

SEPARATE QUOTATIONS REQUIRED FOR ATTACHED 16 X IT SPECIFICATIONS

SINGLE STAGE TWO ENVELOPE PROCEDURE

INSTRUCTIONS FOR BIDDERS (SINGLE STAGE, TWO STAGE BIDDING PROCEDURE)

In accordance with applicable PPRA Rules and DPPI-35, all participating firms are required to submit their bids under the SINGLE-STAGE, TWO STAGE ENVELOPE Bidding System for the listed items. Each bid shall consist of two separate sealed envelopes, clearly marked "Technical Proposal" and "Commercial Proposal", and placed within two outer sealed envelopes.

Stage I – Technical Proposal (First Envelope)

The Technical Proposal shall be submitted without any reference to prices or financial information and must include the following:

1. A clear understanding of the scope of work and objectives of the assignment
2. Relevant experience of the firm in similar or comparable projects
3. Details of sourcing arrangements for goods and/or services proposed for the assignment
4. Proposed methodology and work plan.
5. Approach for successful and timely completion of the work
6. Copies of relevant documents, including but not limited to:
 - Company profile.
 - Registration certificates
 - NTN / STRN (where applicable)
 - Past performance certificates or client references

The Technical Proposal will be evaluated first. Only firms whose Technical Proposals are found responsive and compliant with the prescribed requirements will qualify for Stage II (Commercial Evaluation).

Stage II – Commercial Proposal (Second Envelope)

The Commercial Proposal shall be submitted in a separate sealed envelope and must include:

1. Complete item-wise price breakdown for all goods to be supplied and/or services to be rendered
2. Clear description of the scope of work or services covered under the quoted prices
3. All prices quoted in Pakistani Rupees (PKR), inclusive of applicable duties and taxes, as detailed below:
 - **General Sales Tax (GST) @ 18%** on applicable goods
 - **Sindh Sales Tax (SST) @ 15%** on services rendered

REPAIR/ REPLACEMENT OF HAND SET OF I-SAT DOCK-II MARINE - PMSS BARKAT

S No	Description		
1.	Ship's Name	PMSS BARKAT	
2.	Parent Equipment	ISAT DOCK-II MARINE SET	
3.	OEM	INMAR SET	
4.	Make/ Model	ISD 2 MARINE	
5.	Serial No	MMN 12810	
6.	Origin	CHINA	
7.	Sub Equipment	Handset	
8.	Assembly components	I-SAT DOCK-II Marine Handset	
9.	Quantity	S No	Qty
		a.	01
10.	Source of availability	M/s Secure Vision	
11.	Justification of work	Components are critically required for operation-ability of ISAT DOCK-II Marine Hand set onboard	
12.	Details Scope of Work	a	b
		Details of Repair work Required	Details of services Required
		Replacement of ISAT DOCK-II Marine Hand Set	c Details of Spares Required - Digital Multimeter 2 x 12V7AH Batteries
13.	Technical Specs	a. Power supplied by ISAT DOCK-II 10-32VDC 4AMP b. Temperature range: (-40°C to 70°C), Frequency: L BAND (1-2 GHz)	
14.	Eligibilities	a. The firm should visit onboard, access the extent of required work and understand the exact nature of defect before quotation. b. The firm must have sufficient experience of some kind of work and experience c. The firm should be NTN/ GST registered	
15.	EDC	07 xdays after issuance of work/confirmation order.	
16.	Warranty	01 Year or as per OEM Standard (whichever is higher)	
17.	Acceptance Criteria	a. Satisfactory work done by the firm. b. Successful completion and acceptance by the end user. Satisfactory trials (HATs/ SATs).	

IT SPECIFICATIONS
PROCUREMENT OF STORES – HQ PMSA

S No	IT Specifications				
1.	Unit/ Establishment	HQ PMSA			
2.	Justification	Under mentioned stores are required for up keep and maintenance of HQ PMSA			
3.	Store Required	S. No	Description	Den	Qty
		a.	Paint White Finishing for Weather Work	Ltrs	780
		b.	Thinner	Ltrs	500
		c.	Paint Weather Work Finishing, Light Grey	Ltrs	380
		d.	Paint for Under Coat (Light Grey)	Ltrs	40
		e.	Paint Intergard 400 Dark Grey	Ltrs	40
		j.	Paint Black Gen Service	Ltrs	400
		k.	Paint Enamel Red	Ltrs	92
		l.	Paint Red Signal	Ltrs	20
		p.	Paint Priming Red Oxide of Iron Zinc	Ltrs	320
		q.	Paint Pale Green	Ltrs	196
		r.	Paint Royal Blue	Ltrs	120
		s.	Paint Finishing Orange/ Gummi paint	Ltrs	24
		t.	Paint Golden Yellow	Ltrs	120
		u.	Paint Remover	Ltrs	44
		v.	Paint Finishing Red	Ltrs	80
		w.	Paint Priming Aluminum	Ltrs	92
		x.	Paint Drier	Ltrs	100
		y.	Paint Finishing (Sky Blue)	Ltrs	40
		z.	Paint for Interior Dire Retard (Pale Cream)	Ltrs	52
		aa.	Paint Oil Finishing For Measures (Blue)	Ltrs	24
		bb.	Paint Light Blue	Ltrs	32
		cc.	Paint Instrument	Ltrs	40
4.	Eligibility Criteria	a. FRB & SBR registered firm.			
5.	EDC	Within 30 Days			
6.	Warranty	01 x Year			
7.	Acceptance Criteria	Accepted by end user			

PROCUREMENT OF MAIN & AUXILIARY MACHINERY FILTERS - PMSS DASHT

S No	Details															
1.	Ships Name	PMSS DASHT														
2.	Parent Equipment	Main Engines GENSETS														
3.	OEM	MTU Germany Caterpillar														
4.	Model	16V4000M73L CAT C-9														
5.	Origin	Germany China														
6.	Sub Equipment	Filters														
7.	Part No. of Assembly Component	XP26183000032 0180943002 X59408300151 X52718300075 1R-1808 4L-9852 IR-0750	Lube Oil Filters Air Filters Fuel Filters for MTU Lube Oil Filters Oil Filters Air Filter Element Oil Filters	04 04 04 04 04 04 04												
8.	Quantity	As mentioned against each.														
9.	Source of Availability	MTU Caterpillar														
10.	Justification for Work	Requirement of filters for conduct of 250/ 500 Hrs PMS routines.														
11.	Work Required	<table><tr><td>a</td><td>b</td><td>c</td><td>d</td></tr><tr><td>Defect/ Routine List</td><td>Repair Work Required</td><td>Services Required</td><td>Spares Required</td></tr><tr><td>As per defect history.</td><td>Procurement/ demand of MTU Main Engines and Caterpillar Filters for conduct of PMS routines through any suitable contractor/ firm.</td><td>Procurement/ demand of MTU Main Engines and Caterpillar Filters for conduct of PMS routines through any suitable contractor/ firm.</td><td>Filters</td></tr></table>			a	b	c	d	Defect/ Routine List	Repair Work Required	Services Required	Spares Required	As per defect history.	Procurement/ demand of MTU Main Engines and Caterpillar Filters for conduct of PMS routines through any suitable contractor/ firm.	Procurement/ demand of MTU Main Engines and Caterpillar Filters for conduct of PMS routines through any suitable contractor/ firm.	Filters
a	b	c	d													
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12.	Detailed scope of work	<table><tr><td>a</td><td>b</td><td>c</td></tr><tr><td>Detail of Repair Work Required</td><td>Detail of Services Required</td><td>Detail of Spares Required</td></tr><tr><td>Procurement/ demand of MTU Main Engines and Caterpillar Filters for conduct of PMS routines through any suitable contractor/ firm.</td><td>a. Procurement/ demand of MTU Main Engines and Caterpillar Filters for conduct of PMS routines through any suitable contractor/ firm.</td><td>Filters</td></tr></table>			a	b	c	Detail of Repair Work Required	Detail of Services Required	Detail of Spares Required	Procurement/ demand of MTU Main Engines and Caterpillar Filters for conduct of PMS routines through any suitable contractor/ firm.	a. Procurement/ demand of MTU Main Engines and Caterpillar Filters for conduct of PMS routines through any suitable contractor/ firm.	Filters			
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13.	Technical Specs	As per Technical Manual/ OEM.														
14.	Eligibilities	Any suitable firm having relevant working experience with PMSA.														
15.	EDC	07 x Days														
16.	Warranty	02 x Year														
17.	Acceptance Criteria	a. OEM certified spares should be used. b. Technical specifications to be provided by Firm.														
18.	Any other relevant info	Contact SS/ MEO/ visit onboard through DPCC to resolve any query.														

DEFECT RECTIFICATION OF SSDG-II - PMSS REHMAT

S No	Details				
1.	Ships Name	PMSS REHMAT			
2.	Parent Equipment	Power Generation and Distribution			
3.	OEM	CUMMINS (USA)			
4.	Model	6CT8.3C			
5.	Origin	USA			
6.	Sub Equipment	SSDG-2			
7.	Assembly Component	All components/ Parts of SSDG			
8.	Quantity	01 in no			
9.	Source of Availability	Local Firm/ PND			
10.	Justification for Work	During normal operation/ SOC's following observed a. Sea water leakage from sea water pump joint b. Engine Block pin holes due to FWT			
11.	Work Required	a	b	c	d
		Defect/ Routine List	Repair Work Required	Services Required	Spares Required
		Work requisition ME-38/26 dated 22-06- 2026 was forwarded to BMG and same was outsourced.		a. Remove cylinder heads. b. Remove intake and exhaust manifolds. c. Disconnect fuel lines from injectors. d. Loosen bolts and remove cylinder heads. e. Clean and inspect cylinder head for crack wear etc. f. Check condition of valve springs. g. Valves to be inspected and seats to be prepared. h. Replace valve seats if required. j. Injectors to be tested and calibrated for proper spray. k. Replace injectors if required. l. Rocker arm push rods to be examined against wear tear. m. Replace worn out valve guides and seals if required. n. After decarbonizing and cleaning assemble and refit cylinder heads with new gaskets. p. Refit the manifolds using new seals, packing	a. SSDG-II engine block hole to be fabricate for SAT operation. Following spares required for completion said job a. 08 x cylinder head packing kit b. SS Nuts and Bolts c. Belts d. 01 x complete Valve Seals kit. e. 01 x Timing belts. f. 02 x Fuel filters g. 02 x Lube oil filters. h. 01 x air filters. j. 08 x 'O rings including nozzles injectors sleeves k. 08 x Injectors sleeves

				and joints required. q. Adjust valve clearances as specified. r. Adjust and set injector timing s. Refill fresh oil and coolant in engine.	
12.	Detailed scope of work	a	b	c	
		Detail of Repair Work Required	Detail of Services Required	Detail of Spares Required	
		As per para 11	b. All spares, special equipment / tools, accessories etc. for repair/ maintenance for said work to be arranged by the firm. c. During inspection/ repair work any additional defect if found to be rectified by firm. d. Any damage/ defect, wear tear occurred during the course of removal and installation work is to be repair/ replaced by firm. e. Requirement of any external services is the responsibility of firm. f. All repair/ maintenance is to be undertaken as per the standard maintenance manual / reference documents SOP's without any liability by firm g. All in way accessories are to be removed and fitted back by firm	a. SSDG-II engine block hole to be fabricate for SAT operation. Following spares required for completion said job a. 08 x cylinder head packing kit b. SS Nuts and Bolts c. Belts d. 01 x complete Valve Seals kit. e. 01 x Timing belts. f. 02 x Fuel filters g. 02 x Lube oil filters. h. 01 x air filters. j. 08 x 'O rings including nozzles injectors sleeves k. 08 x Injectors sleeves	
13.	Technical Specs	Defect to be rectified as per desire			
14.	Eligibilities	a. Firm must carried out repair/ maintenance of SSDG’s PMSS Corvettes b. Income tax registered/ Sales tax registered c. Firm must visit onboard/ inspection to establish the extent of required work			
15.	EDC	10 x days after issuance of work/ confirmation order.			
16.	Warranty	01 x Year to be started after completion of successful trials.			
17.	Acceptance Criteria	a. HATs as per manual in presence of SS b. Full load trials/ acceptance by SS			

PROCUREMENT OF UNDER WATER PAINT HULL PAINT & BILGES PAINT - PMSS NUSRAT

S No	Details				
1.	Ships Name	PMSS NUSRAT			
2.	Parent Equipment	Ship's Hull & Structure			
3.	Model	Akzonoble international marine paints			
4.	Sub Equipment	Underwater Hull & Bilges			
5.	Quantity	As per requirement			
6.	Justification for Work	Underwater hull paint and bilges paint is required for DED			
7.	Stores Required	Part No/ NSN		Description	Qty (in Ltrs)
		Under Water Hull			
		8010-32-076-9003	Intershield 300	300	
		8010-32-075-9301	Intershield 300	300	
		8010-79-510-4045	Intergard 263	250	
		8010-79-511-8139	Inter Smooth7460 HSSPC	250	
		8010-79-510-8137	Inter Smooth7460 HSSPC	250	
		8010-98-200-0777	Thinner International GTA 220	200	
		8010-99-728-8345	Thinner International GTA 007	100	
		8010-70-511-1998	Inter Speed 6400	40	
		8010-79-510-4043	Inter Speed 6400	40	
		Bilges Paint			
		Akzo Noble Paint	High Build Epoxy finish smoke grey	300	
		Akzo Noble Paint	Epoxy Zinc Phosphate Primer (Red)	240	
		Akzo Noble Paint	Epoxy Primer	100	
8.	Eligibilities	a. The firm should visit onboard and carry out inspection to establish the extent of required work and spares. b. The firm must have good experience of the same kind of work and experience required onboard. c. The firm should be NTN/GTN registered.			
9.	EDC	01 x week after issuance of work/ confirmation order			
10.	Warranty	03 Year			
11.	Acceptance Criteria	a. Supply of paint as per IT Specs mentioned at Para 14 b. b. Satisfactory work done by the firm. c. Practical acceptance by SS.			

IT SPECIFICATIONS

PROCUREMENT OF LUGGAGE SCANNER MACHINE – D(SEcurity)

S No	Details			
1.	Ships Name	HQ PMSA		
2.	Parent Equipment	Luggage Scanner Machine		
3.	OEM	Dahua security		
4.	Model	DHI-ISC-M6550A		
5.	Origin	China		
6.	Sub Equipment	Luggage Scanner Machine		
7.	Quantity	S No	Description	Qty Req
		a.	Luggage Scanner Machine DHI-ISC-M6550A	01 in No
8.	Justification for Work	Said item is critically required for enhancing security of HQ PMSA.		
9.	EDC	FRB & SBR registered firm		
10.	Warranty	ASAP		
11.	Acceptance Criteria	1 Year		
12.	Any other relevant information	Upon inspection of items		

MAJOR OVERHAUL OF GENSET NO 2 - PMSS HINGOL

S No	Details			
1.	Ships Name	PMSS HINGOL		
2.	Parent Equipment	Power Generation System		
3.	OEM	Caterpillar.		
4.	Model	C9 (Sea water cooled)		
5.	Serial No	Engine (C9Z05163) , Armature (332400/1)		
6.	Origin	Engine (caterpillar UK), Armature (Leroy Somer, Europe)		
7.	Sub Equipment	Diesel Generator		
8.	Assembly Component	Diesel Generator No 2		
9.	Quantity	01		
10.	Source of Availability	Local Engineering Houses		
11.	Justification for Work	Conduct of 12000Hrs routine (Major Overhaul) PMS NO 5-1120-0002 MOP NO PM-054 is required.		
12.	Work Required	a	b	c
		Defect/ Routine List	Repair Work Required	Services Required
		Conduct of 12000Hrs routine of DG No 2 (Major Overhaul) PMS NO 5- 1120-0002 MOP NO PM-054 is required.	Conduct of 12000Hrs routine of DG No 2 (Major Overhaul) PMS NO 5- 1120-0002 MOP NO PM-054 is required.	a. Replacement of camshaft bearings, connecting rod bearings, crankshaft seals, Crankshaft thrust washers, electronic unit injectors, gear train bushings, gear train bearings, main bearings, piston rings, inter cooler and HEUI pump. b. Inspection, reconditioning or exchanging of camshaft followers, camshaft thrust washers, connecting rods, crankshaft vibration damper, cylinder head assembly, cylinder liner, engine mounts, scavenge oil pump, engine wiring harness, exhaust manifold seals, exhaust manifold bellows, fuel pressure regulating valve, fuel priming pump, fuel transfer pump, inlet manifold gas kit, inlet manifold seals, oil cooler core, oil pump, pistons, piston pins, prelube pump, pushrods, rocker
				d Spares Required a. Spares required for replacement. 04 x Camshaft bearings 12 x Connecting rod bearings. 02 x Crankshaft seals. 02 x Crankshaft thrust washers. 06 x Electronic unit injectors. Geartrain bushings. 07 x Main bearings. 30 x Piston rings. 01 x Inter cooler. 01 x HEUI pump. b. Spares if required after inspection. Camshaft followers. 08 x Camshaft thrust washers. 06 x Connecting rods. 01 x Crankshaft vibration damper. 01 x Cylinder head assembly. 06 x Cylinder liner. Engine mounts. 01 x Scavenge oil pump. 01 x Engine wiring harness. 01 x Exhaust manifold seals. 01 x Exhaust manifold bellows. 01 x Fuel pressure regulating valve. 01 x Fuel priming pump. 01 x Fuel transfer pump. 02 x Inlet manifold gas kit. 01 x Inlet manifold seals.

			arms, spacer plate, software update and turbocharger c. Inspection of camshaft, crankshaft, driven equipment (alignment), engine cylinder block, engine control module, flywheel, front gear train (gears), oil section screen and rear gear train. d. Inspect crankshaft for Deflection, damage to the journals and bearing material that has sized to journals.	01 x Oil cooler core. 01 x Oil pump, pistons. 06 x Piston pins. 01 x Prelube pump. 12 x Pushrods. 12 x Rocker arms. 01 x Spacer plate. 01 x Turbocharger. (Firm to provide growth work after inspection if replacement of parts required cost of these items is not to be covered in actual quote only inspection charges be included.)
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13.	Detailed scope of work	a	b	c
		Detail of Repair Work Required	Detail of Services Required	Detail of Spares Required
		Conduct of 12000Hrs routine of DG No 2 (Major Overhaul) PMS NO 5- 1120-0002 MOP NO PM-054 is required.	a. Replacement of camshaft bearings, connecting rod bearings, crankshaft seals, Crankshaft thrust washers, electronic unit injectors, gear train bushings, gear train bearings, main bearings, piston rings, inter cooler and HEUI pump. b. Inspection, reconditioning or exchanging of camshaft followers, camshaft thrust washers, connecting rods, crankshaft vibration damper, cylinder head assembly, cylinder liner, engine mounts, scavenge oil pump, engine wiring harness, exhaust manifold seals, exhaust manifold bellows, fuel pressure regulating valve, fuel priming pump, fuel transfer pump, inlet manifold gas kit, inlet manifold seals, oil cooler core, oil pump, pistons, piston pins, prelube pump, pushrods, rocker arms, spacer plate, software update and turbocharger c. Inspection of camshaft, crankshaft, driven equipment (alignment), engine cylinder block, engine control module, flywheel, front gear train (gears), oil section screen and rear gear train. d. Inspect crankshaft for Deflection, damage to the journals and bearing material that has sized to journals.	a. Spares required for replacement. 04 x Camshaft bearings 12 x Connecting rod bearings. 02 x Crankshaft seals. 02 x Crankshaft thrust washers. 06 x Electronic unit injectors. Geartrain bushings. 07 x Main bearings. 30 x Piston rings. 01 x Inter cooler. 01 x HEUI pump. b. Spares if required after inspection. Camshaft followers. 08 x Camshaft thrust washers. 06 x Connecting rods. 01 x Crankshaft vibration damper. 01 x Cylinder head assembly. 06 x Cylinder liner. Engine mounts. 01 x Scavenge oil pump. 01 x Engine wiring harness. 01 x Exhaust manifold seals. 01 x Exhaust manifold bellows. 01 x Fuel pressure regulating valve. 01 x Fuel priming pump. 01 x Fuel transfer pump. 02 x Inlet manifold gas kit. 01 x Inlet manifold seals. 01 x Oil cooler core. 01 x Oil pump, pistons. 06 x Piston pins. 01 x Prelube pump. 12 x Pushrods. 12 x Rocker arms. 01 x Spacer plate. 01 x Turbocharger. (Firm to provide growth work after

				inspection if replacement of parts required cost of these items is not to be covered in actual quote only inspection charges be included.)
14.	Technical Specs	As per OEM manual.		
15.	Eligibilities	Only OEM certified reputable local contractor having experience of working on caterpillar Diesel generators onboard HINGOL class MPVs		
16.	EDC	<u>15 Days</u>		
17.	Warranty	One year warranty after completion w.r.t: a. Satisfactory operation of diesel generator No 2 up to maximum load recommended by OEM at 1500 RPM without any abnormal noise, fluctuation and vibration. b. Satisfactory operation of diesel generator No 2 without any leakage of fuel oil, lub oil, exhaust & air c. Satisfactory operation of all sensors and safeties without malfunctioning. d. Satisfactory operation of diesel generator No 2 all parameters should within limit. e. Satisfactory operation of control system and ECU after overhauling and assembling of all components. f. Satisfactory operation of fuel oil, lub oil, exhaust & air circuits without any leakage. g. Satisfactory operation of diesel generator No 2 during PQA up to maximum load 192 kw through load van. h. Only OEM recommended spares will acceptable. j. Any leakage of fuel oil, lub oil, exhaust & air within warranty period will recover by firm during warranty period. k. Any abnormality in fuel oil, lub oil, exhaust & air circuits within warranty period will recover by firm during warranty period. l. Any abnormality in parameters and diesel generator No 2 operation will rectify by firm during warranty period.		
18.	Acceptance Criteria	a. Satisfactory operation of diesel generator No 2 up to maximum load recommended by OEM at 1500 RPM without any abnormal noise, fluctuation and vibration. b. Satisfactory operation of diesel generator No 2 without any leakage of fuel oil, lub oil, exhaust & air c. Satisfactory operation of all sensors and safeties without malfunctioning. d. Satisfactory operation of diesel generator No 2 all parameters should within limit. e. Satisfactory operation of control system and ECU after overhauling and assembling of all components. f. Satisfactory operation of fuel oil, lub oil, exhaust & air circuits without any leakage. g. Satisfactory operation of diesel generator No 2 during PQA up to maximum load 192 kw through load van. h. Only OEM recommended spares will acceptable.		
19.	Any other relevant info	a. All tools and test equipment or any spare required to conduct said routines will be arranged by firm/ contractor and no growth work will be acceptable. b. Any other defect occurred during dismantling/ installation work will be responsibility of firm. c. Dismantling/ assembling/ installation and in way removal work is responsibility of contractor.		

FABRICATION/ REPLACEMENT/ APPLICATION OF SHIP TO SHIP LIGHTWEIGHT BROWS
(GANGWAY) - PMSA SHIPS

S No	Details		
1.	Ships Name	PMSA FLEET	
2.	Parent Equipment	Ships Husbandry	
3.	Origin	Any suitable	
4.	Sub Equipment	Ship to Ship Lightweight Brows (Gangway)	
5.	Quantity	02 x Cutter Class 03 x Corvette Class 04 x HINGOL Class	
6.	Justification for Work	Procurement/ Replacement Of Ship To Ship Lightweight Brows (Gangway)	
7.	Detailed scope of work	a	b
		Detail of Repair Work Required	Detail of Services Required
		Fabrication/ Replacement of Ship To Ship Lightweight Brows (Gangway)	a. Procurement of aluminum built 9.8 ft (03 meter) single units that may be joined to make 19.6 ft (6 meters) brow (Gangway). b. Width of the brow (Gangway) 2.5 ft walking surface. c. 4 x stanchions for guardrail on each side of single 6m brow d. Stanchions height must be 1.2 meters. e. Deck walking surface may be aluminum chequered/ anti slipped. f. Galvanized Coated Steel Wire must be fitted in stanchions g. Fitted of SS roller on both side of brow (Gangway) h. SS Hooks may be installed for securing of brow on both side.
			a. 09 x Ship To Ship Lightweight Brows (Gangway) as per detail provided column b of S No 14. b. 09 x Safety Nets of rope nylon 6 mm for covering of gangway for safety of men and material. c. Ferrule, shackle and thimble may be fitted on gangway Galvanized Coated Steel wire.
8.	Eligibilities	a. The firm must visit onboard and carry out diagnoses/ inspections to establish the extent of required work. b. The firm must have sufficient experience of same kind of work. c. The firm should be NTN /GST registered.	
9.	EDC	01 Month	
10.	Warranty	01 Year	
11.	Acceptance Criteria	a. Visual inspection alongwith provision of documentation/ certificate b. Provision of certificates & documentation	
12.	Any other relevant info	Quality material is to be used.	

TESTING & CALIBRATION OF 01 X MTU MAIN ENGINE APME (ME-4) - PMSS REHMAT

S No	Details				
1.	Ships Name	PMSS REHMAT			
2.	Parent Equipment	Main Engine MTU 16V396TB93			
3.	OEM	Germany			
4.	Model	16V396TB93			
5.	Serial No	APME 5590552			
6.	Origin	Germany			
7.	Sub Equipment	Fuel system			
8.	Quantity	16 x fuel injector of main engine APME (ME-4)			
9.	Source of Availability	Local Firm/ PND			
10.	Justification for Work	PMS routine 3-1101-0000 MOP 019 Remove, test and install fuel injectors period (1500 Hrs, 2A) of APME (ME-4)			
11.	Work Required	a	b	c	d
		Defect/ Routine List	Repair Work Required	Services Required	Spares Required
		PMS 3-1101-0000 MOP 019 remove, test and install fuel injectors PMS routine due.	As per S No 14 column a	a. Removal and refitting of Injectors of main Engine APME (ME-4) for Calibration, Testing and adjustment of tappets valves to be carried out for SAT ops b. Removal of cylinder head cover.	a. 16 x O rings including nozzles and 16 x Injectors sleeves b. 16 x cylinder head packing kit
12.	Detailed scope of work	a	b	c	
		Detail of Repair Work Required	Detail of Services Required	Detail of Spares Required	
		Fuel injectors are to be removed from main engine for testing and calibration.	a. All spares, special equipment / tools, accessories etc for repair/ maintenance for said work to be arranged by the firm.	16 x O' rings including nozzles injectors sleeves.	
		Fuel injectors are to be cleaned and tested at required pressure (260-270 bar) for good spray pattern.	b. During inspection/ repair work any additional defect if found to be rectified by firm	16 x Injectors sleeves.	
		Injectors are to be overhauled and replace 'O' rings including nozzles.	c. Any damage/ defect, wear tear occurred during the course of removal and installation work is to be repair /replaced by firm.	16 x cylinder head packing kit	
		Engine valve tappet are to be adjusted			

		Engine cylinders cut off are to be checked and adjusted for satisfactory operation of main engine. Injector sleeves are to be replaced with new one Testing certificate of Injectors are to be provided from certified firm Satisfactory operational trials of the work to be done in presence of SS	d. Requirement of any external services is the responsibility of firm e. All repair/ maintenance is to be undertaken as per the standard maintenance manual/ reference documents (MTU)/ SOP's without any liability by firm. f. All in way accessories are to be removed and fitted back by firm	
13.	Technical Specs	Fuel injectors to be cleaned/ calibrate/tested at required pressure (260-27(^r) for good spray pattern		
14.	Eligibilities	a. Carried out repair/ maintenance of Main engines of PMSS Corvettes b. Income tax registered. c. Sales tax registered. d. Firm must visit onboard ship and carry out diagnosis / inspection to establish the extent of required work		
15.	EDC	07 x days after issuance of work/ confirmation order.		
16.	Warranty	01 x Year to be started after completion of successful trials.		
17.	Acceptance Criteria	a. Injectors testing pressure (260-270 Bar) b. function of cylinder cutout. c. HATs/ SATs as per manual in presence of SS		

REPAIR/ MAINTENANCE OF FIRE ALARM CONTROL SYSTEM - PMSS RAFAQAT

S No	Details			
1.	Ships Name	PMSS RAFAQAT		
2.	Parent Equipment	Fire alarm Control system, PREVIDIA COMPACT		
3.	OEM	Italy		
4.	Model	Previdia Ultra Compactable FW HarNet + ²		
5.	Origin	Italy		
6.	Sub Equipment	Control Console		
7.	Assembly Component	Mother board, Communication PCB Card		
8.	Quantity	01 x Fire Alarm Control System		
9.	Source of Availability	Italy		
10.	Justification for Work	Repair / Maintenance of Fire Alarm Control System		
11.	Work Required	a	b	d
		Defect/ Routine List	Repair Work Required	Spares Required
		Repair / Maintenance of Fire Alarm control System	Repair/ Maintenance of fire alarm control system include under mentioned job: a. Complete inspection of fire alarm system. b. Repair/ maintenance of fire alarm system PCB. c. Complete system components are to be checked/ verified for their operationability before installing of repaired PCB. d. Replacement of defective components is to be done, which were found defective during course of repair/ maintenance. e. Verification of system operationability for 03 days. f. Verification and repairing of smoke and temperature sensors. g. Satisfactory operation of fire alarm system.	All material, spares, tools, special equipment / tools, accessories etc. required for said work are to arrange by the contractor

		a	b	c
		Detail of Repair Work Required	Detail of Services Required	Detail of Spares Required
12.	Detailed scope of work	Repair / Replacement of Defective components of Fire Alarm System, a. 08 x Manual Call Point. b. 10 x Smoke Detectors. c. 02 x PCB Cards	Repair / Replacement of Defective components of Fire Alarm System, a. 08 x Manual Call Point. b. 10 x Smoke Detectors. c. 02 x PCB Cards	All material, spares, tools, special equipment / tools, accessories etc. required for said work are to be arranged by the contractor
		Any damage occurs during the course of inspection work will be done by firm without any liability/ responsibility on part of the ship.	Requirement of external services if any will be responsibility of the firm without any liability on the part of ship	
13.	Technical Specs	24 volts DC, control supply		
14.	Eligibilities	The firm should visit onboard and carry out inspection to establish the extent of required work . The firm should have experience of the same kind of work The firm should be NTN/GST registered.		
15.	EDC	07 working days.		
16.	Warranty	1 year		
17.	Acceptance Criteria	Satisfactory operation and acceptance by end user		

PROCUREMENT OF 01 X PC, COMPUTER TABLE, RENEWAL/ REPLACEMENT OF ELECTRICAL SWITCH BOARDS AND ASSOCIATED WIRING, REPLACEMENT OF 05 X CONFERENCE ROOM SPEAKERS AND CONFERENCE ROOM WINDOW WITH ALUMINIUM/ RAILING WINDOW - HQ PMSA

S No	Description	
1.	Ship's Name	HQ PMSA
2.	Parent Equipment	Computer
3.	OEM	Dell
4.	Make/ Model	Dell OPTIPLEX 7020
5.	Part No of assembly components	Dell OPTIPLEX 7020 Core i5-12500 8GB DDR5 Ram, 512GB NVMe SSD DELL 24 inch LED
6.	Quantity	01
7.	Source of availability	Through Open Tender
8.	Details Scope of Work	Procurement of 01 X PC, Computer Table, Renewal/ Replacement of Electrical Switch Boards and Associated Wiring, Replacement of 05 X Conference Room Speakers and Conference Room Window with Aluminum/ Railing Window
9.	Technical Specs	Computer Dell OPTIPLEX 7020 Core 15-12500 8GB DDR5 Ram, 512GB NVMe SSD with DP, HDMI & VGA port supported
		LED DELL 24 inch LED with DP, HDMI & VGA port supported
10.	Eligibilities	Have relevant experience on networking equipment
11.	EDC	1 x weeks after award of contract
12.	Warranty	HP provide one year warranty
13.	Acceptance Criteria	a. Satisfactory test/ trials after installation onboard b. Relevant diagrams/ documents to be provided c. Relevant specifications as per IT d. Proposal for 2 x variants (latest) e. Relevant training for operating/ maintenance of network switch
14.	Any other relevant information	Detailed quotation to be provided having complete breakdown of total price of items

S No	IT SPECIFICATION	
1.	Description	Computer table, Speakers, Electrical switch boards & Window with aluminium/ railing
5.	Scope of work	Replacement of Computer table, Electrical switch boards, Speakers, & Window with aluminum/ railing
6.	Eligibilities	Any PMSA Contractor
7.	EDC	10 Days
8.	Warranty	Company Warranty Work carried out through supplier

9.	Acceptance Criteria	Inspection by end user
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PROCUREMENT OF HAZARDOUS DUTY LIFE JACKETS (HDLJS) - PMSS ZHOB

S No	Details	
1.	Ships Name	PMSS ZHOB
2.	Parent Equipment	Life Preserver Yoike (Hazardous Duty Life Jacket) with Service Manual
3.	Sub Equipment	Hazardous Duty Life Jacket
4.	Quantity	27
5.	Source of Availability	Local Contractor
6.	Detailed scope of work	27 x Hazardous Life Jackets are required through local contractor.
7.	Eligibilities	Reputable local contractor/ firm
8.	EDC	20 x days
9.	Warranty	3 year
10.	Acceptance Criteria	Satisfactory/ reliable item acceptable.
11.	Any other relevant info	Firm to visit onboard for clear understanding of scope of work

**PROCUREMENT PURCHASE OF CABLE ELECT ELASTOMERIC LFH SHEATHED 440V 3
PHASE 4 CORE (35MM) – PMSS ZHOB**

S No	Details				
1.	Ships Name	PMSS ZHOB			
2.	Parent Equipment	Cable Elect Elastomeric LFH Sheathed Cond 50/250 440V 33AMP			
3.	Sub Equipment	Cable Elect Elastomeric LFH Sheathed Cond 50/250 440V 33AMP			
4.	Part No. of Assembly Component	0561595218492			
5.	Quantity	180 Meters (35mm)			
6.	Source of Availability	M/s Multicore Cable Temple Road Lahore			
7.	Justification for Work	Supply cable deteriorated due excessive use onboard ship			
8.	Work Required	a	b	c	d
		Defect/ Routine List	Repair Work Required	Services Required	Spares Required
		N/A	Procurement/ purchase Cable Elect Elastomeric LFH Sheathed Cond 50/250 440V 33AMP through OEM/ local engineering house	See S No 9 Para b	Cable Elect Elastomeric LFH Sheathed Cond 50/250 440V 33AMP (35mm) Part No: 0561595218492
9.	Detailed scope of work	a	b	c	
		Detail of Repair Work Required	Detail of Services Required	Detail of Spares Required	
		Procurement/ purchase Cable Elect Elastomeric LFH Sheathed Cond 50/250 440V 33AMP through OEM/ local engineering house	Procurement/ purchase Cable Elect Elastomeric LFH Sheathed Cond 50/250 440V 33AMP through OEM/ local engineering house	Cable Elect Elastomeric LFH Sheathed Cond 50/250 440V 33AMP (35mm) Part No: 0561595218492	
10.	Technical Specs	As per OEM manual specs			
11.	Eligibilities	a. Reputable local contractor having working experience of electrical related activity in PMSA. b. As per OEM manual specs			
12.	EDC	7 Days			
13.	Warranty	2-year			
14.	Acceptance Criteria	Good quality electric shore supply cable followed by successful trials			
15.	Any other relevant info	Damage/ defect occurred during work is responsibility of contractor.			

**IT SPECIFICATION FOR SERVICING/ OVERHAULING FRESH WATER PUMP – PMSS
BASOL**

S No	Description			
1.	Ships Name	PMSS BASOL		
2.	Parent Equipment	Fresh Water Pump		
3.	OEM	JIANGSU ZHENHUA PUMP INDUSTRY CO, LTD		
4.	Model	CLH50-32-4-5(Z)		
5.	Origin	China		
6.	Sub Equipment	Fresh Water Pump		
7.	Part No	S No	Description	Qty
		a.	Pump Body	01
		b.	Impeller	01
		c.	Mechanical Seal	01
		d.	Bearing	03
		e.	Gauge with Adaptor	02
		f.	Adaptor	04
		g.	Shaft, Suction and Discharge Valve	05
		h.	Motor	
8.	Detail scope of work	a. Upon inspection fresh water pump performance degraded and found detorated abnormal noise and vibration of observed b. Complete overhauling required		
9.	Eligibility	a. The firm must visit onboard and carry out diagnosis/ inspection to establish the extent of required work. b. NTN/GST registered. c. Firm must have sufficient experience..		
10.	EDC	07 DAYT		
11.	Acceptance Criteria	a. Onboard successful test and trails onboard ship b. OEM certified spares to be used. All technical documents will be provided with the items		

**IT SPECIFICATION FOR PROCUREMENT OF AUXILIARY DOMESTIC AND GP COOLING
WATER PUMP – PMSS BASOL**

S No	Description			
1.	Ships Name	PMSS BASOL		
2.	Parent Equipment	Sea Water Cooling System		
3.	OEM	JIANGSU ZHENHUA PUMP INDUSTRY CO LTD		
4.	Model			
5.	Origin	CHINA		
6.	Sub Assembly	Auxiliary Sea water pump domestic pump GP sea water pump		
7.	Part No	S NO	DESCRIPTION	QTY
		a.	GP Pump	01
		b.	Auxiliary sea water Pump	01
		c.	Domestic sea water Pump	01
8.	Detail scope of work	Procurement of GP Pump, Auxiliary Sea Water Pump and Domestic Sea Water Pump		
9.	Eligibility	Security wise clear firm having working experience on said system on board HINGOL CLASS MPVs of PMSA		
10.	EDC	07 DAY		
11.	Warrant	One year		
12.	Acceptance Criteria	SAT test and Trials OEM certificate Certified Tools must be used		

IT SPECIFICATON FOR OVERHAULING OF FUEL INJECTORS OF MAIN ENGINE NO 04 - PMSS BASOL

S No	Details		
1.	Ships Name	PMSS BASOL	
2.	Parent Equipment	Main Engine	
3.	OEM	MTU Germany	
4.	Model	16V4000M73L DIESEL ENGINE	
5.	Serial No	Main Engine No 4: 527112664	
6.	Origin	Germany	
7.	Sub Equipment	Fuel Injectors	
8.	Assembly Component	Fuel Injectors, Cylinders, common rail	
9.	Part No. of Assembly Component	Fuel Injectors Part No: X59407500022 NSN: 2815PV1030384	
10.	Quantity	Inspection, overhauling and pressure testing of 16 x fuel injectors and 03 x sensors Detailed health inspection i.e. endoscopy of Main Engine injectors/ cylinders it diagnose the defect for its rectification	
11.	Source of Availability	MTU	
12.	Justification for Work	Combustion cycle of Main Engine unable to start	
13.	Detailed scope of work	a	b
		Detail of Repair Work Required	Detail of Services Required
		Nil	c Detail of Spares Required 16 x Fuel Injectors Part No: X59407500022, NSN: 2815PV1030384 Gasket O rings sensors

		d. Detailed Inspection/ servicing of both A bank and B bank common rail for defect rectification. e. Sharing of report indicating any defects and unseen anomaly in the system. Reconditioning/ replacement of any defected parts/ components. f. Provision and installation of only OEM recommended parts for satisfactory operation and is to be arranged by firm. g. Satisfactory HATs and SATs of Main Engine No 4 after injectors' installation. h. Satisfactory full power trials.	
14.	Technical Specs	As per OEM/ Technical Manual.	
15.	Eligibilities	OEM authorized Rep having experience of MTU Main Engines fitted onboard HINGOL class MPVs.	
16.	EDC	ASAP (07 days)	
17.	Warranty	1 year	
18.	Acceptance Criteria	a. Work will be carried out by/ through OEM rep. b. Satisfactory trials of Main Engine	

Note: 100% Payment after completion by CNA

Director General
Pakistan Maritime Security Agency
Plot No 34-A, Dockyard Road
KARACHI
Telephone 021-48509194
Fax 99214625
E-Mail dpcc@pmsa.gov.pk

INVITATION TO TENDER GENERAL INSTRUCTIONS

1. CONDITIONS GOVERNING CONTRACT:

All Procurement / Repairs / Maintenance Contract, Local Purchase Order (LPO) and work ordered made as a result of this IT shall mean the agreement entered into between the parties that is buyer and the supplier will be in accordance with the PPRA rules 2004 or any amendment issued from time to time. Therefore all open tender inquiry will be uploaded on PPRA Website and publish on print media as the case may be.

2. SUBMISSION OF TENDER:

Firms shall submit their offers in two separate envelopes clearly marked as “**Commercial Offer**” and “**Technical Offer**” for open tender. Both envelopes shall be properly sealed bearing the signature of the bidder. Thereafter both these envelopes shall be placed in one bigger envelope. This envelope should bear the address of the D (P&CC).

a. **TECHNICAL OFFER:** Should contain all relevant details and specifications as per the IT specifications. Literature / Brochure or any other relevant technical details may also be included in it. Technical offer should not contain the price. Indication of price in technical offer may render it null and void. The word “Technical Offer” should be clearly mentioned alongwith the tender No and date on the envelope containing the technical offer.

b. **COMMERCIAL OFFER:** The price be quoted in figures as well as in words alongwith essential Literature / Brochures. The word “Commercial Offer”, tender number should be clearly mentioned on the envelope. Taxes, duties, freight / transportation, insurance charges etc if any are to be indicated separately. Total price of the items quoted against the tender os to be clearly mentioned. It should also contain a **pay order 2% in the shape of pay order of the offered value** as earnest money. Cross cheque or cash is not acceptable in this case. The offer received without earnest money will be rejected.

c. **SPECIAL INSTRUCTIONS:** Tender documents and its conditions may please be read point to point and understood properly before quoting. All tender conditions should be responded properly. In case of any deviation due to non-acceptance of tender conditions, the same should be highlighted alongwith changed offer / conditions. Tender may however be liable to be rejected.

PREPARATION OF QUOTATION

Please prepare quotation in this format In case of GST @ 18% or SST @ 15%:

S No	Description	Unit Price	Qty	Total GST @18% or SST @ 15%	Total Price
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Please prepare quotation in this format In case of without GST or SST:

S No	Description	Unit Price	Qty	Total	Total Price
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Without this format quotation will not be accepted.

3. DATE AND TIME FOR RECEIPT OF TENDER:

Tender must be dropped in tender Box placed at main gate. HQ PMSA will not accept any excuse of delay occurring due to whatsoever reason. Tender received after the time indicated in IT will not be entertained. The tender opening time, however, fall on next working day in case of closed / forced holiday or any other unforeseen event. Only authorized representatives of firm will be allowed to attend tender opening. **The tender received through Fax, E-Mail will not be acceptable.**

4. TENDER OPENING:

Technical offer will be opened as per scope of work on the date and time mentioned in the tender. Commercial offer shall be retained with technical officer. It will be opened at a later stage. All technical offers will be scrutinized by a Technical Scrutiny Report (TSR) committee nominated by HQ PMSA. The offers which are not as per the IT specification will be rejected. The firms recommended by TSR Committee will be allowed to attend the commercial opening for which date and time will be intimated separately.

5. VALIDITY OFFER:

The validity period of quotations must be indicated and should invariably be for 90 days extendable to 30 days from the date of opening of Technical offer.

6. QUOTING OF RATES:

Unit price of the item, GST/ SST or any other Govt tax and Total price all these should be indicated separately in Pak Rupees in a very clear manner as follows:

S No	Description	Qty	U/Price	GST/SST/Taxes	Total Price
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7. ATL/ GST/ SST/ INCOME TAX NUMBER:

Only registered suppliers, who are on Active Taxpayers List (ATL) of FBR, are eligible to supply goods/ services to Government department. GST/SST and income tax number be clearly indicated on the quotations and all other relevant documents.

8. EARNEST MONEY:

All participating firms are to provide earnest money in form of pay order alongwith bids. **Registered firms 2% of complete value (inclusive of all prices and taxes). Non registered firms 5% of complete value (inclusive 5% of all prices and taxes).** Firms disqualifying in technical opening/ Commercial opening will be returned their earnest money upon award of work order/ LPO/ Contract to qualifying Firm.

9. TENDER FEE:

Each technical offer must be accompanied with Cash of **Rs 2,000/-** for single stage single envelope and **Rs 7500/-** for Single Stage Two Envelop nonrefundable as tender fee (In favor of IT Sale Account DG PMSA) (**Separate Quotations required for each IT Specification**).

10. INSPECTION AUTHORITY:

Joint inspection of stores provided and work done will be carried out by committee appointed by HQ PMSA or as per the contract. For provision of stores/ repair or replacement work wherein Two Stage bidding i.e technical opening is required, Inspection of same will be carried out through reputed third party labs i.e SGS, PNCTA and TTI etc. For inspections carried out in two stage bidding, charges for inspection will be borne by supplying firm.

11. CONDITION OF STORES:

Spares, Stores, items and work done will be accepted on Warranty / Guarantee of the firm on Form DPL-15.

12. DOCUMENTS REQUIRED:

Following documents are required to be submitted alongwith the Bills for further processing of the same for payment:

- a. 10% of total amount of Contract, 5% of total amount of LPO/ Work Order.
- b. Certificate of Conformity (CoC) required.
- c. Survey Copy of unserviceable items duly verified/ signed by BSO PMSS INDUS.

13. SECURITY DEPOSIT / BANK GUARANTEE:

To ensure timely and correct supply of stores the firm will furnish an unconditional Bank Guarantee (BG) from a schedule bank for an amount of **10%** of the contract value and 5% of LPO/ Work Order (excluding taxes, duties / freight handling charges on a stamp paper of the value as per prescribed format in the shape of Bank Guarantee. Format of Bank Guarantee is at Annex „B“. Furthermore, it is imperative to mention that deposit of PBG for HMI and Core Exchange cases will be equal to the total value of engine.

14. CURRENT BANK STATEMENT:

For all contracts of Rs 1,000,000/- or more the firm is required to submit current bank statement of the firm.

15. INTEGRITY PACT:

Procurement exceeding Rs 1.00 M shall be subject to an integrity pact, between the Buyer and the Suppliers or Contractors.

16. CORRESPONDENCE:

All correspondence will be addressed to the Buyer. Correspondence with regard to payment or issue of delivery receipt may be addressed to D (P & CC) PMSA Karachi.

17. PRE SHIPMENT INSPECTION:

PMSA may send a team of Officers for the inspection of Major Equipment and Machinery items at OEM premises for inspection before dispatch if required at the Supplier's cost and arrangement.

18. AMENDMENT IN CONTRACT:

Contract may be amended / modified to include fresh clause modify the existing clauses with the mutual agreements by the Supplier and the Buyer such modifications shall form an integral part of the contract.

19. DISCREPANCY:

The Buyer will render a discrepancy report to all concerned within 45 days after receipt of stores for discrepancies found in the consignment. The quantities found short are to be made good by the Supplier free of cost.

20. PRICE VARIATION:

Price offered against IT are to be firm and final.

21. LIQUIDATED DAMAGES (LD):

Liquidated Damages upto 2% per month are liable to be imposed on the Suppliers by the Buyer in accordance with PPRA rules, if the stores supplied after the expiry of the delivery date without any valid reason. Total value of the LD shall not exceed 10% of the contract value.

22. RISK PURCHASE:

In the event of failure on the part of Supplier to comply with the contractual obligations the contract will be cancelled at the Risk and Expense of the Supplier in accordance with PPRA rules.

23. PENALTY:

In case of wrong supply of the item by the Supplier, a penalty of 10% of the contract value may be imposed by this HQ PMSA apart from any other penalties.

24. ALL RIGHTS RESERVED:

HQ PMSA may reject all bids or proposals at any time prior to the acceptance of a bid or proposal as per PPRA Rule 33(I).

25. PAYMENT:

The payment will be released through Controller of Naval Accounts (CNA) Karachi in Pak Rupees after completion of delivery / work.

26. PARTIAL ORDER:

All participating firms are to comply acceptance of partial order. Partial supply as per lowest rates will be awarded to the lowest bidder.

27. DISQUALIFICATION:

Offers are liable to be rejected if:-

- a. Received after time and date specified in the IT.
- b. Offers are found conditional or incomplete in any respect.
- c. There is any deviation from the General / Special / Technical Instructions contained in this tender.
- d. Taxes and duties, Freight, Transportation and Insurance charges not indicated Separately as per required price breakdown mentioned above.
- e. Pay Order with Commercial Offer and Cash with Technical Offer is not received.
- f. Multiple rates quoted against one item.
- g. Manufacture's relevant Brochures and technical details on major equipment, assemblies are not attached in support of specification.
- h. Offers (Technical / Commercial) are containing amendments / corrections / overwriting etc.
- j. National Tax No (NTN) and GST/SST No are not indicated on technical and commercial offer.
- k. If validity of offer is not quoted as required in.