

SEPARATE QUOTATIONS REQUIRED FOR ATTACHED 75 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

PURCHASE/ PROCUREMENT OF LUBE OIL PRESSURE TRANSMITTER OF MAIN GEAR BOX – PMSS ZHOB

S No	Description											
1.	Ship's Name	PMSS ZHOB										
2.	Parent Equipment	Main Engine Gear Box										
3.	OEM	Danfoss										
4.	Make/ Model	MBS-3100										
5.	Origin	China										
6.	Sub Equipment	Lube Oil Pressure Transmitter (0-30) bar										
7.	Assembly components	Lube Oil Pressure Transmitter (0-30) bar										
8.	Part No of assembly components	Lube Oil Pressure Transmitter MBS-3100 (060G3567)										
9.	Quantity	4										
10.	Source of availability	6430 Nordborg Denmark										
11.	Justification of work	Purchase/ procurement of lube oil pressure transmitter MBS-3100 (060G3567) (0-30 bar)										
12.	Details Scope of Work	<table border="1"> <thead> <tr> <th align="center">a</th> <th align="center">b</th> <th align="center">c</th> </tr> <tr> <th align="center">Details of Repair work Required</th> <th align="center">Details of services Required</th> <th align="center">Details of Spares Required</th> </tr> </thead> <tbody> <tr> <td>Purchase/ procurement of lube oil pressure transmitter MBS- 3100 (0-30 bar) for main engine gear box control oil through OEM/ local sources.</td> <td> (a) Purchase/ procurement of lube oil pressure transmitter through trained technicians. (b) Onboard Test/ trials to be conducted after replacement. (c) Spare(s)/ components required for repair work will be arranged by contractor. (d) Contractor is to inspect pressure transmitter by visiting ship before quoting for job. </td> <td> 4 x Lube Oil Pressure Transmitter Part No: MBS-3100 (060G3567) </td> </tr> </tbody> </table>	a	b	c	Details of Repair work Required	Details of services Required	Details of Spares Required	Purchase/ procurement of lube oil pressure transmitter MBS- 3100 (0-30 bar) for main engine gear box control oil through OEM/ local sources.	(a) Purchase/ procurement of lube oil pressure transmitter through trained technicians. (b) Onboard Test/ trials to be conducted after replacement. (c) Spare(s)/ components required for repair work will be arranged by contractor. (d) Contractor is to inspect pressure transmitter by visiting ship before quoting for job.	4 x Lube Oil Pressure Transmitter Part No: MBS-3100 (060G3567)	
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13.	Technical Specs	As per OEM Manual/ Specs										
14.	Eligibilities	Suitable contractor having working experience on Electronics/ Electrical equipment with PMSA.										
15.	EDC	5 Days										
16.	Warranty	2 year										
17.	Acceptance Criteria	a. Onboard successful test/ trials of lube oil pressure transmitter on main engine gear box. b. Certified spares to be used for avoiding damage to system and ship. c. Successful trials by end user. d. QA/QC certificate issuance by QA/QC Deptt.										
18.	Any other relevant information	Contractor may contact SS/ visit onboard ship to resolve any query.										

IT NO: IT/87/02/2025-26

CONDUCT OF PMS ROUTINE OF KCB DAILY SERVICES OIL PUMP - PMSS KASHMIR

S No	Description																												
1.	Ship's Name PMSS KASHMIR																												
2.	Parent Equipment Daily Service Oil Pump																												
3.	OEM HEBEI HENGSHENG PUMPS CO., LTD																												
4.	Make/ Model KCB83.3																												
5.	Origin China																												
6.	Sub Equipment Pumps and Motors																												
7.	Assembly components Stator Rotor Bearing 6306 Bearing 3306 Mechanical Seal Belt Gasket 1 Gasket 2 Motor Bearing																												
8.	Quantity 02																												
9.	Part No of assembly components <table border="1"><thead><tr><th>S No</th><th>DESCRIPTION</th><th>PART No</th><th>QTY</th></tr></thead><tbody><tr><td>a.</td><td>K83.3-01-02J</td><td>Driving Gear Shaft</td><td>2</td></tr><tr><td>b.</td><td>K83.3-01-01</td><td>Driving Gear Shaft</td><td>2</td></tr><tr><td>c.</td><td>58U-22</td><td>Mechanical Seal</td><td>2</td></tr><tr><td>d.</td><td>K55-01-03</td><td>Bearing</td><td>2</td></tr><tr><td>e.</td><td>K83.3-01-14</td><td>Safety Valve Spring</td><td>2</td></tr><tr><td>f.</td><td>B1104-66-00</td><td>Elastic Block</td><td>4</td></tr></tbody></table>	S No	DESCRIPTION	PART No	QTY	a.	K83.3-01-02J	Driving Gear Shaft	2	b.	K83.3-01-01	Driving Gear Shaft	2	c.	58U-22	Mechanical Seal	2	d.	K55-01-03	Bearing	2	e.	K83.3-01-14	Safety Valve Spring	2	f.	B1104-66-00	Elastic Block	4
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10.	Source of availability OEM, Local Market																												
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12.	Details Scope of Work As per S No 7, 8 & 9																												
13.	Technical Specs <table border="1"><thead><tr><th>S No</th><th>Description</th><th>Pump</th><th>Motor</th></tr></thead><tbody><tr><td>a.</td><td>Model</td><td>G35-1-00</td><td>Y100L-6-H</td></tr><tr><td>b.</td><td>Type</td><td>Horizontal gear pump</td><td>Marine three-phase asynchronous motor</td></tr><tr><td>c.</td><td>Pressure</td><td>0.3 Mpa</td><td>NA</td></tr><tr><td>d.</td><td>Power</td><td>NA</td><td>1.5 kW</td></tr><tr><td>e.</td><td>RPM</td><td>650</td><td>940</td></tr></tbody></table>	S No	Description	Pump	Motor	a.	Model	G35-1-00	Y100L-6-H	b.	Type	Horizontal gear pump	Marine three-phase asynchronous motor	c.	Pressure	0.3 Mpa	NA	d.	Power	NA	1.5 kW	e.	RPM	650	940				
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14.	Eligibilities Reputable local contractor having working experience with PMSA.																												
15.	EDC 30 Days after award of contract																												
16.	Warranty 1 year																												
17.	Acceptance Criteria a. OEM Certified item b. Firm will not be allowed to use ship tools and manpower																												

IT NO: IT/87/03/2025-26

REPAIR/ MAINTENANCE OF DOORS & HATCHES FOR WATER GAS TIGHT INTEGRITY - PMSS REHMAT

S No	Description
1.	Ship's Name PMSS REHMAT
2.	Parent Equipment Water/Gas Tight Integrity

3.	OEM	CHINA									
4.	Origin	CHINA									
5.	Sub Equipment	Door and Hatches									
6.	Assembly components	Door and hatches Locking mechanism, hinges, handles, holding hooks									
7.	Quantity	17 x Doors and 12 x Hatches a. Doors: 03 x on 2 deck, 10 x on 1 deck, 04 x on 01 deck b. Hatches: 03 x on 2 Deck, 08 x on 1 deck:01 x on 02 deck									
8.	Source of availability	Local Market and Firm									
9.	Justification of work	During chalk test of doors and hatches found deteriorated: Locking mechanism of doors require repair due FWT Hinges and handles found damage Rubber seal thickness/ strengthens found weak Holding hooks of doors and hatches deteriorated coamings									
10.	Work Required	<table border="1"> <thead> <tr> <th>a</th> <th>c</th> <th>d</th> </tr> <tr> <th>Defect/ Routine List</th> <th>Services Required</th> <th>Spares Required</th> </tr> </thead> <tbody> <tr> <td>a. Work requisition ME(H)-98/25 dated 29-12-25 was forwarded to BMG and same was outsourced.</td> <td>a. Removal of complete old rubber and installation of new marine version rubber. b. Removal of locking mechanism and repair/ replacement of new locking mechanism. c. Repair/ overhauling of deteriorated coamings</td> <td>a. 29 x marine version rubber to be replaced b. 15 x locking mechanism to be replaced and 14 x locking mechanism to be repaired. d. 29 x coaming to be checked and repaired if required</td> </tr> </tbody> </table>	a	c	d	Defect/ Routine List	Services Required	Spares Required	a. Work requisition ME(H)-98/25 dated 29-12-25 was forwarded to BMG and same was outsourced.	a. Removal of complete old rubber and installation of new marine version rubber. b. Removal of locking mechanism and repair/ replacement of new locking mechanism. c. Repair/ overhauling of deteriorated coamings	a. 29 x marine version rubber to be replaced b. 15 x locking mechanism to be replaced and 14 x locking mechanism to be repaired. d. 29 x coaming to be checked and repaired if required
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		a	b	c
		Details of Repair work Required	Details of services Required	Details of Spares Required
11.	Details Scope of Work	<p>Detailed work scope is as under:</p> <p>a. Repair/ replace all hinges and handles if required</p> <p>b. Remove rubber seal and replace with new one marine version rubber seal to ensure water tight integrity.</p> <p>c. Inspect coaming and repair accordingly.</p> <p>d. Inspect opening/ closing mechanism of doors/ hatches and repair/ replace if required e. Replace holding hooks of doors and hatches</p> <p>e. Replace/ Use new nuts/bolts.</p> <p>f. Inspect base of doors and repair if required.</p> <p>g. Carry out chalk test of doors and hatches after replacement of rubber seal. Test to be satisfactory</p>	<p>a. Removal of complete old rubber and installation of new marine version rubber.</p> <p>b. Removal of locking mechanism and repair/ preplacement of new locking mechanism.</p> <p>c. Repair/ overhauling of deteriorated coamings</p>	<p>a. 29 x marine version rubber to be replaced</p> <p>b. 15 x locking mechanism to be replaced and 14 x locking mechanism to be repaired.</p> <p>e. 29 x coaming to be checked and repaired if required</p>
12.	Technical Specs	<p>Copper material for locking mechanism Marine version rubber seal for doors and hatches SS Nuts and bolts</p>		
13.	Eligibilities	<p>a. NTN/ GST registered firm b. Firm has experience to repair/maintenance of water/ gas tight doors and hatches c. The firm must visit onboard and carry out diagnosis/ inspections to establish the extent of required work.</p>		
14.	EDC	20 x Working Days after issuance of work/ confirmation order/ starting of work onboard ship		
15.	Warranty	01 x Year after acceptance of repair work		
16.	Acceptance Criteria	Upon successful chalk test of doors and hatches		

IT NO: IT/87/04/2025-26

OVERHAULING OF FUEL TANKS INLET AND OUTLET VV - PMSS KASHMIR

S	Description
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No					
1.	Ship's Name	PMSS KASHMIR			
2.	Parent Equipment	Fuel tanks			
3.	Origin	China			
4.	Sub Equipment	Inlet & outlet W			
5.	Assembly components	Inlet & outlet VV			
6.	Quantity	S No	DESCRIPTION	PART No	QTY
		g.	Fuel tank 1 inlet and outlet valve	A25025 GB/T584- 2008	02
		h.	Fuel tank 2 inlet and outlet valve	A25025 GB/T584- 2008	02
		i.	Fuel tank 3 inlet and outlet valve	A25040 GB/T584- 2008	02
		j.	Fuel tank 4 inlet and outlet valve	A25050 GB/T584- 2008	02
		k.	Fuel tank 5 inlet and outlet valve	A25050 GB/T584- 2008	02
		l.	Fuel tank 6 inlet and outlet valve	A25040 GB/T584- 2008	02
		m.	Fuel tank 7 inlet and outlet valve	A25040 GB/T584- 2008	02
		n.	Fuel tank 8 inlet and outlet valve	A25050 GB/T584- 2008	02
		o.	Fuel tank 9 inlet and outlet valve	A25050 GB/T584- 2008	02
		p.	Fuel tank 10 inlet and outlet valve	A25040 GB/T584- 2008	02
		q.	Fuel tank 11 inlet and outlet valve	A25040 GB/T584- 2008	02
		r.	Fuel tank 12 inlet and outlet valve	A25040 GB/T584- 2008	02
		s.	Fuel tank 13 inlet and outlet valve	A10065GB/T584- 2008	02
7.	Source of availability	Local Market			
8.	Justification of work	FWT			
9.	Work Required	a	b	c	d
		Defect/ Routine List	Repair Work Required	Services Required	Spares Required
		Servicing/ overhauling of 26 x fuel tanks suction and discharge valve required	Servicing/ overhauling required	Yes	As per S No 6
10.	Details Scope of Work	As per para 6			
11.	Technical Specs	As per sample			
12.	Eligibilities	Reputable local/ international contractor registered with FBR and having working experience with PMSA.			
13.	EDC	30 Days after award of contract			
14.	Warranty	01 Year			
15.	Acceptance Criteria	a.	OEM Certified item		
		b.	All BER items to be replaced with new.		
		c.	Firm will not be allowed to use ship tools and manpower		

REPAIR/ MAINTENANCE OF HEAT EXCHANGER OF GRP-336 - EASTERN WING

S No	Description															
1.	Ship's Name	EASTERN WING/ Karachi Base														
2.	Parent Equipment	Main Engine														
3.	OEM	Cummins														
4.	Make/ Model	Cummins														
5.	Origin	USA														
6.	Sub Equipment	Cooling System														
7.	Assembly components	Heat Exchanger														
	Quantity	01														
8.	Justification of work	<u>Performance of heat exchanger degraded due old vintage.</u>														
9.	Work Required	<table border="1"> <thead> <tr> <th>a</th> <th>b</th> <th>c</th> <th>d</th> </tr> </thead> <tbody> <tr> <td>Defect/ Routine List</td> <td>Repair Work Required</td> <td>Services Required</td> <td>Spares Required</td> </tr> <tr> <td>Performance of heat exchanger degraded due old vintage</td> <td>Repair/ maintenance of heat exchanger (stags) required.</td> <td>Repair/ maintenance of heat exchanger (stags) required.</td> <td>As per requirement</td> </tr> </tbody> </table>	a	b	c	d	Defect/ Routine List	Repair Work Required	Services Required	Spares Required	Performance of heat exchanger degraded due old vintage	Repair/ maintenance of heat exchanger (stags) required.	Repair/ maintenance of heat exchanger (stags) required.	As per requirement		
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11.	Technical Specs	As per Technical Manuel.														
12.	Eligibilities	Any well-known national/ international firm having good experience for repair/ maintenance of Cummins Engines and associated accessories														
13.	EDC	15 days														
14.	Warranty	One year after installation and successful trials onboard														
15.	Acceptance Criteria	Physical inspection of all parts by end user after installation onboard and trials upto maximum engine RPMs for satisfactory performance:														
16.	Any other relevant information	a. Installation/ Replacement of Marine Grade spares/ accessories are to be ensured by contracted firm.														
		b. Dismantling and re-installation of in-way accessories is responsibility of the														

		firm.
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		c. Any breakage/ material failure during dismantling/ installation will be lies with the firm.
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CONDUCT OF PMS ROUTINE (OVERHAULING OF SSDG NO-1 ALTERNATOR) – PMSS BARKAT

S No	Description								
1.	Ship's Name	PMSS BARKAT							
2.	Parent Equipment	SSDG-1							
3.	OEM	CUMMINS							
4.	Make/ Model	6CTA8-3							
5.	Serial No	226-62-97-462							
6.	Origin	USA							
7.	Sub Equipment	Alternator (Siemens 1FC6 284-4s45-Z)							
8.	Quantity	01							
9.	Source of availability	Local Market							
10.	Justification of work	Conduct of PMS Routine is required for safe and smooth operation of alternator. (PMS No: 5-1101-0000) (MOP No: 005) (Description: Overhaul the Alternator)							
11.	Work Required	a		b		c		d	
		Defect/ Routine List		Repair Work Required		Services Required		Spares Required	
		Conduct of PMS Routine is required for safe and smooth operation of alternator		Complete overhauling of alternator including replacement of bearings		As per Serial 14 Column b.		As per Serial 14 Column c.	

12.	Details Scope of Work	<table border="1"> <thead> <tr> <th colspan="2">a</th> <th>b</th> <th>c</th> </tr> <tr> <th colspan="2">Details of Repair work Required</th> <th>Details of services Required</th> <th>Details of Spares Required</th> </tr> </thead> <tbody> <tr> <td>a.</td> <td>Overhauling of the alternator</td> <td>Dismantling of alternator from engine and complete overhauling (new varnish processed through oven) of main stator & rotor and exciter stator & rotor</td> <td>Varnish as required for 01 x alternator and 01 bridge rectifier assembly</td> </tr> <tr> <td>b.</td> <td>Replacement of alternator bearings</td> <td>Removal of existing bearings of alternator and installation of new bearings</td> <td>02 x bearings as per existing type and size</td> </tr> <tr> <td>c.</td> <td>Replacement of anti condensation heater</td> <td>Removal of existing degraded anti condensation heater and installation of new heater</td> <td>01 x anti condensation heater</td> </tr> <tr> <td>d.</td> <td>Renewal of alternator connection box</td> <td>Replacement of CTs, perished control wiring, DC cables of starter motor, connection terminal insulator and nuts & bolts inside connection box</td> <td>03 CTs (current transformer) 12 x brass nuts & bolts of 20mm 10 mtrs cable 30 mm</td> </tr> <tr> <td>e.</td> <td>Replacement of AVR card</td> <td>Removal of existing degraded AVR card and installation of new AVR card</td> <td>01 x AVR card FAST DS35</td> </tr> <tr> <td>f.</td> <td>Replacement of bridge rectifier assembly</td> <td>Removal of existing bridge rectifier assembly, installation of new assembly, and provision of a spare assembly</td> <td>02 x bridge rectifier assemblies</td> </tr> <tr> <td>g.</td> <td>Renewal of alternator body paint</td> <td>Removal of existing degraded paint of alternator and application of new instrument paint</td> <td>Instrument paint as required for 01 x alternator</td> </tr> <tr> <td>h.</td> <td>Replacement of vibration mounts</td> <td>Mounts are to be replaced with new</td> <td>02 x mounts as per existing type and size</td> </tr> <tr> <td>j.</td> <td>Replacement of main breaker</td> <td>Power supply switch for generator is to be replaced with new</td> <td>01 x Type Dw95-400B/332 Marine Air Switch</td> </tr> <tr> <td>k.</td> <td colspan="3">Re-fitting of alternator is to be carried out by using SS nuts & bolts</td> </tr> <tr> <td>l.</td> <td colspan="3">All connections must be tightened properly</td> </tr> <tr> <td>m.</td> <td colspan="3">The firm will be responsible of welding/ cutting and external services if required</td> </tr> <tr> <td>n.</td> <td colspan="3">All spares (must be genuine) tools special equipment /accessories required for said Repair/ Maintenance are to be arranged by the firm</td> </tr> <tr> <td>o.</td> <td colspan="3">The firm will be responsible for all removal, transportation and installation w- during warranty/ grantee periods claims in case of any rework</td> </tr> </tbody> </table>			a		b	c	Details of Repair work Required		Details of services Required	Details of Spares Required	a.	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Replacement of bridge rectifier assembly	Removal of existing bridge rectifier assembly, installation of new assembly, and provision of a spare assembly	02 x bridge rectifier assemblies	g.	Renewal of alternator body paint	Removal of existing degraded paint of alternator and application of new instrument paint	Instrument paint as required for 01 x alternator	h.	Replacement of vibration mounts	Mounts are to be replaced with new	02 x mounts as per existing type and size	j.	Replacement of main breaker	Power supply switch for generator is to be replaced with new	01 x Type Dw95-400B/332 Marine Air Switch	k.	Re-fitting of alternator is to be carried out by using SS nuts & bolts			l.	All connections must be tightened properly			m.	The firm will be responsible of welding/ cutting and external services if required			n.	All spares (must be genuine) tools special equipment /accessories required for said Repair/ Maintenance are to be arranged by the firm			o.	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		b.	Replacement of alternator bearings	Removal of existing bearings of alternator and installation of new bearings	02 x bearings as per existing type and size																																																															
		c.	Replacement of anti condensation heater	Removal of existing degraded anti condensation heater and installation of new heater	01 x anti condensation heater																																																															
		d.	Renewal of alternator connection box	Replacement of CTs, perished control wiring, DC cables of starter motor, connection terminal insulator and nuts & bolts inside connection box	03 CTs (current transformer) 12 x brass nuts & bolts of 20mm 10 mtrs cable 30 mm																																																															
		e.	Replacement of AVR card	Removal of existing degraded AVR card and installation of new AVR card	01 x AVR card FAST DS35																																																															
		f.	Replacement of bridge rectifier assembly	Removal of existing bridge rectifier assembly, installation of new assembly, and provision of a spare assembly	02 x bridge rectifier assemblies																																																															
		g.	Renewal of alternator body paint	Removal of existing degraded paint of alternator and application of new instrument paint	Instrument paint as required for 01 x alternator																																																															
		h.	Replacement of vibration mounts	Mounts are to be replaced with new	02 x mounts as per existing type and size																																																															
		j.	Replacement of main breaker	Power supply switch for generator is to be replaced with new	01 x Type Dw95-400B/332 Marine Air Switch																																																															
		k.	Re-fitting of alternator is to be carried out by using SS nuts & bolts																																																																	
		l.	All connections must be tightened properly																																																																	
m.	The firm will be responsible of welding/ cutting and external services if required																																																																			
n.	All spares (must be genuine) tools special equipment /accessories required for said Repair/ Maintenance are to be arranged by the firm																																																																			
o.	The firm will be responsible for all removal, transportation and installation w- during warranty/ grantee periods claims in case of any rework																																																																			
13.	Technical Specs	400V-AC, 3 Phase, 50 Hz																																																																		
14.	Eligibilities	<p>a. The firm must visit onboard and carry out diagnoses/ inspections to establish the extent of required work.</p> <p>b. The firm must have sufficient experience of same kind of work and experienced.</p> <p>c. The firm should be NTN /GST registered.</p>																																																																		

15.	EDC	14 x days after issuance of work/ confirmation order
16.	Warranty	01 Year
17.	Acceptance Criteria	a. Successful completion and acceptance by the end user, b. Satisfactory HATS/SAT
18.	Any other relevant information	Quality material is to be used

REPAIR/ REPLACEMENT OF MAIN SWITCHBOARD - PMSS BARKAT

S No	Description				
1.	Ship's Name	PMSS BARKAT			
2.	Parent Equipment	Power Generation and Distribution (PGD)			
3.	OEM	Huangpu Shipyard Guangzhou China			
4.	Origin	China			
5.	Sub Equipment	Main Switchboard			
6.	Assembly components	As per Serial 07			
7.	Quantity	S No	Description	Qty	
		a.	Power Supply Switch for Generator Type Dw95- 400B/332 Marine Air Switch (Gensets Main Breaker)	03	
		b.	AC Ampere Meters Type 45 D1-A (0-300A)	04	
		c.	AC Voltage Meters Type 45 D1-V(0-450V)	04	
		d.	Hertz Meters Type 45 D1-Hz (45-55Hz)	04	
		e.	Active Power Meters Type 45 D1-W (0-200KW)	03	
		f.	Rheostat for Voltage Regulation	03	
		g.	Megger Type 15 C1-M (for Earthing Insulation)	01	
		h.	Reverse Power Relay Type GG-21	03	
		j.	Feeder Breakers	36	
		k.	Current Transformers (CT)	15	
		l.	Ampere Selector Switches	04	
		m.	Voltage Selector Switches	04	
		n.	Bush Buttons	10	
p.	LED Indication Lamps	15			
q.	Magnetic Contactors	08			
8.	Source of availability	Local Market			
9.	Justification of work	The present condition of Main Switchboard degraded over the period of time, malfunctioning of breakers and erratic reading observed in panel meters			
10.	Work Required	a	b	c	d
		Defect/ Routine List	Repair Work Required	Services Required	Spares Required
		Malfunctioning of breakers and components and error in meter readings	Servicing of breakers and replacement of degraded/ defective components	As per Serial 7 Column b.	As per Serial 7

11.

**Details
Scope of
Work**

a		b	c
Details of Repair work Required		Details of services Required	Details of Spares Required
i.	Malfunctioning of main Gensets breakers	Removal of breakers, dismantling, servicing, replacement of degraded/ defective components and re-installation of breakers	02 under voltage relays (UVR) with supply card and as required while inspecting and servicing the breakers
j.	Replacement of AC ampere meters	Removal of existing degraded ampere meters and installation of new ampere meters	04 x Ac ampere meters Type 45 D1-A (0-300A)
k.	Replacement of voltage meters	Removal of existing degraded voltage meters and installation of new voltage meters	04 x Voltage Meters Type 45 D1-V (0-450V)
l.	Replacement of Hertz meters	Removal of existing degraded Hertz meters and installation of new Hertz meters	04 x Hertz Meters Type 45 D1-Hz (45-55Hz)
m.	Replacement of Active Power Meters	Removal of existing degraded Active Power Meters meters and installation of new Active Power Meters meters	03 x Active Power Meter. Type 45 D1-W (0-200KW)
n.	Replacement of rheostat for voltage regulation of generators	Removal of existing defective rheostat, installation of new rheostat and rigging of cable from main switchboard to generator's AVR	03 x Rheostat (5 kilo ohm)
o.	Servicing of Megger for Earthing Insulation	Servicing of megger and associated equipment/ components	As required while servicing ;
p.	Servicing/ replacement of reverse power relays	Inspection & servicing of reverse power relays or replacement if defective	Reverse Power Relay Type GG-21
p.	Servicing/ replacement of Feeder breakers	Servicing of 30 x three phase power feeder breakers, testing for thermal trips, repairs as required and replacement of 06 x defective breakers	06 x three pole Feeder Breakers 50 amps (preferably TARASAKI)
q.	Calibration of meters	Calibration of all meters installed on Main Switchboard and provision of calibration certificate	Calibration stickers for 16 x meters
r.	Replacement of CTs (Current Transformers)	Removal of all CTs, inspection & servicing of CTs, replacement of degraded/ defective CTs and re- installation of CTs.	As required (only defectives)
s.	Servicing of Amps & Voltage Selector Switches	Servicing of 06 x selectors switches and connecting with ampere & volt meters	As required (only defectives)
t.	Servicing of magnetic contactors	Servicing & cleaning/ polishing of contacts with fine emery paper of magnetic contactors fitted	Parts/ components as required while testing

		for shore supply inside Main Switchboard	
	p.	Replacement of push buttons and indication lamps	Inspection and testing of all push buttons and indication lamps and replacement of defective ones with new
	q.	Servicing of bus bars	Removal of all cable lugs/ bolt eyes, cleaning with emery paper/ contact cleaner& cloth, replacement of perished wires/ damaged lugs, refitting and application of petroleum jelly
	r.	Internal paint work of Main Switchboard	Internal cleaning of complete Main Switchboard with air blower/ vacuum cleaner and application of paint inside main switch board as per paint scheme
	s.	Standardized marine version wire is to be used while replacing perished wiring inside Main Switchboard and should be properly secured	
	t.	All connections must be tightened properly	
	u.	The firm will be responsible of welding/ cutting if required	
	v.	Requirement of external services, if required will be responsibility of firm	
	w.	All spares (must be genuine) tools special equipment /accessories required for said Repair/ Maintenance are to be arranged by the firm	
	x.	Any damage/ defect/ wear tear occurred during course of removal; repair and installation of system/ equipment will be met by firm	
	y.	The firm will be responsible for all removal, transportation and installation work during warranty/ grantee periods claims in case of any rework	
	z.	No growth work will be processed	
12.	Technical Specs	400V AC & 220 V AC, 50 Hz, 3 phase	
13.	Eligibilities	a. The firm must visit onboard and carry out diagnoses/inspections i to establish the extent of required work. b. The firm must have sufficient experience of same kind of work and experienced. The firm should be NTN /GST registered	
14.	EDC	04 x Weeks after issuance of work/confirmation order.	
15.	Warranty	02 Year	
16.	Acceptance Criteria	a. Satisfactory work done by the firm. b. Successful completion and acceptance by the end user. c. Satisfactory trials.	
17.	Any other relevant information	Quality material is to be used.	

PROCUREMENT INSTALLATION OF MAIN CONTROL PCB OF MF HF JSS-2150 150W TRANSCEIVER - PMSS KASHMIR

S No	Description														
1.	Ship's Name	PMSS KASHMIR													
2.	Parent Equipment	MF/HF JSS-2150 150W Transceiver													
3.	OEM	JRC (Japan Radio Company)													
4.	Make/ Model	JSS-2150													
5.	Origin	Japan													
6.	Sub Equipment	Main Control PCB													
7.	Part No of assembly components	NTD-2150													
8.	Quantity	01													
9.	OEM Details	<p><u>Address</u> Marine Service Department</p> <p><u>Contact Phone</u> +81-3-3492-1305</p> <p><u>Contact Email</u> tmisc@jrc.co.jp</p>													
10.	Source of availability	OEM/ Through Local contractor.													
11.	Justification of work	Procurement/ Installation of Main Control PCB of MF/HF JSS-2150 150W Transceiver is required to rectify this defect													
12.	Work Required	<table border="1"> <thead> <tr> <th>a</th> <th>b</th> <th>c</th> <th>d</th> </tr> <tr> <th>Defect/ Routine List</th> <th>Repair Work Required</th> <th>Services Required</th> <th>Spares Required</th> </tr> </thead> <tbody> <tr> <td>N/A</td> <td>Procurement/ Installation of Main Control PCB of MF/HF JSS-2150 150W Transceiver is required</td> <td></td> <td>Procurement/ installation of Main Control PCB of MF/HF JSS-2150 150W Transceiver is required</td> </tr> </tbody> </table>		a	b	c	d	Defect/ Routine List	Repair Work Required	Services Required	Spares Required	N/A	Procurement/ Installation of Main Control PCB of MF/HF JSS-2150 150W Transceiver is required		Procurement/ installation of Main Control PCB of MF/HF JSS-2150 150W Transceiver is required
a	b	c	d												
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14.	Technical Specs	<table> <tr> <td>a. Power Amplifier:</td> <td>Two parallel 75 W L band MOSFITs</td> </tr> <tr> <td>b. Driver & basic circuitry:</td> <td>ALC(Automatic Level Control)</td> </tr> <tr> <td>c. Control & DSP:</td> <td>A 32 Bit ARM chip that mounted on 4-layer sub-board</td> </tr> <tr> <td>d. Frequency:</td> <td>10 MHz with 0.5 ppm stability</td> </tr> <tr> <td>e. Power Supply Section:</td> <td>3.3 V, 5 V, 12 V and 48 V</td> </tr> </table>		a. Power Amplifier:	Two parallel 75 W L band MOSFITs	b. Driver & basic circuitry:	ALC(Automatic Level Control)	c. Control & DSP:	A 32 Bit ARM chip that mounted on 4-layer sub-board	d. Frequency:	10 MHz with 0.5 ppm stability	e. Power Supply Section:	3.3 V, 5 V, 12 V and 48 V		
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e. Power Supply Section:	3.3 V, 5 V, 12 V and 48 V														
15.	Eligibilities	Reputable Local Contractor													
16.	EDC	15 Days													
17.	Warranty	1 Year from date of delivery.													
18.	Acceptance Criteria	End user satisfaction after successful trials. Firm registered with FBR													

REPAIR/ MAINTENANCE OF 02 X TURBO CHARGERS OF FRB-156 - EASTERN WING

S No	Description				
1.	Ship's Name	FRB-156			
2.	Parent Equipment	C-9 Caterpillar Main Engines			
3.	OEM	Caterpillar, USA			
4.	Make/ Model	Caterpillar C-9			
5.	Serial No	Port (X9Y00439) Stbd (X9Y00430)			
6.	Origin	USA			
7.	Sub Equipment	Air Intake System			
8.	Assembly components	02 X Turbo Chargers			
9.	Part No of assembly components	(Part Number 262-7609 GP Part of 267-8925 GP)			
10.	Quantity	02			
11.	Details of Spares Required	S No	Part No	Description	Qty
		a.	7W- 7778	CLAMP AS	01
		b.	7M-9916	LOCKNUT	01
		c.	127-0839	CLAMP AS (TURBINE)	01
		d.	271-9416	CARTRIDGE GP-TURBO CHARGER	01
		e.	3S-8313	PLUG CUP	02
		f.	4K- 0149	PLUG CUP	01
		g.	6V- 1902	SEAL ORING	01
		h.	242-3360	HOSE	01
		j.	7M-7273	GASKET	01
12.	Justification of work	Performance of 02 x Turbo Chargers degraded due continuous operation			
13.	Work Required	a	b	c	d
		Defect/ Routine List	Repair Work Required	Services Required	Spares Required
		<ul style="list-style-type: none"> Main Engine speed trimming observed ERPMs not exceeding beyond 1000 RPMs Heavy Smoke observed Oil leakage/ traces observed on compressor, turbine and inlet side of aftercooler 	Repair/ maintenance of Turbo Chargers required	<ul style="list-style-type: none"> Cleaning and inspection of housing. Replacement of service kit including degraded/ defective parts i.e bush, seals, bearing, compressor, turbine shaft. Alignment/ machining of turbine shaft. 	As per requirement

		Defect Analyzed	a	b	c
			Details of Repair work Required	Details of services Required	Details of Spares Required
14.	Details Scope of Work	<ul style="list-style-type: none"> • Main Engine speed trimming observed ERPMS not exceeding beyond 1000 RPMs • Heavy Smoke observed • Turbo Chargers have been dismantled and oil leakage/ traces observed on compressor, turbine and inlet side of aftercooler due suspected shaft seal of turbo charger leaky 	Repair/ maintenance of 02 x turbo chargers including following works. <ul style="list-style-type: none"> • Cleaning and inspection of housing. • Replacement of service kit including degraded/ defective parts i.e bush, seals, bearing, compressor, turbine shaft. • Alignment/ machining of turbine shaft. 	<ul style="list-style-type: none"> • Cleaning and inspection of housing. • Replacement of service kit including degraded/ defective parts i.e bush, seals, bearing, compressor, turbine shaft. • Alignment/ machining of turbine shaft. 	As per S No 11
15.	Eligibilities	Any well-known national/ international firm having good experience for repair/ maintenance of Caterpillar Engines and accessories			
16.	EDC	15 days			
17.	Warranty	One year after installation onboard			
18.	Acceptance Criteria	Physical inspection of under mentioned parts by end user after installation onboard and trials upto maximum engine RPMs for satisfactory performance: <ul style="list-style-type: none"> • Compressor and compressor housing • Turbine wheel and turbine housing • Presence of Engine Oil traces on shaft, turbine or inlet side of after cooler 			
19.	Any other relevant information	a. Installation/ Replacement of Marine Grade spares/ accessories are to be ensured by contracted firm. b. Dismantling and re-installation of in-way accessories is responsibility of the firm. c. Any breakage/ material failure during dismantling/ installation will be lies with the firm.			

PROCUREMENT OF BACKUP BATTERIES OF MAIN & AUXILLARY MACHINERY - PMSS KASHMIR

S No	Description			
1.	Ship's Name	PMSS KASHMIR		
2.	Parent Equipment	Main & Auxiliary Machinery		
3.	Make/ Model	DAEWOO/ OSAKA		
4.	Sub Equipment	Backup System		
5.	Assembly components	Batteries		
6.	Part No of assembly components	S No	Part No & Model	Description
		a.	LP12-200 LEOCH OR WPL 200-12N LONG OR SKU-AR-002401 DJDC Dongjin OR Any other (Excide/Daewoo/ Osaka)	Battery 12V 200 AH (Maintenance Free Lithium)
7.	Quantity			14
8.	Source of availability	Local Market		
9.	Justification of work	Old batteries declared BER		
10.	Work Required	a	b	c
		Defect/ Routine List	Repair Work required	Services Required
		Batteries declared BER	Nil	Procurement of batteries required
				d Spares Required Yes (as per S No 6 & 7)
11.	Details Scope of Work	Procurement of batteries required		
12.	Technical Specs	As per sample		
13.	Eligibilities	Reputable local/ international contractor registered with FBR and having working experience with PMSA.		
14.	EDC	30 Days after award of contract		
15.	Warranty	01 Year		
16.	Acceptance Criteria	a. OEM Certified items b. All BER items to be replaced with new c. Firm will not be allowed to use ship tools and manpower		

OVERHAULING/ INSPECTION/ CLEANING OF STARTER OF MAIN ENGINE FUEL PUMPS, LUBRICATING PUMPS, WINDLESS MOTOR & 2 TON CRANE STARTER MOTORS - PMSS KASHMIR

S No	Description				
1.	Ship's Name	PMSS KASHMIR			
2.	Parent Equipment	MAIN DIESEL ENGINES, 2 TON CRANE			
3.	OEM	a. WOODWARD b. HEBEI HENGSHENG PUMPS CO., LTD c. SOUTH CHINA MARINE MACHINERY CO., LTD d. SHANGHAI MARINE EQUIPMENT RESEARCH INSTITUTE			
4.	Make/ Model	a. FCWAB240A0894 b. Y132M2-6-H (Pump Y10-01) c. YZ-132-M1-4-H d. YQS900-2L5 hydraulic crane			
5.	Origin	China			
6.	Sub Equipment	a. Engine Fuel Pumps starters b. Engine Pre Lubricating Pumps starters. c. RAS (G) windless motor and starter d. 2 Ton Crane Starter Motor and limit switches			
7.	Assembly components	a. Engine Fuel Pumps starters b. Engine Pre Lubricating Pumps starters. c. RAS (G) windless motor and starter d. 2 Ton Crane Starter Motor and limit switches			
8.	Part No of assembly components	S No	NSN/Part No	Description	Qty
		a.	80-358-01932-000	Engine Fuel Pumps starters	2
		b.	Y10-01	Engine Pre Lubricating Pumps starters	2
		c.	2040PV5030026/ 285Q45-134-00-16	Limit Switch RAS(G) Motor	4
		d.	6105PV1000044/ 285Q45-132-02-0	RAS (G) windless motor and starter	2
		e.	6105PV1000013/ OMS80-151F0507	2 Ton Crane Starter Motor	1
		f.	GB14048.5-2006	Crane limit switches	1
		g.	6125PV1010314	Power Switch	1
9.	Quantity	As per S No 8			
10.	Source of availability	OEM, Local Market			
11.	Justification of work	Overhauling of above mentioned items is required for SAT OPS			
12.	Work Required	a	b	c	d
		Defect/ Routine List	Repair Work required	Services Required	Spares Required
		Performance of installed starters of ME fuel pumps, ME pre lubricating pumps, Ras(G) windless motor and 2 Ton Crane starter motors has significantly been degraded.	ME fuel pumps, ME pre lubricating pumps, Ras(G) windless motor and 2 Ton Crane starter motors inspection/ cleaning and overhaul required. 2 TON crane limit switches inspection & cleaning required	Inspection/ cleaning and replacement of defective parts required.	As per S No 7 & 8

		a	b	c
		Details of Repair work Required	Details of services Required	Details of Spares Required
13.	Details Scope of Work	ME fuel pumps, ME pre lubricating pumps, Ras(G) windless motor and 2 Ton Crane starter motors inspection/ cleaning and overhaul required. 2 TON crane limit switches inspection & cleaning required	Inspection/ cleaning and replacement of defective parts required.	As per S No 7 & 8
14.	Technical Specs	As per sample		
15.	Eligibilities	Reputable local/ international contractor registered with FBR and having working experience with PMSA.		
16.	EDC	30 Days after award of contract		
17.	Warranty	01 Year		
18.	Acceptance Criteria	a. OEM Certified items. b. Defective/BER item's must-be replaced with new one c. Firm will not be allowed to use ship tools and manpower		
19.	Any other relevant information	Contractor/ Rep of firm should visit ship though P&CC Dte to inspect exact scope of work		

PROCUREMENT/ REFURBISHMENT OF CHAIRS - PMSS DASHT

S No	Description				
1.	Ship's Name	PMSS DASHT			
2.	Parent Equipment	Chairs			
3.	Origin	Pakistan			
4.	Sub Equipment	Chairs			
5.	Quantity	66 In No			
6.	Source of availability	Local Contractor			
7.	Justification of work	66 x chairs have been deteriorated due to fair, wear and tear with the passage of time			
8.	Work Required	a	b	c	d
		Defect/ Routine List	Repair Work Required	Services Required	Spares Required
		Procurement of new chairs	Procurement of new chairs	Procurement of new chairs	Procurement of new chairs
9.	Details Scope of Work	a	b	c	
		Details of Repair work Required	Details of services Required	Details of Spares Required	
		a. The chairs should be brand new, of good quality and durable make, suitable for prolonged office use.	b. The material finish should ensure comfort, reliability and and presentable appearance		
10.	Eligibilities	Reputable Local Contractor Having Working Experience in PMSA			
11.	EDC	ASAP			
12.	Warranty	a. 1 x Years warranty after satisfactory trials/test b. Material will be reported if deformity or wears is developer during warranty period			
13.	Acceptance Criteria	As per IT Specification			

PROCUREMENT OF 02 X 3KVA UPS FOR BACKUP SUPPLY OF RADARS - PMSS DASHT

S No	Description								
1.	Ship's Name	PMSS DASHT							
2.	Parent Equipment	APC Smart-UPS C 3000VA LCD 230v or APC UPS 3KVA RTD 3000XLIM(NSN # 5905725277359) UPS 3KVA (NSN # 6130735313444)							
3.	OEM	Schneider Electric Co, LTD							
4.	Make/ Model	02 X SMC30001							
5.	Origin	CHINA,AMERICA							
6.	Sub Equipment	a. APC Smart-UPS C 3000VA LCD 230V b. 02x Lead acid batteries 16 X power cards							
7.	Quantity	02 In No. 3 KVA UPS							
8.	Source of availability	Local market/ Firm							
9.	Justification of work	02 x 3KVA UPS with ad accessories are required for back up supply of Marine equipment.							
10.	Work Required	a		b		c		d	
		Defect/ Routine List		Repair Work Required		Services Required		Spares Required	
		02 x 3 KVA UPS are found degraded				02 x 3KVA UPS along with accessories		12 x Power cards 02 x Lead acid batteries	
11.	Details Scope of Work	a			b			c	
		Details of Repair work Required			Details of services Required			Details of Spares Required	
		Replacement of 02 x 3KVA UPS with all accessories.			Replacement of 02 x 3KVA UPS with ail accessories for the smooth operation of electric sensitive equipment.			N/A	
12.	Technical Specs	N/A							
13.	Eligibilities	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 work 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. HQ PMSA/ Ship will not accept growth work changes on later stages at all							
14.	EDC	01 x Month							
15.	Warranty	02 x Year warranty							
16.	Acceptance Criteria	a. OEM certified item b. Technical specification to be provided c. Upon scrutiny of items and provided documents i.e technical specification along with production certificates by OEM d. Items will be accepted after satisfactorily test and trials onboard. e. OEM technical documents and warranty certificates of items required. f. Items must be genuine and OEM packed. Aftermarket products and item will not be accepted g. Satisfactorily trails onboard ship							
17.	Any other relevant information	Firm must visit onboard for clarification of any query and better understanding of requirement							

RENOVATION OF WARDROOM - PMSS DASHT

S No	Description								
1.	Ship's Name	PMSS DASHT							
2.	Parent Equipment	A durable, Synthetic (PVC-based) floor covering the mimics natural materials like wood or stone, of various cabins							
3.	Origin	CHINA / MALAYSIA							
4.	Assembly components	a. Replacement of sofa covers of Wardroom and Officer's cabins b. Application of wallpaper. c. Media wall setup with wooden rack. d. Replacement of Center Table. e. Replacement of Dining Table. f. Vinyl flooring (Area 306 Sq ft),							
5.	Quantity	Vinyl Tiles for 306 sq ft							
6.	Source of availability	Local Market/ Firm							
7.	Justification of work	Wardroom Renovation							
8.	Work Required	a		b		c		d	
		Defect/ Routine List		Repair Work Required		Services Required		Spares Required	
		Sacorting Flooring		Sacorting Vinyl		Supply of vinyl tiles of wardroom Area 306 sq ft		Sacorting vinyl tiles, German synthetic gum is required	
9.	Details Scope of Work	a		b		c			
		Details of Repair work Required		Details of services Required		Details of Spares Required			
		Sacorting Vinyl		Supply of vinyl tiles of wardroom Area 306 sq ft		Sacorting vinyl tiles, German synthetic gum is required			
10.	EDC	20 x Days							
11.	Warranty	01 x Year warranty for all mentioned works.							
12.	Acceptance Criteria	a. Upon acceptance of end user.							
		b. Material deformity occurred during work is responsibility of contractor							
13.	Any other relevant information	Firm must visit onboard for clarification of any query and better understanding of requirement							

REPAIR REPLACEMENT OF JHS-770 VHF COMMUNICATION SETS - PMSS BASOL

S No	Description										
1.	Ship's Name	PMSS BASOL									
2.	Parent Equipment	JHS-770 VHF									
3.	OEM	JRC									
4.	Make/ Model	JHS-770S/ 780D									
5.	Origin	Japan									
6.	Sub Equipment	VHF Transceiver									
7.	Part No of assembly components	<table border="1"> <thead> <tr> <th>Part Number</th> <th>Description</th> <th>Req Qty</th> </tr> </thead> <tbody> <tr> <td>NTE-770S/780D</td> <td>NTE-770S/780D</td> <td>02</td> </tr> </tbody> </table>	Part Number	Description	Req Qty	NTE-770S/780D	NTE-770S/780D	02			
Part Number	Description	Req Qty									
NTE-770S/780D	NTE-770S/780D	02									
8.	Quantity	As per Serial No 9									
9.	OEM Details	Address 1-7-32Tatsumi, Koto-ku, Tokyo, 135-0053, Japan Contact +81 3 6832 1807 Email tmsc@jrc.co.jp									
10.	Justification of work	Defect rectification of JHS-770S/780D									
11.	Work Required	Repair/ replacement of JHS-770S/780D									
12.	Details Scope of Work	<table border="1"> <thead> <tr> <th>a</th> <th>b</th> <th>c</th> </tr> <tr> <th>Repair Work Required</th> <th>Services Required</th> <th>Spares Required</th> </tr> </thead> <tbody> <tr> <td>Repair/ replacement of JHS-770S/780D</td> <td> a. All spares, tools and test equipment are to be arranged by the contractor. b. Satisfactory onboard trial/ set to work. </td> <td>As per Serial No 7</td> </tr> </tbody> </table>	a	b	c	Repair Work Required	Services Required	Spares Required	Repair/ replacement of JHS-770S/780D	a. All spares, tools and test equipment are to be arranged by the contractor. b. Satisfactory onboard trial/ set to work.	As per Serial No 7
a	b	c									
Repair Work Required	Services Required	Spares Required									
Repair/ replacement of JHS-770S/780D	a. All spares, tools and test equipment are to be arranged by the contractor. b. Satisfactory onboard trial/ set to work.	As per Serial No 7									
13.	Technical Specs	As per Serial No 7									
14.	Eligibilities	Certified local contractor having working experience onboard 6HT MPVs.									
15.	EDC	ASAP									
16.	Warranty	1 Year									
17.	Acceptance Criteria	a. OEM Certified items. b. Items will be accepted after physical inspection by SS. c. Upon scrutiny of item and provided documents i.e. technical specifications by OEM.									
18.	Any other relevant information	SS may be contacted for any further query/ requirement.									

**PROCUREMENT AND APPLICATION OF ANTISKID PAINT ON CANNON DECK & BRIDGE TOP - PMSS
DASHT**

S No	Description								
1.	Ship's Name	PMSS DASHT							
2.	Parent Equipment	Anti-Skid Paint On Canon Deck & Bridge Top							
3.	Make/ Model	CSTS							
4.	Origin	Local							
5.	Sub Equipment	Anti-Skid Paint On Canon Deck & Bridge Top							
6.	Assembly components	Anti-Skid Paint On Canon Deck & Bridge Top							
7.	Quantity	402 Sq Meter							
8.	Source of availability	Through Local/ International registered firm with good reputation.							
9.	Justification of work	Anti-skid paint on Canon Deck and Bridge Wings observed degraded.							
10.	Work Required	a		b		c		d	
		Defect/ Routine List		Repair Work Required		Services Required		Spares Required	
		Deteriorated condition due FWT	Application of Antiskid Paint on Canon Deck & Bridge Top	Application of Antiskid Paint on Canon Deck & Bridge Top	Application of Antiskid Paint on Canon Deck & Bridge Top	Application of Antiskid Paint on Canon Deck & Bridge Top			
11.	Details Scope of Work	a. Removal of previously applied paint by shipping/ scrapping. b. Grit blasting using mixture of copper slag and silica. 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 anti-skid grain. h. Application of dark grey epoxy top coat (02 coats).							
12.	Technical Specs	As per OEM Manual/ Specs							
13.	Eligibilities	a. Reputable local contractor having experience of provision/ application of anti-skid paint. b. Firm must visit site for understanding exact nature of work.							
14.	EDC	02 x Weeks							
15.	Warranty	Two year after satisfactory Application of Anti Skid Paint.							
16.	Acceptance Criteria	a. Visual inspection along with provision of documentation/ certificates. b. Shelf life of 01 year							
17.	Any other relevant information	a. Damage/ defect to item during work will be responsibility of contractor. Contractor must visit site before quoting to fully understood scope of work.							

IT NO: IT/87/17/2025-26

COMMERCIAL REPAIR CASE OF VEHICLE NO 090302 MS TOYOTA DOUBLE CABIN - D(MT)

S No	Description	
1.	Ship Name	PMSS INDUS/TPT
2.	Parent Equipment	TOYOTA DOUBLE CABIN
3.	OEM	TOYOTA
4.	Model	2009
5.	Origin	JAPAN
6.	Sub Equipment	DOUBLE CABIN
7.	OEM Detail	JAPAN
8.	Justification for work	Commercial repair of TOYOTA DOUBLE CABIN
9.	Work Required	Commercial repair of TOYOTA DOUBLE CABIN
10.	Detail scope of Work	Complete Cabin replacement
11.	Eligibilities	a. The firm should be FBR/SBR registered. b. The firm should be registered with HQ PMSA/ Navy/ DP Navy.
12.	EDC	30 Days after Issuance of Work order
13.	Warranty	01 Year after delivery/work.
14.	Acceptance Criteria	Accepted by MTO PMSS INDUS & D (MT)

IT NO: IT/87/18/2025-26

CONDUCT OF PMS ROUTINE OF FUEL TRANSFER PUMP & DAILY FUEL PUMPS - PMSS KASHMIR

S No	Description	
1.	Ship's Name	PMSS KASHMIR
2.	Parent Equipment	a. FUEL-OIL TRANSFER PUMP b. KCB83.3 OIL PUMP
3.	OEM	HEBEI HENGSHENG PUMPS CO., LTD.
4.	Make/ Model	a. K300-01 b. K83.3-01
5.	Origin	China
6.	Sub Equipment	FUEL-OIL TRANSFER PUMP KCB83.3 OIL PUMP
7.	Assembly components	Top left-hand gear Right-hand gear Lower left-hand gear Mechanical Seal Bearing Safety Valve Spring Elastic Block Cleaning Cloth 2# Kerosene 90# Industrial Gear Oil Driving Gear Shaft Driven Gear Shaft Mechanical Seal Bearing Safety Valve Spring Elastic Block Cleaning Cloth 2#Kerosene 90#Industrial Gear Oil Hairbrush QB/T Graphite Paper 3#Lubricating Grease

8.	Part No of assembly components	S No	NSN/Part No	Description	Qty														
		h.	K300-01-15	Top left-hand gear	1														
		i.	K300-01-12	Right-hand gear	2														
		j.	K300-01-14	Lower left-hand gear	1														
		k.	58U-35	Mechanical Seal	1														
		l.	GB/T276-19946307	Bearing	4														
		m.	K300-01-03	Safety Valve Spring	1														
		n.	BI 104-66-20	Elastic Block	1														
		o.	QXB-400x400	Cleaning Cloth	5														
		j.	GB 253-1989 2	2# Kerosene	24L														
		k.	SY 1172-1980 90	90# Industrial Gear Oil	4L														
		l.	QB/T 1103- 2001 (30mm)	Hairbrush	1														
		m.	GB 491-1987 3	Lubricating Grease	2L														
		n.	K83.3-01-02J	Driving Gear Shaft	4														
		p.	K83.3-01-01	Driven Gear Shaft	4														
		q.	58U-22	Mechanical Seal	16														
		r.	K55-01-03	Bearing	16														
		s.	K83.3-01-14	Safety Valve Spring	4														
		t.	B1104-66-00	Elastic Block	4														
		u.	QXB-400x400	Cleaning Cloth	20														
		v.	GB 253-1989 2	2#Kerosene	24L														
w.	SY1172-1980	90#Industrial Gear Oil	4L																
x.	QB/T 1103- 2001 (30mm)	Hairbrush QB/T	4																
y.	200x250x0.1	Graphite Paper	16																
z.	GB 491-1987	Lubricating Grease	0.8kg																
9.	Quantity	As per S No 8																	
10.	Source of availability	OEM, Local Market																	
11.	Justification of work	To conduct PMS routine of Fuel Oil Transfer Pump & 4 x Daily Fuel Pumps (PMS No 3-4362-0000, 3-4207-0000)																	
12.	Work Required	<table border="1"> <thead> <tr> <th>a</th> <th>b</th> <th>c</th> <th>d</th> </tr> <tr> <th>Defect/ Routine List</th> <th>Repair Work required</th> <th>Services Required</th> <th>Spares Required</th> </tr> </thead> <tbody> <tr> <td>PM-011</td> <td>Overhauling of pump required as per PMS routine</td> <td rowspan="2">Overhauling of Fuel Oil Transfer Pump & 4 x Daily Fuel Pumps required for SAT OPS</td> <td rowspan="2">As per S No 8 & 9</td> </tr> <tr> <td>PM-011</td> <td>Overhauling of pump required as per PMS routine</td> </tr> </tbody> </table>				a	b	c	d	Defect/ Routine List	Repair Work required	Services Required	Spares Required	PM-011	Overhauling of pump required as per PMS routine	Overhauling of Fuel Oil Transfer Pump & 4 x Daily Fuel Pumps required for SAT OPS	As per S No 8 & 9	PM-011	Overhauling of pump required as per PMS routine
		a	b	c	d														
		Defect/ Routine List	Repair Work required	Services Required	Spares Required														
		PM-011	Overhauling of pump required as per PMS routine	Overhauling of Fuel Oil Transfer Pump & 4 x Daily Fuel Pumps required for SAT OPS	As per S No 8 & 9														
PM-011	Overhauling of pump required as per PMS routine																		
13.	Details Scope of Work	<table border="1"> <thead> <tr> <th>a</th> <th>b</th> <th>c</th> </tr> <tr> <th>Details of Repair work Required</th> <th>Details of services Required</th> <th>Details of Spares Required</th> </tr> </thead> <tbody> <tr> <td>Overhauling of Fuel Oil Transfer Pump & 4 x Daily Fuel Pumps required for SAT OPS. Defective/ degraded parts must be replaced with new.</td> <td>(e) Overhauling of Fuel Oil Transfer Pump & 4 x Daily Fuel Pumps required for SAT OPS. Defective/ degraded parts must be replaced with new.</td> <td>As per S No 8 & 9</td> </tr> </tbody> </table>				a	b	c	Details of Repair work Required	Details of services Required	Details of Spares Required	Overhauling of Fuel Oil Transfer Pump & 4 x Daily Fuel Pumps required for SAT OPS. Defective/ degraded parts must be replaced with new.	(e) Overhauling of Fuel Oil Transfer Pump & 4 x Daily Fuel Pumps required for SAT OPS. Defective/ degraded parts must be replaced with new.	As per S No 8 & 9					
		a	b	c															
		Details of Repair work Required	Details of services Required	Details of Spares Required															
Overhauling of Fuel Oil Transfer Pump & 4 x Daily Fuel Pumps required for SAT OPS. Defective/ degraded parts must be replaced with new.	(e) Overhauling of Fuel Oil Transfer Pump & 4 x Daily Fuel Pumps required for SAT OPS. Defective/ degraded parts must be replaced with new.	As per S No 8 & 9																	
14.	Technical Specs	<table border="1"> <thead> <tr> <th>S No</th> <th>Description</th> <th>Working</th> <th>Capacity</th> <th>Power</th> <th>Speed</th> </tr> </thead> <tbody> <tr> <td>a.</td> <td>Daily Fuel Pump</td> <td>0.33</td> <td>5</td> <td></td> <td></td> </tr> </tbody> </table>				S No	Description	Working	Capacity	Power	Speed	a.	Daily Fuel Pump	0.33	5				
		S No	Description	Working	Capacity	Power	Speed												
a.	Daily Fuel Pump	0.33	5																
15.	Eligibilities	Reputable local / international contractor registered with FBR and having working experience with PMSA.																	
16.	EDC	30 days after award of contract																	
17.	Warranty	01 Year																	
18.	Acceptance Criteria	e. OEM certified item.																	
		f. Upon scrutiny of items and provided documents along with production																	

	certificate by OEM. g. Defective/ BER items must be replaced with new. h. Firm will not be allowed to use ships tools and manpower
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IT NO: IT/87/19/2025-26

REQUIREMENT OF CALIBRATION 72 X TEMPERATURE PRESSURE GAUGES & 20 X XDEFECTIVE GAUGES REPLACE WITH NEW - PMSS SABQAT

S No	Description				
1.	Ship's Name	PMSS SABQAT			
2.	Parent Equipment	Pressure and Temperature Gauges			
3.	OEM	USA			
4.	Origin	USA			
5.	Sub Equipment	Pressure and Temperature Gauges			
6.	Assembly components	Pressure and Temperature Gauges			
7.	Quantity	72 in No			
8.	Justification of work	Pressure and Temperature Gauges Calibration required. 20 in no defective gauges replace with new.			
9.	Work Required	a	b	c	d
		Defect/ Routine List	Repair Work required	Services Required	Spares Required
		Pressure/ Temperature Gauges Calibration due. 20 in no gauges found defective.	Pressure/ Temperature Gauges Calibration required 20 in no gauges replace with new.	See S No 10 para b	All material spares, tools, equipment / tools, accessories etc required for said work are to arrange by the contractor
10.	Details Scope of Work	a	b	c	
		Details of Repair work Required	Details of services Required	Details of Spares Required	
		Pressure and temperature gauges to be Calibrated through OEM/ Local Source.	a. Repair/ replacement of defective gauges. b. Removal/ installation and isolation of system whose gauges are being removed for calibration. c. Provision of calibration certificates of every gauge. d. All gauges are to be tested prior removal. All operational gauges/meters are to be returned in operational state. Any gauge/ meter found defective during calibration are to be replaced by contractor. e. Zoning of gauges as per the requirement of SS. f. Contractor is to provide brazing/ repair works of	All material, spares, tools, special equipment / tools, accessories etc required for said work are to arrange by the contractor	

		associated gauges/ meters lines	
		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	
11.	Technical Specs	As per OEM Manual/Specs	
12.	Eligibilities	FBR register supplier.	
13.	EDC	14 working days.	
14.	Warranty	1 year	
15.	Acceptance Criteria	a. Success trials, by. end user.	

LIST OF PRESSURE / TEMPERATURE GAUGES – PMSS SABQAT

S No	Equipment	Location	Gauge Name	Qty for Calibration	Qty for Replacement
1.	Main Diesel Engine	Engine Room	Lub oil Pressure	02	01
2.	-"-	-"-	Lub oil Temperature	02	
3.	-"-	-"-	Exhaust Temperature	02	
4.	-"-	-"-	Jacket Water Temperature	02	01
5.	-"-	-"-	Jacket Water Pressure	02	
6.	-"-	-"-	Manifold Air Temperature	02	
7.	-"-	-"-	Oil Differential Pressure	02	02
8.	-"-	-"-	Transmission Oil Pressure	02	
9.	-"-	-"-	Transmission Oil Temperature	02	
10.	-"-	-"-	Fuel oil Pressure	02	
11.	-"-	-"-	Fuel Filter Differential pressure	02	02
12.	-"-	-"-	Sea water Pressure	02	02
13.	Primary Fuel Filter	-"-	Suction Pressure	03	02
14.	-"-	-"-	Discharge Pressure	02	02
15.	SSDG	-"-	Lub oil Pressure	02	
16.	-"-	-"-	Lub oil Temperature	02	01
17.	-"-	-"-	Fresh Water Temperature	02	
18.	Primary Fuel Filter	-"-	Suction Pressure	03	03
19.	-"-	-"-	Discharge Pressure	02	02
20.	Secondary Fuel Filter	-"-	Suction Pressure	03	
21.	-"-	-"-	Discharge Pressure	02	
22.	Fuel Transfer Pump	-"-	Suction Pressure	01	
23.	-"-	-"-	Discharge Pressure	01	
24.	Fire Main Pump	-"-	Suction Pressure	02	
25.	-"-	-"-	Discharge Pressure	03	

26.	AC Sea Water Pump	-“-	Suction Pressure	02	
27.	-“-	-“-	Discharge Pressure	02	
28.	Hot Water AFT	Aft Heads	Hot Water Temperature	01	01
29.	Fresh Water Pump	Auxiliary Space	Suction Pressure	02	
30.	-“-	-“-	Discharge Pressure	03	
31.	EVAC	„	Discharge Pressure	01	
32.	Steering Motor Pump	ASP	Suction Pressure	02	
33.	-“-	-“-	Discharge Pressure	02	
34.	Steering Hand Pump	-“-	Discharge Pressure	01	
35.	Deck Crane	-“-	Suction Pressure	03	
36.	P-100 Pump	Q/Deck	Discharge Pressure	01	01

IT SPECS FOR FABRICATION ALONGWITH INSTALLATION OF LP AIR LINES - PMSS NUSRAT

IT SPECIFICATION				
Ship's Name	PMSS NUSRAT			
Parent Equipment	LP air lines			
Sub Equipment	LP Air Lines			
Assembly Components	LP Air Lines			
Quantity	04x lines			
Justification of Work	LP Air lines became degraded and leaky due to FWT			
Work Required	a	b	c	d
	Defect List	Repair Work Required	Services required	Spares required
	LP Air lines became degraded and leaky due to FWT	Replacement of LP air lines for sat ops	See details S.No column B	New LP air lines as per requirement
Detail Scope of Work	a	b		c
	Detail of repair work required	Details of services required		Details of spares required
	Replacement of LP air lines for sat ops	a. Following defective lines are to be dismantled: <ul style="list-style-type: none"> i. LP air supply line in FM-200 bottle stowage room for testing (Dia ½” length 10 Meter). ii. LP air lines of FWD and AFT Hydrophore tank (Dia ½”, length 10 ft, each). iii. LP air line of ship's siren (dia ½”, length 40 Meter). b. Above mentioned lines are to be made new. <ul style="list-style-type: none"> c. New lines are to be pressure tested. d. New lines are to be fitted back. e. Special tools and spares are to be arranged by the firm for dismantling and fitting of lines <ul style="list-style-type: none"> f. The firm will be responsible to undertake any work not covered above, to ensure good quality of work g. The firm will be responsible for welding/ cutting, if required h. The firm will be responsible for requirement of external services 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 		New LP air lines as per requirement
Technical Specs	As per scope of work			

Eligibilities	a. The firm should visit onboard and carry out inspection to establish the extent of required work and spares. b. The firm should have good experience of the same kind of work
EDC	02 x week after issuance of work/ confirmation order
Warranty	01 year from the date of acceptance
Acceptance Criteria	a. Satisfactory work done by the firm. b. Practical acceptance by SS.

IT SPECIFICATION FOR REPAIR OF POWER SUPPLY MODULES OF CHARGING & DISCHARGING SYSTEM - PMSS BASOL

S No.	Description			
1.	Ships Name	PMSS BASOL		
2.	Parent Equipment	Radio and 2 GB charging and discharging panel compartment		
3.	OEM	Zhejiang Yonghong Electrical Appliance Co Ltd		
4.	Model	JKC-B-1		
5.	Serial No	19062104-14 and 19062104-15		
6.	Origin	China		
7.	Sub Assembly	Batteries		
8.	Assembly Components	Charging and discharging panel		
9.	Part No of Assembly Components	Part No	Description	Qty
		Nil	<p>a. Repairing of switching power supply modules through trained technicians having experience of PCB repair work</p> <p>b. Functional replacement can be undertaken for non-available/ obsolete component</p> <p>c. Onboard test/ trials to be conducted after repair</p> <p>d. Spare(s)/ components required for repair work will be arranged by contractor</p> <p>e. Contractor may inspect switching power supply/ module through onboard visit.</p> <p>f. Any growth work during repair work will be borne by the contractor Ship will not provide any spare part/ additional amount in case of growth work</p> <p>g. Any damage to the system during onboard testing of switching power supply will be borne</p>	<p>02 x charging discharging module.</p> <p>02 x Switching Power Supply Modules</p>
10.	Quantity	_As mentioned in para 9		
11.	Source of Availability	Local Engineering Houses.		
12.	OEM Detail	Address Zhejiang Yonghong Electrical Appliance Co Ltd Contact Phone N/A Contact Email N/A		
13.	Alternate / Local Source	Local Engineering and Manufacturing Houses		
14.	Justification for work	28V DC output not producing due to defective PCBs		
15.	Work Required	Repair/ replacement of :above mentioned items from OEM/ Local Engineering House		

16.	Detail Scope of Work	<p>a. Repairing of switching power supply modules through trained technicians having experience of PCB repair work</p> <p>b. Functional replacement can be undertaken for non-available/obsolete component</p> <p>c. Onboard test/ trials to be conducted after repair</p> <p>d. Spare(s)/ components required for repair work will be arranged by contractor</p> <p>e. Contractor may inspect switching power supply/ module through onboard visit</p> <p>f. Any growth work during repair work will be borne by the contractor Ship will not provided any spare part/ additional amount in case of growth work</p>
17		<p>g. Any damage to the system during onboard testing of switching power supply will be borne by contractor.</p>
18.	Technical specs	As per sample provided by SS.
19.	Eligibility	<p>a. Any registered and security wise cleared local contractor who has working experience on lighting system of HINOL Class MPVs.</p> <p>b. Firm must visit site for understanding the exact nature of defect/hindrances involved in job prior quoting to avoid inconvenience on later stage after award of Work Order.</p>
20.	EDC	07 Days
21.	Warranty	One year warranty.
22.	Acceptance Criteria	<p>a. Onboard successful test and trails onboard ship.</p> <p>b. OEM certified spares to be used. All technical documents will be provided with the item.</p>

DEFECT RECTIFICATION OF SAU I PLC OF FIRE MAIN PRESSURE & FLOOD ALARM SENSORS FWD & AFT OF DAMAGE CONTROL MONITORING & CONTROL SYSTEM - PMSS HINGOL

S No	Description				
1.	Ship's Name	PMSS HINGOL			
2.	Parent Equipment	D.C.MONITORING AND CONTROL SYSTEM.			
3.	OEM	SHANGHAI ZHONGCHUAN STD-NERC CO, LTD			
4.	Origin	CHINA			
5.	Sub Equipment	DCC panel.			
6.	Assembly components	DC Monitoring and Control System Circuit			
7.	Part No of assembly components	S No	NSN Number	Part Number	Item Description
		a.	6110PV6030003	Sg-3-1	Sau 1 PLC
		b.	6110PV6030013	SG-21	Serial Port Isolation module
		c.	7010PV2000008	SG-323	RS485 Repeater
		d.	6110PV6030011	SG-306	AC/ DC Isolation Module
e.	6626PV0030016	SG-W	Pressure Sensor		
8.	Quantity	01			
9.	Source of availability	Local Engineering Houses.			
10.	Justification of work	D.C Monitoring and Control System found defective.			
11.	Work Required	a	b	c	d
		Defect/ Routine List	Repair Work required	Services Required	Spares Required
		D.C Monitoring and Control System found defective.	a. Repair/ maintenance of D.C Monitoring and Control System LCD display. b. Repair/ maintenance of integrated control board along with circuit. c. Repair/ maintenance of signal acquisition unit (SAU1) along with circuit. d. Repair/ maintenance of extended alarm unit along with circuit. e. Repair/ maintenance of UPS. f. Repair/ maintenance of printer. g. Replacement of all defective components which required for repair/ maintenance of above mention equipment's	Repair/ maintenance of D.C Monitoring and Control System LCD display, integrated control board, signal acquisition unit (SAU1), extended alarm unit, UPS, printer and complete circuit attached with above equipment's.	01 x SAU 1 PLC. 02 x Serial Port Isolation Modules. 01 x RS 485 Repeater. AC/DC Isolation Module. 01 x Pressure Sensor.

		a	b	c
		Details of Repair work Required	Details of services Required	Details of Spares Required
12.	Details Scope of Work	<p>a. Repair/ maintenance of D.C Monitoring and Control System LCD display.</p> <p>b. Repair/ maintenance of integrated control board along with circuit.</p> <p>c. Repair/ maintenance of signal acquisition unit (SAU1) along with circuit.</p> <p>d. Repair/ maintenance of extended alarm unit along with circuit.</p> <p>e. Repair/ maintenance of UPS.</p> <p>f. Repair/ maintenance of printer.</p> <p>g. Replacement of all defective components which required for repair/ maintenance of above mention equipment's</p>	<p>Repair/ maintenance of D.C Monitoring and Control System LCD display, integrated control board, signal acquisition unit (SAU1), extended alarm unit, UPS, printer and complete circuit attached with above equipment's.</p>	<p>01 x SAU 1 PLC.</p> <p>02 x Serial Port Isolation Modules.</p> <p>01 x RS 485 Repeater.</p> <p>AC/DC Isolation Module.</p> <p>01 x Pressure Sensor.</p>
13.	Technical Specs	As per OEM manual.		
14.	Eligibilities	<p>a. Any registered and security wise cleared local contractor who has working experience on D.C Monitoring and Control System.</p> <p>b. Firm must visit site for understanding the exact nature of defect/ hindrances involved in job prior quoting to avoid inconvenience on later stage after award of Work Order.</p>		
15.	EDC	07 Days		
16.	Warranty	<p>One year warranty after satisfactory test / trails w.r.t:</p> <p>a. Satisfactory operation of D.C.Monitoring And Control System LCD</p> <p>b. Satisfactory operation of integrated control board along with circuit without any abnormality.</p> <p>c. Satisfactory operation of all equipment and machinery through integrated control board which can control through integrated control board.</p> <p>d. Satisfactory operation of signal acquisition unit (SAU1) along with circuit.</p> <p>e. Satisfactory operation of extended alarm unit along with circuit.</p> <p>f. Satisfactory operation of UPS.</p> <p>g. Satisfactory operation of printer.</p> <p>h. Any defect of D.C Monitoring and Control System will be rectified by the during warranty period.</p>		
17.	Acceptance Criteria	<p>a. Satisfactory operation of D.C.Monitoring And Control System LCD</p> <p>b. Satisfactory operation of integrated control board along with circuit without any abnormality.</p> <p>c. Satisfactory operation of all equipment and machinery through integrated control board which can control through integrated control board.</p> <p>d. Satisfactory operation of signal acquisition unit (SAU1) along with circuit.</p> <p>e. Satisfactory operation of extended alarm unit along with circuit.</p> <p>f. Satisfactory operation of UPS.</p> <p>g. Satisfactory operation of printer.</p>		

SERVICING/ OVERHAULING OF STEERING MOTOR NO 2 - PMSS BASOL

S No	Description				
1.	Ship's Name	PMSS BASOL			
2.	Parent Equipment	Steering system			
3.	OEM	Wuhan Mekand Equipment Co Ltd			
4.	Make/ Model	MS132M-4			
5.	Origin	China			
6.	Sub Equipment	Steering Motor and pump No 2			
7.	Assembly components	Steering Motor and pump assembly, mechanical seal, o ring, impeller			
8.	Part No of assembly components	S No	NSN/ Part No	Model Description	Qty
		a.	6150PV100-0062/S160-05-12	M3132M-4 7.5kW	01
		b.	4320PV4000 015/S160-05-14	HZ03ZMG31 N435	01
9.	Quantity	Mentioned as per S No 8			
10.	Source of availability	Wuhan Mekand Equipment Co Ltd			
11.	OEM Details	Address: WUHAN MEKAND EQUIPMENT CO, LTD Contact Phone: 027-88737566 Contact Email: office@mekand.cn			
12.	Justification of work	As per PMS routines/ technical manual			
13.	Details Scope of Work	a	b	c	
		Details of Repair work Required	Details of services Required	Details of Spares Required	
		As per requirements	Overhauling of steering motor and pump includes following aspects: a. Pump and motor to be removed. Chain Block or any other lifting equipment which mat required is to be arranged by the firm. b. Pump to be completely dismantled. c. All degraded/ defective components to be procured/fabricated. Bronze material to be used. d. All degraded Nuts and Bolts are to be replaced with Stainless Steel). e. Motor and pump to be assembled with proper align f. Pump be installed back, followed by successful onboard trials on rated parameters. g. All in way accessories be removed by firm and fitted back. h. Any other damage to pipelines observed during dismantling/ installation work will be responsibility of firm. Follow all the aspects mentioned in technical manual and JICs. j. Conduct of HAT\$/ SATs	As per requirements mentioned at S No 8	

14.	Technical Specs	As per technical manual
15.	Eligibilities	Reputable local contractor having working experience of steering system
16.	EDC	01 week
17.	Warranty	01 year
18.	Acceptance Criteria	a. Satisfactory operation of steering system devices along with displayed parameters at MCR, Bridge and tunnel compartment. b. Contractor would be responsible for any damage to assembly components. c. Successful HATs and SATs trials by end user.
19.	Any other relevant information	a. Contactor may contact SS/ Vi it onboard ship to resolve any query. b. Growth Work, Damage/ defect occurred during work is responsible of contractor

IT NO: IT/87/24/2025-26

FABRICATION OF GANGWAY - PMSS SABQAT & PMSS RAFAQAT

S No	Description			
1.	Ship's Name	PMSS SABQAT		
2.	Parent Equipment	Gangway		
3.	Sub Equipment	Gangway		
4.	Quantity	02 (14 x 2 x 3 ft)		
5.	Source of availability	Local Market		
6.	Justification of work	Aluminium gangway fabrication is required to replace old deteriorated wooden gangway		
7.	Work Required	a	b	c
		Defect/ Routine List	Repair Work required	Services Required
			New Fabrication	Local Vender
8.	Details Scope of Work	a	b	c
		Details of Repair work Required	Details of services Required	Details of Spares Required
		Fabrication of new gangway	Stowage arrangement required	Aluminium sheet high quality stainless steel handrail. Length: 14 Feet Width: 24 Inch Handrail Height: 36 Inch
9.	Eligibilities	Reputable local contractor having relevant working experience		
10.	EDC	30 working days after award of contract		
11.	Warranty	2 Years		
12.	Acceptance Criteria	Evaluation by end user		

IT NO: IT/87/25/2025-26

REPAIR/ MAINTENANCE OF EXHAUST TRUNKING OF FPME AND ASME - PMSS BARKAT

S No	Description	
1.	Ship's Name	PMSS BARKAT
2.	Parent Equipment	Main Engines (FPME & ASME)

3.	OEM	MTU																																																				
4.	Make/ Model	16V 396 TB93																																																				
5.	Serial No	5590544, 5590547																																																				
6.	Origin	Germany																																																				
7.	Sub Equipment	Exhaust System																																																				
8.	Assembly components	Exhaust Lines																																																				
9.	Quantity	As per detail scope of work																																																				
10.	Source of availability	Local Market																																																				
11.	Justification of work	a. Exhaust line of FPME (Length 3 feet, Dia 15 inch) found leaky due sea water ingress during rough weather and 02 x exhaust bellows found perforated. b. Exhaust bellows of ASME suspected perforated.																																																				
12.	Details Scope of Work	<p>Details of Serial 13 Column a, b & c</p> <table border="1"> <thead> <tr> <th colspan="2">a</th> <th>b</th> <th>c</th> </tr> <tr> <th colspan="2">Details of Repair work Required</th> <th>Details of services Required</th> <th>Details of Spares Required</th> </tr> </thead> <tbody> <tr> <td>a.</td> <td>Repair work of exhaust line of FPME</td> <td>Removal of lagging/ claddings, inspection of exhaust line and appropriate repair work of exhaust line</td> <td>(Length 03 feet, Dia 15 inch)</td> </tr> <tr> <td>b.</td> <td>Replacement of exhaust bellows of FPME</td> <td>Removal of 02 x existing perforated exhaust bellows and installation of new exhaust bellows</td> <td>02 x exhaust bellows (Sizes: 01 x bellow length 11 inch, Dia 25 inch 01 x bellow length 07 inch, Dia 20 inch)</td> </tr> <tr> <td>c.</td> <td>Replacement of exhaust bellows of ASME</td> <td>Removal of 02 x existing perforated exhaust bellows and installation of new exhaust bellows</td> <td>02 x exhaust bellows Sizes: 01 x bellow length 11 inch, Dia 25 inch 01 x bellow length 07 inch, Dia 20 inch</td> </tr> <tr> <td>d.</td> <td>Repair work of exhaust line of ASME</td> <td>Removal of lagging/ claddings, inspection of exhaust line and appropriate repair work of exhaust line if necessary</td> <td></td> </tr> <tr> <td>e.</td> <td>Lagging/ claddings on exhaust trunking</td> <td>Removal of degraded lagging/ claddings and installation of new lagging/ claddings.</td> <td>As per existing type and, size</td> </tr> <tr> <td>f.</td> <td>Replacement of drain valve with drain pipe</td> <td>Drain valve with drain pipe is to be replaced with new</td> <td>02 x valves dia 1.5 inch Drain pipe (GI) dia 1.5 inch, length 10 feet</td> </tr> <tr> <td>g.</td> <td colspan="3">The firm will be responsible of welding/ cutting if required.</td> </tr> <tr> <td>h.</td> <td colspan="3">Requirement of external services, if required will be responsibility of firm</td> </tr> <tr> <td>i.</td> <td colspan="3">All spares (must be genuine) tools special equipment /accessories required for said Repair/ Maintenance are to be arranged by the firm</td> </tr> <tr> <td>j.</td> <td colspan="3">Any damage/ defect/ wear tear occurred during course of removal work, repair and installation of system/ equipment will be met by firm</td> </tr> <tr> <td>k.</td> <td colspan="3">The firm will be responsible for all removal, transportation and installation during warranty/ grantee period claims in case of any rework</td> </tr> </tbody> </table>	a		b	c	Details of Repair work Required		Details of services Required	Details of Spares Required	a.	Repair work of exhaust line of FPME	Removal of lagging/ claddings, inspection of exhaust line and appropriate repair work of exhaust line	(Length 03 feet, Dia 15 inch)	b.	Replacement of exhaust bellows of FPME	Removal of 02 x existing perforated exhaust bellows and installation of new exhaust bellows	02 x exhaust bellows (Sizes: 01 x bellow length 11 inch, Dia 25 inch 01 x bellow length 07 inch, Dia 20 inch)	c.	Replacement of exhaust bellows of ASME	Removal of 02 x existing perforated exhaust bellows and installation of new exhaust bellows	02 x exhaust bellows Sizes: 01 x bellow length 11 inch, Dia 25 inch 01 x bellow length 07 inch, Dia 20 inch	d.	Repair work of exhaust line of ASME	Removal of lagging/ claddings, inspection of exhaust line and appropriate repair work of exhaust line if necessary		e.	Lagging/ claddings on exhaust trunking	Removal of degraded lagging/ claddings and installation of new lagging/ claddings.	As per existing type and, size	f.	Replacement of drain valve with drain pipe	Drain valve with drain pipe is to be replaced with new	02 x valves dia 1.5 inch Drain pipe (GI) dia 1.5 inch, length 10 feet	g.	The firm will be responsible of welding/ cutting if required.			h.	Requirement of external services, if required will be responsibility of firm			i.	All spares (must be genuine) tools special equipment /accessories required for said Repair/ Maintenance are to be arranged by the firm			j.	Any damage/ defect/ wear tear occurred during course of removal work, repair and installation of system/ equipment will be met by firm			k.	The firm will be responsible for all removal, transportation and installation during warranty/ grantee period claims in case of any rework		
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13.	Technical Specs	As detail scope of work																																																				
14.	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 and experienced.																																																				

		c. The firm should be NTN /GST registered
15.	EDC	15 x Days after issuance of work/confirmation order.
16.	Warranty	01 Year
17.	Acceptance Criteria	a. Satisfactory work done by the firm. b. Successful completion and acceptance by the end user c. Satisfactory trials.
18.	Any other relevant information	Quality material is to be used.

**REQUIREMENT OF WEIGHT TEST OF CO2 PILOT CYLINDERS HALON FLOODING SYSTEM - PMSS
SABQAT**

S No	Description								
1.	Ship's Name	PMSS SABQAT							
2.	Parent Equipment	CO2 Pilot Cylinder							
3.	OEM	USA							
4.	Origin	USA							
5.	Sub Equipment	HALON 1301 (bromotrifluoromethane)							
6.	Assembly components	Actuator assembly							
7.	Part No of assembly components	28934N							
8.	Quantity	03 IN NO							
9.	Justification of work	CO2 Pilot Cylinder (HALON flooding system) weight test due.							
10.	Work Required	a		b		c		d	
		Defect/ Routine List		Repair Work required		Services Required		Spares Required	
		CO2 Pilot Cylinder for HALON flooding system weight test due.		03 in no CO2 Pilot Cylinder for HALON flooding system weight test due.		-		All material, spares, tools, special equipment/ tools accessories etc required for said work are to arrange by the contractor	
11.	Details Scope of Work	a		b		c			
		Details of Repair work Required		Details of services Required		Details of Spares Required			
		03 in no CO2 Pilot Cylinder for HALON flooding system weight test due.		- 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		All material, spares, tools, special equipment/ tools accessories etc required for said work are to arrange by the contractor			
12.	Technical Specs	CO2 Pilot Cylinder capacity 5 lbs Cylinder full weight 25-1/2 lbs							
13.	Eligibilities	FBR register supplier.							
14.	EDC	14 working days.							
15.	Warranty	1 year							
16.	Acceptance Criteria	a.	Success trials, by. end user.						
		b.	QA/QC certificate issued by QA/QC deptt.						

IT SPECIFICATION FOR PROCUREMENT/ INSTALLATION OF VALVE-REGULATED SEALED LEAD-ACID BATTERY PMSS BASOL

		Description	
1.	Ships Name	PMSS BASOL	
2.	Parent Equipment	Valve-regulated sealed lead-acid battery	
3.	OEM	Nanhu Driving School,Wuchang District,Wuhan City,Hubei Provice, P.R.China	
4.	Model	JKC-B-1	
5.	Serial No	GB/T 196382-2005	
6.	Origin	China	
7.	Sub Assembly	Batteries	
8.	Assembly Components	Valve-regulated sealed lead-acid battery	
9.	Part No of Assembly Components	Part No/ NSN	Description
		129.302.0000 / 6140PV1000006	a. Procurement of Valve-regulated sealed lead acid battery b. Installation of Valve-regulated sealed lead-acid battery
		6140PV1000007 / 129.303.0000	c. Onboard test/ trials to be conducted after repair d Spare(s)/ components required for repair work will be arranged by contractor
		GB/T 196382-2005	e. Contractor may inspect switching power supply/ module through onboard visit f. Any growth work during repair work will be borne by the contractor Ship will not provide any spare part/ additional amount in case of growth work g. Any damage to the system during onboard testing of switching power supply will be borne by contractor
		12 x GFM-200 Battery 2V200Ah	12 x GFM-300 Battery 2V300Ah
			08 x 12v100Ah Dry Chemical Battery
10.	Quantity	As mentioned in para 9	
11.	Source of Availability	Local Engineering Houses.	
12.	Alternate / Local Source	Local Engineering and Manufacturing Houses	
13.	Justification for work	Valve regulated sealed lead-acid battery is deteriorated and requires replacement as per MMS routine/ OEM recommendations	
14.	Work Required	Procurement of above mentioned items from OEM/ Local Engineering House	
15.	Detail Scope of Work	a. Repairing of switching power supply modules through trained technicians having experience of PCB repair work Procurement/ installation of Valve-regulated sealed lead- acid battery b. Functional replacement can be undertaken for non available/ obsolete component c. Onboard test/ trials to be conducted after repair d. Spare(s)/ components required for repair work will be arranged by contractor e Contractor may inspect switching power supply/ module through onboard visit f Any growth work during repair work will be borne by the contract Ship, will not provide any spare part/ additional amount in case of growth work g. Any damage to the system during onboard testing of switching power supply be borne by contractor	

16	Eligibility	a. Any registered and security wise cleared local contractor who has working experience on lighting system of HINOL Class MPVs. b Firm must visit site for understanding the exact nature of defect/hindrances involved in job prior quoting to avoid inconvenience on later stage after
17	EDC	07 Days
18	Warranty	One year warranty.
19	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 NO: IT/87/28/2025-26

IT SPECIFICATION

REPAIR/ REPLACEMENT OF 15 x LIQUID LEVEL SENSOR OF TELEMETERING SYSTEM - PMSS BASOL

S No		Description		
1.	Ships Name	PMSS BASOL		
2.	Parent Equipment	LIQUID LEVEL TELEMETERING SYSTEM		
3.	OEM	CHINA		
4.	Model	CYC1-IIA1-15		
5.	Origin	CHINA		
6.	Sub Assembly	Liquid Level Telemetry System		
7.	Assembly Components	15 x Liquid level sensor		
8.	Part No of Assembly Components and quantity required	Part No	Description	Qty
		TTL6 N2-A2 1 11800 6-HX	Pressure transmitter	15
9.	Source Of Availability	Local Engineering Houses.		
10.	Justification for work	Replacement of deteriorated liquid level sensors.		
11.	Work Required	a	b.	c.
		Defect List	Repair Work Required	Service Required
		Performance of liquid level sensors found degraded. Same requirement replacement with new one.	1 Inspection/repair replacement of liquid level sensors required. 2 Removal and installation of in way components will be responsibility of firm.	As mentioned in col-b
12	Detail Scope of Work	a	b	c
		Detail of Repair Work Required '	Detail of Service Required	Detail of Spare Required
		Replacement of deteriorated liquid level sensor alongwith its electrical wiring with new one.	1. Inspection/repair replacement of flood sensors required. 2 Removal and installation of in way components will be responsibility of firm.	-
13	Technical specs	As per sample provided by SS		
14	Eligibility	a. Any registered and security wise cleared local contractor who has working experience on lighting system of HINOL Class MPVs. b. Firm must visit site for understanding the exact nature of defect/hindrances involved in job prior quoting to avoid inconvenience on later stage after award of Work Order		
15	EDC	05 Days		

16	Warranty	<p>One year warranty after satisfactory test / trials w.r.t:</p> <ul style="list-style-type: none"> a. Satisfactory operation of fluorescent pendant light (220V 50HZ) complete assemblies b. Satisfactory brightness of fluorescent pendant light. c. Only marine version of fluorescent pendant light will be acceptable. d. Any defect/ deterioration of fluorescent pendant lights complete assemblies will be rectified/ replace complete assemblies by the firm during warranty period.
17	Acceptance Criteria	<ul style="list-style-type: none"> a. Satisfactory operation of fluorescent pendant light (220V 50HZ) complete assemblies b. Satisfactory brightness of fluorescent pendant lights. c. Only marine version of fluorescent pendant light will be acceptable.

IT SPECIFICATION FOR FREQUENCY CONVERTOR - PMSS RAFAQAT

1.	Ships Name	PMSS RAFAQAT			
2.	Parent Equipment	Frequency Convertor			
3.	OEM	Stampford Fuji			
4.	Model	Mx 321 BW250 (200 A)			
5.	Origin	USA			
6.	Sub Equipment	AVR card, 03 x circuit breakers and 02 x connection points			
7.	Assembly Components	Motor & Generator bearings, AVR, UVT, TDR, Belts, output breakers, plugs ,tyres, Aluminum doors & hinges			
8.	Quantity	01			
9.	Sources of Availability	USA			
10.	Justification for work	SFC components de-graded			
11.	Work Required	a	B	c	d
		Defect List	Repair Work Required	Services Required	Spares Required
		Motor & Generator bearings, AVR, UVT,TDR, Belts, output breakers, plugs are degraded Furthermore frequency convertor trolley doors, hinges & tires are deteriorated condition	Repair / Replacement of SFC components are required	Repair/ Replacement of old fittings are required	All material, spares, tools, special equipment / tools, accessories etc required for said work are to arrange by the contractor
12.	Detail scope of work	a	b	c	
		Detail of Repair Work Required	Details of Services Required	Details of Spares Required	
		Repair / maintenance of 01 in No portable SFC equipment's with its trolley assemblies Repair / replacement of motor and generator bearings Repair / replacement of AVR,TDR,UVT & 02 output breakers upto 150 Amp of (Merlin Gerlin) Repair / replacement of connection points (high rating male female plug). Repair / replacement of SFC Aluminum Doors, hinges & tyres	Repair / maintenance of 01 in No portable SFC equipment's with its trolley assemblies Repair / replacement of motor and generator bearings Repair / replacement of AVR,TDR,UVT & 02 output breakers upto 150 Amp of (Merlin Gerlin) Repair / replacement of connection points (high rating male female plug). Repair / replacement of SFC Aluminum Doors, hinges & tyres Complete protection & preservation from weather and ensured SAT operational capability of motor, generators & its portable trolley required	All material, spares, tools, special equipment / tools, accessories etc required for said work are to arrange 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	Input power 380VAC, 50 Hz & output power 390 VAC 60 Hz, control power		

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	a. OEM certified parts. b. Satisfactory running trials. c. HATs complete.

IT SPECIFICATION FOR PROCUREMENT SUPPORTING LIQUID AND DISTILLED WATER STD-22 GYRO - PMSS ZHOB

S No	Description				
1.	Ship's Name	PMSSZHOB			
2.	Parent Equipment	Gyro Compass			
3.	Model	STD-22 Type 110-233			
4.	Sub equipment	Gyro sphere			
5.	Assembly Component	Supporting Liquid, Distilled water, Gasket			
6.	Part No. of Assembly Component	S.No	Part number	Description	Required Qty
		a.	148-162E02	Supporting Liquid	01
		b.	148-392	Distilled water	01
		c.	110-222.X 01	Gasket	01
7.	Quantity	01 each			
8.	Source of Availability	Any local/ international registered firm with good reputation.			
9.	Justification	Conduct of depot level PMS routine (18-24 months) of STD 22 Gyro which includes replacement of supporting liquid and distilled water.			
10.	Work required	a.	b.	c.	d.
		Defect List	Repair work required	Service required	Spare required
		As per attached list	N/A	Procurement of above mentioned item	-
11.	Technical spec	a. Serial no 148-162 E 02 b. Non polluting, biological decomposable & contents 1.0 distilled water c. Serial No 148-398 d. Contents 0.23 l			
12.	Eligibility criteria	OEM certified local contractor having working experience of 01 year onboard 6HT MPVs			
13.	EDC	1 Month			
14.	Warranty	1 Year			
15.	Acceptance Criteria	a. OEM certified items b. Items will be accepted after physical inspection by SS c. OEM Technical documents of item d. Upon secreting of item and provided documents i.e technical specification along with production certifications and batch No by OEM e. Items must be genuine local/ aftermarket products will not be accepted f. Expiry date of liquids should not before December 2027			

PROCUREMENT OF MAIN ENGINE SENSORS – PMSS HINGOL

S No.	Description								
1.	Ship,s Name	PMSS HINGOL							
2.	Parent Equipment	Main Engine Gearbox Pressure Sensors/Raw Water Pressure Sensor/Speed Sensor							
3.	OEM	DANFOSS/MTU							
4.	Model	ZF 9050 Series/ 16V4000M73L							
5.	Serial No	527112437, 527112448, 527112440, 527112456							
6.	Origin	Germany							
7.	Sub Assembly	Gear Box/Main Engine.							
8.	Assembly Components	ME# 1, ME #2, ME# 3 & ME #4							
9.	Part No of Assembly Components	Gearbox Lub oil pressure sensors (MBS 3100-MBS 3300 060G3567) /MTU Main Engine Raw water pressure sensors.(MTU X00E50208388) / Main Engine speed sensors (0005357531)							
10.	Quantity	11							
11.	Source Of Availability	Local Engineering Houses							
12.	Alternate / Local Source	Local Engineering and Manufacturing Houses							
13.	Justification for work	Procurement of Gearbox Lub oil pressure sensors/Raw water pressure sensors/speed sensor							
14.	Work Required	a		b		c		d	
		Defect List		Repair Work Required		Service Required		Spares Required	
		Gearbox Lub oil pressure Sensors/Raw Water pressure Sensors/ Speed Sensors Defective		Requirement of 04 x gearbox Lub oil pressure sensors. Requirement of 04 x Main Engine Raw water pressure sensors. Requirement of 03 x Main Engine speed sensor.		Requirement of 04 x gearbox Lub oil pressure sensors. Requirement of 04 x Main Engine Raw water pressure sensors. Requirement of 03 x Main Engine speed sensor.		04 x Gearbox Lub oil pressure sensors(MBS 3100-MBS 3300 060G3567) 04 x Main Engine Raw water pressure sensors.(MTU X00E50208388) 03 x Main Engine speed sensor (0005357531)	
15.	Detail Scope of Work	Detail of Repair Work Required		Detail of Service Required		Detail of Spare Required			
		Requirement of 04 x gearbox Lub oil pressure sensors. Requirement of 04 x Main Engine Raw water pressure sensors. Requirement of 03 x Main Engine speed sensor.		Requirement of 04 x gearbox Lub oil pressure sensors. Requirement of 04 x Main Engine Raw water sensors. Requirement of 03 x Main Engine speed sensor.		04 x Gearbox Lub oil pressure sensors (MBS 3100-MBS 3300 060G3567) 04 x Main Engine Raw water pressure sensors (MTU 1 X00E50208388) 03 x Main Engine speed sensor (0005357531)			

16	Technical specs	INPUT-24V DC OUTPUT - 04-20 m Amp
17	Eligibility	Only OEM certified reputable local contractor having experience of working on MTU Engines onboard HINGOL class MPVs
18	EDC	15 Days
19	Warranty	<p>One year warranty after completion.</p> <p>a. Satisfactory operation of gearbox</p> <p>b. Satisfactory reading of Gearbox lub oil pressure within limit.</p> <p>c. Satisfactory reading of Main Engine Raw water within limit.</p> <p>d. Satisfactory reading of Main Engine speed sensor within limit.</p> <p>f. Satisfactory operation of all sensors and safeties without malfunctioning.</p> <p>g. Only OEM recommended spares will acceptable.</p> <p>h. Any malfunction in sensors within warranty period will recover by firm during warranty period.</p> <p>j. Any abnormality in system within warranty period will recover by firm during warranty period.</p> <p>k. Any abnormality in parameters and gearbox operation will rectify by firm during warranty period.</p>
20	Acceptance Criteria	<p>a. Satisfactory operation of gearbox.</p> <p>b. Satisfactory reading of Gearbox lub oil pressure within limit.</p> <p>c. Satisfactory reading of Main Engine Raw water pressure within limit.</p> <p>d. Satisfactory reading of Main Engine speed sensor within limit.</p> <p>f. Satisfactory operation of all sensors and safeties without malfunctioning.</p> <p>g. Only OEM recommended spares will acceptable._</p>

IT NO: IT/87/32/2025-26

**IT SPECIFICATION FOR SERVICING/ VARNISH OF GENSETS 1 & 2 ALTERNATORS-
PMSS ZHOB**

S. No	Description			
1.	Ship's Name	PMSS ZHOB		
2.	Parent equipment	Gensets		
3.	OEM	Caterpillar		
4.	Model	C9		
5.	Origin	Caterpillar		
6.	Sub equipment	Gensets 1 & 2		
7.	Assembly component	Gensets alternators		
8.	Part No. of Assembly Component	Genset alternator	Part No: BL16P00125	
9.	Quantity	2 x Genset alternator		
10.	Source of Availability	Allied Engineering and Services (Pvt.) Ltd.		
11.	Justification for Work	Gensets No 1 & 2 alternators servicing/ varnish work required for sat ops.		
12.	Detail scope of work	a	b	c
		Detail of Repair Work Required	Details of Services Required	Details of Spares Required
		Alternators components of GENSETs No 1 & 2 servicing/ varnish work required through OEM/ local engineering house.	Alternators components of GENSETs No 1 & 2 servicing/ varnish work required through OEM/ local engineering house.	Genset alternator Part No: BL16P00125
13.	Technical Specs	As per OEM Manual/ Specs		
14.	Eligibility criteria	Authorized rep of OEM/ Local contractor having relevant working experience. Contractor is to visit the ship in order to understand the scope of work.		
15.	EDC	5 Days		
16.	Warranty	2 year		
17.	Acceptance Criteria	a. PQA of GENSET on variable loads. b. Full Power Trials, HATs & SATs. c. Satisfactory onboard trials of GENSET after servicing/ varnish work of alternators on 100% load through load van i.e 192 KW d. Certified spares to be used for avoiding damage to system and ship. e. Full Power Trials, HATs & SATs. f. QA/QC certificate issuance by QA/QC Deptt.		
18.	Any other relevant information	a. Defect diagnosis if requires switching/ swapping of known good onboard spare(s)/ module(s), then respective system will be restored without any defect/ as per existing condition.		
		b. In case of damage/ defect in system or other associated systems/ servicing/ varnish of alternators due to negligence of contractor, same is to be rectified by contractor free of cost.		

IT NO: IT/87/33/2025-26

**IT SPECIFICATION FOR REPAIR/ OVERHAULING OF CWP CHILLED WATER PUMP -
PMSS BASOL**

SNo	Description				
1.	Ships Name	PMSS BASOL			
2.	Parent Equipment	Chilled water cooling system			
3.	OEM	JIANGSU ZHENHUA PUMP INDYSTRY CO, LTD			
4.	Model	CLH80-65-9(Z)			
6.	Origin	China			
7.	Sub Equipment	Main AC chilled water cooling system			
8.	Assembly Equipment	Main AC chilled water cooling system			
9.	Part No. of Assembly Equipment	SNo	Part No	Description	Qty
		a.	NA	Pump body	01
		b.	NA	Impeller	01
		c.	58U-30	Mechanical seal	01
		d.	6206	Bearings	03
		e.	Z60-C-2.5	Guage with adaptor	02
		f.	NA	Adaptor	04
		g.	NA	Shaft	01
10.	Quantity	As per para 9			
11.	OEM Details	GJJM-9x4, Jiang Du Qu, Yang Zhou Shi, Jiang Su Sheng, China			
14.	Justification of work	Main AC Chilled water pump found degraded. Mechanical seal leaky and, overhauling of pump is to be required for sat ops			
15.	Work Required	a	b	c	d
		Defect list	Repair work required	Services required	Spare required
		Main AC chilled water cooling system pump found degraded. Mechanical seal leaky and abnormal noise observed, overhauling of pump is to be required for sat ops	Fabrication of new pump body, mechanical seal, impeller. Servicing of motor. Alignment of pump	Main AC chilled water cooling system pump found degraded. Mechanical seal leaky and abnormal noise observed, overhauling of pump is to be required for sat ops	As per serial No 9 & 10
17.	Detailed scope of work	a	b	c	d
		Defect list	Repair work required	Services required	Spare required
		Main AC chilled water cooling system pump found degraded. Mechanical seal leaky and abnormal noise observed, overhauling of pump is to be required for sat ops	Fabrication of new pump body, mechanical seal, impeller. Servicing of motor. Alignment of pump	Main AC chilled water cooling system pump found degraded. Mechanical seal leaky and abnormal noise observed, overhauling of pump is to be required for sat ops	As per serial No 9 & 10
18.	Technical specs	As per OEM manual.			
19.	Eligibility	Security wise clear firm having working experience on chilled water cooling system of water chiller on board HINGOL CLASS MPVs of PMSA.			
20.	EDC	07 Days			

21.	Warranty	<p>One year warranty after satisfactory test / trails w.r.t:</p> <ul style="list-style-type: none"> a. Satisfactory suction and discharge pressure of chilled water pump b. Satisfactory and smooth operation without abnormal noise and vibration. c. Satisfactory operation without any leakage from mechanical seal, pump body and gauges lines. d. Satisfactory operation of gauges after installation of gauges lines. e. Precise alignment, impeller should be free to rotate. f. Any abnormality in pump, mechanical seal, water leakage from pump body/ gauges lines, <p>suction and discharge pressure will be rectified by the firm during warranty period.</p>
22.	Acceptance Criteria	<ul style="list-style-type: none"> a. Satisfactory test and trials with smooth operation of chilled water pump without abnormal noise or vibration and any type of leakage. b. ___ Satisfactory suction and discharge pressure of chilled water pump.

IT NO: IT/87/34/2025-26

**IT SPECIFICATION FOR REPAIR/ REPLACEMENT OF LOP PCB CARD OF MAIN ENGINE
NO 4 – PMSS ZHOB**

S.No	Description			
1.	Ship Name	PMSS ZHOB		
2.	Parent equipment	MTU 16V400073L MAIN ENGINE NO 4		
3.	OEM	MTU Germany		
4.	Model	LOP11-03		
5.	Origin	Germany		
6.	Sub Equipment	Local Operating Panel		
7.	Assembly Component	LO- PCB Card		
8.	Part No of Assembly Component	LOP 11-03		
9.	Quantity	01		
10.	Source of Availability	MTU Friedrichshafen GmbH A Rolls-Royce Power Systems Company		
11.	Justification of Work	Main Engine No 4 LOP defective, PCB card malfunctioning.		
12.	Detail scope of Work	a	b	c
		Detail of repair work required	Details of Services required	Details of spares required
		Repair/ Replacement of LOP PCB card main engine no 04 through OEM/ Local engineering house.	Repair/ Replacement of LOP PCB card main Engine 04 through OEM/ Local engineering house.	LOP PCB card Part No: LOP11-03
13.	Technical Specs	As per OEM manual/ Spec		
14.	Eligibility Criteria	Reputable local contractor having working experience of LOP Control System of MTU Engine		
15.	EDC	05 Days		
16.	Warranty	02 Years		
17.	Acceptance Criteria	a. Successful defect diagnosis and rectification of LOP Main Engine No 04. b. Displaying of required parameters on LOP of main engine No 4 display. c. Provided certified spares/ OEM recommended spares.		
18.	Any other relevant information	a. Defect diagnosis if requires switching/ swapping of know good onboard spares modules then respective system will be restored without any defect/ as per existing condition. b. In case of damage/ defect in system or other associated systems/ fittings/ installation of software's due to negligence of contractor same is to be rectified by contractor free of cost.		

IT NO: IT/87/35/2025-26

IT SPECIFICATIONS PROCUREMENT OF SONY A7 IV CAMERA - D(PR)

1.	Ship's Name	D(PR)			
2.	Parent Equipment	Camera with Lenses			
3.	OEM	Sony			
4.	Model	Sony A7 IV Camera Lenses Sony SEL21405G Godox V1 Pro Flash for Camera Set of Wireless pro (Rode)			
5.	Origin	Japan			
6.	Store Required	S. No	Description	Den	Qty
		a.	Sony Alpha A7 IV - Complete Body	No	01
		b.	128 GB Micro SD	No	01
		c.	GODOX V1 Pro Flash	No	01
		d.	Sony FE 24-105MM F4 G OSS	No	01
		e.	Sony NP-FZ100 Rechargeable Lithum-ION Battery	No	01
		f.	Rode Wireless Pro	No	01
		g.	Transcend ESD380C 4TB External SSD, Upto 20,000 MBPS, USB 3.2 Gen 2x2 (20GBPS), Shock Resistant & Portable SSD	Set	01
		h.	Portable Device (1TB)	No	01
		j.	Charger Nikon Camera	No	01
		k.	Charger of Canon Camera	No	01
		l.	Battery of Nikkon Camera	No	01
		m.	Battery of Canon Camera	No	01
		n.	Sony Battery Charger	No	01
7.	Eligibilities	Have past Experience w.r.t procurement of electronics items onboard PMSA Ships			
8.	EDC	15 days			
9.	Warranty	Company Warranty minimum 02 Years			
10.	Acceptance Criteria	Upon acceptance and satisfaction of end user			

IT NO: IT/87/36/2025-26

IT SPECIFICATIONS

1.	Ship's Name	PMSA Ships (i.e. HINGOL and BASOL)			
2.	Parent Equipment	Ty installation of 2 x Network Node			
3.	OEM	Any available brand			
4.	Model	Network Equipment			
5.	Origin	With respect to brand			
6.	Sub Equipment	PC with complete accessories and LED			
		SLR 200/400 along with AIS GPS antennas			
		Cat 6A Network Cable			
		RJ 45 cat-6A connector			
		3KVA online UPS with battery bank			
		12U Rack with PDU			
		Power Cable			
		Cable Tie			
7.	Assembly Components	Any available Brand			
8.	Quantity	Details as under			
		PC with complete accessories and LED	02 no		
		SLR 200/400 along with AIS GPS antennas	02 no		
		Cat 6A Network Cable	2 Roll		
		RJ 45 cat-6A connector	01 Box		
		3KVA online UPS with battery bank	02 no		
		12U Rack with PDU	02 no		
		Power Cable (for power distribution)	01 coil		
		Cable Tie medium	04 Pkts		
9.	Sources of Availability	Through Open Tender			
10.	Justification for work	Hardware required for Ty installation 2 x network nodes onboard PMSS HINGOL & BASOL			
11.	Work Required	a	b	c	d
		Defect list	Repair Work Required	Services Required	Spares Required
12.		-	-	Complete installation	Cable/connector
13.	Defect History	Many time repaired through SS/ local market			
14.	Technical Specs	a.	PC with complete accessories and LED	Core i7 14th generation with built-in graphic card, 24" LED & cable accessories.	
		b.	SLR 200/400 along with AIS GPS antennas	SLR200G AIS Receiver/ Ship Location Receiver, NMEA 0183 output, RS 232 DATA connectivity Dual-channel AIS receiver with built in GPS and Ethernet connectivity, Network RJ45 Ethernet 10/100-T	
		c.	Cat 6A Network Cable	3m pure copper cable cat-6A	
		d.	RJ 45 cat-6A connector	3M pure copper RJ 45 connector	
		e.	3KVA online UPS with battery bank	Online UPS for upto 1 hour	

		f.	12U Rack with PDU	Used for hardware and cable securing with PDU
		g-	Power Cable	For end user Node point (23/0.0076") 3 core flexible cable
		h.	Cable Tie	For securing of cable
15.	EDC	1 x week after award of contract		
16.	Warranty	Minimum 1-2 x year replacement warranty		
17.	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	
18.	Any other relevant information	Detailed quotation to be provided having complete breakdown of total price of items		

IT NO: IT/87/37/2025-26

IT SPECS FOR REPLACEMENT OF TRUNKING OF FPME - PMSS NUSRAT

S No	IT SPECIFICATION				
1.	Ship's Name	PMSS NUSRAT			
2.	Parent Equipment	FPME			
3.	OEM	MTU			
4.	Model	16 V 396 TB93 (4 Stroke Water Cooled System)			
5.	Serial No	5590588			
6.	Origin	Germany			
7.	Sub Equipment	Exhaust Trunking			
8.	Assembly Components	Exhaust Lines, Bellows and Flap			
9.	Quantity	As per scope of work			
10.	Justification for Work	FPME Exhaust lines (Length 10 feet, Dia 15 inch) from bulk head upto engine found leaky due to sea water ingresson during rough weather			
11.	Work Required	a	b	c	d
		Defect List	Repair work required	Services required	Spares required
		FPME Exhaust lines (Length 10 feet, Dia 15 inch) from bulk head up-to engine found leaky due to sea water ingresson during rough weather	Replacement of exhaust line with all accessories is required for sat ops	-	As per requirement
12.	Detail Scope of Work	a	b		c
		Detail of repair work required	Details of services required		Details of spares required

		Replacement of exhaust line with all accessories is required for sat ops	<p>a. Removal of lagging/ claddings, inspection of exhaust (trunking/ pipes, bellow and flap).</p> <p>b. Replacement of exhaust trunking/ pipes, (Length 10 feet, Dia 15 inch)</p> <p>c. Replacement of exhaust bellow,</p> <p>d. Replacement of exhaust flap and drain valve</p> <p>e. Installation of lagging/ claddings</p> <p>f. The firm will be responsible for welding/ cutting, if required</p> <p>g. The firm will arrange all spares, tools and accessories etc required for the same work.</p> <p>h. The firm will be responsible to undertake any work not covered above to ensure good quality of work</p> <p>j. The firm will be responsible for requirement of external services</p> <p>k. 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> <p>l. There will be no growth work</p>	As per requirement
13.	Technical Specs	As per scope of work		
14.	Eligibilities	<p>a. The firm should visit onboard and carry out inspection to establish the extent of required work</p> <p>b. The firm should having good experience of the same kind of work required onboard</p> <p>c. The firm should be NTN/GTN registered</p>		
15.	EDC	02 x week after issuance of work/ confirmation order		
16.	Warranty	01 year from the date of acceptance		
17.	Acceptance Criteria	<p>a. Satisfactory work done by the firm</p> <p>b. Satisfactory HATs and SATs of FPME</p> <p>c. Practical acceptance by SS</p>		

IT NO: IT/87/38/2025-26

SERVICING/ OVERHAULING OF SEWAGE TREATMENT PLANT - PMSS ZHOB

S No	Description			
1.	Ship's Name	PMSS ZHOB		
2.	Parent Equipment	Sewage Treatment Plant		
3.	OEM	Jiangsu Nanji Machinery Co., Ltd		
4.	Make/ Model	WCMBR-60(U)		
5.	Origin	China		
6.	Sub Equipment	Sewage Treatment Device		
7.	Assembly components	Cutting pump Process & discharge pump Air pump Dosing pump Membrane module UV sterilizer Main Tank Electric control box UV sterilizer Main electric control box Electric control box of UV sterilizer (separated from body)		
8.	Part No of assembly components	Cutting pump 50CPW0.5-10B Process & discharge pump CLH40-32-2 (Z) A Air pump CYBW-20 Dosing pump DL-7 Membrane module 3219NJ-3-00A1 UV sterilizer JX-0.5UV Main Tank Non Serviced Electric control box UV sterilizer 321NJUV-6A3-00-17 Main electric control box Electric control box of UV sterilizer (separated from body) 321NJUV-F8L21-03WX		
9.	Quantity	10 x Components		
10.	Source of availability	Jiangsu Nanji Machinery Co., Ltd		
11.	Justification of work	Sewage treatment plant performance observed degraded.		
12.	Work Required	a	b	c
		Defect/ Routine List	Repair Work required	Services Required
		Servicing/ Overhauling of sewage treatment plant (STP)	Servicing/ Overhauling of sewage treatment plant (STP) components through OEM/ local engineering house.	See S No 13 Para b
			d	Spares Required
				See S No 13 Para c

		a	b	c
		Details of Repair work Required	Details of services Required	Details of Spares Required
13.	Details Scope of Work	<p>Servicing/ Overhauling of sewage treatment plant (STP) components through OEM/ local engineering house.</p>	<p>a. Complete servicing/ overhauling of cutting pump.</p> <p>b. Complete servicing/ overhauling of Process & discharge pump.</p> <p>c. Complete servicing/ overhauling of air pump.</p> <p>d. Complete servicing/ overhauling of dosing pump.</p> <p>e. Complete servicing/ overhauling of membrane module.</p> <p>f. Complete servicing/ overhauling of UV sterilizer.</p> <p>g. Complete welding of leaky main tank (if any).</p> <p>h. Complete servicing/ overhauling of Electric control box UV sterilizer.</p> <p>j. Complete servicing/ overhauling of Main electric control box.</p> <p>k. Complete servicing/ overhauling of Electric control box of UV sterilizer (separated from body).</p>	<p>Cutting pump Part No:50CPW0.5-10B</p> <p>Process & discharge pump Part No: CLH40-32-2 (Z) A</p> <p>Air pump Part No: CYBW-20</p> <p>Dosing pump Part No: DL-7</p> <p>Membrane module Part No: 3219NJ-3- 00A1</p> <p>UV sterilizer Part No: JX-0.5UV</p> <p>Main Tank Part No: Non Serviced</p> <p>Electric control box UV sterilizer Part No: 321NJUV-6A3-00-17</p> <p>Main electric control box Electric control box of UV sterilizer (separated from body) Part No: 321NJUV- F8L21-03WX</p>
14.	Technical Specs	As per OEM manual		
15.	Eligibilities	Reputable local contractor having working experience with PMSA.		
16.	EDC	20 Days		
17.	Warranty	2 years		
18.	Acceptance Criteria	<p>a. Satisfactory operation of sewage treatment plant system.</p> <p>b. Contractor would be responsible for any damage to mechanical/ electrical assembly.</p>		
19.	Any other relevant information	<p>a. Contactor may contact SS/ visit onboard ship to resolve any query.</p> <p>b. Growth Work, Damage/ defect occurred during work is responsibility of contractor.</p>		

SERVICING/ OVERHAULING OF OILY WATER SEPARATOR - PMSS ZHOB

S No	Description								
1.	Ship's Name	PMSS ZHOB							
2.	Parent Equipment	Oily Water Separator							
3.	OEM	Yijun Mei Machinery Co, Ltd							
4.	Make/ Model	YWC-0.50 15PPM							
5.	Origin	China							
6.	Sub Equipment	15PPM Oily Water Separator							
7.	Assembly components	Pneumatic Valves Screw Pump (Three-Way) Dosing Pump Three Stage Membrane Oil Content Meter Pressure Controller Differential Pressure Gauge Two Stage Separator First Stage Separator Temperature Controller Electrical Control Box Pneumatic Valve Dosing Pump							
8.	Part No of assembly components	Pneumatic Valves QD-25 Screw Pump (Three-Way) 322DF-1-04 Dosing Pump 322DF-1-08 Three Stage Membrane 322DF-1-03 Oil Content Meter 322DF-1-05 Pressure Controller 322DF-1-06 Differential Pressure Gauge YX-60 Two Stage Separator 322DF-1-02 First Stage Separator 322DF-1-01 Temperature Controller 322DF-1-07 Electrical Control Box 322DF-1-10							
9.	Quantity	11 x Components							
10.	Source of availability	Yijun Mei Machinery Co., Ltd							
11.	Justification of work	Oily water separator performance observed degraded.							
12.	Work Required	a		b		c		d	
		Defect/ Routine List		Repair Work required		Services Required		Spares Required	
		Servicing/ Overhauling of Oily Water Separator		Servicing/ Overhauling of oily water separator through OEM/ local engineering house.		See S No 13 Para b		See S No 13 Para c	

		a	b	c
		Details of Repair work Required	Details of services Required	Details of Spares Required
13.	Details Scope of Work	<p>Servicing/ Overhauling of oily water separator through OEM/ local engineering house.</p>	<p>a. Complete servicing/overhauling of Pneumatic Valves.</p> <p>b. Complete servicing/overhauling of Screw Pump (Three-Way).</p> <p>c. Complete servicing/overhauling of dosing pump.</p> <p>d. Complete servicing/overhauling of three stage membrane.</p> <p>e. Complete servicing/overhauling of Oil Content Meter.</p> <p>f. Repair/ replacement of differential pressure gauge.</p> <p>g. Complete servicing/overhauling of Pressure Controller.</p> <p>h. Complete servicing/replacement of two stage separator.</p> <p>j. Complete servicing/replacement of first stage separator.</p> <p>k. Complete servicing/replacement of temperature controller.</p> <p>l. Complete servicing/replacement of electrical control box.</p>	<p>Pneumatic Valves Part No QD-25</p> <p>Screw Pump (Three-Way) Part No: 322DF-1-04</p> <p>Dosing Pump Part No: 322DF-1-08</p> <p>Three Stage Membrane Part No: 322DF-1-03</p> <p>Oil Content Meter Part No: 322DF-1-05</p> <p>Pressure Controller Part No: 322DF-1-06</p> <p>Differential Pressure Gauge Part No: YX-60</p> <p>Two Stage Separator Part No: 322DF-1-02</p> <p>First Stage Separator Part No: 322DF-1-01</p> <p>Temperature Controller Part No: 322DF-1-07</p> <p>Electrical Control Box Part No: 322DF-1-10</p>
14.	Technical Specs	As per OEM manual		
15.	Eligibilities	Reputable local contractor having working experience with PMSA.		
16.	EDC	20 Days		
17.	Warranty	2 years		
18.	Acceptance Criteria	<p>a. Satisfactory operation of oily water separator.</p> <p>b. Contractor would be responsible for any damage to mechanical/ electrical assembly.</p>		
19.	Any other relevant information	<p>a. Contactor may contact SS/ visit onboard ship to resolve any query.</p> <p>b. Growth Work, Damage/ defect occurred during work is responsibility of contractor.</p>		

REPAIR/ REPLACEMENT OF FRESH WATER EXPANSION TANK - PMSS RAFAQAT

S No	Description				
1.	Ship's Name	PMSS RAFAQAT			
2.	Parent Equipment	Expansion Tank			
3.	OEM	USA			
4.	Origin	USA			
5.	Sub Equipment	Expansion Tank			
6.	Assembly components	Expansion Tank			
7.	Quantity	01			
8.	Source of availability	Local Source			
9.	Justification of work	Fresh water system expansion tank			
10.	Work Required	a	b	c	d
		Defect/ Routine List	Repair Work required	Services Required	Spares Required
		Replacement of fresh water system expansion tank	New fresh water Expansion tank required.	Removal and fitting of fresh water Expansion tank	All material, spares, tools, special equipment tools, accessories etc required or said work are to arrange by the contractor

		a	b	c
		Details of Repair work Required	Details of services Required	Details of Spares Required
11.	Details Scope of Work	<p>a. Remove the expansion tank from the system from ship.</p> <p>b. Replacement of expansion tank as per sample.</p> <p>c. Replace the tank as per sample and tested at 175 psi.</p> <p>d. Fitted the tank union with the system</p> <p>e. Prove the fresh water system for any leakage.</p> <p>f. Expansion tank to be painted as per international color coating.</p> <p>g. All material, spares, tools, special equipment/ tools, accessories etc required for said work are to be arranged by the contractor.</p> <p>h. Requirement of external services, if any will be responsibility of the firm without any liability on the part of ship.</p> <p>j. Repair defective items are same hand over to SS.</p>	<p>Removal and fitting of fresh water Expansion tank.</p> <p>Any damage occurs the course of inspection work will be done by firm without any liability/ responsibility on part of the ship</p>	<p>All material, spares, tools, special equipment tools, accessories etc required or said work are to arrange by the contractor.</p>
12.	Eligibilities	The firm should visit onboard for assessment of existing fitting		
13.	EDC	07 working days		
14.	Warranty	1 Year		
15.	Acceptance Criteria	Successful trials by end user.		

PROCUREMENT OF PILOT LADDER - PMSS DASHT

S No	Description													
1.	Ship's Name	PMSS DASHT												
2.	Parent Equipment	PILOT LADDER												
3.	Make/ Model	PILOT LADDER												
4.	Origin	LOCAL												
5.	Sub Equipment	PILOT LADDER												
6.	Assembly components	PILOT LADDER												
7.	Part No of assembly components	-Length 10 Feet - wooden Foot Step 08 In No -Length foot step 20 Inch - Width of Foot step 06 Inch -Step Thickness 1.51nch - Dia of Nylon Rope 20 mm												
8.	Quantity	01 x Pilot Ladder (07 x Wooden plates connected through Rope, Thimble & shackle)												
9.	Source of availability	Local Contractor												
10.	Justification of work	Deteriorated/ Damaged condition due FWT												
11.	Work Required	<table border="1"> <thead> <tr> <th>a</th> <th>b</th> <th>c</th> <th>d</th> </tr> </thead> <tbody> <tr> <td>Defect/ Routine List</td> <td>Repair Work required</td> <td>Services Required</td> <td>Spares Required</td> </tr> <tr> <td colspan="4">Procurement of 01 x Pilot ladder (08 x Wooden plates connected through Rope, Thimble & shackle)</td> </tr> </tbody> </table>	a	b	c	d	Defect/ Routine List	Repair Work required	Services Required	Spares Required	Procurement of 01 x Pilot ladder (08 x Wooden plates connected through Rope, Thimble & shackle)			
		a	b	c	d									
		Defect/ Routine List	Repair Work required	Services Required	Spares Required									
Procurement of 01 x Pilot ladder (08 x Wooden plates connected through Rope, Thimble & shackle)														
12.	Details Scope of Work	<table border="1"> <thead> <tr> <th>a</th> <th>b</th> <th>c</th> </tr> </thead> <tbody> <tr> <td>Details of Repair work Required</td> <td>Details of services Required</td> <td>Details of Spares Required</td> </tr> <tr> <td colspan="3">Procurement of 01 x Pilot ladder (08 x Wooden plates connected through Rope, Thimble & shackle)</td> </tr> </tbody> </table>	a	b	c	Details of Repair work Required	Details of services Required	Details of Spares Required	Procurement of 01 x Pilot ladder (08 x Wooden plates connected through Rope, Thimble & shackle)					
		a	b	c										
		Details of Repair work Required	Details of services Required	Details of Spares Required										
Procurement of 01 x Pilot ladder (08 x Wooden plates connected through Rope, Thimble & shackle)														
13.	Technical Specs	As Prescribed by Ships Staff												
14.	Eligibilities	Reputable Local Contractor Having Working Experience in PMSA												
15.	EDC	ASAP												
16.	Warranty	a. 03 x Years warranty after satisfactory trials/test. b. Material will be reported if deformity or wears is developed during warranty period												
17.	Acceptance Criteria	As per IT Specification												
18.	Any other relevant information	a. Damage/ defect to item during work will be responsibility of contractor. b. Contractor must visit onboard to check dimensions of Pilot Ladder												

FABRICATION ALONG WITH INSTALLATION OF SSDG 1, 2 & 3 SEA WATER COOLING LINES - PMSS NUSRAT

S No	Description													
1.	Ship's Name	PMSS NUSRAT												
2.	Parent Equipment	SSDGs (1,2 & 3)												
3.	Origin	China												
4.	Sub Equipment	Sea Water Cooling System												
5.	Assembly components	Sea Water Cooling Lines												
6.	Quantity	06 x lines												
7.	Justification of work	Sea Water lines of SSDGs degraded due to FWT over the time period. Replacement and pressure testing required for sat ops												
8.	Work Required	<table border="1"> <thead> <tr> <th>a</th> <th>b</th> <th>c</th> <th>d</th> </tr> </thead> <tbody> <tr> <td>Defect/ Routine List</td> <td>Repair Work required</td> <td>Services Required</td> <td>Spares Required</td> </tr> <tr> <td>Sea Water lines of SSDGs degraded due to FWT over the time period. Replacement and pressure testing required for sat ops</td> <td>Sea Water lines of SSDGs degraded due to FWT over the time period. Replacement and pressure testing required for sat ops</td> <td>See details S.No 09 Column B</td> <td>a. Dia 2-inch Length 60 feet Brass material with flanges. b. Stainless Steel Nut Bolts as per requirement</td> </tr> </tbody> </table>	a	b	c	d	Defect/ Routine List	Repair Work required	Services Required	Spares Required	Sea Water lines of SSDGs degraded due to FWT over the time period. Replacement and pressure testing required for sat ops	Sea Water lines of SSDGs degraded due to FWT over the time period. Replacement and pressure testing required for sat ops	See details S.No 09 Column B	a. Dia 2-inch Length 60 feet Brass material with flanges. b. Stainless Steel Nut Bolts as per requirement
		a	b	c	d									
Defect/ Routine List	Repair Work required	Services Required	Spares Required											
Sea Water lines of SSDGs degraded due to FWT over the time period. Replacement and pressure testing required for sat ops	Sea Water lines of SSDGs degraded due to FWT over the time period. Replacement and pressure testing required for sat ops	See details S.No 09 Column B	a. Dia 2-inch Length 60 feet Brass material with flanges. b. Stainless Steel Nut Bolts as per requirement											
9.	Details Scope of Work	<table border="1"> <thead> <tr> <th>a</th> <th>b</th> <th>c</th> </tr> </thead> <tbody> <tr> <td>Details of Repair work Required</td> <td>Details of services Required</td> <td>Details of Spares Required</td> </tr> <tr> <td>Sea Water lines of SSDGs degraded due to FWT over the time period: Replacement and pressure testing required for sat ops</td> <td>a. All SSDGs sea water lines (dia 2", length 60') replacement and pressure testing required. b. All lines are to be removed and pressure testing to be carried out. c. Defective lines are to be dismantled/ removed. d. New lines are to be made as per sample and fitted back e. Special tools and are to be arrange by the firm for dismantling and fitting of said coupling f. The firm will be responsible to undertake any work not covered above to ensure good quality of work. g. The firm will be</td> <td>a. Dia 2-inch Length 60 feet Brass material with flanges b. Stainless Steel Nut Bolts as per requirement</td> </tr> </tbody> </table>	a	b	c	Details of Repair work Required	Details of services Required	Details of Spares Required	Sea Water lines of SSDGs degraded due to FWT over the time period: Replacement and pressure testing required for sat ops	a. All SSDGs sea water lines (dia 2", length 60') replacement and pressure testing required. b. All lines are to be removed and pressure testing to be carried out. c. Defective lines are to be dismantled/ removed. d. New lines are to be made as per sample and fitted back e. Special tools and are to be arrange by the firm for dismantling and fitting of said coupling f. The firm will be responsible to undertake any work not covered above to ensure good quality of work. g. The firm will be	a. Dia 2-inch Length 60 feet Brass material with flanges b. Stainless Steel Nut Bolts as per requirement			
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		<p>responsible for welding/ cutting, if required.</p> <p>h. The firm will be responsible for requirement of external services</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 Specs	As per scope of work	
11.	Eligibilities	<p>a. The firm should visit onboard and carry out inspection to establish the extent of required work and item</p> <p>b. The firm should having good experience of the same kind of work required onboard</p> <p>a. The firm should be NTN/GTN registered</p>	
12.	EDC	02 x week after issuance of work/ confirmation order	
13.	Warranty	01 year from the date of acceptance	
14.	Acceptance Criteria	<p>a. Satisfactory work done by the firm</p> <p>b. Satisfactory HATs of SSDGs</p> <p>c. Practical acceptance by SS</p>	

IT NO: IT/87/43/2025-26

REPLACEMENT OF RUBSTRAKE RUBBER FENDER LINE & COLLAR OF FRB-153 - PMSA BASE GWADAR

S No	Description			
1.	Ship's Name	PMSS NAZIM/ PMSA BASE GWADAR		
2.	Parent Equipment	Replacement of rubstrake/ rubber fender line and color of FRB-153		
3.	Quantity	01		
4.	Justification of work	Presently, FRB-153 is in ops condition, however; the rubstrake/ rubber fender line and collar is deteriorated and unable to repair which cause cork severally damage of boat while securing alongside jetty or boat as well as during boarding ops in sea/ rough weather. Therefore, rubstrake/ rubber fender line & collar is required to be replaced.		
5.	Work Required	Following items/ parts are required to be replace with new		
		S No	Description	Remarks
		a.	Ruberstrake/ ruber fender line and collar	
6.	Details Scope of Work	Presently, FRB-153 is in ops condition with defect mentioned in para 15. The same is required to be replaced for smooth operation of said asset		
7.	Technical Specs	Overall length of boat = 13.4 meter Beam of boat = 4.3 meter		
8.	Eligibilities	Any local/ international well reputed firm having experience of said work. Firm must visit and physically inspect the work site.		
9.	EDC	30 days		
10.	Warranty	01 year		
11.	Acceptance Criteria	Inspection by end user and successful completion of work		

**REPAIR/ MAINTENANCE OF EXHAUST MUSHROOM HEADS & AIR INTAKE SPACES -
PMSS REHMAT**

S No	Description									
1.	Ship's Name	PMSS REHMAT								
2.	Parent Equipment	Exhaust and Ventilation System								
3.	OEM	China								
4.	Make/ Model	Local								
5.	Origin	Pakistan Assembled								
6.	Sub Equipment	Exhaust Mushroom heads and air intakes								
7.	Assembly components	Ventilation System								
8.	Quantity	10 x Mushroom Heads and 04 x Air Intakes (ASP, EVAC, FER, AEF and Armoury)								
9.	Source of availability	Local Market								
10.	Justification of work	Exhaust Mushroom heads and air intake spaces along with trunkinc are observed deteriorated due FWT.								
11.	Work Required	<table border="1"> <thead> <tr> <th>a Defect/ Routine List</th> <th>b Repair Work required</th> <th>c Services Required</th> <th>d Spares Required</th> </tr> </thead> <tbody> <tr> <td>Work requisition ME-16/26 dated 03 - 03-2026 was forwarded to BMG and same was outsourced.</td> <td>10 x Exhaust Mushroom heads along with trunking repaired/ welding work required 04 x air intake spaced along with trunking repaired/ welding work required.</td> <td> a. Removal of old 10 x exhaust mushroom head and installation of 10 x exhaust mushroom head after repaired/ fabrication. b. Removal of old 04 x Air Intake space Trunking and installation of 04 x air intake trunking after repaired/ fabrication. c. Removal of old 10 x exhaust mushroom head Trunking and installation of 10 x exhaust mushroom head trunking after repaired/ fabrication. d. Removal of old 10 x exhaust mushroom heads wire net and installation of new fabricated wire net/ wire meshed. e. Removal of old 10 x exhaust heads mushroom wheel and installation of new/ repaired wheel </td> <td> a. 16 x Carbon steel nuts and bolts each. b. Instrument black paint work. c. SS Wire net for exhaust mushroom heads as per sample to be welded. d. SS Wire net for air intake spaces as per sample. e. 14 x Marine version rubber seal as per sample. </td> </tr> </tbody> </table>	a Defect/ Routine List	b Repair Work required	c Services Required	d Spares Required	Work requisition ME-16/26 dated 03 - 03-2026 was forwarded to BMG and same was outsourced.	10 x Exhaust Mushroom heads along with trunking repaired/ welding work required 04 x air intake spaced along with trunking repaired/ welding work required.	a. Removal of old 10 x exhaust mushroom head and installation of 10 x exhaust mushroom head after repaired/ fabrication. b. Removal of old 04 x Air Intake space Trunking and installation of 04 x air intake trunking after repaired/ fabrication. c. Removal of old 10 x exhaust mushroom head Trunking and installation of 10 x exhaust mushroom head trunking after repaired/ fabrication. d. Removal of old 10 x exhaust mushroom heads wire net and installation of new fabricated wire net/ wire meshed. e. Removal of old 10 x exhaust heads mushroom wheel and installation of new/ repaired wheel	a. 16 x Carbon steel nuts and bolts each. b. Instrument black paint work. c. SS Wire net for exhaust mushroom heads as per sample to be welded. d. SS Wire net for air intake spaces as per sample. e. 14 x Marine version rubber seal as per sample.
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10 x exhaust head mushroom Trunking are to be repaired/ fabricated for safe operation.																
04 x Air Intake space Trunking are to be repaired/ fabricated for safe operation.																
13.	Technical Specs	SS/Aluminium trunking/ Mashroom														
14.	Eligibilities	a. The firm must visit onboard and carry out diagnosis/ inspections to establish the extent of required work. b. Firms not undertaking the visit onboard ship to see extent of work will not technically qualify. c. The firm must have sufficient experience of same kind of work.														
15.	EDC	20 x days after issuance of work/ confirmation order.														
16.	Warranty	01 x Year.														
17.	Acceptance Criteria	a. SS/ Aluminium trunking/ Mashroom head b. Smooth/ noiseless operation of exhaust mushroom head and air intake spaces. c. Acceptance by SS.														

REPAIR/ MAINTENANCE OF STEERING MOTOR NO 2 - PMSS ZHOB

S No	Description													
1.	Ship's Name	PMSS ZHOB												
2.	Parent Equipment	Steering system												
3.	OEM	Wuhan Mekand Equipment Co, Ltd												
4.	Make/ Model	MS132M-4												
5.	Origin	China												
6.	Sub Equipment	Steering motor No 2												
7.	Assembly components	Steering motor No 2												
8.	Part No of assembly components	MS132M-4												
9.	Quantity	01												
10.	Source of availability	Wuhan Mekand Equipment Co ,Ltd												
11.	Justification of work	Upon inspection steering motor no 2 of steering system performance degraded												
12.	Work Required	<table border="1"> <thead> <tr> <th align="center">a</th> <th align="center">b</th> <th align="center">c</th> <th align="center">d</th> </tr> </thead> <tbody> <tr> <td align="center">Defect/ Routine List</td> <td align="center">Repair Work required</td> <td align="center">Services Required</td> <td align="center">Spares Required</td> </tr> <tr> <td align="center">N/A</td> <td>Repair/ maintenance of steering motor no 2 by local engineering house.</td> <td>As per Serial 13 Column b.</td> <td>As pei Serial 13 Column c.</td> </tr> </tbody> </table>	a	b	c	d	Defect/ Routine List	Repair Work required	Services Required	Spares Required	N/A	Repair/ maintenance of steering motor no 2 by local engineering house.	As per Serial 13 Column b.	As pei Serial 13 Column c.
		a	b	c	d									
		Defect/ Routine List	Repair Work required	Services Required	Spares Required									
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13.	Details Scope of Work													
14.	Technical Specs	As per OEM manual specs												

15.	Eligibilities	a. Reputable local contractor having working experience of hydraulic system related activity in PMSA. b. Local contractor must visit ship to understand the requirement/ scope of work
16.	EDC	7 Days
17.	Warranty	2 Year warranty for all mentioned works
18.	Acceptance Criteria	a. Satisfactory harbour trials followed by successful sea trial of steering motor on rated parameters
19.	Any other relevant information	Growth work, Damage/ defect occurred during work is responsibility of contractor.

IT NO: IT/87/46/2025-26

SERVICING/ OVERHAULING OF DONKEY PUMP AND SUBMERSIBLE DE-FLOODING PUMP WITH REWINDING OF MOTORS - PMSS BARKAT

S No	Description									
1.	Ship's Name	PMSS BARKAT								
2.	Parent Equipment	Misc Electrical Equipment								
3.	OEM	Any Local Vender								
4.	Origin	Local								
5.	Sub Equipment	a. Donkey Pump with Motor b. Submersible De-flooding Pump								
6.	Assembly components	a. Donkey Pump b. Motor of Donkey pump c. Submersible De-Flooding Pump d. Motor of Submersible De-flooding Pump								
7.	Quantity	01 x Donkey Pump with Motor 01 x Submersible De-flooding Pump								
8.	Source of availability	Local Market								
9.	Justification of work	During normal operation donkey pump and submersible de-flooding pump malfunctioning								
10.	Work Required	a		b		c		d		
		Defect/ Routine List		Repair Work required		Services Required		Spares Required		
		During normal operation donkey pump and submersible de-flooding pump malfunctioning		Complete servicing/overhauling of pumps and rewinding of motors is required for sat operation of pumps		As per Serial 11 Column b.		As pei Serial 11 Column c.		
11.	Details Scope of Work	Details of Serial 11 Column a, b & c								
		a			b			c		
		Details of Repair work Required			Details of services Required			Details of Spares Required		
		a.	Servicing/ overhauling of donkey pump		Replacement of valve plate, valve kit, boki set, gaskets, bearing, gland packing, seals and degraded shafts			As required while servicing and overhauling the pump		
		b.	Rewinding of donkey pump motor		Removal of donkey pump motor, rewinding of motor			Winding Wire for rewinding of motor		
		c.	Servicing/ overhauling of submersible de-flooding pump, rewinding of motor and replacement of mechanical seal		Removal of submersible de-flooding pump motor, rewinding of motor, overhauling of pump and replacement of mechanical seals			Mechanical seals and Winding wire for rewinding of motor		
		d.	Requirement of external services, if required will be responsibility of firm							
		e.	All spares (must be genuine) tools special equipment /accessories required for said Repair/ Maintenance are to be arranged by the firm							
		f.	Any damage/ defect/ wear tear occurred during course of removal; repair and installation of system/ equipment will be met by firm							
		g.	The firm will be responsible for all removal, transportation and installation work during warranty/ grantee periods claims in case of any rework							

12.	Technical Specs	a. Donkey Pump Motor 220V AC (1 KW) b. Submersible De-flooding Pump Motor 220V AC (0.3 KW)
13.	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 and experience c. The firm should be NTN /GST registered
14.	EDC	07 x Days after issuance of work/ confirmation order
15.	Warranty	01 Year
16.	Acceptance Criteria	b. Satisfactory work done by the firm. c. Successful completion and acceptance by the end user d. Satisfactory trials
17.	Any other relevant information	Quality material is to be used.

IT NO: IT/87/47/2025-26

PROCUREMENT OF SHORE SUPPLY CABLE - PMSS HINGOL

S No	Description								
1.	Ship's Name	PMSS HINGOL							
2.	Parent Equipment	Shore Power Supply System.							
3.	Assembly components	Shore Supply Cable.							
4.	Part No of assembly components	NSN NO (0561595218492)							
5.	Quantity	200 Metter.							
6.	Source of availability	Local Engineering Houses.							
7.	Justification of work	Shore supply cable degraded and declared as BER/ Unserviceable.							
8.	Work Required	a		b		c		d	
		Defect/ Routine List		Repair Work required		Services Required		Spares Required	
		Shore supply cable degraded and declared as BER/ Unserviceable.		Requirement of 200 meter 70mm ² (4 core) electric cable.		Requirement of 200 meter 70mm ² (4 core) electric cable.		200 meter 70mm ² (4 core) electric cable	
9.	Details Scope of Work	a		b		c			
		Details of Repair work Required		Details of services Required		Details of Spares Required			
		Requirement of 200 meter 70mm ² (4 core) electric cable.		Requirement of 200 meter 70mm ² (4 core) electric cable.		200 meter 70mm ² (4 core) electric cable			
10.	Technical Specs	70mm ² (4 core) electric cable							
11.	Eligibilities	a. Any registered and security wise cleared local contractor who has working experience shore supply system.							
12.	EDC	07 Days							
13.	Warranty	One year warranty after satisfactory test / trails w.r.t:							
		a. Satisfactory load trails of shore supply cable up to 400A load. b. Satisfactory load trails of shore cable without increasing of cable temperature. c. Satisfactory load trails of shore cable without any insulation problem. d. Any defect/ degradation in shore cable performance will be rectified/ replace by the firm during warranty period. e. if any other material found instead of caper material, cable will be replace by the firm during warranty period.							
14.	Acceptance Criteria	a. Satisfactory load trails of shore supply cable up to 400A load. b. Satisfactory load trails of shore cable without increasing of cable temperature. c. Satisfactory load trails of shore cable without any insulation problem. d. Only pure caper material will be acceptable.							

CONDUCT OF PMS ROUTINE (OVERHAULING OF ELECTRICAL MOTORS) - PMSS BARKAT

S No	Description																													
1.	Ship's Name	PMSS BARKAT																												
2.	Parent Equipment	Electrical Motors (AC)																												
3.	OEM	Any Local Vender																												
4.	Make/ Model	As per Serial 10																												
5.	Origin	China																												
6.	Sub Equipment	08 x Electrical Motors																												
7.	Quantity	<table border="1"> <thead> <tr> <th>S No</th> <th>Motor Description</th> <th>Model</th> <th>Qty</th> <th>Power</th> </tr> </thead> <tbody> <tr> <td>c.</td> <td>Fire Main Pump Motors</td> <td>N/A</td> <td>02</td> <td>15 KW</td> </tr> <tr> <td>d.</td> <td>Fresh Water Pump Motors</td> <td>Y901-2-H</td> <td>03</td> <td>2.2 KW</td> </tr> <tr> <td>e.</td> <td>Fuel Transfer Pump Motors</td> <td>Y82S1-2-H</td> <td>02</td> <td>5.5 KW</td> </tr> <tr> <td>f.</td> <td>Sea Crane Motor</td> <td>N/A</td> <td>01</td> <td>15 KW</td> </tr> </tbody> </table>	S No	Motor Description	Model	Qty	Power	c.	Fire Main Pump Motors	N/A	02	15 KW	d.	Fresh Water Pump Motors	Y901-2-H	03	2.2 KW	e.	Fuel Transfer Pump Motors	Y82S1-2-H	02	5.5 KW	f.	Sea Crane Motor	N/A	01	15 KW			
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f.	Sea Crane Motor	N/A	01	15 KW																										
8.	Source of availability	Local Market																												
9.	Justification of work	Conduct of PMS Routine is required for safe and smooth operation of electrical motors. (PMS No: 5-3101-0000) (MOP No: 007) (Description: Overhaul the Electrical Motor)																												
10.	Work Required	<table border="1"> <thead> <tr> <th>a</th> <th>b</th> <th>c</th> <th>d</th> </tr> <tr> <th>Defect/ Routine List</th> <th>Repair Work required</th> <th>Services Required</th> <th>Spares Required</th> </tr> </thead> <tbody> <tr> <td>Conduct of PMS Routine is required for safe and smooth operation of electrical motors</td> <td>Overhauling of 08 x electrical motors including replacement of bearings</td> <td>As per Serial 11 Column b.</td> <td>As per Serial 11 Column c.</td> </tr> </tbody> </table>	a	b	c	d	Defect/ Routine List	Repair Work required	Services Required	Spares Required	Conduct of PMS Routine is required for safe and smooth operation of electrical motors	Overhauling of 08 x electrical motors including replacement of bearings	As per Serial 11 Column b.	As per Serial 11 Column c.																
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Defect/ Routine List	Repair Work required	Services Required	Spares Required																											
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11.	Details Scope of Work	<table border="1"> <thead> <tr> <th colspan="2">a</th> <th>b</th> <th>c</th> </tr> <tr> <th colspan="2">Details of Repair work Required</th> <th>Details of services Required</th> <th>Details of Spares Required</th> </tr> </thead> <tbody> <tr> <td>a.</td> <td>Overhauling of 08 x electrical motors</td> <td>Dismantling of motors from pumps, overhauling (new varnish processed through oven)</td> <td>Varnish as required for 08 x motors</td> </tr> <tr> <td>b.</td> <td>Replacement of motor bearings</td> <td>Removal of existing bearings of 08 x motors and installation of new bearings</td> <td>16 x bearings as per existing type and size</td> </tr> <tr> <td>c.</td> <td>Renewal of motor connection box</td> <td>Replacement of rubber seal and connection terminal insulator plate if degraded/ defective</td> <td>Rubber seals and connection terminal insulator plates as required while servicing</td> </tr> <tr> <td>d.</td> <td>Renewal of motor body paint</td> <td>Removal of existing degraded paint of 08 x motors and application of new instrument paint</td> <td>Instrument paint as required for 08 x motors</td> </tr> <tr> <td>e.</td> <td>Modification of 02 x fire main</td> <td>Modification of fire main pump DOL starter to</td> <td>06 x magnetic contactors 02 x timers</td> </tr> </tbody> </table>	a		b	c	Details of Repair work Required		Details of services Required	Details of Spares Required	a.	Overhauling of 08 x electrical motors	Dismantling of motors from pumps, overhauling (new varnish processed through oven)	Varnish as required for 08 x motors	b.	Replacement of motor bearings	Removal of existing bearings of 08 x motors and installation of new bearings	16 x bearings as per existing type and size	c.	Renewal of motor connection box	Replacement of rubber seal and connection terminal insulator plate if degraded/ defective	Rubber seals and connection terminal insulator plates as required while servicing	d.	Renewal of motor body paint	Removal of existing degraded paint of 08 x motors and application of new instrument paint	Instrument paint as required for 08 x motors	e.	Modification of 02 x fire main	Modification of fire main pump DOL starter to	06 x magnetic contactors 02 x timers
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			pump starter	STAR/ DELTA starter	
		f.	Replacement of power cable	Replacement of power cable from starter to motor	06 x meters 10mm- 3 core 08 x meters 03 mm-3 core
		g.	Re-fitting of motors is to be carried out by using SS nuts & bolts		
		h.	All connections must be tightened properly		
		i.	The firm will be responsible of welding/ cutting and external services if required		
		j.	All spares (must be genuine) tools special equipment /accessories required for said Repair/ Maintenance are to be arranged by the firm		
		k.	The firm will be responsible for all removal, transportation and installation work during warranty/ grantee periods claims in case of any rework		
12.	Technical Specs	400V-AC, 3 Phase, 50 Hz			
13.	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 and experienced. c. The firm should be NTN /GST registered			
14.	EDC	30 x days after issuance of work/ confirmation order			
15.	Warranty	01 Year			
16.	Acceptance Criteria	a. Successful completion and acceptance by the end user. b. Satisfactory trials			
17.	Any other relevant information	Quality material is to be used			

REQUIREMENT OF WELDING CUTTING WORK INCLUDING NDT - PMSS REHMAT

S No	Description													
1.	Ship's Name	PMSS REHMAT												
2.	Parent Equipment	Ship Structure												
3.	OEM	China												
4.	Origin	China												
5.	Sub Equipment	Capstan Controller, Floodlight base and Ship structure												
6.	Assembly components	Capstan Controller, Floodlight base and Ship structure												
7.	Quantity	12 x Different places welding/ cutting work												
8.	Source of availability	Local Market												
9.	Justification of work	01 X Capstan Controller box/ base, 04 x flood light base and 07 x FF extinguisher/ AFFF cane stowage base become damaged/ defective due rough weather and FWT												
10.	Work Required	<table border="1"> <thead> <tr> <th align="center">a</th> <th align="center">b</th> <th align="center">c</th> <th align="center">d</th> </tr> <tr> <th align="center">Defect/ Routine List</th> <th align="center">Repair Work required</th> <th align="center">Services Required</th> <th align="center">Spares Required</th> </tr> </thead> <tbody> <tr> <td>Work requisition ME-03/26 dated 28-0126 was forwarded to BMG and same was outsourced.</td> <td>Fabrication of capstan motor controller box including base. Welding/ Cutting work on 04 x Flood light base, 07 x FF extinguishers/ AFFF cane stowage base</td> <td>Removal of old capstan controller panel box/ base and installation of new fabricated panel box/ base. Removal of old flood light base, FF extinguishers /AFFF cane stowage base and installation of new bases. NDT of all new welded bases to be <u>carried out.</u></td> <td>01 x capstan controller fabricated SS material box. 01 x controller panel fabricated SS material base. 04 x flood light base. 07 x FF extinguishers /AFFF cane stowage base welding work</td> </tr> </tbody> </table>	a	b	c	d	Defect/ Routine List	Repair Work required	Services Required	Spares Required	Work requisition ME-03/26 dated 28-0126 was forwarded to BMG and same was outsourced.	Fabrication of capstan motor controller box including base. Welding/ Cutting work on 04 x Flood light base, 07 x FF extinguishers/ AFFF cane stowage base	Removal of old capstan controller panel box/ base and installation of new fabricated panel box/ base. Removal of old flood light base, FF extinguishers /AFFF cane stowage base and installation of new bases. NDT of all new welded bases to be <u>carried out.</u>	01 x capstan controller fabricated SS material box. 01 x controller panel fabricated SS material base. 04 x flood light base. 07 x FF extinguishers /AFFF cane stowage base welding work
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		a	b	c
		Details of Repair work Required	Details of services Required	Details of Spares Required
11.	Details Scope of Work	<p>Fabrication of capstan motor controller box including base.</p> <p>Welding/ Cutting work on 04 x Flood light base, 07 x FF extinguishers/ AFFF cane stowage base</p>	<p>a. All spares, special equipment / tools, accessories etc for welding/ cutting work/ installation for said work to be arranged by the firm.</p> <p>b. Any damage /in way removal/ defect/ wear tear occurs during the course of removal and installation of new fabricated bases are to be repaired/ met by firm.</p> <p>c. Requirement of external services, if required will be responsibilities of firm.</p>	<p>01 x capstan controller fabricated SS material box.</p> <p>01 x controller panel fabricated SS material base 04 x flood light base.</p> <p>07 x FF extinguishers/ AFFF cane stowage base welding work</p>
12.	Technical Specs	SS Material for fabrication of new bases NDT certification by firm		
13.	Eligibilities	<p>a. Carried out welding/ cutting and fabrication work of PMSS Corvettes.</p> <p>b. Income tax registered.</p> <p>c. Sales tax registered.</p> <p>d. Firm is required to visit onboard ship.</p>		
14.	EDC	07 x days after issuance of work/ confirmation order.		
15.	Warranty	01 x Year to be started after completion of work.		
16.	Acceptance Criteria	<p>a. NDT certification by firm.</p> <p>b. Acceptance by SS</p>		

IT NO: IT/87/50/2025-26

PROCUREMENT OF ELECTRICAL ACCESSORIES - EASTERN WING/ FRBS

S No	Description																																																																		
1.	Ship's Name	EASTERN WING/ FRBs																																																																	
2.	Parent Equipment	Power Distribution System																																																																	
3.	Origin	Pakistan																																																																	
4.	Sub Equipment	Switch Board/ Electrical panel																																																																	
5.	Quantity	As mentioned at S No 9																																																																	
6.	Source of availability	Any suitable																																																																	
7.	Justification of work	Procurement of electrical accessories/ equipment to restore power and distribution system for operationalization of subject Boats.																																																																	
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10.	Technical Specs	S No	item Description	Qty Req
		a.	3-Bar Police Light (12 VDC)	05
		b.	Rocker Switch (Carling) (with fitting sheet)	36
		c.	Switch Panel Sheet/ Box (as per sample)	02
		d.	DC Voltmeter	05
		e.	DC Breaker Schneider 150A (2Pole with base)	04
		f.	Search Light (12 VDC)	04
		g.	Navigation Lights (Port & Stbd with cable)	06 Pair
		h.	Cabin Light (12VDC) (as per sample)	12
		j.	Bilge Pump (12VDC)	04
11.	Eligibilities	Any well-known national/ international firm having good experience for procurement of electrical equipment and associated accessories (IP67)		
12.	EDC	15 days		
13.	Warranty	One year after installation and successful trials onboard		
14.	Acceptance Criteria	Physical inspection of all parts by end user after installation onboard and trials for satisfactory performance:		
15.	Any other relevant information	a. Installation/ Replacement of Marine Grade spares/ accessories are to ensured by contracted firm. b. Dismantling and re-installation of in-way accessories is responsibility of the firm. c. Any breakage/ material failure during dismantling/ installation will be lies with the firm.		

IT NO: IT/87/51/2025-26

**PROCUREMENT OF PLANTS & MACHINERY ITEMS SENSORS & SWITCHES OF
GENSETS & MARINE LIGHT WATER CHILLER - PMSS ZHOB**

S No	Description								
1.	Ship's Name	PMSS ZHOB							
2.	Parent Equipment	Gensets JTLS-168(IV) Marine Light Water Chiller							
3.	OEM	Caterpillar Jiangsu Josun							
4.	Make/ Model	C9 ZR-190KCE-TFD							
5.	Origin	Caterpillar Copeland							
6.	Sub Equipment	Sensor and switches							
7.	Assembly components	Sensor and switches							
8.	Part No of assembly components	Coolant level switch	Part No: EL150K1						
		Engine oil pressure sensor MBS-5151	Part No: 060N1072						
		Jacket water temperature switch MBC-8100	Part No: 2431-2A02000						
		Fuel pressure sensor MBS-3100	Part No: 060G1369						
		Fuel differential pressure control sensor MBS-3158	Part No: 2031-2BD04						
		Coolant pressure transmitter MBS-5100	Part No: 060N1068						
		Lub oil filter differential pressure sensor MBS-5180	Part No: 2031-2DB04						
		Low Lub oil Pressure Switch MBS 5100	Part No:1411-2DB04						
		Temperature sensor	Part No: 288-3636						
		Pressure switch	Part No: 03.09.06.009						
		Pressure switch	Part No: 03.09.06.025						
		Temperature sensor	Part No: 03.10.01.018						
9.	Quantity	Coolant level switch	3 x No						
		Engine oil pressure sensor MBS-5151	3 x No						
		Jacket water temperature switch MBC-8100	3 x No						
		Fuel pressure sensor MBS-3100	3 x No						
		Fuel differential pressure control sensor MBS-3158	3 x No						
		Coolant pressure transmitter MBS-5100	3 x No						
		Lub oil filter differential pressure sensor MBS-5180	3 x No						
		Low Lub oil Pressure Switch MBS 5100	3 x No						
		Temperature sensor	3 x No						
		Pressure switch	4 x No						
		Pressure switch	4 x No						
		Temperature sensor	4 x No						
10.	Source of availability	Allied Engineering and Services (Pvt) Ltd Jiangsu Josun Air Conditioner Co. Ltd							
11.	Justification of work	Sensors and switches are required for repair/ replacement of machinery to carry out maintenance.							
12.	Work Required	a		b		c		d	
		Defect/ Routine List		Repair Work required		Services Required		Spares Required	
		N/A		Procure/ purchase machinery sensors and switches through OEM/ local sources		See detail S No 13 Column b		See detail S No 13 Column b	

		Details of Serial 13 Column a, b & c		
		a	b	c
		Details of Repair work Required	Details of services Required	Details of Spares Required
13.	Details Scope of Work	Procure/ purchase machinery sensors and switches through OEM/ local sources	Procure/ purchase machinery sensors and switches through OEM/ local sources	Coolant level switch Part No: EL150K1 Engine oil pressure sensor MBS-5151 Part No: 060N1072 Jacket water temperature switch MBC-8100 Part No: 2431-2A02000 Fuel pressure sensor MBS-3100 Part No: 060G1369 Fuel differential pressure control sensor Part No: 2031-2BD04 MBS-3158 Coolant pressure transmitter MBS-5100 Part No: 060N1068 Lub oil filter differential pressure sensor Part No: 2031-2DB04 MBS-5180 Low Lub oil Pressure Switch MBS 5100 Part No: 1411-2DB04 Temperature sensor Part No: 288-3636 Pressure switch Part No: 03.09.06.009 Pressure switch Part No: 03.09.06.025 Temperature sensor Part No: 03.10.01.018
14.	Technical Specs	As per OEM Manual/ Specs		
15.	Eligibilities	Suitable contractor having working experience on Electronics/ Electrical equipment.		
16.	EDC	5 Days		
17.	Warranty	2 Year		
18.	Acceptance Criteria	a. OEM recommended spares/ parts. b. Certified spares to be used for avoiding damage to system and ship.		
19.	Any other relevant information	a. Defect diagnosis if requires switching/ swapping of known good onboard spare(s)/ module(s), then respective system will be restored without any defect/ as per existing condition. b. In case of damage/ defect in system or other associated systems/ fittings/ installation of sensors due to negligence of contractor, same is to be rectified by contractor free of cost.		

REPLACEMENT OF FUEL LINES - PMSS NUSRAT

S No	Description			
1.	Ship's Name	PMSS NUSRAT		
2.	Parent Equipment	Fuel system		
3.	Sub Equipment	Fuel lines		
4.	Assembly components	Fuel lines		
5.	Quantity	09 lines		
6.	Justification of work	Said Lines are leaky and FWT.with the passage of time		
7.	Work Required	a	b	c
		Defect/ Routine List	Repair Work required	Services Required
		Said Lines are leaky and FWT with the passage of time	Replacement and pressure testing of lines required for sat ops	See detail S No 08 Column b

		a	b	c
		Details of Repair work Required	Details of services Required	Details of Spares Required
8.	Details Scope of Work	Replacement and pressure testing of lines required for sat ops	<p>a. Following lines are to be dismantled.</p> <p>i. Fuel return line of main engines (ASME & FPME) (Dia 1.5", length 5'each)</p> <p>ii. SSDG No 1 and SSDG No 2 fuel return line dia 1", length 8'.</p> <p>iii. Fuelling line Dia 3", length 15')</p> <p>iv. De-fuelling line (Dia 2", length 5').</p> <p>v. FWD fuel tank filling line (Dia 3", length 20').</p> <p>vi. FWD fuel tank supply line (Dia 2", length 8').</p> <p>vii. Fuel pump suction lines (Dia 3", length 15')</p> <p>b. Above mentioned lines are to be made new.</p> <p>c. New lines are to be fitted.</p> <p>d. Special tools and spares are to be arrange by the firm for said work.</p> <p>e. The firm will be responsible to undertake any work not covered above to ensure good quality of work.</p> <p>f. The firm will be responsible for welding/ cutting, if required.</p> <p>g. The firm will be responsible for requirement of external services.</p> <p>h. 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>	<p>a. New SS lines as per requirement</p> <p>b. SS nut and bolts</p>
9.	Technical Specs	As per scope of work		

10.	Eligibilities	<p>a. The firm should visit onboard and carry out inspection to establish the extent of required work and spares</p> <p>b. The firm should have good experience of the same kind of work required onboard</p> <p>c. The firm should be NTN/GTN registered</p>
11.	EDC	14 days after issuance of work/ confirmation order
12.	Warranty	01 year from the date of acceptance
13.	Acceptance Criteria	Satisfactory work done by the firm b. Practical acceptance by SS

IT NO: IT/87/53/2025-26

**PROCUREMENT INSTALLATION OF 01 X FIREWALL FOR E-OFFICE AND INTERNET - HQ
PMSA**

S No	Description																					
1.	Ship's Name	HQ PMSA/ Internet/e-Office Services																				
2.	Parent Equipment	Firewall																				
3.	OEM	Fortinet																				
4.	Make/ Model	Fortinet Firewall 70/80/90 series																				
5.	Origin	USA																				
6.	Sub Equipment	Firewall Installation																				
7.	Assembly components	Complete Software feature with 2x years subscription package																				
8.	Quantity	1 x hardware and complete software with subscription																				
9.	Source of availability	Through Open Tender																				
10.	Justification of work	Firewall installation is essentially required for e-Office and internet services as per DIT MOD instructions																				
11.	Work Required	<table border="1"> <thead> <tr> <th>a</th> <th>b</th> <th>c</th> <th>d</th> </tr> <tr> <th>Defect/ Routine List</th> <th>Repair Work required</th> <th>Services Required</th> <th>Spares Required</th> </tr> </thead> <tbody> <tr> <td align="center">-</td> <td>New installation</td> <td>Complete installation</td> <td align="center">-</td> </tr> </tbody> </table>	a	b	c	d	Defect/ Routine List	Repair Work required	Services Required	Spares Required	-	New installation	Complete installation	-								
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12.	Technical Specs	<p>Installation/ Configuration of Firewall</p> <table border="1"> <tbody> <tr> <td>Model</td> <td>Fortinet Firewall 70/80/90 <u>Series</u></td> </tr> <tr> <td>Through put</td> <td>5 to 10 GB (30 users)</td> </tr> <tr> <td>Ports</td> <td>Console RJ45/USB, 2GE SFP, 8GE RJ45</td> </tr> <tr> <td>Storage</td> <td>64GB to 128GB</td> </tr> <tr> <td>Subscription</td> <td>One or Three years</td> </tr> <tr> <td>Malware detection</td> <td>Complete malware and incoming cyber threat detection</td> </tr> <tr> <td>Antivirus</td> <td>Required</td> </tr> <tr> <td>Server for public IP</td> <td>Local public IP server protection for external cyber threats</td> </tr> <tr> <td>PPPOE/ VPN Configuration</td> <td>Configuration of PPPOE and VPN service through NTC locally through separate IP Pool</td> </tr> <tr> <td>Installation/ Configuration</td> <td>Installation of Firewall and complete configuration role implementation with antivirus subscription</td> </tr> </tbody> </table>	Model	Fortinet Firewall 70/80/90 <u>Series</u>	Through put	5 to 10 GB (30 users)	Ports	Console RJ45/USB, 2GE SFP, 8GE RJ45	Storage	64GB to 128GB	Subscription	One or Three years	Malware detection	Complete malware and incoming cyber threat detection	Antivirus	Required	Server for public IP	Local public IP server protection for external cyber threats	PPPOE/ VPN Configuration	Configuration of PPPOE and VPN service through NTC locally through separate IP Pool	Installation/ Configuration	Installation of Firewall and complete configuration role implementation with antivirus subscription
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PPPOE/ VPN Configuration	Configuration of PPPOE and VPN service through NTC locally through separate IP Pool																					
Installation/ Configuration	Installation of Firewall and complete configuration role implementation with antivirus subscription																					
13.	Eligibilities	Have relevant experience on video wall installation																				
14.	EDC	1x weeks after award of contract																				
15.	Warranty	Minimum Two year warranty																				
16.	Acceptance Criteria	<ul style="list-style-type: none"> a. Satisfactory test/ trials after installation onboard. b. Relevant diagrams/ documents to be provided c. Relevant specifications as per IT d. Proposal for 2x variants (latest) e. Relevant training for operating/ maintenance of network switch 																				
17.	Any other relevant information	Detailed quotation to be provided having complete breakdown of total price of items																				

IT NO: IT/87/54/2025-26

REPLACEMENT/ PROCUREMENT OF 07 X ELECTRICAL STARTER ALONGWITH ACCESSORIES – PMSS REHMAT

S No	Description				
1.	Ship's Name	PMSS REHMAT			
2.	Parent Equipment	Electrical distribution system			
3.	OEM	China			
4.	Origin	China			
5.	Sub Equipment	Fire main pp, Fresh Water pp, Sea Crane And Exhaust Fan Starter Panels			
6.	Assembly components	Supply panels/ Boxes			
7.	Quantity	07 in number			
8.	Source of availability	Local Market			
9.	Justification of work	07 x electrical supply panels of Fresh water pp, Fire main pp, Sea crane and Exhaust fan (evac compartment) become deteriorated/ defective due FWT.			
10.	Work Required	a	b	c	d
		Defect/ Routine List	Repair Work required	Services Required	Spares Required
		N/A	07 x panel box/ cabinets Servicing/ overhauling 07 x old earth bonding removal and installation of new earth bonding 07 x old change over switch replacement with new one Breaker Replacement of old breakers, lugs, magnetic contactors, overload relay push buttons, indication lamp and wiring with new one Removal of 07 x old electric cable from source to service and installation of new electric cable	N/A	07 x panel/ box servicing/ overhauling 07 x Breakers as per required Amp rating 07 x Magnetic Contactors as per required Amp rating 07 x overload relays as per required Amp rating 14 x indication lamps 20 mAmp 02 x Selector switch as per required Amp rating 02 x Tuggle Switch 16 x Push buttons 100 x meter 5-10mm electric cable as per sample

		a	b	c
		Details of Repair work Required	Details of services Required	Details of Spares Required
11.	Details Scope of Work	Servicing/ overhauling of panels	a. All spares, special equipment / tools, accessories etc for repair/ maintenance for said work to be arranged by the firm. b. Any damage /in way removal/ defect / wear tear occurs during the course of removal and installation of remote-control panel/ display are to be repaired/ met by firm. c. Requirement of external services, if required will be responsibilities of firm.	Magnetic Contactors overload relays, indication lamps, Selector switch. Tuggle Switch, Push buttons and electric cable as per sample
		Servicing of supply cabinets		
		Repairing/ replacement of panels earth bonding		
		Servicing of all breakers inside panels		
		Replacement of breakers, lugs, magnetic contactors, overload relay, push buttons, indication lamp and wiring if necessary		
		Repair/ replacement of electrical cable from source to end if necessary		
12.	Technical Specs	a. 220Volts b. 380Volt c. 50Hz d. 3 Phase		
13.	Eligibilities	a. Carried out repair/ maintenance of electrical Panels of PMSS Corvettes. b. Income tax registered. c. Sales tax registered. d. Firm is required to visit onboard ship.		
14.	EDC	20 x days after issuance of work/ confirmation order.		
15.	Warranty	01 x Year to be started after completion of successful trials.		
16.	Acceptance Criteria	a. Satisfactory operation of equipment. b. Acceptance by SS.		

IT NO: IT/87/55/2025-26

WOODEN MOLDING OF ALLEYWAYS AND COMPARTMENTS - PMSS ZHOB

S No	Description	
1.	Ship's Name	PMSS ZHOB
2.	Parent Equipment	Wooden molding of alleyways and compartments
3.	Quantity	750 ft.
4.	Source of availability	Any local/ international registered firm with good reputation.
5.	Justification of work	Wooden molding of alleyways and compartments has been deteriorated due to passage of time
6.	Work Required	Wooden molding of alleyways and compartments
7.	Details Scope of Work	Wooden molding of alleyways and compartments
8.	Technical Specs	Wooden molding required for alleyways and compartments are as follow: Alleyways (300 ft) Compartments (450 ft)
9.	Eligibilities	a. The firm must visit onboard and carry out diagnoses/ inspection to establish the extent of required work. b. The firm must have sufficient experience of same kind of work experienced.
10.	EDC	ASAP
11.	Warranty	1 Year
12.	Acceptance Criteria	a. Satisfactory work done by the firm. b. Successful completion and acceptance by the end user.

PROCUREMENT/ INSTALLATION OF 20 X FLUORESCENT PENDANT LIGHTS WITH COMPLETE ASSEMBLY - PMSS BASOL

S No	Description													
1.	Ship's Name	PMSS BASOL												
2.	Parent Equipment	Ship Lighting System												
3.	OEM	HAIXING MARITIME ELECTRIC GROUP.												
4.	Make/ Model	JCY22-2J												
5.	Origin	CHINA.												
6.	Sub Equipment	Tube Lights.												
7.	Assembly components	Fluorescent Pendant Light with complete assembly (220V 50HZ).												
8.	Part No of assembly components	As Provided by OEM												
9.	Quantity	20 In No												
10.	Source of availability	Local Engineering Houses.												
11.	Justification of work	20 x Fluorescent Pendant Light (220V 50HZ) found deteriorated and defective.												
12.	Work Required	<table border="1"> <thead> <tr> <th>a</th> <th>b</th> <th>c</th> <th>d</th> </tr> <tr> <th>Defect/ Routine List</th> <th>Repair Work required</th> <th>Services Required</th> <th>Spares Required</th> </tr> </thead> <tbody> <tr> <td>20 x Fluorescent pendant light (220V 50HZ) found deteriorated and defective.</td> <td> a. Replacement of 20 x Fluorescent pendant light (220V 50HZ) complete assemblies. b. Removal of old lights and installation of new lights. c. Removal and installation of in way components will be responsibility of firm. </td> <td> Replacement of 20 x Fluorescent pendant light (220V 50HZ) complete assemblies with new lights. Removal and installation of in way components. Removal of old lights and installation of new lights. </td> <td>20 x Fluorescent pendant light (220V 50HZ) complete assemblies.</td> </tr> </tbody> </table>	a	b	c	d	Defect/ Routine List	Repair Work required	Services Required	Spares Required	20 x Fluorescent pendant light (220V 50HZ) found deteriorated and defective.	a. Replacement of 20 x Fluorescent pendant light (220V 50HZ) complete assemblies. b. Removal of old lights and installation of new lights. c. Removal and installation of in way components will be responsibility of firm.	Replacement of 20 x Fluorescent pendant light (220V 50HZ) complete assemblies with new lights. Removal and installation of in way components. Removal of old lights and installation of new lights.	20 x Fluorescent pendant light (220V 50HZ) complete assemblies.
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14.	Technical Specs	As per OEM manual.												
15.	Eligibilities	a. Any registered and security wise cleared local contractor who has working												

		<p>experience on lighting system of HINOL Class MPVs.</p> <p>b. Firm must visit site for understanding the exact nature of defect/hindrances involved in job prior quoting to avoid inconvenience on later stage after award of Work Order.</p>
16.	EDC	05 Days
17.	Warranty	<p>One year warranty after satisfactory test / trails w.r.t:</p> <p>a. Satisfactory operation of fluorescent pendant light (220V 50HZ) complete assemblies</p> <p>b. Satisfactory brightness of fluorescent pendant light.</p> <p>c. Only marine version of fluorescent pendant light will be acceptable.</p> <p>d. Any defect/ deterioration of fluorescent pendant lights complete assemblies will be rectified/ replace complete assemblies by the firm during warranty period.</p>
18.	Acceptance Criteria	<p>a. Satisfactory operation of fluorescent pendant light (220V 50HZ) complete assemblies</p> <p>b. Satisfactory brightness of fluorescent pendant lights.</p> <p>c. Only marine version of fluorescent pendant light will be acceptable.</p>

IT NO: IT/87/57/2025-26

REPAIR/ REPLACEMENT OF WORK OF RHIBS - PMSS DASHT

S No	Description					
1.	Ship's Name	PMSS DASHT				
2.	Parent Equipment	6.5 M RHIBS				
3.	Origin	China				
4.	Sub Equipment	Life line Rubbing Cradle Rubber				
5.	Quantity	02xRHIB				
6.	Source of availability	Local Contractor				
7.	Justification of work	Life line (Safety Ropes), Rubbing & Rubbers on cradles found Deteriorated/ Damaged condition due FWT				
8.	Work Required	a		b	c	d
		Defect/ Routine List		Repair Work required	Services Required	Spares Required
		Repair/ replacement work required for Life line (Safety Ropes), Rubbing & cradle's Rubbers				
9.	Details Scope of Work	a		b		c
		Details of Repair work Required		Details of services Required		Details of Spares Required
		Following work required: a. Life line (Safety Rope) of both RHIBs damaged/ broken. b. Rubbing damaged at various places of RHIBs. c. Rubber on cradles deteriorated. Same needs repair. d. Installation of 02 x Hook for holding of fire extinguishers.				
10.	Technical Specs	As Prescribed by Ships Staff				
11.	Eligibilities	Reputable Local Contractor Having Working Experience RHIBs				
12.	EDC	ASAP				
13.	Warranty	a. 02 x Years warranty after satisfactory trials/test. b. Material will be reported if deformity or wears is developed during warranty period				
14.	Acceptance Criteria	As per IT Specification				
15.	Any other relevant information	a. Damage/ defect to item during work will be responsibility of contractor. b. Contractor must visit onboard to check scope of work.				

IT NO: IT/87/58/2025-26

**REPAIR/ REPLACEMENT OF MARINE LIGHT WATER CHILLER OF COMPRESSOR NO 1 -
PMSS ZHOB**

S No	Description								
1.	Ship's Name	PMSS ZHOB							
2.	Parent Equipment	JTLS-168(IV) Marine Light Water Chiller							
3.	OEM	Jiangsu Josun							
4.	Make/ Model	ZR-190KCE-TFD							
5.	Origin	Copeland							
6.	Sub Equipment	Hermetically Sealed Vortex Compressor							
7.	Assembly components	Compressor No 1							
8.	Part No of assembly components	4310-PV-100-0007 06.01.057							
9.	Quantity	01							
10.	Source of availability	Jiangsu Josun Air Conditioner Co. Ltd							
11.	OEM details	<p><u>Address</u> Person in touch: Xinsheng Huang Tongjiang Road 18-28, Taixing City. Jiangsu Province</p> <p><u>Contact Phone</u> Tel: 0523-87598768 Fax: 0523-87592869</p> <p><u>Contact Email</u> huang_xinsheng@josun.cn</p>							
12.	Justification of work	<p><u>PMS Routines</u> a. PMS No 3-6182-0000 MOP FL-002 b. PMS No 3-6182-0000 MOP CM-001</p> <p><u>Defect</u> Compressors no 1 performance degraded.</p>							
13.	Work Required	a		b		c		d	
		Defect/ Routine List		Repair Work required		Services Required		Spares Required	
		Main Chilled Water Plant Compressor performance degraded		Repair/ replacement of compressor no 1 through OEM/ local sources.		See S No 14 Para b		See S No 14 Para c	

		a	b	c
		Details of Repair work Required	Details of services Required	Details of Spares Required
14.	Details Scope of Work	Repair/ replacement of compressor no 1 through OEM/ local sources.	<p>a. Discharge refrigerant in the system through needle valve. Cut off copper pipe through cutting tool.</p> <p>b. Dismantle the bolts connecting compressor foot with base. Lift out the compressor from the water chiller.</p> <p>c. Fasten well the compressor footing bolts and ensure that the four fixed footing are installed on the same level during installation to effectively prevent the compressor vibration and extend its service life.</p> <p>d. Connect the copper pipes through welding/brazing work Charge the refrigerant 404-A to the system up to 5kg. refrigerant.</p> <p>e. Satisfactory running operation of Compressors including other two compressors. Brazing work, if required for other compressors gas circuit will be covered in same work order, if found.</p> <p>f. All tools and test equipment will be arranged by the firm.</p>	<p>JTLS-168(IV) Marine Light Water Chiller compressor</p> <p>NSN:4310-PV-100-0007</p>
15.	Technical Specs	<p>a. Compressor weight: 66 kg</p> <p>b. Refrigerant R-404A</p> <p>c. Refrigerant charge :05 kg</p> <p>d. Cooling capacity: 42 kw</p> <p>e. Power: 10.5 kw</p>		
16.	Eligibilities	Contractor having relevant working experience of chiller plant repairs onboard HINGOL class ships and FBR registered Suppliers.		
17.	EDC	7 Days		
18.	Warranty	<p>2 year including</p> <p>a. Satisfactory operation without high vibration and noise.</p> <p>b. Satisfactory operation without gas leakage.</p>		
19.	Acceptance Criteria	<p>a. Satisfactory operation of Chiller plant compressor No.1 for 7 days from date of Completion of work order.</p> <p>b. Contractor would be responsible for any damage to electrical/ mechanical assembly during trials.</p> <p>c. Chilled water return temperature of the plant should reach down to 7 degree C in normal condition.</p> <p>d. Successful trials by end user.</p>		
20.	Any other relevant information	Contactor may contact SS/ visit onboard ship to resolve any query.		

IT NO: IT/87/59/2025-26

COMMERCIAL REPAIR CASE OF TOYOTA SINGLE CABIN - PMSS NAZIM/ ORMARA

S No	Description	
1.	Ship's Name	PMSS NAZIM/BASE ORMARA
2.	Parent Equipment	Commercial repair of Single Cabin
3.	Make/ Model	Toyota
4.	Details Scope of Work	<p>Following items/ parts are required to repair/replace/serviced</p> <ul style="list-style-type: none">a. Engine over haul (E.O.H)b. Engine oil transmitter and break Oilc. Radiator defectived. Front and Rear bumper defectivee. Battery Degradedf. Chassis and frame repairingg. Complete Suspension workh. Steering Assembly and hydraulic pump defectivej. All lines, Break shoe, Master cylinder defectivek. Wiper motor defectivel. Driver cabin interior needs repairingm. Leaf spring (kamani) 01 x broken and all other intactn. Ignition switch defectivep. Speedo meter and all gauges are defectiveq. 02 x Back Seats are Not Availabler. Tyre are damaged and worn outs. Presently held tyres are of different companies and front both tyres are different in size too. Detail of required tyres are as follow: Tyre size : (31 x 10.50R15LT)

IT NO: IT/87/60/2025-26

PURCHASE OF BATTERIES - PMSS INDUS/ TRANSPORT

S No	Description				
1.	System	BATTERIES OF MT VEHICLES			
2.	Make	TOYOTA, SUZUKI, CHINA			
3.	Model	1996, 2009, 2015, 2015, 2015, 2015, 2017, 2010, 2006, 2008, 2017, 2019, 2007, 2017, 2007, 2002 & 2007			
4.	Vehicle No/ Type	96001 MS TLC150322MS, 150323MS, 150324MS D/CAB, 150325MS SINGLE CABIN, 170329MS W/B, 100406 HIACE, 170413 C/VAN, 190417MS COASTER, 07002MS CULTUS, 08003 CULTUS, 170218MS PRADO, 070315 S/P/ 020407MS SVAN, 090302MS, 090301MS CABIN/ 070410MS S/VAN			
5.	Type of batteries required	AGS			
6.	Item description	S No	PATT/PART NO	DESCRIPTION	QTY
		a.	12V80AH	LEAD ACID BATTERIES	09
		b.	12V105AH		04
		c.	12V65AH		01
		d.	12V45AH		05
7.	Technical specifications	As per specification			
8.	Preliminary Investigation by Ship's Staff	D(MT) & MTO Staff			
9.	Eligibility	Registered Contractor			
10.	EDD	07-DAYS			
11.	Warranty	01 YEAR			
12.	Acceptance Criteria	Onboard / shelf life not more than 06 month			

IT NO: IT/87/61/2025-26

PROCUREMENT OF LUBE OIL PRESSURE SWITCH OF HIGH PRESSURE AIR COMPRESSOR – PMSS ZHOB

S No	Description			
1.	Ship's Name	PMSS ZHOB		
2.	Parent Equipment	High Pressure Air Compressor		
3.	OEM	Bauer		
4.	Make/ Model	115.1-11-5		
5.	Origin	Germany		
6.	Sub Equipment	Lube oil pressure switch (3 to 6 bar)		
7.	Assembly components	Lube oil pressure switch (3 to 6 bar)		
8.	Part No of assembly components	Lube oil pressure switch (3 to 6 bar)	80497	
9.	Quantity	2		
10.	Source of availability	Bauer Kompressoren GMBH Postfach 710260 D-81452 München		
11.	OEM Details	Address: Bauer Kompressoren GMBH Postfach 710260 D-81452 München Contact Phone: Tel. +49(89)78049-0 Fax+49(89)78049167 Contact Email: www.bauer-kompressoren.de		
12.	Justification of work	Purchase/ procurement of lube oil pressure switch (3 to 6 bar)		
13.	Work Required	a	b	c
		Defect/ Routine List	Repair Work required	Services Required
		N/A	Purchase/ procurement of lube oil pressure switch (3-6 bar) for high pressure air compressor through OEM/ local sources.	See S No 14 column b
14.	Details Scope of Work	a	b	c
		Details of Repair work Required	Details of services Required	Details of Spares Required
		Purchase/ procurement of lube oil pressure switch (3-6 bar) for high pressure air compressor through OEM/ local sources.	a. Purchase/ procurement of lube oil pressure switch through trained technicians. b. Onboard Test/ trials to be conducted after replacement. c. Contractor is to inspect pressure transmitter by visiting ship before quoting for job.	Lube oil pressure switch (3 to 6 bar) Part No: 80497
15.	Technical Specs	As per OEM Manual/ Specs		
16.	Eligibilities	Suitable contractor having working experience on Electronics/ Electrical equipment with PMSA.		
17.	EDC	5 Days		
18.	Warranty	2 Year		
19.	Acceptance Criteria	a. Onboard successful test/ trials of lube oil pressure switch (3-6 bar) on HPAC. b. Certified spares to be used for avoiding damage to system and ship. c. Successful trials by end user.		

		<ul style="list-style-type: none"> a. Thread: UV-Resistant marine grade polyester b. Stitch Type: Heavy-duty double/ lock stitch c. Edge Finish: Folded and reinforced <p>Fitting And Accessories</p> <ul style="list-style-type: none"> a. Stainless Steel/Brass eyelets b. Marine grade ropes/ webbing straps c. Corrosion resistant fasteners
11.	Eligibilities	Any firm having experience in PMSA or marine awning fabrication work
12.	EDC	ASAP
13.	Warranty	Fabric: up to 10 years (As per OEM) Fabrication & workmanship: 1 year
14.	Acceptance Criteria	<ul style="list-style-type: none"> a. Fabrication and installation as per approved specification b. Acceptance after onboard trial and fitment
15.	Any other relevant information	Fabrication awning shall be suitable for continues operation in marine environment including exposure to sun and wind

IT NO: IT/87/63/2025-26

PROCUREMENT OF ITEMS FOR FRB-153 & ZHB-03 - PMSS NAZIM/ FRBS WMR

S No	Description			
1.	Ship's Name	NAZIM/ FRB's		
2.	Parent Equipment	Misc Items		
3.	Sub Equipment	As mentioned above (Para No 9)		
4.	Part No of assembly components	S No	Description	Qty
		a.	Flood Lights (500 W)	05
		b.	FRB Sling for lowering/ hoisting with 04 legs 24 feet, 3 inch width, Load 29 Ton	01
		c.	ZHB Sling for lowering/ hoisting with 03 legs/ small shackle & 01 x Main shackle Type S/L-1100 M Length 20 feet, width 2 inch Load 10,000 Kgs	01
		d.	Square speaker (200 W)	01
		e.	Suzuki Engine Limit switch of OBM Engine 300HP	01
		f.	PORT engine Limit switch	01
		g.	Fresh water pump of OBM Engine 300HP	01
		h.	Gear Box filter for Caterpillar-9 Engine	01
5.	Quantity	As per S No 7		
6.	Justification of work	Items are critically required for replacement of degraded of 1000 PMS routine.		
7.	Work Required	S No	Description	Qty
		a.	Flood Lights (500 W)	05
		b.	FRB Sling for lowering/ hoisting with 04 legs 24 feet, 3 inch width, Load 29 Ton	01
		c.	ZHB Sling for lowering/ hoisting with 03 legs/ small shackle & 01 x Main shackle Type S/L-1100 M Length 20 feet, width 2 inch Load 10,000 Kgs	01
		d.	Square speaker (200 W)	01
		e.	Suzuki Engine Limit switch of OBM Engine 300HP	01
		f.	PORT engine Limit switch	01
		g.	Fresh water pump of OBM Engine 300HP	01
		h.	Gear Box filter for Caterpillar-9 Engine	01
8.	Details Scope of Work	S No	Description	Qty
		a.	Flood Lights (500 W)	05
		b.	FRB Sling for lowering/ hoisting with 04 legs 24 feet, 3 inch width, Load 29 Ton	01
		c.	ZHB Sling for lowering/ hoisting with 03 legs/ small shackle & 01 x Main shackle Type S/L-1100 M Length 20 feet, width 2 inch Load 10,000 Kgs	01
		d.	Square speaker (200 W)	01
		e.	Suzuki Engine Limit switch of OBM Engine 300HP	01
		f.	PORT engine Limit switch	01
		g.	Fresh water pump of OBM Engine 300HP	01
		h.	Gear Box filter for Caterpillar-9 Engine	01

9.	Technical Specs	S No	Description	Qty
		a.	Flood Lights (500 W)	05
		b.	FRB Sling for lowering/ hoisting with 04 legs 24 feet, 3 inch width, Load 29 Ton	01
		c.	ZHB Sling for lowering/ hoisting with 03 legs/ small shackle & 01 x Main shackle Type S/L-1100 M Length 20 feet, width 2 inch Load 10,000 Kgs	01
		d.	Sqare speaker (200 W)	01
		e.	Suzuki Engine Limit switch of OBM Engine 300HP	01
		f.	PORT engine Limit switch	01
		g.	Fresh water pump of OBM Engine 300HP	01
		h.	Gear Box filter for Caterpillar-9 Engine	01
10.	Eligibilities	Any local/international firm		
11.	EDC	10 days		
12.	Warranty	01 year after installation onboard and satisfactory trials.		
13.	Acceptance Criteria	Physical inspection of all parts by end user for satisfactory performance		

IT NO: IT/87/64/2025-26

PROCUREMENT OF SEA WATER IMPELLER FOR FRBS - WESTERN WING

S No	Description				
1.	Ship's Name	WESTERN WING/ FRBs			
2.	Parent Equipment	C 9 Main Engines			
3.	OEM	Caterpillar, USA			
4.	Make/ Model	Caterpillar C 9			
5.	Origin	USA			
6.	Sub Equipment	Sea water pump (Part No 197-5993)			
7.	Assembly components	Impellers (Sea water pump)			
8.	Part No of assembly components	Part No 7E0321			
9.	Quantity	08			
10.	Source of availability	Any suitable			
11.	Justification of work	Performance of sea water pumps degraded due old vintage and FWT of impellers.			
12.	Work Required	a	b	c	d
		Defect/ Routine List	Repair Work required	Services Required	Spares Required
		Performance of Sea Water pumps found degraded.	Procurement of 08 x impellers (Part No 7E0321) required for sea water pumps	Procurement of impellers for sea water pumps	As per requirement

13.	Details Scope of Work	a	b	c
		Details of Repair work Required	Details of services Required	Details of Spares Required
		Procurement of 08 x impellers (Part No 7E0321) required for sea water pumps	Procurement of impellers for sea water pumps	As per requirement
14.	Technical Specs	Procurement of 08 x impellers (Part No 7E0321) for improvement in performance of sea water pumps.		
15.	Eligibilities	Any well-known national/ international firm having good experience for repair/ maintenance of Caterpillar Engines and associated accessories		
16.	EDC	15 days		
17.	Warranty	One year after installation and successful trials onboard		
18.	Acceptance Criteria	Physical inspection of impellers and seals etc by end user after installation onboard and trials up to maximum engine RPMs for satisfactory performance:		
19.	Any other relevant information	a. Procurement of Marine Grade spares/ accessories are to be ensured by contracted firm. b. Any breakage/ material failure during dismantling/ installation will be lies with the firm.		

PORTHOLE FABRICATION ALONGWITH INSTALLATION - PMSS REHMAT

S No	Description				
1.	Ship's Name	PMSS REHMAT			
2.	Parent Equipment	Ship Structure			
3.	OEM	China			
4.	Origin	China			
5.	Sub Equipment	Porthole			
6.	Assembly components	Porthole			
7.	Quantity	14 x Porthole			
8.	Source of availability	Local Market			
9.	Justification of work	14 x Porthole of messes area found deteriorated and required to be inspected/ repaired and replaced if necessary			
10.	Work Required	a	b	c	d
		Defect/ Routine List	Repair Work required	Services Required	Spares Required
		Work requisition ME-06/26 dated 02-02- 26 was forwarded to BMG and same was outsourced.	Fabrication of 14 x porthole glass locking mechanism including rubber seals and base O ring. Fabrication of 14 x porthole glass as per sample 08mm thick.	Removal of old porthole glass, rubber seal (inner/outer) and installation of new fabricated locking mechanism ring.	14 x porthole fabricated SS material where required. 18 x porthole fabricated glass dia 08mm thick 28 x porthole rubber seal. 18 x fabricated porthole glass locking mechanism (ring) as per sample. 20 x butterfly SS nuts as per sample

11.	Details Scope of Work	a	b	c
		Details of Repair work Required	Details of services Required	Details of Spares Required
		<p>Fabrication of 14 x porthole glass locking mechanism including rubber seals and base O ring.</p> <p>Fabrication of 14 x porthole glass as per sample 08mm thick.</p>	<p>a. All spares, special equipment/tools, accessories etc for welding/ cutting work/ installation for said work to be arranged by the firm.</p> <p>b. Any damage /in way removal/ defect / wear tear occurs during the course of removal and installation of new fabricated bases are to be repaired/ met by firm.</p> <p>c. Requirement of external services, if required will be responsibilities of firm.</p>	<p>14 x porthole fabricated SS material where required.</p> <p>18 x porthole fabricated glass dia 08mm thick</p> <p>28 x porthole rubber seal.</p> <p>18 x fabricated porthole glass locking mechanism (ring) as per sample.</p> <p>20 x butterfly SS nuts as per sample</p>
12.	Technical Specs	SS Material for fabrication of new porthole Glass thick 08MM		
13.	Eligibilities	<p>a. Carried out fabrication work of PMSS Corvettes.</p> <p>b. Income/ Sales tax registered.</p> <p>c. Firm is required to visit onboard ship.</p>		
14.	EDC	07 x days after issuance of work/ confirmation order.		
15.	Warranty	01 x Year to be started after completion of work.		
16.	Acceptance Criteria	Acceptance by SS.		

IT NO: IT/87/66/2025-26

REPAIR/ REPLACEMENT OF CHILLER SEA WATER & CHILLED WATER PUMPS - PMSS KOLACHI

S No	Description				
1.	Ship's Name	PMSS KOLACHI			
2.	Parent Equipment	MARINE LIGHT WATER CHILLER			
3.	OEM	JIANGSU ZHENHUA PUMP INDUSTRY CO., LTD.			
4.	Make/ Model	CLH100-80-13 CHILLER S.W. PUMP			
5.	Origin	China			
6.	Sub Equipment	AFT Sea water pump, Chilled water pumps			
7.	Assembly components	Impeller, pump shaft, mechanical seal, motor bearing, pump body			
8.	Part No of assembly components	S No	NSN/ Part No	Item Description	Qty
		i.	4320PV1190008	Impeller	05
		j.	4320PV1190003	Pump shaft	05
		k.	3110PV0020036	Motor	05
		l.	6105PV1720007	Motor shaft	05
		m.	9320PV1010702	Mechanical seal	05
		n.	3110PV0020036	Motor bearing	10
9.	Quantity	As per S No 8			
10.	Source of availability	OEM (JIANGSU ZHENHUA PUMP INDUSTRY CO, LTD			
11.	Justification of work	Replacement of above mentioned items is required for Chilled Water Plant			
12.	Work Required	a	b	c	d
		Defect/ Routine List	Repair Work required	Services Required	Spares Required
		Sea water pump	Overhauling of Aft Sea water pump required.	Overhauling	As per S No 8
Chilled water pumps	Overhauling of Chilled water pumps required	Overhauling			
13.	Details Scope of Work	a	b	c	
		Details of Repair work Required	Details of services Required	Details of Spares Required	
		Overhauling of Aft Sea water pump & chilled water pumps required. Moreover, Repair/ replacement of defective parts of pumps required for SAT OPS	Overhauling of Aft Sea water pump & chilled water pumps required. Moreover, Repair/ replacement of defective parts of pumps required for SAT OPS	As per S No 9 and 10	
14.	Technical Specs	S No	Description	Technical Data	
		a.	Model	CLH100-80-13	
		b.	Manufacturer	JIANGSU ZHENHUA PUMP INDUSTRY CO, LTD.	
		c.	Working Pressure	0.32 MPa	
		d.	RPM	2950	
15.	Eligibilities	Reputable local/ international contractor registered with FBR and having working experience with PMSA.			
16.	EDC	30 Days after award of contract			

17.	Warranty	01 Year
18.	Acceptance Criteria	<ul style="list-style-type: none"> a. OEM Certified item b. Contractor must visit onboard for detailed scope of work prior quoting. c. Pumps should run smoothly without any leakage, noise and vibration d. Pump should provide discharge pressure as per tech manual e. Motor winding must be pure copper f. Motor running current should be as per tech manual g. Any growth work after dismantling of pumps will be beard by firm h. Firm will not be allowed to use ship tools and manpower. j. QA/QC certificate issuance by QA/QC department
19.	Any other relevant information	Contractor/ Rep of firm should visit ship prior quoting to inspect exact scope of work.

PROCUREMENT INSTALLATION OF APME SHAFT GLAND ASSEMBLY - PMSS BARKAT

S No	Description																									
1.	Ship's Name	PMSS BARKAT																								
2.	Parent Equipment	Main Engine (APME)																								
3.	OEM	MTU																								
4.	Make/ Model	16V 396 TB93																								
5.	Serial No	5590546																								
6.	Origin	Germany																								
7.	Sub Equipment	Shaft Gland Assembly																								
8.	Assembly components	Shaft Gland Assembly																								
9.	Quantity	01																								
10.	Source of availability	Local Market																								
11.	Justification of work	During normal operation shaft gland assembly observed leaky. Shaft gland assembly suspected deteriorated due FWT.																								
12.	Work Required	<table border="1"> <thead> <tr> <th align="center">a</th> <th align="center">b</th> <th align="center">c</th> <th align="center">d</th> </tr> <tr> <th align="center">Defect/ Routine List</th> <th align="center">Repair Work Required</th> <th align="center">Services Required</th> <th align="center">Spares Required</th> </tr> </thead> <tbody> <tr> <td>During normal operation shaft gland assembly observed leaky. Shaft gland assembly suspected deteriorated due FWT.</td> <td>Inspection and appropriate repair/ replacement work is required to make shaft gland assembly leakage free</td> <td>As per Serial 13 Column b.</td> <td>As per Serial 13 Column c.</td> </tr> </tbody> </table>	a	b	c	d	Defect/ Routine List	Repair Work Required	Services Required	Spares Required	During normal operation shaft gland assembly observed leaky. Shaft gland assembly suspected deteriorated due FWT.	Inspection and appropriate repair/ replacement work is required to make shaft gland assembly leakage free	As per Serial 13 Column b.	As per Serial 13 Column c.												
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v. Repair/ Replacement of all accessories of shaft gland assembly warranty/ grantee periods claims in case of any rework																										

14.	Technical Specs	As detail scope of work
15.	Eligibilities	<ul style="list-style-type: none"> 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 and experienced. c. The firm should be NTN /GST registered
16.	EDC	15 x Days after issuance of work/confirmation order.
17.	Warranty	01 Year
18.	Acceptance Criteria	<ul style="list-style-type: none"> a. Satisfactory work done by the firm. b. Successful completion and acceptance by the end user c. Satisfactory trials.
19.	Any other relevant information	Quality material is to be used.

IT NO: IT/87/68/2025-26

PROCUREMENT INSTALLATION OF GYRO 6KVA (APC) UPS - PMSS REHMAT

S No	Description													
1.	Ship's Name	PMSS REHMAT												
2.	Parent Equipment	Gyro RGC-50												
3.	OEM	APC USA												
4.	Make/ Model	SURT6000XLI												
5.	Origin	APC USA												
6.	Sub Equipment	6KVA SMART UPS 3000 XL												
7.	Assembly components	6KVA UPS with built in batteries												
8.	Part No of assembly components	SURT6000XLI/SRV6KI												
9.	Quantity	01 each												
10.	Justification of work	Item is critically required for meeting backup power supply for operational requirement of equipment installed onboard ship.												
11.	Work Required	<table border="1"> <thead> <tr> <th>a</th> <th>b</th> <th>c</th> <th>d</th> </tr> <tr> <th>Defect/ Routine List</th> <th>Repair Work required</th> <th>Services Required</th> <th>Spares Required</th> </tr> </thead> <tbody> <tr> <td>Procurement of 6KVA (APC) UPS</td> <td> a. 6 KVA (APC) UPS Procurement is required. b. Installation of marine version junction box in gyro room with breakers with wiring. </td> <td>Procurement of new 6 KVA (APC) UPS with installation.</td> <td>AVO Meter, Specific Tool Kit for onboard defect rectification</td> </tr> </tbody> </table>	a	b	c	d	Defect/ Routine List	Repair Work required	Services Required	Spares Required	Procurement of 6KVA (APC) UPS	a. 6 KVA (APC) UPS Procurement is required. b. Installation of marine version junction box in gyro room with breakers with wiring.	Procurement of new 6 KVA (APC) UPS with installation.	AVO Meter, Specific Tool Kit for onboard defect rectification
		a	b	c	d									
Defect/ Routine List	Repair Work required	Services Required	Spares Required											
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a	b	c												
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13.	Technical Specs	INPUT 200V-240V 13A AND 16A Frq= 50/60 HZ OUTPUT 2200VA/1980W 3000VA/2700W												

14.	Eligibilities	<p>Following is eligibility criteria:</p> <ul style="list-style-type: none"> a. The firm should visit onboard to understand defect. b. Firm not undertaking the visit onboard ship to see extent of work w not technically qualify. c. The firm has sufficient experience of similar kind of work. d. NTN/GST registered. e. Any component/ item required during rectification may be provided by firm. f. Firm to provide services for UPS installation and defects rectification during warranty period. g. Any other work required to ensure the good quality and optimum performance of work. h. Firm to ensure satisfactory operation of complete system.
15.	EDC	02 x Week
16.	Warranty	OEM/ 1 x Year warranty, which may be higher after HATs/ SATs.
17.	Acceptance Criteria	HATs/ SATs

TESTING, PROCUREMENT AND INSTALLATION REPLACEMENT OF SMOKE, HEAT EXPLOSIVE DETECTORS & MANUAL CELL POINT - PMSS KASHMIR

S No	Description				
1.	Ship's Name	PMSS KASHMIR			
2.	Parent Equipment	FIRE DETECTION SYSTEM			
3.	OEM	Cosillium			
4.	Origin	China			
5.	Assembly components	<u>Smoke Detectors, Temperature Detectors, Smoke & Heat Detectors, Manual Call Point</u>			
6.	Part No of assembly components	S No	Part No	Description	Qty Req
		a.	040000	Heat detectors	15
		b.	040020	Smoke detectors	20
		c.	040030	Smoke and heat detector	07
		d.	5200014-01	Manual Operating Call Point	10
		e.	038010-R1G	Explosive Detector	05
7.	Quantity	As per S No 6			
8.	Source of availability	<u>Local Market</u>			
9.	Justification of work	Inspection/ Replacement of Smoke Detectors, Temperature Detectors Smoke & Heat Detectors, Manual Call Point is required for SAT OPS			
10.	Work Required	a	b	c	d
		Defect/ Routine List	Repair Work Required	Services Required	Spares Required
		Testing of complete detection system including control wiring/ PCB	Smoke Detectors, Temperature Detectors, Smoke & Heat Detectors, Manual Call Point are to be checked for SAT Ops	Inspection/ replacement required	As per requirement
		Replacement of detector	Nil	Nil	As per para 9
	Verification of PCB	Yes	Yes	Yes	
11.	Details Scope of Work	As per S No 10			
12.	Technical Specs	Inspection/ replacement required with known good standard detectors.			
13.	Eligibilities	Reputable local/ international contractor registered with FBR and having working experience with PMSA.			
14.	EDC	30 Days after award of contract			
15.	Warranty	01 Year			
16.	Acceptance Criteria	a.	OEM Certified item		
		b.	Defective/ BER detectors must be replaced with new one		
		c.	New detectors are to be provided		
17.	Any other relevant information	Contractor may visit onboard through Procurement Dte for verification of work			

IT NO: IT/PM/87/70/2025-26

**REPAIR/ MAINTENANCE OF 02 X REVERSE OSMOSIS (RO PLANT) NO 1 & 2 - PMSS
ZHOB**

S No	Description				
1.	Ship's Name	PMSS ZHOB			
2.	Parent Equipment	Reverse Osmosis			
3.	OEM	Romer Environmental Protection (SHENZHEN) CO., LTD.			
4.	Make/ Model	Y100L1-4-H			
5.	Origin	Canada			
6.	Sub Equipment	Reverse Osmosis			
7.	Assembly components	Reverse Osmosis			
8.	Part No of assembly components	PP cotton filter element	FSHB3-00803		
		V-belt	FSHB3-10003		
		Water intake pump	FSHB3-00700-1		
		High-pressure pump	FSHB3-01301		
		Pressurizing pump	FSHB3-00200-1		
		High-pressure pump motor	FSHB3-01300		
		Group 1 reverse osmosis membrane cartridge	FSHB3-01005		
		Group 2 reverse osmosis membrane cartridge	FSHB3-11007		
		O-RING 5x72 mm "	FSHB3-11100		
		O-RING 3.5x100 mm	FSHB3-11101		
		Pre-filter flush/backwash handle	FSHB3-0010		
		Pre-filter assembly	FSHB3-00100		
		Pressurizing pump assembly	FSHB3-00200		
		Group 2 water production flow meter	FSHB3-00300		
		Group 1 water production flow meter	FSHB3-00301		
		Drinking water flange	FSHB3-0040		
		Pressure regulating valve	FSHB3-00600		
		Water intake pump assembly	FSHB3-00700		
		Water intake flange	FSHB3-00401		
		Concentrate flange	FSHB3-00402		
		HP pump motor and HP pump assembly	FSHB3-00750		
		Safety filter assembly	FSHB3-00800		
		Water intake pressure gauge	FSHB3-00302		
		Concentrate pressure gauge	FSHB3-00303		
		Combination valve box	FSHB3-00650		
		Group 1 reverse osmosis membrane assembly	FSHB3-01000		
		Group 2 reverse osmosis membrane assembly	FSHB3-01100		
9.	Quantity	2 x RO plants			
10.	Source of availability	Founder Science Park, Shiyan, Bao'an District, Shenzhen			
11.	Justification of work	RO plants 1 & 2 (reverse osmosis) performance degraded.			
12.	Work Required	a	b	c	d
		Defect/ Routine List	Repair Work required	Services Required	Spares Required
		Repair/ maintenance of RO plants 1 & 2	Repair/ maintenance of RO plants 1 & 2 through OEM/ local engineering house.	See S No 13 Para b	See S No 13 Para c

		a	b	c
		Details of Repair work Required	Details of services Required	Details of Spares Required
13.	Details Scope of Work	Repair/ maintenance of RO plants 1 & 2 through OEM/ local engineering house.	a. Complete overhauling of LP pumps of RO plants by the firm. b. Complete overhauling of HP pumps of RO plants by the firm. c. Repair/ replacement of RO membranes. d. Replacement of RO sand filters. e. Repair/ replacement of RO Plants Sea water lines. f. Replacement of 1 st , 2 nd and 3 rd stages new filters. g. Complete overhauling of all accessories of RO plants. h. Sole responsibility of firm in case of growth work to avoid complications on later stage. Firm be directed to visit the ship before quoting for understanding removal/ installation and defect rectification scope.	As per S No 9
14.	Technical Specs	As per OEM Manual/ Specs		
15.	Eligibilities	Authorized rep of OEM/ Local contractor having relevant working experience. Contractor is to visit the ship in order to understand the scope of work.		
16.	EDC	15 Days		
17.	Warranty	1-year		
18.	Acceptance Criteria	a. Upon scrutiny of item and provided documents i.e. technical specifications along with COC, production certificates and batch No. by OEM. b. Item must be brand new and 100% genuine. Ship will have authority to reject provided spare parts within 15 days of satisfactory trials w.e.f date of acceptance due to compatibility issues or wrong supply of item. <ol style="list-style-type: none"> i. Satisfactory repair/ replacement, installation and operation of RO plants. ii. Trials, HATs & SATs. 		
19.	Any other relevant information	a. Growth Work, Damage/ defect occurred during work is responsibility of contractor. b. Contactor may contact SS/ visit onboard ship to resolve any query.		

FABRICATION OF STBD ENGINE'S GEAR BOX COOLER - PMSS KASHMIR

S No	Description				
1.	Ship's Name	PMSS KASHMIR			
2.	Parent Equipment	Gearbox			
3.	OEM	Hangzhou Advance Gearbox			
4.	Make/ Model	GCD-750-800			
5.	Serial No	DLD/ 20RK270			
6.	Origin	Chinese			
7.	Sub Equipment	Stbd Engine			
8.	Assembly components	Cooler			
9.	Part No of assembly components	S No	Part Number	Description	Qty
		a.	YLR61.24S-00	Cooler	01
10.	Quantity	As per S No 9			
11.	Source of availability	OEM			
12.	Justification of work	FWT			
13.	Work Required	a	b	c	d
		Defect/ Routine List	Repair Work required	Services Required	Spares Required
		During operation, seawater leakage in Stbd engine gearbox cooler observed	Fabrication of Geabox cooler with complete body required	Nil	Nil
14.	Details Scope of Work	a	b	c	
		Details of Repair work Required	Details of services Required	Details of Spares Required	
		Fabrication of Geabox cooler with complete body required	Nil	Nil	
15.	Technical Specs	S No	Description	Technical Specs	
		a.	Test pressure	6 bar	
		b.	Design pressure	7 bar	
		c.	Heat Transfer Area	61 square meter	
		d.	Material	Cu/Nc = 90/10	
		e.	No of tubes	300	
		f.	Type	Shell & tube	
16.	Eligibilities	Reputable local/ international contractor registered with FBR and having working experience with PMSA.			
17.	EDC	05 Days after award of contract			
18.	Warranty	01 Year			
19.	Acceptance Criteria	a. OEM Certified items.			
		b. Defective/ BER items must be replaced with new one			
		c. Firm will not be allowed to use ship tools and manpower Nil			

IT NO: IT/PM/87/72/2025-26

IT SPECIFICATIONS
PROCUREMENT OF SECURITY RELATED ITEMS – HQ PMSA

1.	Ship's Name	HQ PMSA			
2.	Parent Equipment	Security Equipment			
3.	Quantity	S. No	Description	Qty Req	Technical Specifications
		a.	Night Vision Device (NVD)	16 in Set	Night Vision & Surveillance Equipment Shenzen/ NVG30 Series NVG30 Dual NVG30 Units, Bridge, Mount Type – Digital Night Vision (Binocular) Sensor – CMOS(HD) Resolution – Approx 2560 x 1440 (Per Unit) Zoom – 1-4x Field of view - ~40° IR Illuminator – built-in 940mm Power – Rechargeable 18650 Battery
		b.	Projector Light	25 in No	
		c.	Flood Light	67 in No	
		d.	Laser Pointer	20 in No	
		e.	Metal Detector	09 in No	
4.	Justification for work	Night Vision Device (NVD) is essentially Required for safe Navigation of the Ships at Night Projector Light, Flood Light, Laser Pointer and Metal Detector are required for PMSA Coastal Bases.			
5.	Technical Specs	As per Serial No 03			
6.	Eligibilities	a. Any security wise clear firm/ contactor having working experience with PMSA.			
		b. FBR and SBR Registered Firm			
7.	EDC	ASAP			
8.	Warranty	01 Year Warranty			
9.	Acceptance Criteria	Specification as per manufacture's product sheet. Physical inspection and night operational trial onboard COC (Certificate of Conformity) Certificate of Serviceability			
10.	Any other relevant information	Suitable for ship bridge watch, deck patrol and boarding operations Shock, vibration, salt-spray resistant Supplied with complete accessories and user manual Latest production year, unused and factory sealed			

IT NO: IT/PM/87/73/2025-26

PROCUREMENT OF FLIR SYSTEM - PMSS BARKAT, NUSRAT & REHMAT

S No	Description																							
1.	Ship's Name	PMSS BARKAT, PMSS NUSRAT & PMSS REHMAT																						
2.	Parent Equipment	FLIR System																						
3.	OEM	Teledyne																						
4.	Make/ Model	FLIR M460-LRF																						
5.	Serial No	E70679																						
6.	Origin	USA																						
7.	Sub Equipment	Surveillance and Monitoring System																						
8.	Assembly components	FLIR Camera Sensor, Cabling, Power Supply and Display/ Monitoring System.																						
9.	Part No of assembly components	E70769																						
10.	Quantity	03 x Complete FLIR System																						
11.	Source of availability	Teledyne (USA)																						
12.	OEM details	Address: 110 Lowell Road, Hudson, NH 03051, USA. Contact Phone: +1 (603) 324 7900, +800 539 5539 Contact Email: https://maritime.teledyne.com/Messages																						
13.	Alternate/Local Source	Alternate Source: Raymarine Ltd Address: Marine House, Cartwright Drive, Fareham, PO15 5RJ, UK Contact Phone: +44 (0)1329 246 932 Contact Email: https://maritime.teledyne.com/Messages																						
14.	Justification of work	<u>Old item found defective and declared BER. New system required.</u>																						
15.	Work Required	<table border="1"> <thead> <tr> <th align="center">a</th> <th align="center">b</th> <th align="center">c</th> <th align="center">d</th> </tr> <tr> <th align="center">Defect/ Routine List</th> <th align="center">Repair Work required</th> <th align="center">Services Required</th> <th align="center">Spares Required</th> </tr> </thead> <tbody> <tr> <td>Old item found defective and declared BER. New system required.</td> <td>Removal of existing degraded FLIR system and installation of complete new FLIR system.</td> <td>As per Serial 16 Column b.</td> <td>As per Serial 16 Column c.</td> </tr> </tbody> </table>		a	b	c	d	Defect/ Routine List	Repair Work required	Services Required	Spares Required	Old item found defective and declared BER. New system required.	Removal of existing degraded FLIR system and installation of complete new FLIR system.	As per Serial 16 Column b.	As per Serial 16 Column c.									
		a	b	c	d																			
		Defect/ Routine List	Repair Work required	Services Required	Spares Required																			
Old item found defective and declared BER. New system required.	Removal of existing degraded FLIR system and installation of complete new FLIR system.	As per Serial 16 Column b.	As per Serial 16 Column c.																					
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			repair and installation of system/ equipment will be met by firm
		m.	The firm will be responsible for all removal, transportation and installation work during warranty/ guarantee periods claims in case of any rework
17.	Technical Specs	a.	360 Pan +/- 90 Tilt Capability
		b.	Size 10.75 Inch (273mm) Dia 15.65 Inch (397.5mm)
		c.	Resolution 1920 x 1080
		d.	Operating temp -25c To +55c
		e.	Video format NTSC or PAL 720p, 1080p
		f.	Power consumption -250W
		g.	Power requirement 12VDCto24VDC
		c.	Range performance Person 1.6 NM, NATO Target 3.9 NM and Vessel 13.09 NM
18.	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
19.	EDC		30 x Days after issuance of work/confirmation order.
20.	Warranty		year or as per OEM standards
21.	Acceptance Criteria	a.	Satisfactory work done by the firm
		b.	Successful completion and acceptance by the end user
		e.	Satisfactory trials of system after completion of HATs/SATs

IT NO: IT/PM/87/74/2025-26

PROCUREMENT OF LIFE RAFT ITEMS – PMSA UNITS

S No	Details																																																	
1.	Ships Name	PMSA Ships																																																
2.	Parent Equipment	Life Raft																																																
3.	OEM	CHONGQING MARINE EQUIPMENT Co. LTD																																																
4.	Model	20 Men KHZ Type Life RaftS																																																
5.	Origin	CHINA																																																
6.	Sub Equipment	Life Rafts																																																
7.	Quantity	<table border="1"> <thead> <tr> <th>S No</th> <th>NSN No</th> <th>Description</th> <th>Qty Req</th> </tr> </thead> <tbody> <tr> <td>a.</td> <td>4220735289495</td> <td>Fresh water</td> <td>615</td> </tr> <tr> <td>b.</td> <td>4220795289489</td> <td>Standard emergency ration/ dry ration food for survival pack life raft</td> <td>200</td> </tr> <tr> <td>c.</td> <td>4220795289489</td> <td>First Aid Kit for life raft</td> <td>20</td> </tr> <tr> <td>d.</td> <td>1370992197117</td> <td>Hand Flare Red</td> <td>85</td> </tr> <tr> <td>e.</td> <td>4220785289433</td> <td>Buoyant Smoke Signals</td> <td>30</td> </tr> <tr> <td>f.</td> <td>4220785339991</td> <td>Rocket Parachute Flares</td> <td>64</td> </tr> <tr> <td>g.</td> <td>6160785289107</td> <td>Lithium cell & Canopy light</td> <td>06</td> </tr> <tr> <td>h.</td> <td>4220546 013157</td> <td>Repair Kit</td> <td>15</td> </tr> <tr> <td>j.</td> <td>-</td> <td>Seasickness Pills</td> <td>180</td> </tr> <tr> <td>k.</td> <td>-</td> <td>Torch Battery</td> <td>03</td> </tr> <tr> <td>l.</td> <td>-</td> <td>Beacon Light</td> <td>02</td> </tr> </tbody> </table>	S No	NSN No	Description	Qty Req	a.	4220735289495	Fresh water	615	b.	4220795289489	Standard emergency ration/ dry ration food for survival pack life raft	200	c.	4220795289489	First Aid Kit for life raft	20	d.	1370992197117	Hand Flare Red	85	e.	4220785289433	Buoyant Smoke Signals	30	f.	4220785339991	Rocket Parachute Flares	64	g.	6160785289107	Lithium cell & Canopy light	06	h.	4220546 013157	Repair Kit	15	j.	-	Seasickness Pills	180	k.	-	Torch Battery	03	l.	-	Beacon Light	02
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8.	Source of Availability	CHONGQING MARINE EQUIPMENT Co. LTD																																																
9.	OEM Details	Address Chongqing Marine Equipment Co. Contact Technical Building, Loncin Industrial Park Chongqing, China																																																
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14.	Warranty	ASAP																																																
15.	Acceptance Criteria	1 Year																																																
16.	Any other relevant information	Upon inspection of items																																																

REQUIREMENT OF LIFE RAFT ITEMS – PMSA SHIPS

S No	NSN No	Description	Expiry Date	Qty Req
PMSS KOLACHI				
a.	4220735289495	Fresh water	May 2030	NIL
b.	4220795289489	Standard emergency ration/ dry ration food for survival pack life raft	Apr 2026	NIL
c.	4220795289489	First Aid Kit for life raft	Feb 2026	NIL
d.	1370992197117	Hand Flare Red	Mar 2026	06
e.	4220785289433	Buoyant Smoke Signals	Mar 2026	02
f.	4220785339991	Rocket Parachute Flares	Mar 2026	04
g.	6160785289107	Lithium cell & Canopy light	Aug 2027	01
h.	4220546 013157	Repair Kit	Apr 2026	01
m.	-	Seasickness Pills	Aug 2026	180
PMSS BASOL				
a.	4220735289495	Fresh water	Mar 2026	75
b.	4220795289489	Standard emergency ration/ dry ration food for survival pack life raft	Apr 2026	20
c.	4220795289489	First Aid Kit for life raft	Feb 2026	01
d.	1370992197117	Hand Flare Red	Mar 2026	04
e.	4220785289433	Buoyant Smoke Signals	Mar 2026	01
f.	4220785339991	Rocket Parachute Flares	Mar 2026	02
g.	6160785289107	Lithium cell & Canopy light	Aug 2027	01
h.	4220546 013157	Repair Kit	Apr 2026	01
PMSS DASHT				
a.	4220735289495	Fresh water	Aug 2026	240 in No (500 ml)
b.	4220795289489	Standard emergency ration/ dry ration food for survival pack life raft	Aug 2026	80 In No (500 gm)
c.	4220795289489	First Aid Kit for life raft	May 2026	04 in No
d.	1370992197117	Hand Flare Red	May 2026	24 in No
e.	4220785289433	Buoyant Smoke Signals	May 2026	08 Pkts
f.	4220785339991	Rocket Parachute Flares	May 2026	16 in No
g.	6160785289107	Lithium cell & Canopy light	-	-
h.	4220546 013157	Repair Kit	May 2026	04 in No
PMSS REHMAT				
a.	4220735289495	Fresh water	-	-
b.	4220795289489	Standard emergency ration/ dry ration food for survival pack life raft	-	-
c.	4220795289489	First Aid Kit for life raft	Mar 2027	02
d.	1370992197117	Hand Flare Red	Jan 2027	12
e.	4220785289433	Buoyant Smoke Signals	Jan 2027	04
f.	4220785339991	Rocket Parachute Flares	Jan 2027	12
g.	6160785289107	Lithium cell & Canopy light	-	-
h.	4220546 013157	Repair Kit	Dec 2026	03
PMSS KASHMIR				
a.	4220735289495	Fresh water	Jul 2025	300
b.	4220795289489	Standard emergency ration/ dry ration food for survival pack life raft	Oct 2025	100

c.	4220795289489	First Aid Kit for life raft	Jan 2026	04
d.	1370992197117	Hand Flare Red	Jan 2026	24
e.	4220785289433	Buoyant Smoke Signals	May 2026	08
f.	4220785339991	Rocket Parachute Flares	Jan 2026	16
g.	6160785289107	Lithium cell & Canopy light	May 2025	04
h.	4220546 013157	Repair Kit	May 2025	04
PMSS RAFAQAT				
a.	4220785339991	Rocket Parachute Flares	May 2024	03
PMSS BARKAT				
a.	4220795289489	First Aid Kit for life raft	Mar 2026	03
b.	-	Torch Battery	Oct 2026	03
c.	-	Beacon Light	Feb 2027	02
PMSS NUSRAT				
a.	4220795289489	First Aid Kit for life raft	Oct 2026	03
b.	1370992197117	Hand Flare Red	Jan 2027	18
c.	4220785339991	Rocket Parachute Flares	Jan 2027	12
d.	4220785289433	Buoyant Smoke Signals	Jan 2027	06
e.	4220546 013157	Repair Kit	Oct 2026	03

IT NO: IT/PM/87/75/2025-26**IT SPECIFICATION****PROCUREMENT OF OILS/ LUBRICANTS & COOLANTS FOR PMSA SHIPS**

S No	Description				
1.	Ships Name	PMSA SHIPS			
2.	Parent Equipment	Oils/ Lubricants & Coolants FOR PMSA SHIPS			
3.	Part No. of Assembly Equipment Quantity	S. No	Description	Den	Qty Required
		1.	15 W40 (CAT)/ (SHELL)	Ltr	6070
		2.	Grease Sea Water	Kg	88
		3.	Petrol	Ltr	620
		4.	CAT ELC	Ltr	2030
		5.	OM-11	Ltr	25
		6.	OM 65	Ltr	55
		7.	Junior II HPAC Oil	Ltr	5
		8.	OMD-113	Ltr	500
		9.	OM-33	Ltr	100
		10.	Multi Purpose Grease XG-286	Kg	60
		11.	Grease Pumpable Calcium Base XG 380	Kg	5
		12.	OMD-23	Ltrs	10
		13.	Coolant PMSS NUSRAT	Ltrs	350
		14.	R-22	Kg	26.2
		15.	R-410 A	Kg	76.2
		16.	R-134 A	Kg	98
		17.	ATF DEXRON II	Ltrs	100
		18.	TC3/ T2 Oil for two stroke OBM	Ltrs	250
		19.	Gear Oil SAE 90 GL 4	Ltrs	50
		20.	YAMA Lube Gear Oil SAE-90 GL-5 (20 Ltr Packing)	Ltrs	50
		21.	Lub Oil Shell Rimula R4X API CI-4 SAE 15W49 (Packing 209 Ltrs)	Ltrs	418
		22.	20W50	Ltr	114
		23.	Ready Mix Coolant	Ltrs	100
		24.	T-2	Ltrs	50
		25.	Kerosene Oil	Ltrs	60
		26.	Thinner	Ltrs	20
		27.	Contact Cleaner	Ltrs	14
		28.	Coolant For Transport & DG	Ltrs	25
		29.	S2M46 (Hydraulic)	Ltrs	840
		30.	Shell Corena P100	Ltrs	60
		31.	Shell Calvas G32 oil/ SUNISO SL-32	Ltrs	40
		32.	Lithium Base Grease	Kg	62
		33.	Fin Stabilizer Grease	Kg	8
		34.	Grease ball and roller bearing (Aeroshell Grease 22) (XG-293)	Kg	132
35.	CS-100 (Coolant Engine)	Ltrs	640		

4.		36.	Refrigerant 404 A	Kg	495
		37.	Water Indicating Paste	No	6
		38.	Grease ball and roller bearing (XG-293)	Kg	32
		39.	WD-40 Corrosion Preventive Agent	No	12
		40.	Ceiling Compound	No	6
		41.	Shell Gadinia S3-40 Main Engine and Gear box	Ltrs	4180
		42.	LHV-46 CPP System (300+300)	Ltrs	1254
		43.	LHM-46 Steering system	Ltrs	1200
		44.	N 28355 HPAC/VDL-100	Ltrs	30
		45.	C-100 Portable HPAC	Ltrs	10
		46.	LHV-68 RHIB Boat Davit and Main Engine Governor	Ltrs	1300
		47.	LHM-32 Fin Stabilizer (300+300)	Ltrs	448
		48.	BOKE SE-55 Main Fridge Compressor oil	Ltrs	20
		49.	Sinopec LHM-46 Hydraulic Brake oil for Shaft	Ltrs	400
		50.	Capstan's gear oil	Ltrs	416
		51.	MOBIL OELVAC 15W-40 SSDGs, Emergency Genset and RHIBs	Ltrs	2496
		52.	LHV 46 Hydraulic Oil for Knuckle crane 2 ton	Ltrs	480
		53.	EP2-EP3 Grease for Shaft	Kg	36
		54.	Lubricating Grease for Anchor Windlass	15	30
		55.	Grease for Accommodation Ladder	Kg	10
		56.	Hydraulic oil for Winch Gear Box	Ltrs	10
		57.	Fin Stabilizer 1#Complex Aluminum based lubrication grease	Kg	20
		58.	SAE -90 RO Plant HP pump oil	Ltrs	40
		59.	Silicone grease	Kg	20
		60.	Grease Multipurpose: Heavy Duty XG-291 (G-421) 3 Kg Pack	Kg	48
		61.	AFFF Drums 20L	Ltrs	2400
		62.	Belzona	Kg	12
		63.	SSDG Coolant (ES coolant premix)	Ltrs	120
		64.	SAE 20W50 Shell Petrol Engine Oil	Ltrs	300
		65.	SAE 20W50 Shell Diesel Engine Oil	Ltrs	300
	66.	SAE 10W40 Shell Petrol Engine Oil	Ltrs	50	
	67.	SEIKEN DOT 3 Brake Fluid	Ltrs	100	
	68.	Shell Rimula R-4X AFI CI-4 SAE 15W40	Ltrs	1906	
	69.	SSDG Coolant (ES coolant premix)	Ltrs	120	
5.	Source of Availability	MTU / Local Contractor			
6.	Justification for work	Procurement/ demand of CS-100 MTU Coolant for Main Engines			
7.	Technical Specs	As per Technical Manual/ OEM			
8.	Eligibilities	a. Only OEM recommended Coolant should be procured. b. Firm must visit site for understanding exact nature of work prior quoting to avoid inconvenience on later stage after award of Work Order.			
9.	EDC	ASAP			
10.	Warranty	1 Year			
11.	Acceptance Criteria	Technical specification to be provided by Firm			

PROCUREMENT OF OILS/ LUBRICANTS & COOLANTS FOR PMSA SHIPS

S No	Description																																																																																																																												
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a.		15 W40 (CAT)	1040 Ltrs																																																																																																																										
b.		15 W40 (Shell)	210 Ltrs																																																																																																																										
c.		Grease Sea Water	20 KG																																																																																																																										
d.		Petrol	210 Ltrs																																																																																																																										
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a.	OM-11	25 Ltrs																																																																																																																											
b.	Petrol	200 Ltrs																																																																																																																											
c.	OM 65	25 Ltrs																																																																																																																											
d.	Junior II HPAC Oil	05 ltrs																																																																																																																											
e.	OMD-113	420 Ltrs																																																																																																																											
f.	Shell Rimulla 15W40	900 Ltrs																																																																																																																											
g.	OM-33	100 Ltrs																																																																																																																											
h.	Multi Purpose Grease XG-286	20 Kg																																																																																																																											
i.	Grease Pumpable Calcium Base XG 380	05 Kg																																																																																																																											
j.	OMD-23	10 Ltrs																																																																																																																											
COOLANT																																																																																																																													
k.	Coolant	350 Ltrs																																																																																																																											
l.	R-22	26.2 Kg																																																																																																																											
m.	R-410 A	26.2 Kg																																																																																																																											
n.	R-134 A	11 Kg																																																																																																																											
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b.	TC3/ T2 Oil for two stroke OBM	250 Ltrs																																																																																																																											
c.	Gear Oil SAE 90 GL 4	50 Ltrs																																																																																																																											
d.	YAMA Lube Gear Oil SAE-90 GL-5 (20 Ltr PAcKING)	50 Ltrs																																																																																																																											
e.	Lub Oil Shell Rimula R4X API CI-4 SAE 15W49 (Packing 209 Ltrs)	418 Ltrs																																																																																																																											
4.																																																																																																																													

COOLANT		
f.	Coolants CAT ELC (205-6612) (5 Ltrs Packing)	100 Ltrs
PMSA BASE GWADAR		
OIL / LUBRICANTS		
a.	OMD 113	80 Ltrs
b.	15W40	80 Ltrs
c.	20W50	30 Ltrs
COOLANT		
d.	Ready Mix	100 Ltrs
PMSA BASE RISHAD		
OIL / LUBRICANTS		
a.	OMD-113	Nil
b.	T-2	50 Ltrs
c.	OM-65	30 Ltrs
d.	Kerosene Oil	60 Ltrs
e.	Thinner	20 Ltrs
f.	HSD 20W50	20 Ltrs
g.	Contact Cleaner	02 Ltrs
COOLANT		
h.	410 A GAS	50 Kg
i.	ELC Coolants	50 Ltrs
PMSA BASE ORMARA		
OIL / LUBRICANTS		
a.	20W50 for Transport	64 Ltrs
b.	15W40 for DG	150 Ltrs
COOLANT		
c.	For Transport & DG	25 Ltrs
PMSS BASOL		
OIL / LUBRICANTS		
a.	Shell Rimula SAE 15W40	1600 Ltrs
b.	S2M46 (Hydraulic)	420 Ltrs
c.	Shell Corena P100	20 Ltrs
d.	Shell Calvas G32 oil/ SUNISO SL-32	20 Ltrs
e.	Grease LG 280 (XG-286)	20 Kg
f.	Lithium Base Grease	16 Kg
g.	Fin Stabilizer Grease	04 Kg
h.	Grease ball and Roller Bearing (Aeroshell Grease 22)	32 Kg
COOLANT		
i.	CAT ELC (Coolant DG)	100 Ltrs
j.	CS-100 (Coolant Engine)	120 Ltrs
k.	Refrigerant 404 A	66 Kg
PMSS HINGOL		
OIL / LUBRICANTS		
a.	Shell Rimula SAE 15W40	840 Ltrs
b.	S2M46 (Hydraulic)	420 Ltrs
c.	Shell Corena P100	40 Ltrs
d.	Water Indicating Paste	06 No
e.	Shell Calvas G32 oil/ SUNISO SL-32	20 Ltrs

f.	Grease LG 280 (XG-286)	20 kg
g.	Lithium Base Grease	16 kg
h.	Fin Stabilizer Grease	04 kg
i.	Grease ball and roller bearing (XG-293)	32 kg
j.	WD-40 Corrosion Preventive Agent	12 No
k.	Contact Cleaner	12 No
l.	Ceiling Compound	06 No
COOLANT		
m.	Refrigerant R404a	99 kg
n.	CAT ELC (Coolant DG)	100 Ltrs
o.	CS~100 (Coolant Engine)	120 Ltrs
PMSS KOLACHI		
OIL / LUBRICANTS		
a.	Shell Gadinia S3-40 Main Engine and Gear box	2090 Ltrs
b.	LHV-46 CPP System (300+300)	627 Ltrs
c.	LHM-46 Steering system	600 Ltrs
d.	N 28355 HPAC/VDL-100	15 Ltrs
e.	C-100 Portable HPAC	5 Ltrs
f.	LHV-68 RHIB Boat Davit and Main Engine Governor	650 Ltrs
g.	LHM-32 Fin Stabilizer (300+300)	224 Ltrs
h.	BOKE SE-55 Main Fridge Compressor oil	10 Ltrs
i.	Sinopec LHM-46 Hydraulic Brake oil for Shaft	200 Ltrs
j.	Capstan's gear oil	208 Ltrs
k.	MOBIL OELVAC 15W-40 SSDGs, Emergency Genset and RHIBs	1248 Ltrs
l.	LHV 46 Hydraulic Oil for Knuckle crane 2 ton	240 Ltrs
m.	EP2-EP3 Grease for Shaft	18 Kg
n.	Lubricating Grease for Anchor Windlass	15 Kg
o.	Grease for Accommodation Ladder	5 Kg
p.	Hydraulic oil for Winch Gear Box	5 Ltrs
q.	Lithium based grease for steering	15 Kg
r.	Fin Stabilizer 1#Complex Aluminum based lubrication grease	10 Kg
s.	SAE -90 RO Plant HP pump oil	20 Ltrs
t.	Silicone grease	10 Kg
u.	Grease Multipurpose: Heavy Duty XG-291 (G-421) 3 Kg Pack	24 Kg
v.	Grease sea water resisting XG 286	24 Kg
w.	Grease ball and roller bearing (Aeroshell Grease 22) (XG-293)	50 Kg
x.	AFFF Drums 20L	1200 Ltrs
y.	Belzona	6 Kg
COOLANT		
z.	SSDG Coolant (ES coolant premix)	120 Ltrs

aa.	R-404A Main Fridge and Chiller	165 Kg
bb.	R 134A Coolers & Small Fridge	43.5 Kg
PMSS INDUS / TPT		
OIL / LUBRICANTS		
a.	SAE 20W50 Shell Petrol Engine Oil	300 Ltrs
b.	SAE 20W50 Shell Diesel Engine Oil	300 Ltrs
c.	SAE 10W40 Shell Petrol Engine Oil	50 Ltrs
d.	SEIKEN DOT 3 Brake Fluid	100 Ltrs
PMSS DASHT		
COOLANT		
e.	CS-100 MTU Coolant	400 Ltrs
PMSS ZHOB		
OIL / LUBRICANTS		
a.	Shell Rimula R-4X AFI CI-4 SAE 15W40	
PMSS KASHMIR		
OIL / LUBRICANTS		
a.	Shell Gadinia S3-40 Main Engine and Gear box	2090 Ltrs
b.	LHV-46 CPP System (300+300)	627 Ltrs
c.	LHM-46 Steering system	600 Ltrs
d.	N 28355 HPAC/VDL-100	15 Ltrs
e.	C-100 Portable HPAC	5 Ltrs
f.	LHV-68 RHIB Boat Davit and Main Engine Governor	650 Ltrs
g.	LHM-32 Fin Stabilizer (300+300)	224 Ltrs
h.	BOKE SE-55 Main Fridge Compressor oil	10 Ltrs
i.	Sinopec LHM-46 Hydraulic Brake oil for Shaft	200 Ltrs
j.	Capstan's gear oil	208 Ltrs
k.	MOBIL OELVAC 15W-40 SSDGs, Emergency Genset and RHIBs	1248 Ltrs
l.	LHV 46 Hydraulic Oil for Knuckle crane 2 ton	240 Ltrs
m.	EP2-EP3 Grease for Shaft	18 Kg
n.	Lubricating Grease for Anchor Windlass	15 Kg
o.	Grease for Accommodation Ladder	5 Kg
p.	Hydraulic oil for Winch Gear Box	5 Ltrs

		q.	Lithium based grease for steering	15 Kg												
		r.	Fin Stabilizer 1#Complex Aluminum based lubrication grease	10 Kg												
		s.	SAE -90 RO Plant HP pump oil	20 Ltrs												
		t.	Silicone grease	10 Kg												
		u.	Grease Multipurpose: Heavy Duty XG-291 (G-421) 3 Kg Pack	24 Kg												
		v.	Grease sea water resisting XG 286	24 Kg												
		w.	Grease ball and roller bearing (Aeroshell Grease 22) (XG-293)	50 Kg												
		x.	AFFF Drums 20L	1200 Ltrs												
		y.	Belzona	6 Kg												
		COOLANT														
		z.	SSDG Coolant (ES coolant premix)	120 Ltrs												
		aa.	R-404A Main Fridge and Chiller	165 Kg												
		bb.	R 134A Coolers & Small Fridge	43.5 Kg												
5.	Source of Availability	MTU / Local Contractor														
6.	Justification for work	Procurement/ demand of CS-100 MTU Coolant for Main Engines														
7.	Work Required	<table border="1"> <thead> <tr> <th>a</th> <th>b</th> <th>c</th> <th>d</th> </tr> </thead> <tbody> <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 list</td> <td>Procurement/ of Oil/ Lubricants and coolants</td> <td>N/A</td> <td>As per S No 04</td> </tr> </tbody> </table>			a	b	c	d	Defect/ Routine List	Repair Work Required	Services Required	Spares Required	As per defect list	Procurement/ of Oil/ Lubricants and coolants	N/A	As per S No 04
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8.	Details Scope of Work	<table border="1"> <thead> <tr> <th>A</th> <th>b</th> <th>c</th> </tr> </thead> <tbody> <tr> <td>Details of Repair work Required</td> <td>Details of services Required</td> <td>Details of Spares Required</td> </tr> <tr> <td>Procurement/ of Oil/ Lubricants and coolants</td> <td>N/A</td> <td>-</td> </tr> </tbody> </table>			A	b	c	Details of Repair work Required	Details of services Required	Details of Spares Required	Procurement/ of Oil/ Lubricants and coolants	N/A	-			
A	b	c														
Details of Repair work Required	Details of services Required	Details of Spares Required														
Procurement/ of Oil/ Lubricants and coolants	N/A	-														
9.	Technical Specs	As per Technical Manual/ OEM														
10.	Eligibilities	a. Only OEM recommended Coolant should be procured. b. Firm must visit site for understanding exact nature of work prior quoting to avoid inconvenience on later stage after award of Work Order.														
11.	EDC	ASAP														
12.	Warranty	1 Year														
13.	Acceptance Criteria	Technical specification to be provided by Firm														
14.	Any other relevant information	Contact MEO/ SS and firm visit onboard to resolve any query														

PROCUREMENT OF OILS LUBRICANTS & COOLANTS FOR PMSA SHIPS

S No	Description	WOS Qty	Qty Required	Issued history from POLD
PMSS RAFAQAT				
OIL / LUBRICANTS				
1.	15 W40 (CAT)	1040 Ltrs	1040 Ltrs	Annual
2.	15 W40 (Shell)	210 Ltrs	210 Ltrs	-"-
3.	Grease Sea Water	80 KG	20 KG	Annual
4.	Petrol	840 Ltrs	210 Ltrs	-"-
COOLANT				
5.	CAT ELC	840 Ltrs	840 Ltrs	Annual
PMSS SABQAT				
OIL / LUBRICANTS				
6.	15 W40 (CAT)	1040 Ltrs	1040 Ltrs	Annual
7.	15 W40 (Shell)	210 Ltrs	210 Ltrs	-"-
8.	Grease Sea Water	80 KG	20 KG	Annual
9.	Petrol	840 Ltrs	210 Ltrs	-"-
COOLANT				
10.	CAT ELC	840 Ltrs	840 Ltrs	Annual
PMSS NUSRAT				
OIL / LUBRICANTS				
11.	OM-11	25 Ltrs	25 Ltrs	N/K
12.	Petrol	200 Ltrs	200 Ltrs	21-01-26
13.	OM 65	05 Ltrs	25 Ltrs	N/K
14.	Junior II HPAC Oil	-	05 ltrs	Nil
15.	OMD-113	900 Ltrs	420 Ltrs	13-11-25 05-06-25
16.	Shell Rimulla 15W40	265 Ltrs	900 Ltrs	21-01-26 13-11-25
17.	OM-33	100 Ltrs	100 Ltrs	29-05-23
18.	Multi Purpose Grease XG-286	20 Kg	20 Kg	N/K
19.	Grease Pumpable Calcium Base XG 380	05 Kg	05 Kg	N/K
20.	OMD-23	10 Ltrs	10 Ltrs	Nil
COOLANT				
21.	Coolant	350 Ltrs	350 Ltrs	N/K
22.	R-22	26 Kg	26.2 Kg	26-01-26
23.	R-410 A	26 Kg	26.2 Kg	26-01-26
24.	R-134 A	08 Kg	11 Kg	26-01-26
EASTERN WING				
OIL / LUBRICANTS				
25.	ATF DEXRON II	-	100 Ltrs	20 Ltrs on 31-12-24
26.	TC3/ T2 Oil for two stroke OBM	-	250 Ltrs	250 Ltrs on 21-11-23
27.	Gear Oil SAE 90 GL 4	-	50 Ltrs	31 tubes on 02-01-26
28.	YAMA Lube Gear Oil SAE-90 GL-5 (20 Ltr PAcKING)	-	50 Ltrs	20 Ltrs on 16-01-25
29.	Lub Oil Shell Rimula R4X API CI-4 SAE 15W49 (Packing 209 Ltrs)	-	418 Ltrs	418 Ltrs on 04-12-25
COOLANT				
30.	Coolants CAT ELC (205-6612) (5 Ltrs Packing)	-	100 Ltrs	-
PMSA BASE GWADAR				
OIL / LUBRICANTS				

31.	OMD 113		80 Ltrs	Oct 25
32.	15W40		80 Ltrs	Oct 25
33.	20W50		30 Ltrs	Oct 25
COOLANT				
34.	Ready Mix		100 Ltrs	Nil
PMSA BASE RISHAD				
OIL / LUBRICANTS				
35.	OMD-113		Nil	140 Ltrs
36.	T-2		50 Ltrs	Nil
37.	OM-65		30 Ltrs	Nil
38.	Kerosene Oil		60 Ltrs	Nil
39.	Thinner		20 Ltrs	Nil
40.	HSD 20W50		20 Ltrs	30 Ltrs
41.	Contact Cleaner		02 Ltrs	Nil
COOLANT				
42.	410 A GAS		50 Kg	Nil
43.	ELC Coolants		50 Ltrs	Nil
PMSA BASE ORMARA				
OIL / LUBRICANTS				
44.	20W50 for Transport		64 Ltrs	26 Aug 25
45.	15W40 for DG		150 Ltrs	
COOLANT				
46.	For Transport & DG		25 Ltrs	
PMSS BASOL				
OIL / LUBRICANTS				
47.	Shell Rimula SAE 15W40	420 Ltrs	1600 Ltrs	420 Ltrs on 06-11-25
48.	S2M46 (Hydraulic)	210 Ltrs	420 Ltrs	Nil
49.	Shell Corena P100	20 Ltrs	20 Ltrs	Nil
50.	Shell Calvas G32 oil/ SUNISO SL-32	10 Ltrs	20 Ltrs	Nil
51.	Grease LG 280 (XG-286)	10 Kg	20 Kg	Nil
52.	Lithium Base Grease	08 Kg	16 Kg	Nil
53.	Fin Stabilizer Grease	02 Kg	04 Kg	Nil
54.	Grease ball and Roller Bearing (Aeroshell Grease 22)	16 Kg	32 Kg	Nil
COOLANT				
55.	CAT ELC (Coolant DG)	20 Ltrs	100 Ltrs	Nil
56.	CS-100 (Coolant Engine)	30 Ltrs	120 Ltrs	Nil
57.	Refrigerant 404 A	33 Kg	66 Kg	Nil
PMSS HINGOL				
OIL / LUBRICANTS				
58.	Shell Rimula SAE 15W40	420 Ltrs	840 Ltrs	420 Ltrs on 12-01-26
59.	S2M46 (Hydraulic)	210 Ltrs	420 Ltrs	Nil
60.	Shell Corena P100	20 Ltrs	40 Ltrs	20 Ltrs on 12-01-26
61.	Water Indicating Paste	03 No	06 No	Nil
62.	Shell Calvas G32 oil/ SUNISO SL-32	10 Ltrs	20 Ltrs	Nil
63.	Grease LG 280 (XG-286)	10 kg	20 kg	Nil
64.	Lithium Base Grease	08 kg	16 kg	Nil
65.	Fin Stabilizer Grease	02 kg	04 kg	Nil
66.	Grease ball and roller bearing (XG-293)	16 kg	32 kg	Nil
67.	WD-40 Corrosion Preventive Agent	06 No	12 No	Nil
68.	Contact Cleaner	06 No	12 No	Nil
69.	Ceiling Compound	03 No	06 No	Nil
COOLANT				
70.	Refrigerant R404a	33 kg	99 kg	Nil

71.	CAT ELC (Coolant DG)	20 Ltrs	100 Ltrs	Pending
72.	CS~100 (Coolant Engine)	30 Ltrs	120 Ltrs	Nil
PMSS ZHOB				
OIL / LUBRICANTS				
73.	Shell Rimula R-4X AFI CI-4 SAE 15W40			
PMSS KASHMIR				
OIL / LUBRICANTS				
74.	Shell Gadinia S3-40 Main Engine and Gear box	680 Ltrs	2090 Ltrs	50 Ltrs Qty increased due to packing issue
75.	LHV-46 CPP System (300+300)	209 Ltrs	627 Ltrs	
76.	LHM-46 Steering system	195 Ltrs	600 Ltrs	15 Ltrs Qty increased due to packing issue
77.	N 28355 HPAC/VDL-100	5 Ltrs	15 Ltrs	
78.	C-100 Portable HPAC	1.5 Ltrs	5 Ltrs	0.5 Ltrs Qty increased due to packing issue
79.	LHV-68 RHIB Boat Davit and Main Engine Governor	209 Ltrs	650 Ltrs	23 Ltrs Qty increased due to packing issue
80.	LHM-32 Fin Stabilizer (300+300)	70 Ltrs	224 Ltrs	14 Ltrs Qty increased due to packing issue
81.	BOKE SE-55 Main Fridge Compressor oil	2 Ltrs	10 Ltrs	4 Ltrs Qty increased due to packing issue
82.	Sinopec LHM-46 Hydraulic Brake oil for Shaft	40 Ltrs	200 Ltrs	80 Ltrs Qty increased due to packing issue
83.	Capstan's gear oil	5 Ltrs	208 Ltrs	193 Ltrs Qty increased due to packing issue
84.	MOBIL OELVAC 15W-40 SSDGs, Emergency Genset and RHIBs	416 Ltrs	1248 Ltrs	
85.	LHV 46 Hydraulic Oil for Knuckle crane 2 ton	80 Ltrs	240 Ltrs	
86.	EP2-EP3 Grease for Shaft	5 Kg	18 Kg	3 Kg Qty increased due to packing issue
87.	Lubricating Grease for Anchor Windlass	5 Kg	15 Kg	

88.	Grease for Accommodation Ladder	1 Kg	5 Kg	2 Kg Qty increased due to packing issue
89.	Hydraulic oil for Winch Gear Box	1 Ltrs	5 Ltrs	2 Ltrs Qty increased due to packing issue
90.	Lithium based grease for steering	4 Kg	15 Kg	3 Kg Qty increased due to packing issue
91.	Fin Stabilizer 1#Complex Aluminum based lubrication grease	2 Kg	10 Kg	4 Kg Qty increased due to packing issue
92.	SAE -90 RO Plant HP pump oil	5 Ltrs	20 Ltrs	5 Ltrs Qty increased due to packing issue
93.	Silicone grease	3 Kg	10 Kg	1 Kg Qty increased due to packing issue
94.	Grease Multipurpose: Heavy Duty XG-291 (G-421) 3 Kg Pack	1 Kg	24 Kg	
95.	Grease sea water resisting XG 286	1 Kg	24 Kg	
96.	Grease ball and roller bearing (Aeroshell Grease 22) (XG-293)	16 Kg	50 Kg	2 Kg Qty increased due to packing issue
97.	AFFF Drums 20L	NIL	1200 Ltrs	
98.	Belzona	2 Kg	6 Kg	
COOLANT				
99.	SSDG Coolant (ES coolant premix)	40 Ltrs	120 Ltrs	
100.	R-404A Main Fridge and Chiller	54 Kg	165 Kg	3 Kg Qty increased due to packing issue
101.	R 134A Coolers & Small Fridge	10 Kg	43.5 Kg	13.5K Qty increased due j to packing issue

PMSS KASHMIR				
102.	Shell Gadinia S3-40 Main Engine and Gear box	680 Ltrs	2090 Ltrs	50 Ltrs Qty increased due to packing issue
103.	LHV-46 CPP System (300+300)	209 Ltrs	627 Ltrs	
104.	LHM-46 Steering system	195 Ltrs	600 Ltrs	15 Ltrs Qty increased due to packing issue
105.	N 28355 HPAC/VDL-100	5 Ltrs	15 Ltrs	
106.	C-100 Portable HPAC	1.5 Ltrs	5 Ltrs	0.5 Ltrs Qty increased due to packing issue
107.	LHV-68 RHIB Boat Davit and Main Engine Governor	209 Ltrs	650 Ltrs	23 Ltrs Qty increased due to packing issue
108.	LHM-32 Fin Stabilizer (300+300)	70 Ltrs	224 Ltrs	14 Ltrs Qty increased due to packing issue
109.	BOKE SE-55 Main Fridge Compressor oil	2 Ltrs	10 Ltrs	4 Ltrs Qty increased due to packing issue
110.	Sinopec LHM-46 Hydraulic Brake oil for Shaft	40 Ltrs	200 Ltrs	80 Ltrs Qty increased due to packing issue
111.	Capstan's gear oil	5 Ltrs	208 Ltrs	193 Ltrs Qty increased due to packing issue
112.	MOBIL OELVAC 15W-40 SSDGs, Emergency Genset and RHIBs	416 Ltrs	1248 Ltrs	
113.	LHV 46 Hydraulic Oil for Knuckle crane 2 ton	80 Ltrs	240 Ltrs	
114.	EP2-EP3 Grease for Shaft	5 Kg	18 Kg	3 Kg Qty increased due to packing issue
115.	Lubricating Grease for Anchor Windlass	5 Kg	15 Kg	
116.	Grease for Accommodation Ladder	1 Kg	5 Kg	2 Kg Qty increased due to packing issue
117.	Hydraulic oil for Winch Gear Box	1 Ltrs	5 Ltrs	2 Ltrs Qty increased due to packing issue

118.	Lithium based grease for steering	4 Kg	15 Kg	3 Kg Qty increased due to packing issue
119.	Fin Stabilizer 1#Complex Aluminum based lubrication grease	2 Kg	10 Kg	4 Kg Qty increased due to packing issue
120.	SAE -90 RO Plant HP pump oil	5 Ltrs	20 Ltrs	5 Ltrs Qty increased due to packing issue
121.	Silicone grease	3 Kg	10 Kg	1 Kg Qty increased due to packing issue
122.	Grease Multipurpose: Heavy Duty XG-291 (G-421) 3 Kg Pack	1 Kg	24 Kg	
123.	Grease sea water resisting XG 286	1 Kg	24 Kg	
124.	Grease ball and roller bearing (Aeroshell Grease 22) (XG-293)	16 Kg	50 Kg	2 Kg Qty increased due to packing issue
125.	AFFF Drums 20L	NIL	1200 Ltrs	
126.	Belzona	2 Kg	6 Kg	
127.	R-404A Main Fridge and Chiller	54 Kg	165 Kg	3 Kg Qty increased due to packing issue
128.	R 134A Coolers & Small Fridge	10 Kg	43.5 Kg	13.5K Qty increased due j to packing issue

PMSS INDUS / TPT

OIL / LUBRICANTS

129.	SAE 20W50 Shell Petrol Engine Oil		300 Ltrs	
130.	SAE 20W50 Shell Diesel Engine Oil		300 Ltrs	
131.	SAE 10W40 Shell Petrol Engine Oil		50 Ltrs	
132.	SEIKEN DOT 3 Brake Fluid		100 Ltrs	

PMSS DASHT

COOLANT

133.	CS-100 MTU Coolant		400 Ltrs	
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PMSS ZHOB

OIL / LUBRICANTS

134.	Shell Rimula R-4X AFI CI-4 SAE 15W40		1906 Ltrs	
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IT NO: IT/PM/87/76/2025-26

SMALL STANDARD DUTY (SSD) FOAM FILLED MARINE FENDER - PMSS ZHOB

S No	Details	
1.	Ships Name	PMSS ZHOB
2.	Parent Equipment	Small Standard Duty (SSD) Foam Filled Marine Fender
3.	OEM	Marine Fenders International, Inc.
4.	Model	Cylindrical Marine Fender
5.	Origin	USA
6.	Sub Equipment	Marine Fender
7.	Assembly Component	Cylindrical Marine Fender
8.	Part No. of Assembly Component	OG-SSD-2436/OG-SSD-1636
9.	Quantity	2 x in Nos (Marine fender size 24 x 36 inch) 4 x in Nos (Marine fender size 16 x 36 inch)
10.	Work Required	Procurement of 6 x SSD Foam Filled Marine Fender
11.	Detailed scope of work	Procurement of 2 x in Nos (Marine fender size 24 x 36 inch) and 4 x in Nos (Marine fender size 16 x 36 inch)
12.	Technical Specs	a. Size of fender: 16 x 36 inches (400x900) 24 x 36 inches (600x900) b. Safe working load 2 tons c. Pad eye end fittings internally connected with chain d. Hawse pipe and rope type end fittings e. Certificate of safe working load test must be provided by OEM
13.	Eligibilities	Any firm having experience with PMSA
14.	EDC	ASAP
15.	Acceptance Criteria	a. Specification as per manufacturer's product sheet. b. Physical inspection of provided item w.r.t physical inspection.
16.	Any other relevant info	Equivalent OEMs acceptable subject to compliance with technical specifications

Note: 100% Payment after completion by CNA

Director General
Pakistan Maritime Security Agency
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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 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.