

SEPARATE QUOTATIONS REQUIRED FOR ATTACHED 34 x IT SPECIFICATIONS

IT NO : 37/01/2024-25

**IT SPECIFICATIONS - REPLACEMENT OF SEALED MAINTENANCE FREE BATTERIES:
PMSS KASHMIR**

1.	Parent Equipment	Sealed Maintenance Free Batteries										
2.	Sub Equipment	Batteries										
3.	Assembly Component	Misc										
4.	Make	SHANGHAI QIANGNENG BATTERY CO.										
5.	Model	6-GFM-200M (12V 200 A/H)										
6.	Quantity	08										
7.	Justification i.e PMS/ Failure/ FWT etc	FWT										
8.	Work Required/ Defect	Replacement of 08 x Maintenance Free Sealed Batteries										
9.	Detailed scope of work	(i) Replacement of 08 x Maintenance Free Batteries (ii) Installation, STW and Trials										
10.	Technical specs	<table border="1"><tr><td>Make</td><td>Shanghai Qiangneng Battery CO.</td></tr><tr><td>Model</td><td>6-GFM-200M</td></tr><tr><td>Dimension</td><td>174x110x365</td></tr><tr><td>Self-Discharge Rate</td><td>0.8 % / d</td></tr><tr><td>Floating Charge Voltage</td><td>2.25 V/ Cell</td></tr></table>	Make	Shanghai Qiangneng Battery CO.	Model	6-GFM-200M	Dimension	174x110x365	Self-Discharge Rate	0.8 % / d	Floating Charge Voltage	2.25 V/ Cell
Make	Shanghai Qiangneng Battery CO.											
Model	6-GFM-200M											
Dimension	174x110x365											
Self-Discharge Rate	0.8 % / d											
Floating Charge Voltage	2.25 V/ Cell											
11.	Eligibility Criteria	(i) Company must be certified with HQ PMSA (ii) Company must be Income and Sales tax registered										
12.	EDC/ EDD	15 Days after award of contract										
13.	Warranty	1 Year										
14.	Acceptance Criteria	Item will be accepted after onboard inspection, installation on charging/ discharging panel and satisfactory trials on back supplies										
15.	Any Other Relevant Information	SS contact (0321-3000503)										

IT NO : 37/02/2024-25**PMSS HINGOL****IT SPECIFICATION FORPROCUREMENT OF MARINE FENDERS**

S.NO	IT SPECIFICATION	
12.	Description	MARINE FENDERS
13.	Make	USA
14.	Quantity	02 x Nos
15.	Work Required	Procurement of new Marine Fenders
16.	Technical Specification	Size: D 600 x L 1000MM Standard reaction force Material: Cover Rubber Filling: Closed cell eva foam Swivel with Shackie. 2 pcs. q235hdg Fender Body Color: Black/Grey
17.	Detailed Scope of Work	Procurement of new Marine Fenders
18.	Eligibility	The Firm should be NTN/GST registered
19.	EDD	ASAP
20.	Warranty /Guarantee	03 Years
21.	Acceptance Criteria	After Physical Inspection
22.	Term of payment	100% Payment on completion of work.

IT NO : 37/03/2024-25
PMSS KASHMIR

IT SPECIFICATIONS: REPAIR OF ENGINE'S GOVERNOR PCB (VIKING)

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1.	Parent Equipment	Propulsion Control System		
2.	Sub Equipment	Aft Main Engine		
3.	Assembly Component	Viking PCB		
4.	Make	German		
5.	Model	Europa Regulator		
6.	Quantity	Pattern No/Part Number/Model	Description	Qty
		3500G047	Governor Controller PCB (Viking)	01
7.	Justification i.e PMS/ Failure/ FWT etc	FWT		
8.	Work Required	<ul style="list-style-type: none"> a. Dismantling of above mentioned PCB b. Repair of defective ICs c. Installation of PCB d. Servicing of Complete control wiring from Viking PCB to Actuator and Speed Sensors 		
9.	Detailed scope of work	As Per Para 8		
10.	Technical specifications	As Per Sample		
11.	Eligibility Criteria	<ul style="list-style-type: none"> a. Company must be certified with HQ PMSA. b. Company must be Income and Sales tax registered. 		
12.	EDC/ EDD	10 Days after award of contract		
13.	Warranty	01 Years		
14.	Acceptance Criteria	Satisfactory Trials at sea for 15 x days		
15.	Any Other Relevant Information	Contractor must visit onboard to exact scope of work before providing quotation		

IT SPECIFICATIONS – REQUIREMENT OF 12 X CHERRY FENDER (TUFF ENDED ROUND INFLATABLE FENDER) FOR PMSS NAZIM/ FRBs

1.	Parent Equipment	Fast Response Boats (FRBs)
2.	Sub Equipment	Cherry Fender (Tuff ended round inflatable fender)
3.	Assembly Component	N/A
4.	Make	Safe Boat International (USA)
5.	Model	2010
6.	Qty	12 in number
7.	Justification i.e PMS/ Failure/ FWT etc	Nil
8.	Work Required/ Defect	Nil
9.	Detailed scope of work	Critical Requirement of 12 x Cherry fender (Tuff ended round inflatable fender)
10.	Technical Spec	a. Diameter x Circumference: 15 x 47 Inch b. Buoyancy : 65 Lbs c. Line-Hole Diameter : 1-1/2
11.	Eligibility Criteria	a. Any local registered firm with good reputation
12.	EDC	Max 01 x month from the date of contract
13.	Warranty	01 Year
14.	Acceptance Criteria	Inspection by end user
15.	Any other relevant information	Nil

IT SPECIFICATIONS – REQUIREMENT OF 12 X BANANA FENDER (TWIN EYE BOAT FENDER) FOR PMSS NAZIM/ FRBs

16.	Parent Equipment	Fast Response Boats (FRBs)
17.	Sub Equipment	Banana Fender (Twin Eye Boat Fender)
18.	Assembly Component	-
19.	Make	Safe Boat International USA
20.	Model	2010
21.	Qty	12 in number
22.	Justification i.e PMS/ Failure/ FWT etc	Nil
23.	Work Required/ Defect	Nil
24.	Detailed scope of work	Requirement of 12 x Banana Fenders (Twin Eye Boat Fender) for FRBs
25.	Technical Spec	a. Length : 36 Inch b. Diameter : 30 Inch c. Weight : Approx. 10 Kg
26.	Eligibility Criteria	b. Any local registered firm with good reputation
27.	EDC	Max 01 x month from the date of contract
28.	Warranty	01 Year
29.	Acceptance Criteria	Inspection by end user
30.	Any other relevant information	Nil

**IT SPECIFICATION FOR REPAIR/ REPLACEMENT OF SYNCHRONIZING UNIT OF
SSDGs – PMSS REHMAT**

S No	Specification	Remarks
1.	Parent Equipment	Power Generation and Distribution
2.	Sub Equipment	Switchboard
3.	Assembly Components	Synchro scope unit and load shedding module in parallel
4.	Make	N/A
5.	Model	N/A
6.	Quantity	01
7.	Justification i.e PMS/ Failure/ FWT etc	Synchro scope unit in parallel is observed defective due to FWT/ old vintage
8.	Work required/ Defect	Synchro scope unit in parallel is required to be repaired/ replaced for SAT ops
9.	Technical Specification	a. 380VAC Main supply b. 50Hz c. 3 Phase d. 220V-240VAC e. 24VDC control supply
10.	Detailed scope of work	Following work is required to be undertaken for repair/ replacement of synchro scope unit for operating SSDGs in parallel: a. Synchro scope unit/ method is to be repaired/ replaced for SAT ops. b. 03 x mechanical governors of SSDGs to be replaced with electronic control governors for operation in synchronizing method. c. Parallel system for frequency and voltage meters to be ensured. d. Synchronizing AVR card to be replaced. e. Load shedding module and auto synchronizing to be replaced for safe operation of SSDGs. f. Control cable and wiring to be renewed or replaced. g. Repair/ maintenance of 3 Phase bus bar for phase sequence to be carried out. h. Voltage magnitude for operating of SSDGs in parallel to be ensured. j. Frequency of putting on load SSDGs must match with bus bar frequency to be ensured. k. The firm should arrange spares, tools, accessories etc required for the said repair / maintenance work. l. Requirement of external services will be responsibility of the firm.
11.	Eligibility Criteria	a. The firm must visit onboard and carry out diagnosis/ inspections to establish the extent of required work onboard corvettes. b. Income tax registered. c. Sales tax registered.
12.	EDC	07 x Working days after issuance of work/ confirmation order
13.	Warranty	01 Year
14.	Acceptance criteria	a. 380VAC Main supply b. 50Hz c. 3 Phase d. 220V-240VAC e. 24VDC control supply f. Satisfactory operation of equipment. g. Practical acceptance by SS
15.	Any other relevant information	-

IT SPECIFICATIONS

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S No	Description	
1.	Parent Equipment	Chiller Plant
2.	Sub Equipment	Chiller Seawater System
3.	Assembly Component	Chiller Seawater System Suction Strainer Body
4.	Model	JTLS-150
5.	Make	Jiangsu Josun Air Conditioner Co. Ltd
6.	Quantity/Item Details	Strainer body with cover, bolts and butterfly nuts
7.	Justification	Degraded condition of Strainer due aging and fare wear and tear
8.	Work required/Defect	Chiller Seawater Cooling system suction strainer body fabrication required along with body cover, studs and butterfly nuts and strainer mesh
9.	Technical Specifications	As per Sample
10.	Scope of work	a. Fabrication of suction brass strainer body as per sample b. Fabrication of strainer body cover as per sample c. Fabrication of SS studs and butterfly nuts
11.	Eligibility Criteria	Any registered and security wise cleared local contractor who has working experience onboard MPVs
12.	EDC	05 Day
13.	Warranty	01 Year
14.	Acceptance Criteria	Satisfactory and smooth operation of sea water system without any leakage and seepage from strainer body
15.	Any Other Relevant Information	Nil

**IT SPECIFICATION: REPAIR/ REPLACEMENT OF MAIN SUPPLY BREAKER OF PERKIN
DG 150 KVA – PMSA BASE GWADAR**

1.	Ship's Name	PMSA BASE GWADAR
2.	Parent Equipment	Perkin Shore Diesel Generator 150 KVA
3.	Sub Equipment	Main supply breaker (250 Amp)
4.	Assembly Component	-
5.	Make	FRANCE
6.	Model	EZC 250 F (250 Amp) Easy Pact (3 Pole)
7.	Qty	01
8.	Justification i.e PMSA/ Failure/ FWT etc	Main Supply breaker of 150 KVA Shore DG is defective due FWT. Repair/ Replacement critically require to meet electric power requirements of the base.
9.	Work Required/ Defect	Repair/ replacement of main supply breaker 150KVA Shore Diesel Generator.
10.	Detailed Scope of work	Repair/ replacement of main supply breaker 150KVA shore Diesel Generator with new
11.	Technical Specifications	Rated Current: 250 AMP (40-C) Schneider Electric – (3 Pole) Breaker Capacity: UI= 690 v 50/60 Hz UImp = 6 Kv Cat A 40 °C Conforming to IEC 60947-2 JIS – CB 201 – 2-1 250Amp Protection Type: Overload protection (long time) L short time short – circuit protection with fixed delay so instantaneous short – circuit protection I
12.	Eligible Criteria	Any local/ international well reputed firm having experience for repair/ replacement of shore DGs & associated accessories.
13.	EDC	15 days
14.	Warranty	1 year
15.	Acceptance Criteria	Inspection by end user and successful trials after installation
16.	Any Other relevant Information	POC LT Shahid Noor PN 0305-9722060 OI/C PMSA Base Gwadar

REPAIR/ REPLACEMENT OF 02 x 2 TONS SPLIT AC – PMSS REHMAT

S No	IT Specifications	
1.	Parent Equipment	General Habitability onboard
2.	Sub Equipment	Split AC
3.	Assembly Component	2 Tons (24000 BTUs)
4.	Make	Any reputable brand preferably DAWLANCE, GENERAL, LG or ACSON
5.	Model	
6.	Quantity	02 in No
7.	Justification i.e PMS/ Failure/ FWT etc	02 x split AC performance is observed degraded due FWT/ old vintage.
8.	Work required/ Defect	Repair/ replacement of 02 x 2 tons split AC is required.
9.	Technical Specification	a. 24000 BTU b. 220V 50Hz c. Copper material for inner and outer coil.
10.	Scope of Work	Following work is required to be undertaken for repair/ replacement of 2 tons AC: a. Repair/ replacement of 02x Split Air Conditioner alongwith all accessories including safety breaker. b. Split Air Conditioner with copper condenser in outdoor unit and copper evaporator in Indoor unit. c. 7"/44" supply cable and installation is required. d. Inverter AC is not to be preferred and plain AC with R-22 refrigerant to be ensured.
11.	Eligibility Criteria	a. The firm must visit onboard and carry out diagnosis/ inspections to establish the extent of required work. b. Income tax registered. c. Sales tax registered.
12.	EDC	1 week after issuance of Work order.
13.	Warranty	Company's warranty for 1 year.
14.	Acceptance criteria	a. 24000 BTU b. 220V 50Hz c. Copper material for inner and outer coil. d. Inspection and satisfactory trials by end user.
15.	Any other relevant information	-

PMSS REHMAT**REPAIR/ REPLACEMENT OF 37 MM GUN WATER COOLING SYSTEM AND
ARMOURY FF SYSTEM DEFECTIVE LINES VALVES**

S NO	Specification	Remarks
1.	Parent Equipment	Manual Sprinkling And 37 MM Gun System
2.	Sub System	Manual Sprinkling And 37 MM Gun Water Cooling System
3.	Assembly Component	Sprinklers, Pipes, Joints, Flexible pipes, Control valves
4.	Make	China
5.	Model	
6.	Quantity	01
7.	Justification i.e. PMS/ failure/ FWT etc	FWT
8.	Work Required! Defect	To ensure leakage free operation of armoury sprinkling system and gun water cooling system for smooth operation. Complete operationalization of both systems
9.	Detailed Scope of work	Detailed scope of work is as under: a. Repair/ replacement of deteriorated, leaky water lines, valves, Joints c. Repair/ Replacement of control valve (if required) d. Repair/ Replacement of 04 sprinklers for full coverage of Compartment e. Operationalization of both systems
10.	Technical Specs	As per sample
11.	Eligibility Criteria	a. NTN/ GST registered and have experience in stated work b. Firm should visit onboard to see scope of work before quoting c. Firm to ensure operationalization of both systems leakage free in all aspects d. Proper and standardized workmanship is required to be observed
12.	EDC	4 x weeks
13.	Warranty	1 x year after acceptance of repair work
14.	Acceptance criteria	HATS/ SATs after completion of work by Local Firm
15.	Any other relevant information	Nil

**IT SPECIFICATIONS OF REPAIR/ REPLACEMENT OF DEFECTIVE SHIPS
LIGHTING ONBOARD SHIP – PMSS NUSRAT**

S No	IT Specifications	
1.	Ship's Name	PMSS NUSRAT
1.	Parent Equipment	Ship's Lighting system
2.	Sub Equipment	Fluorescent Lamp
3.	Assembly Component	Nil
4.	Make	Philips/ Panasonic
5.	Model	Nil
6.	Qty	150 x Tube Rods
7.	Justification i.e PMS/ Failure/ FWT etc	FWT
8.	Work Required/ Defect	Repair/ renewal of defective ship's lighting
9.	Detailed Scope of work	<p>a. Fluorescent Lamp specifications are as follows:</p> <p>(1) Fluorescent Lamp (Cool day white)</p> <p>(2) MBx2 18 Watt 24 inch</p> <p>b. Survey of whole ship lighting points fitted</p> <p>c. Repair/ replacement of defective Fluorescent Lamps alongwith starter & holder</p> <p>d. Wiring connection to be tightened</p> <p>e. The firm will be responsible to undertake installation of optimized quality of lights</p> <p>f. The firm will arrange all spares, tools and accessories etc required for the same work</p> <p>g. The firm will be responsible for requirement of external services</p> <p>h. Any damage/ defect/ were tear occurred during course of removal, repair and installation to be repaired by firm</p> <p>j. The firm will be responsible for all removal, transportation and installation work during warranty/ guarantee period claims and in case of any re-work</p>
10.	Technical Spec	Standard parts/ items are to be used
11.	Eligibility Criteria	<p>a. The firm should visit onboard and carry out inspection to establish the extent of required work</p> <p>b. The firm should have good experience of the lighting work required onboard</p> <p>c. The firm should be NTN/GTN registered</p>

**IT SPECIFICATIONS - REPAIR OF STBD ENGINE PRE LUBRICATION PUMP - PMSS
KASHMIR**

1.	Parent Equipment	Stbd Main Engine
2.	Sub Equipment	Pre lubrication Pump
3.	Assembly Component	Coupling, Twin Gear Pinion, Shaft
4.	Make	Hebei Hengsheng Pumps Co., Ltd.
5.	Model	YCB10/0.6
6.	Quantity	01
7.	Justification	FWT
8.	Work Required/ Defect	Complete Overhauling of Pump along with replacement of degraded parts
9.	Detailed scope of work	a. Dismantling of Pump b. Removal and replacement of degraded parts c. Alignment of shaft d. Installation of pump e. Growth Work (if any)
10.	Technical specs	Working pressure 0.72 Mpa Flow Rate 10 m ³ /h Outline size 743×540×1110 mm L×B×H Weight 430 Kg
11.	Eligibility Criteria	a. Have experience to work for ships (preferably PMSA ships) b. Company must be certified with ISO 9001 c. Company must be Income and Sales tax registered d. (iv). Company must have good experience of repair/ maintenance of pumps
12.	EDC/ EDD	10 Days after award of contract
13.	Warranty	1 Year
14.	Acceptance Criteria	Item will be accepted after onboard inspection and satisfactory trials at 0.75 Mpa discharge pressure and flow rate shall be 10 m ³ /h for 60 days.
15.	Any Other Relevant Information	SS contact (0321-3000503)

IT SPECIFICATIONS FOR DEFECT RECTIFICATION OF FIRE ALARM SYSTEM – PMSS HINGOL

S No	Description				
1.	Parent Equipment	Fire Alarm System			
2.	Sub Equipment	Fire detection devices			
3.	Assembly Component	a. Heat Detectors b. Smoke Detectors c. Manual Call Points d. Optical Smoke detectors			
4.	Model	80162F2			
5.	Make	Syncro ASM			
6.	Quantity/Item Details	S. No	Part Number	Description	Quantity
		a.	58000-400	Heat Detectors	04
		b.	58000-600	Smoke Detectors	04
		c.	58100-971	Manual Call Points	06
		d.	ORB-OP-52028-APO	Optical Smoke Detector	01
		e.	55000-845	Zone Monitor	01
7.	Justification	Fair Wear and Tear			
8.	Work required	Rectification of malfunctioning Fire Detection devices			
9.	Scope of work	a. Defect diagnosis and subsequent rectification of malfunctioning Fire Detection devices. b. Replace unavailable/ obsolete components. c. Spare(s)/ components required for repair work will be arranged by contractor. d. Satisfactory installation/ Set to Work of Fire detection devices and onboard system trials. e. Growth work will be sole responsibility of the firm. f. Any damage to system during onboard testing of alarm control panel will be borne by contractor.			
10.	Technical Specifications	As per OEM Manual/ Specifications.			
11.	Eligibility Criteria	Suitable contractor having working experience on Electronics equipment with PMSA.			
12.	EDD	15 Days			
13.	Warranty	01 year service and components warranty after successful trials			
14.	Acceptance Criteria	a. OEM certified items to be provided to avoid any damage to ship system			
		b. Technical Specifications to be provided.			
		c. Satisfactory test and trials onboard ship.			
15.	Any Other Relevant info	SS may be contacted for any requirement/query			

IT NO : 37/13/2024-25
PMSS KASHMIR

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IT SPECIFICATION: DEFECT RECTIFICATION OF FIRE DETECTION AND ALARM SYSTEM

1.	System	Fire Detection And Alarm System
2.	Sub system	Acquisition Box
3.	Assembly Component	Misc
4.	Make	CSSC Systems Engineering Research Institute
5.	Model	H/KJC-1
6.	Quantity	01
7.	Justification i.e PMS/ Failure/ FWT etc	FWT
8.	Work Required/ Defect	Defect Rectification Of Fire Detection And Alarm System
9.	Scope of Work	<ol style="list-style-type: none">a. Dismantling of acquisition board, control circuit board, analog board, core and power boardb. Repair of complete circuit boardc. Verification of control wiringd. STW on complete systeme. Spares (if any) required to conduct the routines will be provided by firmf. Any growth work will be bear by firm
10.	Technical Specs	As per relevant TPIs & JICs
11.	Eligibility Criteria	<ol style="list-style-type: none">a. Have experience to work onboard ships (preferably PMSA ships)b. Company must be certified with HQ PMSAc. Company must be Income and Sales tax registered
12.	EDC	02 weeks after confirmation of order
13.	Warranty	01 x Years
14.	Acceptance Criteria	Satisfactory trials of sytem for 2 weeks
15.	Any other relevant information	Firm must visit onboard before providing quotation to verify exact scope of work

**IT SPECIFICATIONS FOR REPAIR/ FABRICATION OF VENTILATION DUCTS/ TRUNKING
- PMSS HINGOL**

S No	Description										
1.	Parent Equipment	Exhaust/ Ventilation									
2.	Sub Equipment	-									
3.	Assembly Component	Ducts/ Trunking									
4.	Model	Aluminum material									
5.	Make	-									
6.	Quantity/Item Details	Ventilation ducts (Aluminum material) with following dimensions is to be fabricated and replaced: <table border="1"><thead><tr><th>S No</th><th>Width x Height (Inches)</th><th>Length (Feet)</th></tr></thead><tbody><tr><td>a.</td><td>13" x 10"</td><td>5'</td></tr><tr><td>b.</td><td>13" x 10"</td><td>8'</td></tr></tbody></table>	S No	Width x Height (Inches)	Length (Feet)	a.	13" x 10"	5'	b.	13" x 10"	8'
S No	Width x Height (Inches)	Length (Feet)									
a.	13" x 10"	5'									
b.	13" x 10"	8'									
7.	Justification	Ducts/ Trunking leaky and not properly ventilating the compartment									
8.	Work required/Defect	Repair/ Fabrication of ventilation ducts/ trunking with no leakage									
9.	Scope of work	a. Removal of deteriorated ducts. b. Fabrication of new ducts by the firm with Aluminum grade material c. Pressure test of ducts be undertaken for leakages d. New ducts to be installed with new gaskets on every joint. e. The studs/ Nut bolts be used for Stainless Steel material. f. After installation of ducts, successful onboard trials on running ventilation fans without any leakage from the ducts. g. All in-way accessories be removed by the firm and fitted back. h. Growth work will be sole responsibility of the firm. To avoid complications on later stage, firm is directed to visit the ship before quoting for understanding removal/installation and defect rectification scope. j. Firm quoting without visiting will be liable for rejection in TSR									
10.	Technical Specifications	As per dimensions given									
11.	Eligibility Criteria	a. Any registered and security wise cleared local contractor having good experience in above mentioned scope of work b. Firm must visit site for understanding exact nature of defect/hindrances involved in job prior quoting to avoid inconvenience on later stage after reward of Work Order. Firm is to quote for growth work by visiting ship in commercial quotation prior award of work order									
12.	EDC	02 Weeks									
13.	Warranty	01 Year Warranty									
14.	Acceptance Criteria	Satisfactory fabrication, installation and operation of ventilation ducts without any leakage.									
15.	Any Other Relevant Information	SS may be contacted for any requirement/query									

**IT SPECIFICATIONS FOR REPAIR/ REPLACEMENT ILS SEVER (ONLY HARDWARE)
PMSS KOLACHI**

S No	Description	Qty	Specifications	Remarks
1	Parent Equipment		Integrated Logistic Support System (ILS)	
2	Sub Equipment		Nil	
3	Assembly Component		Nil	
4	Model		HP/ Dell or equivalent	
5	Make		HP/ Dell or equivalent	
6	Item Description	Qty	Specifications	Remarks
a.	ILS Server	01	Processor: Intel(R) Xeon (R) Gold-5218 CPU 3.25 GHz RAM: DDR4 512 GB (08 x 64 GB) Storage: SSD SAS 12 TB (06 x 2 TB)	For hosting of ILS CAMS Software onboard
b.	Server Rack	01	-	For server installation
c.	Desktop Computer	01	Processor: Core i9 latest Gen Processor 2.4 GHz RAM: Minimum 32 GB DDR5 Storage: Minimum 02 x 2TB SSD	01 x client computer is mandatory for utilization of software. Quantity may increase as Users.
d.	Network Switch	01	24/ 48 Ethernet Ports in addition with SFP Port.(Make/ Model HP Aruba 2530	To provide network connections with HQ PMSA and onboard
e.	Network Switch	01	-	For network switch installation
f.	UPS 5KVA	01	-	For deployment with server
7	Justification		Repair/ replacement of ILS server onboard for smooth conduct of PMS routines	
8	Work required/Defect		Successful repair/ replacement of ILS sever only hardware (including all accessories) with satisfactory operation of said system	
9	Scope of work		Successful repair/ replacement of ILS sever only hardware (including all accessories) with satisfactory operation of said system	
10	Technical Specifications		As per Technical Manual	
11	Eligibility Criteria		Any firm having good experience with PMSA/PN.	
12	EDD/EDC		04 x Months	
13	Warranty		Service and repair warranty 01 year	
14	Acceptance Criteria		a. OEM Certified items b. Items will be accepted after satisfactory test/ trials onboard. c. OEM Technical documents of item d. Upon scrutiny of item and provided documents i.e. technical specifications along with production certificates and batch No. by OEM e. Items must be genuine. Local products will not be accepted.	
15	Any other Information	Relevant	SS may be contacted for any requirement/query	

IT SPECIFICATION FOR MAIN FRIDGE UNIT PMSS SABQAT

1.	Parent Equipment	Main Fridge unit
2.	Sub Equipment	Compressor
3.	Assembly Component	Evaporator, Condenser, LP Safety
4.	Make	Made in France
5.	Model	310521
6.	Qty	01 X In No
7.	Justification PMS/Failure/ F.W.T etc	i.e Fridge performance degraded compressor non-ops.
8.	Work required/ defect	Repair/ Replacement of Main Fridge compressor.
9.	Detailed scope of work	Scope of work includes following works 1. Inspect the condenser unit. 2. Inspect compressor performance 3. Inspect evaporator 4. Replace any part if deemed necessary 5. Make system leakage free fill nitrogen for 24 hour 6. Create vacuum up to 20 inches of mercury to ascertain the sign of leakage and evacuation of air from system for 24 hour 7. Any damage occurs during the course of inspection work will be done by firm without any liability/ responsibility on part of the ship/PMSEA 8. Requirement of external services if any will be responsibility of the firm without any liability on the part of ship 9. Repair defective items are to be handover to ship staff
10.	Technical Specification	Nil
11.	Eligibilities	a. The firm should be NTN/GST registered. b. Reputable local contractor/OEM rep.
12.	EDC	07 working days.
13.	Warranty	01 year
14.	Acceptance criteria	i. Use OEM certified parts. ii. Satisfactory running trials. iii. Achievement of desired suction and discharge pressure.
15.	Any other relevant information	Nil

**IT SPECIFICATION FOR DEFECT RECTIFICATION OF MAIN REFRIGERATION PLANT NO 1 &
2 – PMSS HINGOL**

S No.	Description	
1.	Parent System	CLZ4 Marine Packed Refrigeration Plant
2.	Sub System	Compressor and Condenser
3.	Assy Component	Compressor, Condenser, Valves, Refrigerant circuit
4.	Origin	China
5.	Make	Jiangsu Josun Air Conditioner Co., Ltd
6.	Model	CZLZ-4
7.	Quantity	02
8.	Technical specs	As per OEM Manual/ Specs
9.	Justification	Leakage of refrigerant from refrigerant circuit
10.	Scope of Work	a. Inspection of complete gas circuit including evaporator, condenser and compressor gas circuit lines of both the systems b. Replacement of both compressors suction valves and dryer c. 24 hour Nitrogen gas pressure test of both of the system for identification of any leakage. d. Oil charging of both the compressors by contractor during work and within warranty period whenever needed. f. Satisfactory test/ trials of both the systems g. All tools and test equipment's will be arranged by firm/ contractor
11.	Eligibilities	Reputable local contractor having working experience of Refrigeration Plant repairs onboard HINGOL Class MPVs.
12.	EDC	07 x Days
13.	Warranty	One Year warranty after test/ trials for b. Satisfactory operation without any leakage of refrigerant c. Brazing of circuit whenever needed within warranty period
14.	Acceptance Criteria	c. Satisfactory operation of plant without vibration and noise. d. Satisfactory operation of plant without refrigerant leakage. e. Maintaining the temperature of Cold Room (-6C to -18C) and Cool Room (+12C to +6C) f. Satisfactory operation of both suction valves without refrigerant leakage
15.	Any other Information	a. Damage/ defect occurred to system during work is responsibility of contractor. b. Dismantling/ assembling/ installation and in way removal work is responsibility of contractor.

IT SPECIFICATION FOR PMS ROUTINE STEERING HYDRAULIC RAMS –PMSS ZHOB

1/3

S.No	Description	
1.	Parent equipment	Steering system
2.	Sub equipment	Hydraulic ram
3.	Assembly component	
4.	Model	SCAN160-100S (Part No. S160-03-02)
5.	Make	Wuhan Mekand Equipment Co.Ltd
6.	Qty	02
7.	Justification	MMS routine
8.	Work required/Defect	Check the cylinder seals and replace
9.	Scope Of Work	<ul style="list-style-type: none"> a. Contractor is to visit ship and carry out detailed inspection of hydraulic ram. b. Repair/ replacement of any other part, if required will be treated as growth work. c. Provision of OEM specified hydraulic oil for the system. d. Pressure test of the system i.e 16 MPa for any leakage e. Firm to use OEM genuine spare parts if deemed necessary. f. All parts are to be properly aligned during assembling the hydraulic ram; no loose fit will be accepted. g. All tools and test equipment's will be arranged by the firm h. All in way accessories be removed by firm and fitted back.
10.	Technical specifications	As per OEM manual
11.	Eligibility criteria	<ul style="list-style-type: none"> a. Reputable local contractor having working experience of Hydraulic steering system related activity in PMSA. b. Firm must visit site for understanding exact nature of work.
12.	EDC	As Soon As Possible (04 Days)
13.	WARRANTY	<p>1-year warranty for satisfactory operation of Hydraulic ram without following defects:</p> <ul style="list-style-type: none"> a. Hydraulic oil leakage from ram. b. Decreased working pressure.
14.	ACCEPTANCE CRITERIA	<ul style="list-style-type: none"> a. Satisfactory harbor trails followed by successful sea trials of hydraulic ram on rated parameters b. Satisfactory operation without increased noise, vibration & leakage.
15.	ANY OTHER INFORMATION	Growth Work, Damage/ defect occurred during work is responsibility of contractor.

IT SPECIFICATION OF SRE SYSTEM - PMSS REHMAT

S No	IT SPECIFICATIONS
1.	Parent Equipment SRE and Conning System
2.	Sub equipment Speakers, Mics and cabling where required
3.	Assembly component
4.	Make BOC SH China
5.	Model LC3-UC06/ Equivalent
6.	Quantity 09 Speakers + 03 marine version Mics
7.	Justification i.e PMS/ Failure/FWT etc Item critically required for maintaining operational capability
8.	Work Required/ Defect Repair/Replacement of defective speakers and mics of SRE system/conning system
9.	Detailed scope of work <ol style="list-style-type: none">1. Complete repairs/ replacement of defective speakers and mics ensuring satisfactory operation of SRE and conning system.2. Rewiring/ rectification of cables where required.3. Provision and installation of accessories w.r.t rectification system.
10.	Technical Specs (If any) SRE ceiling Speaker Mics JLC Japan NVT-100 Dynamic Microphone
11.	Eligibility Criteria Power rating: 6W/ 100V Imp-40Ohm weight 100gms <ol style="list-style-type: none">a. The firm should visit onboard to understand defectb. Firm not undertaking the visit onboard ship to see defect work will not technically qualify.c. The firm has sufficient experience of same kind of workd. NTN/GST registered.
12.	EDC 02 x Weeks
13.	Warranty 01 x Year warranty after installation.
14.	Acceptance Criteria (If any) Onboard system trials after installation
15.	Any other relevant information NA

**REQUIREMENT OF ANTISKID PAINT ON QUARTERDECK, FOX'L AND PASSAGEWAY
(PORT & STBD) – PMSS HINGOL**

S.NO	DESCRIPTION	
1.	Parent Equipment	Fox'l, Quarterdeck and Passageways (Port & Stbd)
2.	Sub Equipment	Anti Skid Paint
3.	Make	CSTS
4.	Justification	Anti skid paint on Quarterdeck & Fox'l observed degraded
5.	Work Required	Application of anti skid paint on Quarterdeck (1412 Sq feet) and Fox'l (1042 Sq feet). Total area 2463 Sq feet.
6.	Detail Scope of Work	a. ✓ Removal of previously applied paint by chipping/ Scrapping b. ✓ Grit blasting using mixture of cooper slag and silica (I.I) c. ✓ Application of gp-3 primer (03 coats) d. ✓ Detergent de-greasing e. ✓ Solvent de-greasing f. ✓ Application of grey epoxy base coat g. ✓ Sprinkling of antiskid grain h. ✓ Application of dark grey epoxy top coat(02 coats)
7.	Technical spec	As per OEM Manual
8.	Eligibilities	Reputable local contractor having experience of provision/ application of antiskid paint
9.	EDC	02 Week
10.	Warranty	02 Years
11.	Acceptance Criteria	a. Visual inspection alongwith provision of documentation/ certificates b. Shelf life of 01 year

IT SPECIFICATION FOR REPLACEMENT OF TYRES

1.	SYSTEM	TYRES OF MT VEHICLE								
2.	MAKE	Suzuki Van								
3.	MODEL	2002								
4.	VEHICLE NO / TYPE	020407 MS SUZUKI VAN								
5.	TYPE OF TYRES REQUIRED	BRIDGESTONE /DUNLOP/GENERAL EQUIVALENT.								
6.	ITEM DESCRIPTION	<table border="1"><thead><tr><th>S No</th><th>PATT/PART NO</th><th>DESCRIPTION</th><th>QTY</th></tr></thead><tbody><tr><td>a</td><td>SIZE:4.50-12 LT</td><td>Tubeless</td><td>04</td></tr></tbody></table>	S No	PATT/PART NO	DESCRIPTION	QTY	a	SIZE:4.50-12 LT	Tubeless	04
S No	PATT/PART NO	DESCRIPTION	QTY							
a	SIZE:4.50-12 LT	Tubeless	04							
7.	TECHNICAL SPECIFICATIONS	AS PER SPECIFICATION								
8.	PRELIMINARY INVESTIGATION BY SHIP'S STAFF	D(MT) & MTO STAFF								
9.	ELIGIBILITY	REGISTERED CONTRACTOR								
10.	EDD	15-DAYS								
11.	WARRANTY	01 YEAR								
12.	ACCEOTABCE CRITERIA	ON BOARD / SHELF LIFE NOT MORE THAN 06 MONTH								
13.	ANY OTHER RELEVANT INFORMATION	WHEEL ALIGNMENT/BALLANCING AFTER FITTING OF NEW TYRES ARE REQUIRED. AUTHORIZED DISTIBUTER CERTIFICATE IS REQUIRED.								

**IT SPECIFICATIONS FOR SAILOR 7016C ANTENNA CONTROL UNIT (KU BAND DVBS) -
PMSS ZHOB**

S No	Description	
1.	Parent equipment	KU BAND DVBS
2.	Sub-equipment	Antenna control unit (ACU)
3.	Assembly Component	Antenna control unit (ACU)
4.	Model	SAILOR 7016C
5.	Make	COBHAM
6.	Quantity/Item Details	1
7.	Justification	ACU malfunctioning and unable to establish connection between satellite and system.
8.	Work Required/ Defect	a. Repair/Replacement of ACU b. Satisfactory installation of ACU onboard
9.	Detailed Scope of Work	Repair/ replacement of above mentioned item and defect rectification of ACU (KU BAND DVBS) followed by onboard trials / STW in Tx/ Rx mode
10.	Technical Spec	As per OEM Manual
11.	Eligibility Criteria	Any registered security wise clear local contractor who has working experience onboard MPVs
12.	EDC/ EDD	7 Days
13.	Warranty	1 Year
14.	Acceptance Criteria	a. Only OEM certified item be accepted b. Item be accepted after satisfactory test/ trials onboard at sea. c. Successful trials by end user along with satisfactory test/ trials sheets duly signed by the firm
15.	Any other information	Firms are requested to visit site before quoting for further information

**IT SPECIFICATIONS FOR REPAIR/ OVERHAULING OF PACKAGE SEA WATER PUMP
NO.1: PMSS KOLACHI**

S No	Description	
1.	Parent Equipment	Package ACs
2.	Sub Equipment	Sea Water Pump
3.	Assembly Equipment	a. Shaft b. Pump Plate c. Mechanical Seal d. Impeller e. Pump Base f. Motor Bearings g. Motor winding
4.	Make	Jiangsu Zhenhua Pump Industry.
5.	Model	CLH50-32-4.5(Z)A
6.	Quantity	01
7.	Justification i.e PMS/ Failure/ FWT etc	Repair/ Replacement of above mentioned items is required for Package ACs
8.	Work required/ defect	Repair/ Overhauling of Sea Water Pump
9.	Detailed scope of work	1. Repair/ Replacement of following parts: a. Shaft b. Pump Plate c. Mechanical Seal d. Impeller e. Pump Base f. Motor Bearings g. Motor Winding 2. Successful HATs
10.	Technical specifications	As per OEM specifications/ Manual
11.	Eligibility criteria	Reputable local contractor having working experience with PMSA
12.	EDC/EDD	15 Days after award of contract
13.	Warranty	01 Year
14.	Acceptance criteria (if any)	a. OEM Certified item b. Technical specifications should be mentioned c. Impeller size as per designed size d. No motor Overheating
15.	Any other relevant information	Contact MEO (0333-8948563)

IT SPECIFICATIONS FOR REAIP/ REPLACEMENT OF SEAWATER PUMP GENSET NO 2

S.No	Description	
1.	Parent equipment	GENSET No 2
2.	Sub equipment	Pump-GP Auxiliary Seawater (Part No 170-6116)
3.	Assembly component	
4.	Model	C9 Marine GENSET
5.	Make	CATERPILLAR (USA)
6.	Qty	01
7.	Justification	Upon inspection leakage was observed from sea water cooling pump
8.	Work required/Defect	Repair/ Replacement of seawater pump ✓
9.	Scope Of Work	<ul style="list-style-type: none"> a. Contractor is to visit ship and carry out detailed inspection of seawater pump b. Repair/ replacement of any other part. if required will be treated as growth work c. Seawater pump to be completely dismantled d. Pump to be inspected for wear in body/casing and other components e. Shaft trueness to be checked and corrected if required f. Replacement of mechanical seal g. Pump impeller to be replaced with new h. Pump back plate along with comb plate j. Assembling of pump and fitting back by the firm k. Firm to use OEM genuine spare parts if deemed necessary l. All parts are to be properly aligned during assembling seawater pump. no loose fit will be accepted m. All tools and test equipment's will be arranged by the firm
10.	Technical specifications	As per OEM manual
11.	Eligibility criteria	<ul style="list-style-type: none"> a. Reputable local contractor having working experience of C9 Marine GENSET related activity in PMSA b. Firm must visit site for understanding exact nature of work
12.	EDC ✓	As Soon As Possible
13.	WARRANTY	<p>1-year warranty for satisfactory operation of GP auxiliary seawater pump without following defects:</p> <ul style="list-style-type: none"> a. No wear tear/ Seawater leakage from body b. Back plate alongwith comb plate
14.	ACCEPTANCE CRITERIA	<ul style="list-style-type: none"> a. Satisfactory harbor trails followed by successful sea trials of Genset seawater pump on rated parameters b. Satisfactory operation without increased noise vibration & leakage
15.	ANY OTHER INFORMATION	Growth Work Damage/ defect occurred during work is responsibility of contractor

IT NO : 37/25/2024-25

IT SPECIFICATION FOR REPAIR/ REPLACEMENT OF EXISTING MONITORING, PROTECTION AND CONTROL SYSTEM WITH PLC BASED OF FWD PORT MAIN ENGINE (FPME) - PMSS NUSRAT

S No.	IT Specifications	
1.	Ship's Name	PMSS NUSRAT
2.	Parent Equipment	Forward Port Main Engine
3.	Sub System	PLC base Monitoring, Protection and Control System IP-67 rating
4.	Assembly Components	PLC and associated I/Os
5.	Make	Mitsubishi brand PLC
6.	Model	FX-3U
7.	Quantity	01
8.	Justification i.e PMS/ Failure/ FWT etc	PLC and associated I/Os working abnormally resulting in erratic behavior of system. Control system malfunction causing undesired system parameters and false trigger alarms. Control system on remote not available
9.	Work Required/ Defects	Detect rectification of existing Control system
10.	Scope of Work	Work of scope as under: a. Replacement of FPME existing monitoring, protection and control system with PLC and associated I/O's with IP-67 rating b. Check & diagnosis/ repair/ replacement of PLC module c. Check & diagnosis/ repair/ replacement of associated I/Os cards d. Check & diagnosis/ repair/ replacement of GCU cards e. Complete functionality as in present system to be provided as enumerated below f. HMI Software to display following parameters/ indications: (1) Lube oil pressure (2) Gear box Lube oil pressure (3) Gear box Lube oil temperature (4) Exhaust temperature A-bank (5) Exhaust temperature B-bank (6) Combine exhaust temperature (7) Engine RPM (8) Coolant water temperature (9) Coolant low water warning/ trip switch (10) Charge air temperature (11) Sea water pump discharge pressure (12) Shaft RPM (13) Ahead Astern & disengage indication of shaft g. Incorporation of following warning in case of any abnormality: (1) High coolant temperature (95C°) (2) High gear box Lube oil temperature (130C°) (3) Low engine Lube oil pressure (2.5 bar) (4) Low gear box lube oil pressure (2.5 bar) (5) Low sea water pressure (0.2 bar) h. Local control system should be stand alone with following control option: (1) Local remote selector switch (2) Start/ stop, emergency stop switch (3) Ahead/ Astern Switch (4) Engine Speed Controller (5) Volt meter batteries (6) Fuel injection pump cut in/ cut out indication (7) Maximum speed protection system (8) Engine hours counter meter j. To be designed on following parameters to operate safely resulting in ME trips/ shout down: (1) Low engine Lube oil pressure (1.5 bar) (2) High coolant temperature (95C°) (3) High engine Lube oil temperature (105C°) (4) Engine over speed (2000 RPM) (5) Low gear box lube oil pressure (1.5 bar) k. Engine Emergency stop safety is available in MCR, LCP and Bridge l. Parameters logging should be provided alongwith facility of system recording for 04 x weeks as well as engine order recording for 04 x hours to be provided m. 15" I/M to be repair/ installed new in MCR should be able to show parameters of engine in suitable partition n. System should be easy and quick in fault diagnosis with alarm identification on screen i.e sensor defective (SD), Wind Broken (WB), or other defects possible to program to be displayed on I/M o. PLC programming and backup software to be included in deliverable. Further SS training for software installation to be provided p. All slanted cable marking is required and extra wire should be remove in complete control system q. Operator manual technical Manual, Maintenance Manual along with illustrated part catalogue to be provided r. Auto cut in/ cut out of fuel pumps should be available s. Control station change over mode should be available from LCP/MCR/Bridge and Vice Versa with indication/ buzzer t. Compatibility of governor and governor control unit with new control system is the responsibility of the firm u. The Firm will also provide complete system diagram/ fault finding procedure/ troubleshooting procedures on laminated hard and soft copy v. Training is to be provided to SS to operating the system and level 1 and maintenance w. Diagnostic tool for fault diagnostic and rectification of control system x. The firm will provide all documents/ operating and maintenance manual and drawing (02 set) in hard and soft copy y. The firm will be responsible to undertake any work not covered above to ensure good quality of work za. There will no growth work zb. The firm will be responsible for welding/ cutting if required zc. All spares, tools, special equipment/ tools, accessories etc for fabrication/ installation are to be arranged by the contractor zd. The firm will be responsible for requirement of external services ae. Any damage/ defect/ wear tear occur during the course of removal and installation of core assembly will be repaired/ met by firm af. Firm will provide complete list of spares/ stores fitted/ renewed / replaced with complete description and part number, and old items to be provided to SS for survey ag. The firm will be responsible for all removal transportation installation work during warranty/ guarantee period claims and in case of any re-work ah. The system should be supportable for next 15 years ai. As per IT Spec a. The firm should visit onboard and carryout inspection to establish the extent of required work b. The firm should having good experience of the same kind of work required onboard c. The firm should be NTN/GIN registered 13. EDC 45 x working days after issuance of work/ confirmation order 14. Warranty / Guarantee a. 01 year/1500 Hrs from the date of acceptance b. Firm will also provide a guarantee certificate for provision of spares/ parts for next 05 years successful installation of system 15. Acceptance criteria a. Successful defect rectification of Control system b. HATS/ SATs 16. Any other relevant information Nil

IT NO : 37/26/2024-25
PMSS INDUS

IT SPECIFICATION FOR PURCHASE OF 02 x DEFIBRILLATORS

System	DEFIBRILLATORS
Location	SICKBAY PMSS INDUS
Quantity	02
Make	France
Model	SCHILLER FRED PA-1
Technical Specification	<p>Here are the technical specifications of the Schiller FRED PA-1 defibrillator:</p> <p>Dimensions: 31 x 25.5 x 10 cm (or 40 cm x 17 cm for the device with the cover)</p> <p>Weight: 2.5 kg</p> <p>Energy Levels: Adult: 150/200J Child: 50/50/50J (with optional pediatric electrode pads connected).</p> <p>Battery Life: 6 years standby life.</p> <p>IP Rating: 55 (high water and dustproof rating).</p> <p>Operating Temperature: 5 to 40 C.</p> <p>Data Storage: Up to 2 hours of intervention data on a SD card</p> <p>Warranty: 10 year manufacture warranty.</p>
Eligibility	All Reputable GST Registered Firms/ Contractors/ Supplier
Warranty	01 year
EDD	01 Month
Acceptance Criteria	Test Trial by Sickbay Staff
Any other information	Item will only be accepted after satisfactory test/trials by Sickbay Staff
Term of Payment	100% Payment after installation

**IT SPECIFICATIONS – REPAIR/ REPLACEMENT OF MISC EQUIPMENTS - PMSS
KASHMIR**

1.	Parent Equipment	Crane, Dish Washer, Bilges Valve Mechanism and Firefighting Hoses
2.	Sub Equipment	Misc
3.	Assembly Component	Misc
4.	Make	Misc
5.	Model	Misc
6.	Quantity	02
7.	Justification	FWT
8.	Work Required/ Defect	As per para 9
9.	Detailed scope of work	Following work to be undertaken: a. Repair of remote operating lever and hand pump of 02 tons crane b. Repair of ship's galley dish washer c. Repair of electrical mechanism of bilge valves PCB d. Repair/ replacement of level sensor of fresh water tank No 4 e. Repair/ replacement of 6 x gauges of misc parameters f. Repair/ replacement of 2 x firefighting hoses g. Repair/ replacement of regent water hardness H1 & H2 and Chloride CL 1,CL2 & CL2 h. Repair/ replacement of 1 x hello crash FF suit
10.	Technical specs	As per TPI
11.	Eligibility Criteria	(i). Have experience to work for ships (preferably PMSA ships) (ii). Company must be certified with HQ PMSA (iii). Company must be Income and Sales tax registered
12.	EDC/ EDD	15 Days after award of contract ✓
13.	Warranty	1 Year
14.	Acceptance Criteria	After successful trials of both systems on designed temperatures
15.	Any Other Relevant Information	SS contact (0321-3000503)

IT SPECIFICATION COMERCIAL REPAIR CASE OF VEHICLE NO 080316 MS ISUZU TRUCK

1	SYSTEM	COMERCIAL REPAIR																		
2	MAKE	ISUZU TRUCK																		
3	MODEL	2008																		
4	VEHICLE NO	080316 MS																		
5	ITEM DESCRIPTION	<p align="center">Following items will be repair/replaced</p> <table border="1"> <thead> <tr> <th>S No</th> <th>Work Description Repair/Replace</th> </tr> </thead> <tbody> <tr> <td>a.</td> <td>Clutch Plate</td> </tr> <tr> <td>b.</td> <td>Pressure Plate</td> </tr> <tr> <td>c.</td> <td>Clutch Cylinder(Upper & Lower)</td> </tr> <tr> <td>d.</td> <td>Break Service & Break Shoe</td> </tr> <tr> <td>e.</td> <td>04x Wheel Greasing</td> </tr> <tr> <td>f.</td> <td>Self & Generator Repair</td> </tr> <tr> <td>g.</td> <td>Radiator Replaced (Denso)</td> </tr> <tr> <td>h.</td> <td>Pump Atomizer & Nozzle Service</td> </tr> </tbody> </table>	S No	Work Description Repair/Replace	a.	Clutch Plate	b.	Pressure Plate	c.	Clutch Cylinder(Upper & Lower)	d.	Break Service & Break Shoe	e.	04x Wheel Greasing	f.	Self & Generator Repair	g.	Radiator Replaced (Denso)	h.	Pump Atomizer & Nozzle Service
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f.	Self & Generator Repair																			
g.	Radiator Replaced (Denso)																			
h.	Pump Atomizer & Nozzle Service																			
6	TECHNICAL SPESIFICATINOS	MATERIAL AS PER EXISTING																		
7	PRELIMINARY INVESTIGATION BY SHIPS'S STAFF	D(MT) / MTO STAFF																		
8	ELIGIBILITY	REGISTERED CONTRACTOR																		
9	EDD	30 DAYS																		
10	WARRANTY	WARRANTY 12 MONTHS																		
11	ACCEPTANCE CRITERIA	STAGE INSPECTION BY END USER																		
12	ANY OTHER RELEVANT INFORMATION	N/A																		

IT SPECIFICATION COMERCIAL REPAIR CASE OF VEHICLE NO070313MS ISUZU TRUCK

1.	SYSTEM	COMERCIAL REPAIR
2.	MAKE	ISUZU TRUCK
3.	MODEL	2007
4.	VEHICLE NO	070313 MS
5.	ITEM DESCRIPTION	Following items will be repair/replaced
		S No Work Description Repair/Replace
		a Complete cabin repair(rusted parts must be replaced with new one)
		c Silencer replacement
		c Fuel injection pump and nozzle servicing
		d Wiper motor and wiper blade replacement
		e Main steering assembly repairing and heat gauge repairing/ replacement
6.	TECHNICAL SPESIFICATINOS	MATERIAL AS PER EXISTING
7.	PRELIMINARY INVESTIGATION BY SHIPS'S STAFF	D(MT) / MTO STAFF
8.	ELIGIBILITY	REGISTERED CONTRACTOR
9.	EDD	30 DAYS
10.	WARRANTY	WARRANTY 12 MONTHS
11.	ACCEPTANCE CRITERIA	STAGE INSPECTION BY END USER
12.	ANY OTHER RELEVANT INFORMATION	N/A

IT NO : 37/30/2024-25**PMSS D(MT)****IT SPECIFICATIN COMERCIAL REPAIR CASE - 080317 ISUZU TRUCK**

1.	SYSTEM	COMERCIAL REPAIR
2.	MAKE	ISUZU TRUCK
3.	MODEL	2008
4.	VEHICLE NO	080317 MS
5.	ITEM DESCRIPTION	Work Description a. Complete vehicle dent paint required Complete vehicle dent paint required b. Silencer Replaced with new c. Ignition Switch d. Break pressure system repair work e. Hydraulic system repair work
6.	TECHNICAL SPESIFICATINOS	MATERIAL AS PER EXISTING
7.	PRELIMINARY INVESTIGATION BY SHIPS'S STAFF	D(MT) / MTO STAFF
8.	ELIGIBILITY	REGISTERED CONTRACTOR
9.	EDD	30 DAYS
10.	WARRANTY	WARRANTY 12 MONTHS
11.	ACCEPTANCE CRITERIA	STAGE INSPECTION BY END USER
12.	ANY OTHER RELEVANT INFORMATION	N/A

IT SPECIFICATIONS- REPAIR/ REPLACEMENT OF LOS CARD – PMSS HINGOL

S No	Description	
1.	Parent System	Main Engine No 3
2.	Engine Serial Number	527112713
3.	Sub Equipment	Local Operating Panel
4.	Assembly Component	Local Operating System Card
5.	Make	MTU
6.	Model	16V4000M73L
7.	Quantity/ Item Details	01 x Local Operating System Card
8.	Justification	Main Engine No 3 operational parameters not available at local position, defect to be rectified for satisfactory operation
9.	Work Required	Repair/ replacement of the above mentioned item from OEM/ Local Engineering House
10.	Scope of Work	a. Diagnosis and troubleshooting of faulty components on LOS card. b. Replacement of faulty components of on LOS card. c. Installation OEM Certified updated software d. Trials of LOP on Main Engine No 3 e. In case of irreparable components, replacement of LOP, with OEM certified LOP f. Integration of LOS card with existing system including installation of software
11.	Eligibilities	Reputable local contractor having working experience of MTU Control systems. OEM authorized reps will be given preference
12.	EDC	07 days
13.	Warranty	OEM Standard 01 Year Warranty
14.	Acceptance Criteria	a. OEM certified item. All technical documents will be provided with the item. b. Satisfactory operation of Main Engine No 3 control system after installation of the item
15.	Any Other Information	Nil

IT SPECIFICATION FOR REPAIR OF MICOM-3T HF TRANSCEIVER - PMSS
SABQAT

1.	Parent Equipment	MICOM-3T HF Transceiver
2.	Sub Equipment	--
3.	Assembly Component	--
4.	Make	Japan
5.	Model	M91AMNOKV5BK
6.	Qty	01
7.	Justification i.e PMS/Failure/ F.W.T etc	Defective
8.	Work required/ defect	Repair/Replacement MICOM-3T HF transceiver
9.	Detailed scope of work	Repair MICOM-3T HF transceiver including undermentioned jobs: a. Complete installation & Prove system satisfactory operation. b. Requirement of external service, if any will be responsibility of the firm without any liability on the part of ship. c. Defective items are to be handed over to SS.
10.	Technical Specification	--
11.	Eligibilities	a. The firm should visit onboard and carry out inspection to establish the extent of required work. b. The firm should have experience of the same kind of work. c. The firm should be NTN/GST registered.
12.	EDC	15 days.
13.	Warranty	01 year
14.	Acceptance Criteria (if any)	a. OEM certified parts. b. Satisfactory running trials.
15.	Any other relevant information	Nil

IT SPECIFICATION FOR PORT SSDG CORE ASSEMBLY - PMSS SABQAT

1.	Parent Equipment	Port SSDG
2.	Sub Equipment	Coolant tank
3.	Assembly component	Core assembly
4.	Make	CATERPILLAR USA
5.	Part no	297-0414
6.	Qty	01
7.	Justification i.e PMS/Failure/FWT ec	Core assembly tubes found leaky due sea water corrosion.
8.	Work required/defect	Repair/ Replacement of core assembly
9.	Detail scope of work	Scope of work include following works i. Repair/ replacement of core assembly ii. Pressure test to be carried out.
10.	Technical specification	NIL
11.	Eligibility criteria	i. The firm should visit onboard and carry out inspection to establish the extent of required work. ii. The firm should have experience of the same kind of work iii. The firm should be NTN/GST registered.
12.	EDC	14 days
13.	Warranty	01 year
14.	Acceptance criteria	OEM certified material
15.	Any other relevant information	Nii

IT SPECIFICATIN COMERCIAL REPAIR CASE VEHICLE NO 170413 MS JINCHING VAN

1.	SYSTEM	COMERCIAL REPAIR																		
2.	MAKE	JINCHING VAN																		
3.	MODEL	2017																		
4.	VEHICLE NO	170413 MS																		
5.	ITEM DESCRIPTION	<p>Work Description</p> <p>Following items will be repair/replaced:</p> <table border="1"> <thead> <tr> <th>S No</th> <th>Work Description Repair/Replace</th> </tr> </thead> <tbody> <tr> <td>a.</td> <td>Complete vehicle minor dent paint</td> </tr> <tr> <td>b.</td> <td>Power steering motor repair, belt replace & steering oil</td> </tr> <tr> <td>c.</td> <td>Complete suspension work 04x shock absorber repair, steering assembly repair, ball joint change, kenchi bush change, racket, Tyrode and balance road replace, steering cross replace, complete foundation replace</td> </tr> <tr> <td>d.</td> <td>Head light & wind screen buff, H/bulb replace, break light, indicator and assembly repair</td> </tr> <tr> <td>e.</td> <td>Complete A/C work Compressor, condenser, induction and suction line, thermostat valve, fan motor, A/C fan belt, dryer, gas charge</td> </tr> <tr> <td>f.</td> <td>Clutch plate, pressure plate, clutch bearing, main seal and gear seal, shaft cross replace.</td> </tr> <tr> <td>g.</td> <td>Front disk paid set, rear break shoe set, disk polish, wiper blade replace</td> </tr> <tr> <td>h.</td> <td>Complete vehicle greasing, gear cable replace, driver side glass repair and complete vehicle service</td> </tr> </tbody> </table>	S No	Work Description Repair/Replace	a.	Complete vehicle minor dent paint	b.	Power steering motor repair, belt replace & steering oil	c.	Complete suspension work 04x shock absorber repair, steering assembly repair, ball joint change, kenchi bush change, racket, Tyrode and balance road replace, steering cross replace, complete foundation replace	d.	Head light & wind screen buff, H/bulb replace, break light, indicator and assembly repair	e.	Complete A/C work Compressor, condenser, induction and suction line, thermostat valve, fan motor, A/C fan belt, dryer, gas charge	f.	Clutch plate, pressure plate, clutch bearing, main seal and gear seal, shaft cross replace.	g.	Front disk paid set, rear break shoe set, disk polish, wiper blade replace	h.	Complete vehicle greasing, gear cable replace, driver side glass repair and complete vehicle service
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6.	TECHNICAL SPESIFICATINOS	MATERIAL AS PER EXISTING																		
7.	PRELIMINARY INVESTIGATION BY SHIPS'S STAFF	D(MT) / MTO STAFF																		
8.	ELIGIBILITY	REGISTERED CONTRACTOR																		
9.	EDD	30 DAYS																		
10.	WARRANTY	WARRANTY 12 MONTHS																		
11.	ACCEPTANCE CRITERIA	STAGE INSPECTION BY END USER																		
	ANY OTHER RELEVANT INFORMATION	N/A																		

Note: 100% Payment after completion by CNA

Director General
Pakistan Maritime Security Agency
Plot No 34-A,
Dockyard Road
KARACHI
Telephone 021-48509194
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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 along with 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 along with 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.

c. **BID SECURITY:** All registered firms are exempted from provision of bid security upto Rs.500,000/- and unregistered firms have to provide bid security equals to 02% for bids amounting upto Rs.500,000/- in the shape of Pay Order in favor of "IT Sale Account DG PMSA". Furthermore, firms are required to deposit bid security not exceeding 05% of the bid price for bid value amounting more than Rs.500,000/-. Moreover, following guidelines will be followed:

- i. 2% from registered firms.
- ii. 5% from un-registered firms.

d. Total price of the items quoted against the tender is to be clearly mentioned. It should also contain a **pay order 2% or 5% 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.

e. **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 along with 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%:

<u>S.NO</u>	<u>Description</u>	<u>Unit Price</u>	<u>Qty</u>	<u>Total</u>	<u>GST @ 18% or SST @ 15%.</u>	<u>T/Price</u>

Please prepare quotation in this format In case of without GST or SST:

<u>S.NO</u>	<u>Description</u>	<u>Unit Price</u>	<u>Qty</u>	<u>Total</u>	<u>T/Price</u>

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. RETURN OF EARNEST MONEY:

- a. Earnest money to the unsuccessful bidders will be returned **one week** after commercial opening date.
- b. Earnest money to the firm who has won the purchase order/ work order & contract will be returned on submission of Bank Guarantee as per the contract.

9. TENDER FEE:

Each technical offer must be accompanied with Cash of **Rs.1,000/-** nonrefundable as tender fee
(In favour 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.

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 quotes where applicable:

- a. OEM / Authorized Dealer/Agent Certificate alongwith OEM Dealership Evidence as applicable.
- b. The Supplier is to provide OEM conformance certificate. In case of Fax or e-mail hard copy of conformance certificate must follow. On receipt of this PMSA HQ may approach the OEM to confirm the veracity of the documents submitted. Companies / firms rendering false OEM conformance certificate will be penalized as per rules in vogue.

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 (excluding taxes, duties / freight handling charges on a stamp paper of the value of (Rs.100/00) 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 IT or made subject to confirmation late.