	1	lot
12 Supply of the following materials for the main mast works	1	Lot
a) Pulley	4	pcs
b) Yard supply paints & thinners	100	m ² /coat
13 Air Compressor Pump Reconditioning	1	set
Dismantle Unit	1	lot



	Cleaning Main Stator, Main Rotor, Exciter Stator, Exciter Rotor & parts using 25 SD	1	lot
	Bake to Dry using Strip Heater	1	lot
	Conduct Megger Test	1	lot
	Apply Red Insulating Varnish & Pre Heat again	1	lot
	Assemble Unit	1	lot
	Conduct Final Electrical Instrumentation Test	1	lot
	Test run the unit	1	lot
14	Air Compressor Works	1	lot
	Conduct hydrotesting on air compressor tank	1	lot
	All mounted valves subject for reconditioning, safety valves for testing	1	lot
	All air pipe line subject for air test	1	lot
	Replace defective pressure gauges	1	lot
15	Engine Room Blowers	1	lot
	Reconditioning of fan blades	1	lot
	Replacement of Vent Screen, 4 sqm	1	lot
	Replacement of Rubber Gasket	1	lot
	Renew Flange Bolts and Nuts (SS)	1	lot
	Free-up frozen handle wheel of dampers	1	lot
	Repair deteriorated blower casing and cowl	1	lot
16	AC Unit (1.5 HP)	5	units
	Subject for check-up, servicing and replace deteriorated parts	1	unit
	Supply and replace one (1) AC unit 1.5 HP at pilot house	1	lot
17	Lightings and Electrical Wirings	1	lot
	Check electrical fixtures such as fluorescent bulbs, ballasts, starters, receptacles, outlets, flood lights	1	lot
	Replace if necessary, including Search Light and Navigational Lights	1	lot
18	Supply of the following electrical fixtures and Navigational Lights	1	lot
	Fluorescent bulbs	10	pcs
	Ballasts	10	pcs
	Starters	10	pcs
	Receptacles	10	pcs
	Outlets	10	pcs
	Flood lights	4	pcs



	Search lights	2	pcs
	Navigational lights	1	lot
19	Windlass Works	1	lot
	Renewal of windlass base	1	lot
	Reconditioning of Windlass	1	lot
	Replacement of Hydraulic hoses and fittings	1	lot
	Supply of Materials of Windlass Works	1	lot
	Hydraulic Hoses	1	lot
	Fittings	1	lot
	Base of Windlass materials	1	lot
20	Canopy Canvass Works	1	lot
	Removal of Existing Supply, deliver and Replacement of Canopy Canvass on the following locations	1	lot
	Fantail Deck, Area=20.4 sqm	1	lot
	Weather Deck, Area=74.1 sqm	1	lot
21	Bridge Works	1	lot
	Replace windshield wiper at port side	1	lot
	Install windshield wiper at starboard side	1	lot
	Refurbish Captain's Chair	1	lot
	Remove and Reinstall ceiling in-way of sun deck replating	1	lot
	Replace floor matting	1	lot
	To install curtains on all windows	1	lot
	Refurbish chart table, drawers and cabinets	1	lot
	Refurbishment of bridge interior walling including cleaning, de-rusting and repainting	1	lot
	Repair door knobs	1	lot
	Supply of Materials for Bridge Works	1	lot
	Windshield Wipers (Port and Starboard)	2	units
	Floor Matting	1	lot
	Curtains	5	sets
	Carpentry Works	1	lot
22	Crew Wash Room and Comfort rooms	1	lot
	Replace sliding door with new partially frosted glass sliding door	1	lot
	Renew floor tiles (20 cm x 20 cm), Area=4.2 sqm	1	lot
	Install new mirrors	1	lot
	Install new lavatory sink (45 cm x 40 cm)	1	lot
	Replace shower heads with stainless type, 1/2" Dia	1	lot



	Replace old pipes and elbow with new G.I pipe and elbows	1	lot
	Remove old toilet bowl and replace with water closet type	1	lot
	Supply of Materials for Wash and Comfort Room Works	1	lot
	Sliding Door (Partially frosted glass)	2	units
	Floor Tiles (20 cm x 20 cm)	105	pcs
	Mirror	3	pcs
	Lavatory Sink (45 cm x 40 cm)	3	pcs
	Shower heads (Stainless)	2	pcs
	Faucets (Stainless, 1/2: Dia)	3	pcs
	Pipes	5	lengths
	Elbows	3	pcs
	Toilet Bowl (Water Closet Type)	2	units
	Tile Adhesive	20	kgs
23	Accommodation and Staircase Works	1	lot
	Replace laminates on walls in accommodation, staircase and bunks	1	lot
	Repaint bunks and lockers with varnish	1	lot
	Replace mattresses sheets	1	lot
	Supply of comforters and pillow case	1	lot
	Supply and install curtains with curtains holders	1	lot
	Supply of materials for Accommodation and Staircase Works	1	lot
	Laminates for Walls in Accommodation	5	sheets
	Laminates for Walls in Staircase	2	sheets
	Laminates for the bunks beds, 7 bunks beds	3	sheets
	Mattress	16	pcs
	Comforters	16	pcs
	Pillows	16	pcs
	Pillows Cases	16	pcs
	Curtains	16	pcs
	Curtains Holders	16	pcs
24	Accommodation and Bridge	1	lot
	Remove existing insulating from walls and ceilings of CO's cabin, ward room, forward accommodation and bridge	1	lot
	Ceiling, Area=49.1 sqm	1	lot
	Wall, Area=78.5 sqm	1	lot
	Supply of Eco Foam Polyurethane insulation, Total Area=127.6 sqm	1	lot
25	Life Saving Equipment	1	lot



	Servicing of Life raft, 2 units., 25 pax each	1	lot
	Install new life ring with lifeline and light buoy	1	lot
	Supply of new and replacement of SART	1	lot
	Supply of the following equipment	1	lot
	Life ring with lifeline and light buoy	4	sets
	SART	1	pc
	Smoke signal	2	pcs
	Parachute Flares	4	pcs
	Hand Flares	4	pcs
26	Fire Fighting Equipment	1	lot
	Conduct servicing of all fire extinguishers	1	lot
	Supply and install firehose with nozzle and box at starboard side passageway	1	lot
	Supply of the following Fire Fighting Equipment	1	lot
	Fire hose	1	set
	Nozzle	1	pc
	Fire cabinet	1	pc
	Fireman's outfit	3	pcs
	SCBA (self-contained breathing apparatus)	2	pcs
27	Galley Works	1	lot
	Declogged piping drainage on floors and wash basin. Replace deteriorated pipes, elbows	1	lot
	Refurbishment of overhead kitchen cabinet	1	lot
	Repair galley door and lock	1	lot
	Renew floor tiles with 20 cm x 20 cm ceramic tiles, Area-0.5 sqm	1	lot
	Supply of the materials and appliances for galley	1	lot
	1. Pipes	10	lengths
	2. Elbows	5	pcs
	3. Carpentry Works Materials	5	sheets
	4. Ceramic Floor Tiles (20 cm x 20 cm)	13	pcs
	5. Tile adhesive	5	kgs
	6. Refrigerator (LG 24 cu. Ft)	1	unit
	7. La Germania 5 induction cooking areas with Electric Multi-function oven	1	unit
28	Ward Room	1	lot
	A. Replace Laminates on wardroom walls	1	lot
	A.1. 2 sets – 190cm x 175cm	1	lot
	A.2. 2 sets – 235cm x 175cm	1	lot
	B. Passageways- 400cm x	1	lot



	210cm			
	C. Replace chair's foam and upholstery at wardroom	1		lot
	D. Renew ceiling (235cmx190cm)	1		lot
	E. Recondition port holes	1		lot
	F. Supply and install Plexiglass Acrylic Sheet clear at Dining Table, (130cmx76cm)	1		lot
	G. Replace electrical outlet below dining table. 2 pcs	1		lot
	Supply of the materials for ward room works	1		lot
	1. Laminates for walls; Area= 14.875 sqm	5		sheets
	2. Laminates for Passageways; Area=0.84 sqm	1		sheet
	3. Ceiling material; Area=4.5 sqm	1.5517 2		sheets
	4. Plexiglass Acrylic Sheet clear; Area=1 sqm	1		pc
	5. Electrical outlet	2		pcs
	29 CO's Cabin	1		lot
	A. Replace Laminates on wardroom walls including locker	1		lot
	A.1. 2 sets – 190cm x 175cm	1		lot
	A.2. 2 sets – 235cm x 175cm	1		lot
	B. Renew ceiling, (235cmx190cm)	1		lot
	C. Recondition port holes	1		lot
	D. Supply and install Plexiglass Acrylic Sheet clear at Dining Table, (104cmx59cm)	1		lot
	E. Repaint with varnish CO's bunk and locker	1		lot
	F. Replace mattress sheet	1		lot
	Supply of the materials for CO's cabin works	1		lot
	1. Laminates for walls	5		sheets
	2. Ceiling material	6		sheets
	3. Plexiglass Acrylic Sheet clear	1		pc
	4. Varnish	1		lot
	5. Mattress	1		pc
	30 Air Horn	1		lot
	A. Supply and replace airhorn (130Db sound power4-9 kgf/cm2 air pressure Frequency 440Hz Brand:	1		lot
	31 Wind Tracker	1		lot
	A. Supply and install wind tracker with Davis Vantage Vue Weather Station	1		lot
	32 Intercom	1		lot
	A. Supply and replace with new Intercom unit including wirings,	1		lot



	telephone units and accessories.				
	A.1. Bridge	1	lot		
	A.2. CO's cabin	1	lot		
	A.3. forward accommodation	1	lot		
	A.4. engine room	1	lot		
	A.5. aft steering room	1	lot		
	A.6. fantail	1	lot		
	A.7. aft accommodation area	1	lot		
	Supply of intercoms in the following locations mentioned above	7	pcs		
33	PA System	1	lot		
	A. Supply and replace PA system and wiring with programmable PA unit	1	lot		
	A.1. Music must be over ride by announcement or call	1	lot		
	Supply of materials and of PA system	1	lot		
	1. PA system	1	lot		
	2. Wirings	1	lot		
34	Magnetic Compass	1	lot		
	A. Repair, recalibrate and compensation of magnetic compass	1	lot		
35	Doppler Speed Log	1	lot		
	A. Check speed log, replace if necessary. Doppler Speed Log Tokyo-Keiki TD-340	1	lot		
	Supply of Doppler Speed Log	1	unit		
36	Echo Sounder	1	lot		
	A. Supply and replace with new echo sounder	1	lot		
	Supply of brand-new echo sounder	1	unit		
37	RADAR				
	A. Supply and install of RADAR with new JRC-LB33264	1	lot		
	Radar At least 48 NM , Chartplotter at least 12" widescreen HD, 720x1280 resolution, with RealVision 3D. With Sonar built-in	1	unit		
M	ADDITIONAL WORKS AND REPAIR REQUEST				
	1. Reconditioning of towing hook	1	lot		
	2. Reconditioning of gun mount, 2 sets, P&S	1	lot		
	2.A. Gun mount base to convert into bolted type, 3 legs each, 6 legs in total.	1	lot		
	Supply of materials for gun mount reconditioning				
	3. Replace of plumber block at	2	lengths		
		1	lot		



	towing arc roller, 2 pcs, 4-in.Ø.	2	pcs
	Supply of plumber block at towing arc roller, 2 pcs, 4-in.Ø.		
	4. Recondition and repair of rubber boat davit, 1 set	1	lot
	5. Supply and install outboard gasoline engine motor for rescue boat, 1 set	1	set
	Outboard Engine (40HP)		
	Engine Type: 4-stroke, single overhead cam (SOHC), 3 cylinders, 6 valves		
	6. Supply and installation of CCTV System on the following locations		
	6.A. Engine Room, M/E & A/E, P&S	4	pcs
	6.B. Fantail, P&S	2	pcs
	6.C. Bridge, P&S	2	pcs
	7. Supply of Binoculars	1	pc
	8. Generate As-Built Plans, as follows:		
	8.A. Fire Fighting and Life Saving Arrangement Plan	1	lot
	8.B. General Arrangement Plan	1	lot
	8.C. Tank Capacity Plan	1	lot
	8.D. Midship Section Plan	1	lot
	8.E. Construction Plan	1	lot
	8.F. Electrical Wiring Diagram	1	lot
	9. Repair of pipe railings	1	lot
	Supply of materials for pipe railing works	3	lengths
	10. Install pilot access at side bulwark	1	lot
	11. Repower Auxiliary Generator Set	2	sets
	Configuration		
	- Capacity of at least 105kVa - At least 60Hz (1800rpm) Frequency - minimum of Bore and Stroke: 105mm x 130mm		
N	REPOWERING WORKS		
	Scope of Works	1	lot
	A. Removal of 2 (Two) Units Existing Engine	1	lot
	B. Modification of Existing Engine Bed to New Bed	1	lot



Structure				
C. Lifting and Rigging Down of New Engines & Gearboxes from Cargo Deck to Engine Bed	1	lot		
D. Alignment of Port Side and Starboard Side New Engine & Gearboxes to Respective Propeller Shafts	1	lot		
E. Pipe Works for Port Side and Starboard Side New Engines and Gearboxes	1	lot		
F. Installation of Port Side and Starboard Side New Main Engine & Gearboxes Accessories	1	lot		
G. Supply Materials, Fabrication and Machining	1	lot		
H. Start-Up, Dock Trial & Sea Trial	1	lot		
Supply of Equipment	1	lot		
A. Supply of Two (2) units NEW ENGINE WITH MARINE GEARBOX	2	units		
Configuration: - At least 750hp rated power - minimum 2520 N-m torque at maximum power as per Performance Curve Graph - at least 2100 rpm Rated Speed - Bore and Stroke: Maximum 150mm x 150mm - Displacement: Minimum of 15.90 liters - at least 15 to 1 Compression Ratio - Minimum of 137L/hr Fuel Consumption 6 inline cylinder - minimum of 1985kg Dry massmates 4 cycle, minimum of 2103mm in length 1172mm in width and 1196mm in height - Mechanical-Inline Injection Pump or Common-rail injection				
Requirement/s if awarded the contract:				
A. Delivery and Inspection Site:				
1.	Project Completion Period: Modernization of Structural Facilities and Repowering of TB HABAGAT (TB-271) – Within One Hundred Twenty (120) calendar days from receipt of Notice to Proceed.			
2.	Project Delivery Site: The winning bidder's owned and/or			



	with JVA exclusive Dry-Docking facility with valid and updated MARINA Certificate of at least Class B Ship Building and Ship Repair (SBSR) Facilities.	
B. During Post Qualification:		
1.	The winning Bidder having the Lowest or Single Calculated Responsive Bid (L/SCRB) shall present the original submitted documents for verification and validation in accordance with the Implementing Rules and Regulations (IRR) of Republic Act (RA) 12009.	
C. Inspection and Acceptance:		
1.	The CONTRACTOR shall conduct sea trials for satisfactory result prior acceptance.	
2.	Upon satisfactory completion of works and testing, a Certificate of Acceptance on all completed works shall be properly signed by members of the PCG TIAC.	
D. Warranty Period/ Coverage of Warranty:		
1.	One (1) year warranty after issuance of the Certificate of Final Acceptance or the Inspection and Acceptance Report (IAR)	
2.	The one (1) year warranty period shall be reckoned from the date of issuance of the certificate of final acceptance. However, if the same defects occurred for two (2) consecutive times within the warranty period on a particular part/item and its attendant part, the warranty period shall be automatically extended for a period of six (6) months after the expiration of the original warranty period. The said item should be repaired and/or replaced within fifteen (15) days from the receipt notice.	
3.	Conduct Preventive Maintenance Schedule (PMS) of inclusive one thousand (1000) running hours or one (1) year, whichever comes first for newly installed Main Engine and Generator Set.	
4.	At least ten (10) years guarantee of engine spare parts and service availability.	
5.	The following factory installed parts and equipment Warranty Period is two (2) years from the date of delivery against factory defects. Items are covered by the warranty as outlined below: - Main engines - Gearboxes - Gensets - Newly Installed associate piping - Navigational Equipments	
E. Payment:	Payment should be made after the completion, inspection and acceptance of the Modernization of Structural Facilities and Repowering of TB HABAGAT (TB-271).	

As evidence of the compliance of the bidders to the legal, technical and financial requirements of the project and proof of their compliance to the statements of compliance to all parameters of the technical specifications, the bidders shall submit the following documentary requirements as part of the First (1st) Bid Envelope (Eligibility Documents and Technical Component) on or before the deadline for the Submission and Receipt of Bids:

1. Certificate of “No Late Delivery” or “No Slippage” issued by the Project Management Office (PMO) or Procurement Service of the Procuring Entity (PE) or from other government agencies with the same nature of project
2. ISO 9001:2015 Certificates applicable to Ship Building and Ship Repair and issued by any member of the International Association of Classification Society (IACS). The IACS member who issued the ISO 9001:2015 Certificate should be active for at least three (3) years prior to the bid opening.
3. Valid Marina Licensed at least Class B shipbuilding and ship repair.
4. Valid Ship Repairs Liability Insurance Certificate.
5. List of after sales service centers strategically located in all parts of the country (1 service center located each in Luzon, Visayas, and Mindanao).
6. Certificate of Dealership/Distributorship solely issued by the Genset and Marine Engine Manufacturer stating that the bidder is an authorized dealer/distributor of MARINE DIESEL ENGINE and GENSET, parts and its service center are strategically located in the Philippines. The dealer/distributor of MARINE DIESEL ENGINE and GENSET must be based in the Philippines for more than ten (10) years.
7. Certificate of Distributorship from Original Equipment Manufacturer (OEM) for the Marine Engine, Genset and Navigational Equipment.
8. Valid and updated Mayor’s Permit or Business Permit since the repowering of the marine diesel engine and genset should be conducted in the winning supplier or service provider’s own drydocking facility.
9. Certificate of Inspection signed by the Commanding Officer of the vessel after the conduct of inspection for confirmation of scope of work on the Modernization of Structural Facilities and Repowering of TB HABAGAT (TB-271).
10. List of manpower/workers for the project.
11. Brochures, pamphlets, pictures, operations and maintenance manual/s and/or other product literature for brand new main engines and generator set, and navigational equipment.
12. Certificate of origin issued by the manufacturer of marine engine and marine genset.

13. Proof or list of Manufacturers of Marine Engine, Marine Genset and Navigational Equipment which shall be in any



country or continent listed below:

e. Europe f. France

f. Australia g. United Kingdom

g. Japan h. Canada

h. United States e. Singapore

of America

X X X

For guidance and information of all concerned *h/s/ps*

RADM HOSTILLO ARTURO E CORNELIO PCG

Chairperson, NHQ-PCG Bids and Awards Committee

Received by the Bidders:

Name: _____
Date: _____

