

SEPARATE QUOTATIONS REQUIRED FOR ATTACHED 68 X IT SPECIFICATIONS

SINGLE STAGE TWO ENVELOPE PROCEDURE

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

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

Stage I – Technical Proposal (First Envelope)

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

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

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

Stage II – Commercial Proposal (Second Envelope)

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

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

REPAIR/ OVERHAULING OF 10 X MARINE FAN COIL UNITS - PMSS BASOL

S No	Details					
1.	Ships Name	PMSS BASOL				
2.	Parent Equipment	Main air conditioning system				
3.	OEM/ ORIGIN	China				
4.	Model	CFP-LGX, CFP-WM, CFP-LG				
5.	Sub Equipment	FCU				
6.	Part No. of Assembly Component	As provided by OEM				
7.	Quantity	10 IN No				
8.	Source of Availability	Local Market				
9.	Justification for Work	PMS No 3-6163-0001, MOP No PM-008, (10 x fan coil unit overhauling due)				
10.	Work Required	a		b	c	d
		Defect/ Routine List		Repair Work Required	Services Required	Spares Required
		PMS No 3-6163-0001, MOP No PM-008, (10 x fan coil unit overhauling due)		Complete overhauling of all parts of 10 x fan coil unit required	Complete overhauling of all parts of 10 x fan coil unit required	As per Serial No 10 & 11
11.	Detailed scope of work	a		b		c
		Detail of Repair Work Required		Detail of Services Required		Detail of Spares Required
		Complete overhauling of all parts of 10 x fan coil unit required		Complete overhauling of all parts of 10 x fan coil unit required		As per Serial No 10 & 11
12.	Technical Specs	As per sample				
13.	Eligibilities	Local and international contractor registered with FBR and having working experience with PMSA				
14.	EDC	07 Days				
15.	Warranty	01 Year				
16.	Acceptance Criteria	a. OEM certified items b. All BER items is to be replaced with new c. Use tested tools				

INSPECTION/ SERVICING OF ELECTRIC PANEL OF SEA WATER, CHILLER WATER AND FLUSHING PUMPS - PMSS BASOL

S No	Details				
1.	Ships Name	PMSS BASOL			
2.	Parent Equipment	02x Sea Water, 02x Chiller Water Pump, 01 Flushing Pump			
3.	OEM/ Origin	China			
4.	Sub Equipment	02x Sea Water, 02x Chiller Water Pump, 01 Flushing Pump			
5.	Assembly Component	02x Sea Water, 02x Chiller Water Pump, 01 Flushing Pump			
6.	Part No. of Assembly Component	S No	Part No	Description	Qty
		a.	AX09-30-10	Magnetic contractor ABB	2
		b.	MS116	Breaker	2
		c.	P285Q45-134- 00	Limit switch	8
		d.	P285Q45-134- 04-18	Auxiliary contact module	8
		e.	P285Q45-134- 04-02	Circuit breaker	8
		f.	P285Q45-134- 04-19	Transformer 380 to 220	2
		g.	NS80H-MA 50A	Breaker	1
		h.	C32N4A/2P	Middle breaker	3
		j.	LC1-D50AM7C+LADN22C	AC contactor	1
		k.	JBK3-400/TH	Transformer	1
		l.	Input 380VAC, output 24VDC.3A	Power switch	1
		m.	ALH-0.66 50A/5A	Current transformer	1
7.	Quantity	As Per Para 6			
8.	Source of Availability	Local Market			
9.	Justification for Work	Servicing/ inspection of Auxiliary pump no 1 and 2 starters FO transfer pump starters, boiler pump starter			
10.	Work Required	a	b	c	d
		Defect/ Routine List	Repair Work Required	Services Required	Spares Required
		02 x Sea Water, 02 x Chiller Water Pump 01 x Flushing Pump	02 x Sea Water, 02 x Chiller Water Pump 01 x Flushing Pump	02 x Sea Water, 02 x Chiller Water Pump, 01 x Flushing Pump	As per S No 6
11.	Detailed scope of work	a	b	c	
		Detail of Repair Work Required	Detail of Services Required	Detail of Spares Required	
		02 x Sea Water, 02 x Chiller Water Pump 01 x Flushing Pump	02 x Sea Water, 02 x Chiller Water Pump, 01 x Flushing Pump	As per S No 6	
12.	Technical Specs	As per sample provided by SS.			
13.	Eligibilities	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.
14.	EDC	07 Days
15.	Warranty	One year warranty.
16.	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 item

IT NO: IT/93/03/2025-26

REPAIR REPLACEMENT OF GENSET NO 02 (AVR) AUTO VOLTAGE REGULATOR CARD - PMSS BASOL

S No	Details				
1.	Ships Name	PMSS BASOL			
2.	Parent Equipment	GENSET NO 2			
3.	OEM	Caterpillar C9 Marine GENSETs			
4.	Model	C9Z05163			
5.	Serial No	Engine.(C9Z05164), Armature.(332401/1)			
6.	Origin	UK			
7.	Sub Equipment	Power Generation System.			
8.	Assembly Component	Auto Voltage Regulator Card.			
9.	Part No. of Assembly Component	As Provided by OEM			
10.	Quantity	01			
11.	Source of Availability	Local Engineering Houses.			
12.	Justification for Work	Genset no 2 AVP. card found defective.			
13.	Work Required	a	b	c	d
		Defect/ Routine List	Repair Work Required	Services Required	Spares Required
		Genset no 2 AVR card found defective.	Repair/ replacement of auto voltage regulator card with new.	Removal, installation and repair/ replacement of AVR card with new.	01 x AVR card.
14.	Detailed scope of work	a	b	c	
		Detail of Repair Work Required	Detail of Services Required	Detail of Spares Required	
		Repair/ replacement of auto voltage regulator card with new.	Removal, installation and repair/ replacement of AVR card with new.	01 x AVR card.	
15.	Technical Specs	As per OEM manual.			
16.	Eligibilities	a. Any registered and security wise cleared local contractor who has working experience of C9 Caterpillar GENSET 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.
17.	EDC	07 Days
18.	Warranty	One year warranty after satisfactory test / trails w.r.t: a. Satisfactory operation of genset with 390V power output and 50 HZ frequency b. Satisfactory operation of genset up to maximum recommended load without any fluctuation c. Satisfactory load sharing/shifting at parallel and synchronizing mode. d. Any defect in AVR components will be rectified/ replace AVR card by the firm during warranty period.
19.	Acceptance Criteria	a. Satisfactory operation of genset with 390V power output and 50 HZ frequency b. Satisfactory operation of genset up to maximum recommended load without any fluctuation c. Satisfactory load sharing/shifting at parallel and synchronizing mode.

REQUIREMENT OF ITEMS FOR GUARDRAILS - PMSS BASOL

S No	Details	
1.	Ships Name	PMSS BASOL
2.	Parent Equipment	Mooring/ Rigging Equipment
3.	OEM	Reputed Manufacturer
4.	Model	Standard Marine Grade
5.	Origin	Local
6.	Sub Equipment	Guardrail wire rope with PVC coating (Black), Shackle 23mm, bottle screw, Bulldog Grips, Ferrule and thimble
7.	Assembly Component	Guardrails
8.	Quantity	100 meter guardrails wire rope with PVC coated (Black), 40 x Ferrule, 40 x Shackle 12mm, 40 x bottle screw slips, 40 x bulldog grips and 4-0 c Thimbles
9.	Source of Availability	Local Market
10.	Justification for Work	Existing guardrails corroded and worn out. Replacement required to maintain safety standards
11.	Work Required	Required all items as per S No 10
12.	Detailed scope of work	Procurement of all items as per S No 8 100 meter guardrails wire rope with PVC coated (Black), 40 x Ferrule, 40 x Shackle 12mm, 40 x bottle screw slips, 40 x bulldog grips and 4-0 c Thimbles
13.	Technical Specs	As per sample
14.	Eligibilities	Local and international contractor registered with FBR and having working experience with PMSA
15.	EDC	07 Days
16.	Warranty	01 Year
17.	Acceptance Criteria	a. OEM certified items b. All BER items is to be replaced with new. c. Use tested tools

INSPECTION/ SERVICING OF AUXILIARIES STARTER - PMSS BASOL

S No	Details				
1.	Ships Name	PMSS BASOL			
2.	Parent Equipment	Auxiliary pumps, FO transfer pumps, boilers pumps			
3.	OEM/ Origin	China			
4.	Sub Equipment	Auxiliary pump no 1 and 2 starters FO transfer pump starters, boiler pump starter			
5.	Assembly Component	Auxiliary pump no 1 and 2 starters FO transfer pump starters, boiler pump starter			
6.	Part No. of Assembly Component	S No	Part No	Description	Qty
		a.	AX09-30-10	Magnetic contractor ABB	2
		b.	MS116	Breaker	2
		c.	P285O45-134-00	Limit switch	8
		d.	P285Q45-134-04-18	Auxiliary contact module	8
		e.	P285Q45-134-04-02	Circuit breaker	8
		f.	P285Q45-134-04-19	Transformer 380 to 220	2
		g.	OMS80	Electric Motor	1
		h.	NS80H-MA 50A	Breaker	1
		j.	C32N4A/2P	Middle breaker	3
		k.	LC1 - D50AM7C+LAD N22C	AC contactor	1
		l.	JBK3-400/TH	Transformer	1
		m.	Input 380VAC, output 24VDC.3A	Power switch	1
		n.	ALH-0.66 50A/5A	Current transformer	1
7.	Quantity	As Per S No 6			
8.	Source of Availability	Local Market			
9.	Justification for Work	Servicing/ inspection of Auxiliary pump no 1 and 2 starters FO transfer pump starters, boiler pump starter			
10.	Work Required	a	b	c	d
		Defect/ Routine List	Repair Work Required	Services Required	Spares Required
		Servicing/ inspection of Auxiliary pump no 1 and 2 starters FO transfer pump starters, boiler pump starter	Servicing/ inspection of Auxiliary pump no 1 and 2 starters FO transfer pump starters, boiler pump starter	Servicing/ inspection of Auxiliary pump no 1 and 2 starters FO transfer pump starters, boiler pump starter	As per S No 6
11.	Detailed scope of work	a	b	c	
		Detail of Repair Work Required	Detail of Services Required	Detail of Spares Required	
		Servicing/ inspection of Auxiliary pump no 1 and 2 starters FO transfer pump starters, boiler pump starter	Servicing/ inspection of Auxiliary pump no 1 and 2 starters FO transfer pump starters, boiler pump starter	As per S No 6	

12.	Technical Specs	As per sample
13.	Eligibilities	Local and international contractor registered with FBR and having working experience with PMSA
14.	EDC	07 Days
15.	Warranty	01 Year
16.	Acceptance Criteria	a. OEM certified items b. All BER items is to be replaced with new c. Use tested tools

OVERHAULING/ REPLACEMENT OF SEA WATER PUMP & INJECTORS HARNESS OF
GENSET NO 01 - PMSS BASOL

S No	Details			
1.	Ships Name	PMSS BASOL		
2.	Parent Equipment	C9 Marine Generator		
3.	OEM	CATERPILLAR		
4.	Model	C9 Air Cooled C9Z05159		
5.	Serial No	C9Z05159		
6.	Origin	China		
7.	Sub Equipment	Fuel System		
8.	Assembly Component	Fuel Injectors harness, Sea water pump		
9.	Part No. of Assembly Component	Part Number	Description	Qty
		170-6116	Pump-GP Auxiliary Seawater with complete body and assembly parts	01
		C9Z05163	Fuel Injector Harness	01
10.	Quantity	01		
11.	Justification for Work	As per OEM recommendation/ Central Maintenance Schedule		
12.	Work Required	a	b	c
		Defect/ Routine List	Repair Work Required	Services Required
		NIL	YES	YES
13.	Detailed scope of work	a	b	c
		Detail of Repair Work Required	Detail of Services Required	Detail of Spares Required
		NIL	Overhauling of C9 CAT GENSET No 1 encompasses following aspects: a. Detailed health inspection of Genset through diagnostic tool and health assessment. b. Overhaul considerations must include inspection/ replacement of 06 x fuel injectors harness, and software updation. c. Inspection/ replacement of sea water pump with complete body assembly parts. d. Provision and installation of only OEM recommended parts for satisfactory operation and extended life of Genset.	Reconditioning/ replacement of following components a. Wiring harness. b. Sea water pump with complete body and assembly parts. c. Software update

			e. Satisfactory onboard trials of Genset after installation on 100% load through load van i e 192 KW. f. PQA of Genset No 2 on variable loads. g. Sharing of report indicating any defects and unseen anomaly in the system.		
14.	Technical Specs	As per OEM/ Technical manual.			
15.	Eligibilities	OEM authorized Rep having experience of CAT C9 DGs fitted on HINGOL class MPVs.			
16.	EDC	07 days			
17.	Warranty	01 year after Satisfactory load trials of GENSET			
18.	Acceptance Criteria	a. Work will be carried out by/ through OEM rep b. PQA of Genset No 1 on variable loads. c. Satisfactory onboard trials of Genset after installation on 100% load through load van i e. 192 KW			

APPLICATION OF HYPOX FLOORING - PMSS BASOL

S No	Details		
1.	Ships Name	PMSS BASOL	
2.	Parent Equipment	Epoxy Flooring	
3.	Quantity	S No	Location
		a.	Bridge
		b.	CO Cabin
		c.	EXO Cabin
		d.	02 x Fwd Mess
		e.	POs Mess
		f.	02 x Aft Mess
		g.	Sickbay
		h.	Routine Office
		h.	Ops Room, MRO
4.	Justification for Work	Epoxy flooring in abovementioned compartments	
5.	Detailed scope of work	a	b
		Detail of Repair Work Required	Detail of Services Required
		Epoxy flooring in above mentioned compartments	a. Removal of deteriorated/ old flooring. b. Application of anti-rust primer c. Laying 4 mm screed d. Application of Epoxy Primer e. Application of Epoxy mid coat. f. Laying of top finish coat
6.	Eligibilities	c	
		Detail of Spares Required	
7.	EDC	N/A	
8.	Warranty	2 Years	
9.	Acceptance Criteria	Satisfactory installation of heavy duty hypox flooring inside compartments	
10.	Any other relevant info	SS may be contacted for any further query/ requirement.	

CLEANING OF AFT ENGINE SEA WATER COOLER (HEAT EXCHANGERS) - PMSS
KASHMIR

S No	Details			
1.	Ships Name	PMSS KASHMIR		
2.	Parent Equipment	Aft Main Engine		
3.	OEM	ALFA LAVAL		
4.	Model	M15-BFG		
5.	Serial No	DLD/20RK270Marine		
6.	Origin	Germany		
7.	Sub Equipment	Heat Exchangers		
8.	Assembly Component	Heat Exchangers		
9.	Part No. of Assembly Component	S No	Part Number	Description
		a.	88.004.03438.0AB	Heat Exchanger
10.	Quantity	As per S No 9		
11.	Source of Availability	OEM		
12.	Justification for Work	Replacement of above mentioned items is required for SAT OPS		
13.	Work Required	a	b	c
		Defect List	Repair Work Req	Services Req
		Heat Exchanger performance of Aft Engine observed degraded	Heat exchanger inspection, chemical cleaning required	Inspection, chemical cleaning, of heat exchanger
14.	Detailed scope of work	a	b	c
		Detail of Repair Work Required	Detail of Services Required	Detail of Spares Required
		Heat exchanger inspection, chemical cleaning required	Inspection, chemical cleaning, of heat exchanger	Nil
15.	Technical Specs	S No	Description	Technical Specs
		a.	Test pressure	10.5 bar
		b.	Design pressure	7 bar
		c.	Heat load	4988 kW
		d.	Plate material	TI
		e.	Plate thickness	0.50mm
16.	Eligibilities	Reputable local/ international contractor registered with FBR and having working experience with PMSA.		
17.	EDC	30 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		

REQUIREMENT OF SCANNER PCB TRANSAS RADAR II - PMSS NUSRAT

S No	Details							
1.	Ships Name	PMSS NUSRAT						
2.	Parent Equipment	TRANSAS-II						
3.	OEM	Japan						
4.	Serial No	1505284						
5.	Origin	Japan						
6.	Sub Equipment	Transceiver Unit						
7.	Assembly Component	Transceiver Unit						
8.	Quantity	<table><tr><th>Description</th><th>Qty</th></tr><tr><td>Scanner PCB</td><td>01</td></tr></table>		Description	Qty	Scanner PCB	01	
Description	Qty							
Scanner PCB	01							
9.	Justification for Work	Scanner PCB is critically required for smooth operational of TRANSAS-II radar						
10.	Work Required	a		b	c	d		
		Defect/ Routine List		Repair Work Required	Services Required	Spares Required		
		Radar display indicating Radar Failure message		Repair/ maintenance of Scanner PCB	See details at S No 11 column b	See details at S No 11 column c		
11.	Detailed scope of work	Defect Analyzed	a	b	c			
			Detail of Repair Work Required	Detail of Services Required	Detail of Spares Required			
		TRANSAS-II is unable to achieve Transmission Mode	- Check transmission and reception of Radar - Replace the defective PCB with new one	Repair/ Replacement of Scanner PCB for smooth operation of TRANSAS	- Scanner PCB - SSD for radar backup			
12.	Eligibilities	a. Asper TSR b. The firm should visit onboard and assess the extent of required work. c. The firm should be having good experience in repair/maintenance of such system/ equipment. d. The firm should be NTN /GST registered						
13.	EDC	30 x working days after issuance of work order.						
14.	Warranty	01 x Year						
15.	Acceptance Criteria	a. Satisfactory operation of TRANSAS-II Radar after completion. of work ' b. Satisfactory HATs/ SATs of Radar						

**PROCUREMENT OF 08 X CUTLASS/ THORDAN BEARINGS & 10 X SETS OF TG-75
ADHESIVE – PMSS NUSRAT**

S No	Details				
1.	Ships Name	PMSS NUSRAT			
2.	Parent Equipment	Main Engine Shafts & Transmission System			
3.	Sub Equipment	Cutlass/ Thordan bearings & Sets of TH-75 Adhesive			
4.	Part No. of Assembly Component	F3M180120			
5.	Quantity	08 x cutlass/ Thordan bearings & 10 x sets of TG-75 Adhesive			
6.	Justification for Work	Check cutlass/ Thordan bearing clearance and record as per MMS 5 (MOP 009)			
7.	Work Required	a	b	c	d
		Defect/ Routine List	Repair Work Required	Services Required	Spares Required
		Check cutlass/ Thordan bearing clearance and record as per MMS 5 (MOP 009)	Procurement of all Thordan/ Cutlass bearings	See detail S No 14 Column b	1. 08 in No Cutlass/ Thordan bearings Supply of rough molded with dimensions of 180mm x 120mm x 1000mm Part No F3M180120 2. Supply of 10 x sets of TG-75 Adhesive
8.	Detailed scope of work	a	b	c	
		Detail of Repair Work Required	Detail of Services Required	Detail of Spares Required	
		Procurement of all Thordan/ Cutlass bearings		1. 08 in No Cutlass/ Thordan bearings Supply of rough molded with dimensions of 180mm x 120mm x 1000mm Part No F3M180120. 2. Supply of 10 x sets of TG-75 Adhesive	
9.	Technical Specs	As per scope of work			
10.	EDC	02 x week after issuance of work/ confirmation order			
11.	Warranty	01 year from the date of acceptance			
12.	Acceptance Criteria	Upon acceptance by end user			

PROCUREMENT AND INSTALLATION OF CCTV SURVEILLANCE SYSTEM - PMSS SABQAT

S No	Details				
1.	Ships Name	PMSS SABQAT			
2.	Parent Equipment	Camera, NVR and UPS			
3.	OEM	Hickvision			
4.	Model	a. 03 in no 4MP Hickvision fix camera (DS-2CE1043G0-IUF) b. 01 in no 8 channel NVR with hard disk (2TB) (DS-7616NXI- K2/16P) c. 01 in no joy stick and control unit (compatible with PTZ camera model ALHUA (DHSD5A445XA-HNR) d. APC UPS (SUA1500I) with accessories e. Ethernet cable CAT-6 (500 Mtrs)			
5.	Serial No	a. DS-2CE1043G0-IUF b. DS-7616NXI-K2/16P c. DHSD5A445XA-HNR d. SUA1500I			
6.	Origin	Pakistan			
7.	Sub Equipment	CCTV Camera and backup system			
8.	Assembly Component	a. 03 in no 4MP Hickvision fix camera (DS-2CE1043G0-IUF) b. 01 in no 8 channel NVR with hard disk (2TB) (DS-7616NXI- K2/16P) c. 01 in no joy stick and control unit (compatible with PTZ camera model ALHUA (DHSD5A445XA-HNR) d. APC UPS (SUA1500I) with accessories e. Ethernet cable CAT-6 (500 Mtrs)			
9.	Quantity	01 x complete CCTV Surveillance System with backup			
10.	Source of Availability	Local Market			
11.	Justification for Work	Already installed CCTV cameras degraded			
12.	Work Required	a	b	c	d
		Defect/ Routine List	Repair Work Required	Services Required	Spares Required
		-	-	Procurement and installation of CCTV Surveillance System with power backup	-

		a	b	c
		Detail of Repair Work Required	Detail of Services Required	Detail of Spares Required
		Procurement and installation of CCTV Surveillance System	a. Installation of CCTV and 2 in no PTZ camera with power supply backup. b. procurement and installation of 3 in no fix cameras, 8 channel NVR (2T8), Joy stick / control unit APC UPS and rigging of Ethernet cables onboard ship. c. installation and interfacing of 2 x already held PTZ cameras (Model No.H-SD6CE445XA-HNR) d. STW to be carried out for interfacing Joy stick / control unit, NVR, APC UPS (Backup) and cameras. e. 2 x base fitting MS material at main mast (Aft & Fwd) for 2 x PTZ cameras. f. All material, spares, tools/ special equipment accessories etc required for said work are being arranged by the firm. g. Requirement of external service, if any will be responsibility of the firm without any liability on the part of Ship Defective items are to be handed over to SS	Nil
13.	Detailed scope of work			
14.	Technical Specs	Commercial item		
15.	Eligibilities	a. The firm should visit onboard and carry out inspection to establish the extent of required work. b. The firm should be NTN/GST registered. c. Reputable local contractor/OEM rep. d. The firm should have comprehensive knowledge about CCTV system.		
16.	EDC	15 x days		
17.	Warranty	01 Year		
18.	Acceptance Criteria	a. Use OEM certified parts. b. Satisfactory running trials.		

REPAIR/ MAINTENANCE OF MAGNETIC STARTER ASSOCIATED COMPONENTS FITTED IN FORWARD ENGINE ROOM - PMSS DASHT

S No	Details				
1.	Ships Name	PMSS DASHT			
2.	Parent Equipment	Main and Auxiliary Machinery Magnetic Starter Panel			
3.	OEM	China			
4.	Serial No	QC91T			
5.	Origin	China			
6.	Sub Equipment	Electrical Components			
7.	Assembly Component	Servicing, Timer, Breaker, Fuses, Contactors and Relays.			
8.	Quantity	30			
9.	Source of Availability	Local Contractor			
10.	Justification for Work	Repair/ replacement of Magnetic Starter Panel associated components.			
11.	Work Required	a	b	c	d
		Defect/ Routine List	Repair Work Required	Services Required	Spares Required
		As per defect history	Repair/ replacement 30 x Magnetic Starter Panel fitted in FER.	a. Remove panel wiring/ cabling and replace with new. b. Servicing/ cleaning of electronic panel equipment. c. Repair/ replacement of all said equipment related components.	NA
12.	Detailed scope of work				
		a	b	c	
		Detail of Repair Work Required	Detail of Services Required	Detail of Spares Required	
		Repair/ replacement 30 x Magnetic Starter Panel fitted in FER.	See Serial No 13 Column b.	-	
13.	Technical Specs	As per Technical Specs/ Manual			
14.	Eligibilities	Reputable local contractor having working experience onboard HINGOL class ships.			
15.	EDC	07x Days			
16.	Warranty	01 x Year			
17.	Acceptance Criteria	a. OEM Certified spares only (as mentioned with part numbers). b. Satisfactory operation of main CWP Electrical panel. Satisfactory operation without refrigerant leakage.			
18.	Any other relevant info	Contact SS/ MEO and must visit onboard for clear understanding of scope of work			

DEFECT RECTIFICATION OF POWER SUPPLY PCB OF SATCOM C - PMSS BASOL

S No	Details											
1.	Ships Name	PMSS BASOI										
2.	Parent Equipment	SATCOM C										
3.	OEM	Cobham SATCOM										
4.	Model	SATCOM C Sailor 6081										
5.	Origin	Denmark										
6.	Sub Equipment	Power Supply PCB										
7.	Part No. of Assembly Component	<table border="1"> <tr> <th>Part Number</th><th>Description</th><th>Req Qty</th></tr> <tr> <td>38-129418 D1</td><td>Power Supply PCB</td><td>01</td></tr> </table>		Part Number	Description	Req Qty	38-129418 D1	Power Supply PCB	01			
Part Number	Description	Req Qty										
38-129418 D1	Power Supply PCB	01										
8.	Quantity	As per S. No 7										
9.	Justification for Work	Repair/ replacement of power supply PCB of SATCOM C										
10.	Work Required	Repair/ replacement of power supply PCB of SATCOM C										
11.	Detailed scope of work	<table border="1"> <tr> <th>a</th><th>b</th><th>c</th></tr> <tr> <th>Detail of Repair Work Required</th><th>Detail of Services Required</th><th>Detail of Spares Required</th></tr> <tr> <td>Repair/ replacement of power supply PCB of SATCOM C</td><td> a. All spares, tools and test equipment are to be arranged by the contractor. b. Satisfactory onboard trials/ set to work i.e. successful transmission and reception during HATs/ SATs </td><td>-</td></tr> </table>		a	b	c	Detail of Repair Work Required	Detail of Services Required	Detail of Spares Required	Repair/ replacement of power supply PCB of SATCOM C	a. All spares, tools and test equipment are to be arranged by the contractor. b. Satisfactory onboard trials/ set to work i.e. successful transmission and reception during HATs/ SATs	-
a	b	c										
Detail of Repair Work Required	Detail of Services Required	Detail of Spares Required										
Repair/ replacement of power supply PCB of SATCOM C	a. All spares, tools and test equipment are to be arranged by the contractor. b. Satisfactory onboard trials/ set to work i.e. successful transmission and reception during HATs/ SATs	-										
12.	Technical Specs	As per S. No 7										
13.	Eligibilities	a. Certified local contractor having working experience onboard 6HT MPVs. b. Local contractor should have relevant expertise w.r.t repair/ replacement of communication systems PCBs.										
14.	EDC	ASAP										
15.	Warranty	1 Year										
16.	Acceptance Criteria	a. OEM Certified items. b. Items shall be box packed and will be accepted after physical inspection by SS. c. Upon scrutiny of item and provided documents i.e. technical specifications by OEM.										
17.	Any other relevant info	SS may be contacted for any further query/ requirement.										

INSTALLATION OF RE TRACTABLE TRANSPORT SHED IN FRONT OF BMG

S No	Details	
1.	Description	Construction of Transport Shed in front of BMG
2.	Technical Specification	Dimensions: 40 ft (Width) x 45 ft (Length) x 16 ft (Height) Material: M.S
3.	Scope of work	Construction of Steel Truck Shade
4.	Eligibility	Registered contractor
5.	Eligibility	Any PMSA Contractor
6.	EDC	30 Days
7.	Acceptance criteria	Inspection by end user
8.	Any other relevant information	In case any query please contact PMSS INDUS 021-48505455

PROCUREMENT APPLICATION OF ANTISKID PAINT - PMSS REHMAT

S No	Details												
1.	Ships Name	PMSS REHMAT											
2.	Parent Equipment	Ships Husbandry											
3.	Origin	UAE Base Product BSF Chemicals Ltd.											
4.	Sub Equipment	Antiskid Paint											
5.	Assembly Component	Quarterdeck, Fox 'L', Passageway (Port & Stbd), Gun deck, Signal Deck & Bridge Wings											
6.	Quantity	a. Fox(L)	700 Sq. ft										
		b. Quarter Deck	1500 Sq ft										
		c. Port & Stbd alleyway	600 Sq ft										
		e. Gun Deck& Bridge Wings	1200 Sq ft										
		f. Signal Deck	1200 Sq ft										
7.	Source of Availability	Local Market											
8.	Justification for Work	Quarterdeck', Fox 'L', Passageway (Port & Stbd), Gun deck, Signal Deck & Bridge Wings observed degraded.											
9.	Work Required	As detail scope of work											
10.	Detailed scope of work	<table><tr><th>a</th><th>b</th><th>c</th></tr><tr><th>Detail of Repair Work Required</th><th>Detail of Services Required</th><th>Detail of Spares Required</th></tr><tr><td>Procurement of antiskid paint for Quarterdeck, Fox 'L', Passageway (Port & Stbd), Gun deck, Signal Deck & Bridge Wings</td><td>a. Removal of previous applied paint by chipping/ scrapping. b. Grit blasting using mixture of cooper 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 Antiskid grain. f. Application of Dark Grey Epoxy (top coats).</td><td>Antiskid paint for 5200 Sq ft area</td></tr></table>	a	b	c	Detail of Repair Work Required	Detail of Services Required	Detail of Spares Required	Procurement of antiskid paint for Quarterdeck, Fox 'L', Passageway (Port & Stbd), Gun deck, Signal Deck & Bridge Wings	a. Removal of previous applied paint by chipping/ scrapping. b. Grit blasting using mixture of cooper 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 Antiskid grain. f. Application of Dark Grey Epoxy (top coats).	Antiskid paint for 5200 Sq ft area		
a	b	c											
Detail of Repair Work Required	Detail of Services Required	Detail of Spares Required											
Procurement of antiskid paint for Quarterdeck, Fox 'L', Passageway (Port & Stbd), Gun deck, Signal Deck & Bridge Wings	a. Removal of previous applied paint by chipping/ scrapping. b. Grit blasting using mixture of cooper 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 Antiskid grain. f. Application of Dark Grey Epoxy (top coats).	Antiskid paint for 5200 Sq ft area											
11.	Technical Specs	Thickness 300-400 mm Microns Self-Leveling Solvent Free 2mm Layer 01 Coat for Moisture Control Epoxy 02 Coat of Heavy duty Epoxy Top Coat											
12.	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											
13.	EDC	02 Week											
14.	Warranty	02 Year											
15.	Acceptance Criteria	a. Visual inspection alongwith provision of documentation/ certificate b. Provision of certificates & documentation											

IT NO: IT/93/16/2025-26

PROCUREMENT OF SHREDDING MACHINE – HQ PMSA

S No	Details	
1.	Parent Equipment	Office Machinery Equipment's
2.	Make	HP
3.	Model	W2518CC *
4.	Qty	06
5.	Justification	06 x Shredding Machine with accessories are required for HQ PMSA
6.	Technical Specifications	Brand HP Sheet Capacity 18 sheets Operating Time 20 min Can Shred PlasticCards, Staples, Paper Clips Cut Type & Size Cross Cut 4 x 35 mm Auto Reverse Function Yes
7.	Eligibility Criteria	Acceptance by End-user
8.	EDC	Within 07 Days
9.	Warranty	01 x Year
10.	Acceptance Criteria	Accepted by end user

IT NO: IT/93/17/2025-26

CHANGING OF TYRES OF WATER BOWSER (170327 MS) AT PMSA BASE ORMARA - PMSS NAZIM

S No	Details		
1.	Ships Name	PMSS NAZIM/ PMSA BASE ORMARA	
2.	Parent equipment	WATER BOWSER VEH NO (170327MS)	
3.	OEM	GENERAL COMPANY	
4.	Make	2017	
5.	Origin	GENERAL COMPANY	
6.	Sub equipment	WATER BOWSER	
7.	Quantity	See Sr No 11	
8.	Source of availability	Any local register firm	
9.	Justification of work	Commercial repair of Water Bowser (170327MS)	
10.	Work required	Commercial repair of Water Bowser (170327MS)	
11.	Detailed scope of work	Patt/Part No	Description
		Tyres: General Company	Tyres General Company
			Qty 06
12.	Eligibilities	a. The firm should be FRBs/SRB registered. b. The firm should be registered with HQ PMSA/ Navy/ DP Navy	
13.	EDC	15 days after issuance of order	
14.	Warranty	01 Years after delivery/ work	
15.	Acceptance Criteria	a. Accepted by MTO PMSS INDUS & D (MT)	
		b. Visually inspection of provided items w.r.t physical inspection	

PROCUREMENT/ INSTALLATION OF FCU (FAN COIL UNIT) CONDENSER OF MRO - PMSS
ZHOB

S No	Details				
1.	Ships Name	PMSS ZHOB			
2.	Parent Equipment	Fan Coil Unit			
3.	OEM	China			
4.	Model	CFP-3WM			
5.	Origin	Jiangsu Josun Air Conditioner Co.,Ltd			
6.	Sub Equipment	FCU Condenser			
7.	Part No. of Assembly Component	NSN No:4120PV3050002 Part No: 11.01.28.GZ15136-01-001			
8.	Quantity	1 x No			
9.	Source of Availability	Jiangsu Josun Air Conditioner Co, Ltd			
10.	Justification for Work	MRO FCU Fan coil unit condenser deteriorated required replacement			
11.	Work Required	a	b	c	d
		Defect/ Routine List	Repair Work Required	Services Required	Spares Required
		MRO FCU (Fan Coil Unit) condenser deteriorated	Replacement of MRO FCU (Fan coil unit) condenser through OEM/ local engineering house.	See S No 12 Para b	See S No 12 Para c
12.	Detailed scope of work	a	b	c	
		Detail of Repair Work Required	Detail of Services Required	Detail of Spares Required	
		Replacement of MRO FCU (Fan coil unit) condenser through OEM/ local engineering house.	Replacement of MRO FCU (Fan coil unit) condenser through OEM/ local engineering house.	1 x FCU Condenser NSN No: 4120PV3050002 Part No: 11.01.28.GZ1513 6-01-001	
13.	Technical Specs	As per OEM Manual/ Specs			
14.	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.			
15.	EDC	5 Days			
16.	Warranty	2-year			
17.	Acceptance Criteria	a. Pressure test of condenser. b. No Freshwater leakage after installation and normal operation of FCU condenser. c. Satisfactory operation of FCU after replacement/ installation of condenser. e. Satisfactory end users trials. f. QA/QC certificate issuance by QA/QC Deptt.			

18.	Any other relevant info	a. Growth Work, Damage/ defect occurred during work is responsibility of contractor and will repair/ maintenance free of cost by contractor. b. Contactor may contact SS/ visit onboard ship to resolve any query.
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IT NO: IT/93/19/2025-26

PROCUREMENT OF GYROSPHERE FOR STD-22 GYROCOMPASS - PMSS KASHMIR

S No	Details				
1.	Ships Name	PMSS KASHMIR			
2.	Parent Equipment	Gyro STD-22			
3.	OEM	Raytheon Anschutz GmbH, Germany			
4.	Serial No	3495847			
5.	Origin	OEM			
6.	Sub Equipment	NG-002 Gyrocompass			
7.	Assembly Component	Gyrosphere			
8.	Part No. of Assembly Component	111-006 (NSN 6605123495847)			
9.	Quantity	02			
10.	Source of Availability	OEM/ Local Contractor			
11.	Justification for Work	Procurement of 02 x Gyrospheres for Gyros STD-22 for SAT Ops			
12.	Work Required	a	b	c	d
		Defect/ Routine List	Repair Work Required	Services Required	Spares Required
		N/A	N/A	Procurement/ installation of 02 x Gyrosphere for Gyro STD-22 “A” & “B”	Procurement of 02 x Gyrosphere for Gyro STD-22 “A” & “B”
13.	Detailed scope of work	a	b	c	
		Detail of Repair Work Required	Detail of Services Required	Detail of Spares Required	
		N/A	N/A	Procurement/ installation of 02 x Gyrosphere for Gyro STD-22 “A” & “B”	
14.	Technical Specs	a. Power Supply: 54-56 VAC b. Current: 160-250 mA c. Heating Voltage: 72 VDC, 400 Hz d. Pump Voltage: 24VAC, 50 Hz e. Transmission: Inductive, Slip ring-free power, data transmission. f. Contains Supporting Liquid and Distilled Water			
15.	Eligibilities	Reputable Local/ International contractor registered with FBR having working experience with PMSA.			
16.	EDC	Prior conduct of PMS Routine due in Sep 26.			
17.	Warranty	07 days			
18.	Acceptance Criteria	End User Satisfaction after successful trials. Firm registered with FBR			

CHEMICAL CLEANING AND TESTING OF HEAT EXCHANGER - PMSS REHMAT

S No	Details				
1.	Ships Name	PMSS REHMAT			
2.	Parent Equipment	Main Engine			
3.	OEM	MTU Germany			
4.	Model	MTU 16 V 396 TB 93			
5.	Origin	Germany			
6.	Sub Equipment	Main Engine ASME & APME			
7.	Assembly Component	Heat Exchangers			
8.	Quantity	04			
9.	Source of Availability	Local Market			
10.	Justification for Work	Coolant temperature of Main Engines were observed high *(Normal temperature 60-75 °C) during operation at sea due FWT. Therefore. Chemical cleaning/ pressure testing of heat exchanger and intercooler are required.			
11.	Work Required	a	b	c	d
		Defect/ Routine List	Repair Work Required	Services Required	Spares Required
		Work requisition ME-24/26 dated 30-04-2026 was forwarded to BMG and same was outsourced.	02 x heat exchangers and 02 x inter coolers of Main engines are required to be cleaned, pressure tested and repair work of the same is to be under taken for satisfactory operation.	As per Serial 12 Column b	As per Serial 12 Column b

		a	b	c
		Detail of Repair Work Required	Detail of Services Required	Detail of Spares Required
12.	Detailed scope of work	Heat exchangers and intercooler are to be removed for cleaning and physical inspection.	a. Dismantling/ inspection of 02x heat exchanger and 02 x intercooler from main engine. b. Core tubes is to be cleaned (Chemically) and pressure tested for satisfactory operation of heat exchanger and intercooler. Leaky tube if required (Warm water tested pressure 7.5 Bar and Compressed pressure .5 Bar) c. Heat exchanger and intercooler shell is to be cleaned with chemical. d. Baffles of tube shell are to be replaced with new one. e. Heat exchanger assemblies to be pressure tested at 02 bar. f. Sea water lines are to checked, repair/ replaced if necessary. g. Sea water line valves are to repaired/ replaced. h. Heat exchanger sight glass are to be removed/ clean or replaced. j. Removal of degraded coolant thermostat/ thermal expansion plate and inspected fitted new coolant thermostat if required. k. Refitting of heat exchanger and intercooler is to be carried out by using SS nuts & bolts. l. All studs and nuts with rubber joints/ seals are to be replaced with new one. m. Any bolt/ stud broken in the body will be removed. n. Removal of existing degraded paint of heat exchanger and intercooler and application of new instrument paint.	08 x gasket/ rubber seal alongwith RTV as per existing size of heat exchanger and intercooler. Instrument paint as required for 02 x heat exchanger and 02 x intercooler. 06 x temperature sensors as per existing temperature sensors. 70 x SS bolts and nuts are to be required. 02 x heat exchanger sight glass. Thermostat Model 13.474.75 100B (Opening Temp 75°C and fully open at 87°C Thermal expansion plate and O ring as per existing dia. All bolts & nuts must be tightened properly. The firm will be responsible for welding/ cutting and external service is required. All spares must be genuine tools special equipment/ accessories required for said repair/ cleaning and pressure testing are to be arranged by the firm
		The firm will be responsible for all removal, transportation and installation work during warranty/ grantee periods claims in case of any rework		
13.	Technical Specs	Heat Exchanger pressure test 02 bar with Warm water Cooler core pressure test 7.5 Bar with warm water & 0.5 Bar with compressed Air Inter cooler pressure tested at 8.5 Bar with hot water and 0		

		5 Bar with compressed Air.
14.	Eligibilities	a. The firm must visit onboard and carry out diagnosis/ inspection to establish the extent of required work. b. NTN/GST registered. c. Firm must have sufficient experience of same kind of work.
15.	EDC	20 x days after issuance of work/ confirmation order.
16.	Warranty	01 x Year to be started after completion of successful trials.
17.	Acceptance Criteria	a. Satisfactory operation of equipment. b. Acceptance by SS. c. Successful HATs/SATs

**MAINTENANCE/ SERVICING OF BLUE VISION MONITORING & CONTROL SYSTEM MCS-5
OF MAIN ENGINES - PMSS ZHOB**

S No	Details				
1.	Ships Name	PMSS ZHOB			
2.	Parent Equipment	MTU Blue Vision Monitoring and Control System MCS-5			
3.	OEM	MTU Germany			
4.	Model	MCS-5 Type-II Control System			
5.	Origin	Germany			
6.	Sub Equipment	MCS-5			
7.	Part No. of Assembly Component	X00E50209151/S0008			
8.	Quantity	1 x No			
9.	Source of Availability	MTU Friedrichshafen GmbH			
10.	Justification for Work	MTU Blue Vision Monitoring and Control System MCS-5 malfunctioning.			
11.	Work Required	a	b	c	d
		Defect/ Routine List	Repair Work Required	Services Required	Spares Required
		MTU Blue Vision Monitoring and Control System MCS-5 malfunctioning	Servicing of MTU Blue Vision Monitoring and Control System MCS-5 through OEM/ local engineering house.	See S No 12 para b	See S No 12 para c
12.	Detailed scope of work	a	b	c	
		Detail of Repair Work Required	Detail of Services Required	Detail of Spares Required	
		Servicing of MTU Blue Vision Monitoring and Control System MCS-5 through OEM/ local engineering house.	a. Servicing of monitoring control unit (MCU). b. Servicing of Peripheral interface unit (PIU-1). c. Servicing of management of personal computer (MPC-4). d. Servicing of power supply unit (PSU). e. Servicing of local operating panel (LOP). f. Servicing of gearbox control unit (GCU). g. Servicing of priming pump control unit (PPU). h. Servicing of programmable process unit (PPS). j. Servicing of peripheral interface module (PIM). k. Servicing of main panel	1 x MPC card with OEM software Part No: G82-00037	

			(PAN). I. Servicing of remote control system (RCS).		
13.	Technical Specs	As per OEM Manual/ Specs			
14.	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.			
15.	EDC	15 Days			
16.	Warranty	2-year			
17.	Acceptance Criteria	a. OEM (MTU Germany). b. Upon scrutiny of items and provided documents i.e technical specifications alongwith production certificate and batch no by OEM. c. OEM certificate of test/trials. d. Satisfactory working of system (MTU Blue Vision Monitoring and Control System MCS-5) after maintenance. e. Satisfactory trials by end users.			
18.	Any other relevant info	a. Growth Work, Damage/ defect occurred during work is responsibility of contractor and will repair/ maintenance free of cost by the contractor. b. Contactor may contact SS/ visit onboard ship to resolve any query.			

**PROCUREMENT AND INSTALLATION OF 02 X STD 22 NX M GYRO COMPASS SYSTEM -
PMSS RAFAQAT & PMSS SABQAT**

S No	Details				
1.	Ships Name	PMSS SABQAT & PMSS RAFAQAT			
2.	Parent Equipment	Gyro Compass System (Mechanical or Fiber Optic)			
3.	OEM	Raytheon Anschutz OR Northrop Grumman Sperry Marine			
4.	Model	STD 22 NX M (Raytheon) OR NAVIGAT 2500 / NAVIGAT 3500 (Sperry). (Note: Supplier is to propose these systems; PMSA will procure ONLY ONE system per ship based on feasibility)			
5.	Serial No	Nil			
6.	Origin	Germany / USA / Europe (As per OEM)			
7.	Sub Equipment	(Depends on proposed system) Option A: Raytheon Anschutz STD 22 NX M a. STD 22 NX M Gyro Compass (Part No. 110-244-NG001) b. Gyro sphere (Part No. 111-006) c. Operator Unit (Part No. 130-626-NG002) d. Distribution Unit (Part No 138-118 NG002/003) e Shock Absorbing Mount f. Auto/ Manual Gyro Selector Switch g. Supporting Liquid & Distilled Water (Part No. 148-162-E02) Option B: Sperry Marine NAVIGAT 2500 or 3500 a. NAVIGAT 2500 or 3500 FOG Master Compass b. Control and Display Unit (CDU) c. CompassNet Data Distribution / Interface Unit d Power Supply Unit with Power Backup e Shock Absorbing Mount / Mounting Arrangements f. Auto/Manual Gyro Selector Switch (if applicable) g. Interface and Network Cables			
8.	Part No. of Assembly Component	As listed for STD 22 NX M, or to be detailed in the supplier's proposal for the Sperry Marine models			
9.	Quantity	01 x Complete System per Ship (Total 02 systems to be procured after proposal review)			
10.	Source of Availability	To be provided by the authorized firm			
11.	Justification for Work	Already installed Gyro obsoleted and OEM has discontinued technical support and spares. Upgrading to a viable, fully supported Mechanical or Fiber Optic Gyro (FOG) technology.			
12.	Work Required	a	b	c	d
		Defect/ Routine List	Repair Work Required	Services Required	Spares Required
		-	-	a. Supplier to conduct a detailed survey of the ship to assess interface and installation requirements. b. Following the survey, the supplier must propose the feasible system(s) (STD 22 NX M, NAVIGAT 2500, or NAVIGAT 3500). c. Provision of the finalized gyro system. d. Distribution of the gyro feed to all requisite	Firm is to propose relevant spares details for all proposed systems (STD 22 NX M, NAVIGAT 2500, and NAVIGAT 3500), along with training material, HATs and SATs reports (both Hard and Soft copy)

				systems. e. Full integration of the gyro with all weapons NAVAID sensors, and other machinery as required by the end user	
13.	Detailed scope of work	a	b	c	
		Detail of Repair Work Required	Detail of Services Required	Detail of Spares Required	
		a. Pre-installation detailed survey of the ship. b. Procurement and installation of the selected Gyro system (STD 22 NX M or Sperry 2500/3500) with power backup. c. End-to-end integration and distribution of gyro feed	a. Detailed site survey and interface study prior to proposing the system to ensure feasibility and exact integration requirements. b. Proposal of STD 22 NX M, NAVIGAT 2500, and NAVIGAT 3500 systems, detailing capabilities, integration matrices, and relevant spares. c. Verification of cable runs, power supply, and mounting arrangements. d. Preparation of interface drawings and cable termination schedules. e. Submission of installation method statement and risk assessments. f. Preparation of As-Fitted drawings and FAT/SAT procedure approval. g. Coordination with Ship staff for material staging and access. h. Installation and mechanical mounting of the master gyro compass, distribution unit, and operator unit in approved locations. j. Laying, glanding, and termination of power and data cables as per OEM specification. k. Grounding and bounding of all equipment for EMC compliance. l. Integration and interfacing of Gyro with all weapons, NAVAID sensors, and other machinery as required by the end user via serial/ Ethernet/ Compass Net. m. Configuration and testing of system parameters. n. Alignment, calibration, and quick settling procedure. p. Functional testing of all outputs, distributed feeds, and alarm circuits. q. Satisfactory HATs & SATs as per OEM standard and submission of reports for acceptance r. 2-day onboard operator and maintenance training and provision of training material to SS. s. 24 months' warranty on installation workmanship. t. Installation of Auto/Manual Gyro Selector Switch (if applicable to the	Supplier to explicitly list proposed spares for the STD-22 NX M, NAVIGAT 3500, and NAVIGAT 2500 systems in their technical quote to ensure PMSA has clarity on lifecycle support prior to final selection	

		finalized system configuration) with satisfactory trials. u. All material, spares, tools/special equipment accessories, etc., required for said work are being arranged by the firm. v. Requirement of external service, if any, will be the responsibility of the firm without any liability on the part of the Ship	
14.	Technical Specs	As per proposed STD 22 NX M. NAVIGAT 2500, or NAVIGAT 3500 model	
15.	Eligibilities	a. The firm must visit onboard and carry out a detailed inspection/survey to establish the extent of required work before proposing a system b. The firm should be NTN/GST registered. c. Must be an authorized service partner for Raytheon Anschutz OR Sperry Marine, or have OEM-certified engineers for the proposed systems	
16.	EDC	15 x days	
17.	Warranty	02 Year minimum on system and workmanship	
18.	Acceptance Criteria	a. Use OEM certified parts. b. Satisfactory running trials validating successful integration with all weapons, NAVAIDS, and machinery	
19.	Any other relevant info	PMSA reserves the right to procure only one of the proposed systems (STD 22 NX M. NAVIGAT 2500, or NAVIGAT 3500) per ship based on the outcome of the survey, operational feasibility, and technical proposal	

IT NO: IT/93/23/2025-26
COMMERCIAL REPAIR CASE VEHICLE NO 070339 MS TOYOTA CABIN - D(MT)

S No	Details	
1.	Ship Name	PMSS INDUS/TPT
2.	Parent Equipment	TOYOTA DOUBLE CABIN
3.	OEM	TOYOTA
4.	Model	2007
5.	Origin	JAPAN
6.	Sub Equipment	DOUBLE CABIN
7.	Quantity	01
8.	OEM Detail	JAPAN
9.	Work Required	Commercial repair of TOYOTA DOUBLE CABIN
10.	Detail scope of Work	Petrol Engine model 1GR replacement required with fitting Labor charges
11.	Eligibilities	a. The firm should be FBR/SBR registered. b. The firm should be registered with HQ PMSA/ 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/93/24/2025-26
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	• Complete Crew Cabin replacement • Front and Back bumper replacement • Both head lights replacement • Both back lights replacement • Dashboard replacement • Installation of new door glasses • Installation of new Windscreen • Replacement of Radiator • Dent/ paint labor Charges
10.	Eligibilities	a. The firm should be FBR/SBR registered. b. The firm should be registered with HQ PMSA/ Navy
11.	EDC	30 Days after Issuance of Work order
12.	Warranty	01 Year after delivery/work.
13.	Acceptance Criteria	Accepted by MTO PMSS INDUS & D (MT)

REPAIR/ MAINTENANCE OF STEERING SYSTEM - PMSS RAFAQAT

S No	Details			
1.	Ships Name	PMSS RAFAQAT		
2.	Parent Equipment	Steering System		
3.	OEM/ Origin	USA		
4.	Sub Equipment	Pumps Ram Rudder		
5.	Assembly Component	Solenoid Valves, Feedback Unit, Helm Order Main power unit valves manifold assembly and Electrically Control System Wiring		
6.	Quantity	01 x Steering System		
7.	Source of Availability	USA		
8.	Justification for Work	Repair / Replacement of Complete Steering System		
9.	Detailed scope of work			
		a	b	c
		Detail of Repair Work Required	Detail of Services Required	Detail of Spares Required
		a. Repair / replacement of Steering System with Complete overhauling of both steering gear pumps. b. Removal and fitting of both steering gear pumps. c. Repair / replacement of Solenoid valves. d. Repair / Maintenance of feedback unit. e. Repair / replacement of both rudder bearing. f. Repair / replacement of steering pressure gauges. g. Repair / replacement of complete Electrically Control System Wiring.	Repair / replacement of Steering System Complete overhauling of steering system 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			
10.	Technical Specs	440 volts AC 60 Hz control supply		
11.	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.		
12.	EDC	07 working days.		
13.	Warranty	1 year		
14.	Acceptance Criteria	a. Use SS 316L nonmagnetic material. b. Successful installation as per requirement. c. Prove system leak free d. Satisfactory trials.		

DEFECT RECTIFICATION OF ANCHOR CAPSTAN MOTOR - PMSS HINGOL

S No	Details				
1.	Ships Name	PMSS HINGOL			
2.	Parent Equipment	Anchor Capstan.			
3.	OEM	Wuhan Mekand Equipment Co, Ltd			
4.	Model	(p22 Electric Anchor Capstan (AM3)			
5.	Origin	China			
6.	Sub Equipment	Capstan Winch.			
7.	Assembly Component	Winch Gear Mechanism.			
8.	Part No. of Assembly Component	NSN NO: 2030PV2000002 ϕ 22 Electric Anchore Capstan NSN NO: 2030PV2020026 Main Shaft NSN NO: 2030PV2020026 Brake Band NSN NO: 3110PV0060013 Thrust Bearing NSN NO: 2030PV2020032 Sprocket Bushing			
9.	Quantity	01			
10.	Justification for Work	Anchor capstan winch gears mechanism found stuck during operation.			
11.	Work Required	a	b	c	d
		Defect/ Routine List	Repair Work Required	Services Required	Spares Required
		Anchor capstan winch gears mechanism found stuck during operation.	a. Overhauling/ servicing of Anchor capstan winch gears mechanism. b. In rout all accessories to be removed and fitted back without any damage. c. Degraded components to be replaced with new. d. All tools and spares will be arranged by firm/ contractor. e. Any growth work will be soul responsibility of the firm. f. Any damage during removal and installation of accessories will be responsibility of firm.	a. Overhauling/ servicing of Anchor capstan winch gears mechanism. b. In rout all accessories to be removed and fitted back without any damage. c. Degraded components to be replaced with new. d. All tools and spares will be arranged by firm/ contractor. e. Any growth work will be soul responsibility of the firm. f. Any damage during removal and installation of accessories will be responsibility of firm.	All degraded components required to replace with new.

		a	b	c
		Detail of Repair Work Required	Detail of Services Required	Detail of Spares Required
12.	Detailed scope of work	a. Overhauling/ servicing of Anchor capstan winch gears mechanism. b. In rout all accessories to be removed and fitted back without any damage. c. Degraded components to be replaced with new. d. All tools and spares will be arranged by firm/ contractor. e. Any growth work will be soul responsibility of the firm. f. Any damage during removal and installation of accessories will be responsibility of firm.	a. Overhauling/ servicing of Anchor capstan winch gears mechanism. b. In rout all accessories to be removed and fitted back without any damage. c. Degraded components to be replaced with new. d. All tools and spares will be arranged by firm/ contractor. e. Any growth work will be soul responsibility of the firm. f. Any damage during removal and installation of accessories will be responsibility of firm.	All degraded components required to replace with new.
13.	Technical Specs	As per OEM manual.		
14.	Eligibilities	Security wise clear firm having working experience on Anchor capstan winch onboard HINGOL CLASS MPVs of PMSA.		
15.	EDC	14 Days		
16.	Warranty	One-year warranty after satisfactory test / trails w.r.t: a. Satisfactory operation of Anchor capstan winch. b. Easy and smooth engaging and disengaging of capstan motor. c. Satisfactory lowering and hoisting of anchor. d. Any defect occurred in operation of anchor capstan winch operation will recover by firm during warranty period. e. Any abnormality in anchor capstan motor engaging and disengage meconium will recover by firm during warranty period.		
17.	Acceptance Criteria	a. Satisfactory operation of Anchor capstan winch. b. Easy and smooth engaging and disengaging of capstan motor. c. Satisfactory lowering and hoisting of anchor.		
18.	Any other relevant info	a. Damage/ defect occurred to system during work is responsibility of contractor. b. Dismantling/ assembling/ installation and in way removal work is responsibility contractor.		

PROCUREMENT FITTING WORK OF 60 X NEW FIREFIGHTING EXTINGUISHERS STANDS - PMSS ZHOB

S No	Details				
1.	Ships Name	PMSS ZHOB			
2.	Parent Equipment	Extinguishers Stands			
3.	Quantity	60 x No			
4.	Justification for Work	Firefighting Extinguishers stands found deteriorated and required replacement.			
5.	Work Required	a	b	c	d
		Defect List	Repair Work Req	Services Req	Spares Req
		Fire Fighting Extinguishers stand found deteriorated and required replacement	Replacement/ installation of new firefighting extinguishers stands through OEM/ local engineering house.	See S.No 06 Para b	See S.No 06 Para c
6.	Detailed scope of work	a	b	c	
		Detail of Repair Work Required	Detail of Services Required	Detail of Spares Required	
		Replacement/ installation of new firefighting extinguishers stands through OEM/ local engineering house.	Replacement/ installation of new firefighting extinguishers stands through OEM/ local engineering house.	60 x no firefighting extinguishers stands	
7.	Eligibilities	Contractor having relevant working experience related firefighting equipments.			
8.	EDC	15 Days			
9.	Warranty	2 year including satisfactory replacement/ installation of extinguishers stands without any damage.			
10.	Acceptance Criteria	a. Satisfactory replacement/ installation of extinguishers stands without any damage 7 days from date of completion of work order. b. Contractor would be responsible for any damage during replacement/ installation of extinguishers stands and will repair/ replacement free of cost.			
11.	Any other relevant info	Contactor may contact SS/ visit onboard ship to resolve any query.			

OVERHAULING OF BILGE EDUCTORS - PMSS NUSRAT

S No	Details		
1.	Ships Name	PMSS NUSRAT	
2.	Parent Equipment	Bilge eductor system	
3.	Quantity	05 x Eductors, 21 x lines, 21 x Valves and 08 x NRVs	
4.	Justification for Work	Bilge eductor system (eductors, lines, valves and NRVs) are deteriorated with the passage of time	
5.	Detailed scope of work	a	b
		Detail of Repair Work Required	Detail of Services Required
		Defective eductors, lines and valves are to be overhauled/ renewed for sat ops	c Detail of Spares Required a. New SS lines as per requirement. b. SS nut and bolts as per requirement
			a. Following lines and valves are to be dismantled: i. FER 01 x Sea water supply line with (length 20' Dia 2 ½ ") and 01 x valve (dia 2 ½ ") ii. FER 02 x suction lines (Dia 3"), (length 6' each), 02 x valves (dia 3") and 02 x NRVs (Dia 3"). iii. FER 01 x Suction Line (dia 2 ½ "), (length 6'), 01 x valve (dia 2 ½ ") and 01 xNRV (dia 2 ½ "). iv. FER 01 x overboard line (length 6') (dia 3½") and 01 x valve (dia 3½") v. AER 01 x sea water supply line (Length 6'), (Dia 2 ½") and 01 x valve (dia 2 ½"). vi. AER 02 x suction lines (length 5' each) (dia 3"), 02 x valves (dia 3") and 02 x NRVs (dia 3"). vii. AER 01 x overboard line (length 15'), (dia 3 ½%) and valve (dia 3 ½") viii. ASP and EVAC 01 x sea water supply line (Length 30'), (Dia 2 ½"), 01 x valve (dia 2 ½") each. ix. ASP and EVAC 01 x suction line (length 20'), (dia 2 ½"), 01 x valve (dia 2 ½") and 01 x NRV(dia 2 ½") each.

			x. 01 x overboard line (length 10'), (dia 3") and 01 x valve (dia 3"). xi. Gyro room 01 x Sea water supply line (length 20'), (dia 2 ½") and 01 x valve (dia 2 ½"). xii. Gyro room 01 x suction line (length 10'), (dia 2 ½"), 01 x valve (dia 2 ½") and 01 x NRV (dia 2 ½"). xiii. Gyro room 01 x overboard line (length 10'), (dia 3") and 01 x valve (dia 3"). xiv. AC Compartment 01 x sea water supply line (length 20'), (dia 2 ½") and valve (dia 2 ½"). xv. AC Compartment 01 x suction line (length 10'), (dia 2 ½"), 01 x valve (dia 2 ½") and 01 x NRV (dia 2 ½"). xvi. AC Compartment 01 x overboard line (length 10'), (dia 3") and 01 x valve (dia 3"). b. Above mentioned lines are to be made new as per sample. c. New lines are to be fitted. d. Bilge eductor system in FWD & AFT engine rooms, Gyro room, EVAC and AC Compartments are to be overhauled and defective educators, their lines, valves and NR Vs are to be renewed. e. In addition, removal, servicing/overhauling and installation of bilge educators, lines, valves and NRVs. f. Special tools and spares are to be arrange by the firm for said work. g. The firm will be responsible to undertake any work not	
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			covered above to ensure good quality of work. h. The firm will be responsible for welding/ cutting, if required. j. The firm will be responsible for requirement of external services. 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. l. There will be no growth work.	
6.	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 required onboard. c. The firm should be NTN/GTN registered		
7.	EDC	04 weeks after issuance of work/ confirmation order		
8.	Warranty	01 year from the date of acceptance		
9.	Acceptance Criteria	a. Satisfactory work done by the firm b. Practical acceptance by SS.		

PROCUREMENT OF 6 KVA AROS UPS ONBOARD PMSS SABAQAT

S No	Details								
1.	Ships Name	PMSS SABQAT							
2.	Parent Equipment	Smart UPS SRT 6000 VA 230 V							
3.	OEM	APC							
4.	Serial No	5166753							
5.	Sub Equipment	CCTV and Communication equipment's							
6.	Quantity	01 in No							
7.	Justification for Work	6KVA AROS UPS declared BER by BMG and critically required for CCTV and Communication equipment's.							
8.	Detailed scope of work	<table><tr><th>a</th><th>b</th></tr><tr><th>Detail of Services Required</th><th>Detail of Spares Required</th></tr><tr><td>a. Procurement and installation of Smart UPS SRT 6000 VA 230 V with complete accessories and prove satisfactory operation of the UPS. b. All material, spares, tools/ special equipment accessories etc required for said work are being arranged by the firm. c. Requirement of external service, if any will be responsibility of the firm without any liability on the part of Ship. d. Warranty card (UPS & batteries) handed over to SS.</td><td>Warranty card & technical manual</td></tr></table>		a	b	Detail of Services Required	Detail of Spares Required	a. Procurement and installation of Smart UPS SRT 6000 VA 230 V with complete accessories and prove satisfactory operation of the UPS. b. All material, spares, tools/ special equipment accessories etc required for said work are being arranged by the firm. c. Requirement of external service, if any will be responsibility of the firm without any liability on the part of Ship. d. Warranty card (UPS & batteries) handed over to SS.	Warranty card & technical manual
		a	b						
		Detail of Services Required	Detail of Spares Required						
		a. Procurement and installation of Smart UPS SRT 6000 VA 230 V with complete accessories and prove satisfactory operation of the UPS. b. All material, spares, tools/ special equipment accessories etc required for said work are being arranged by the firm. c. Requirement of external service, if any will be responsibility of the firm without any liability on the part of Ship. d. Warranty card (UPS & batteries) handed over to SS.	Warranty card & technical manual						
9.	Eligibilities	a. The firm should visit onboard and carry out inspection to establish the extent of required work. b. The firm should be NTN/GST registered. c. Reputable local contractor/OEM rep.							
10.	EDC	15 x days							
11.	Warranty	UPS 3 Years & Batteries 2 Years							
12.	Acceptance Criteria	c. Use OEM certified parts. d. Satisfactory running trials.							

PROCUREMENT/ INSTALLATION OF GYRO COMPASS SWITCHING UNIT - PMSS RAFAQAT

S No	Details				
1.	Ships Name	PMSS RAFAQAT			
2.	Parent Equipment	Sperry Marine Gyro Compass MK 27 Mod I			
3.	OEM	Sperry Marine Inc			
4.	Model	MK27 Mod I			
5.	Serial No	92103			
6.	Origin	Sperry Marine Inc			
7.	Sub Equipment	Gyro Compass Switching Unit			
8.	Part No. of Assembly Component	03956-1884498			
9.	Quantity	01			
10.	Source of Availability	Local source			
11.	Justification for Work	Gyro compass switching unit is Critically required for provision of digital data feed to radar and navigation.			
12.	Work Required	a	b	c	d
		Defect/ Routine List	Repair Work Required	Services Required	Spares Required
		Gyro compass switching unit defective	Repair/Replacement of Gyro compass switching unit is required	Installation Gyro compass switching unit.	All material, spares, tools, special equipment, accessories etc required of said work are to arrange by the local firm.
13.	Detailed scope of work	a	b	c	
		Detail of Repair Work Required	Detail of Services Required	Detail of Spares Required	
		Installation of Gyro compass switching unit and provision of stable Digital feed to radar and Navigation system	Installation of Gyro compass switching unit and provision of stable Digital feed to radar and Navigation system	• All material, spares, tools special equipment/ tools, accessories and cables for said work are to be arranged by the contractor should be marine version. • Any other spares required for installation and STW of the system which are not mentioned in IT Specs are to be arranged by the firm	
14.	Technical Specs	a. Input Voltage	115VAC 60HZ AND 24 DCV Synchro/ stepper input from master gyro compass		
		b. Output	Digital serial output NMEA 0183,Sperry MK27 protocol, Step/Synchro output for repeaters		

		c. Accuracy d. Operating Temperature e. Humidity f. Mounting	0.1 degree 0C to 50C 0-95% (Non Condensing) % Bulkhead Mounting
15.	Eligibilities	Any suitable firm	
16.	EDC	01 Week	
17.	Warranty	2 year	
18.	Acceptance Criteria	a. Successful trials by end user. b. After completion of trails and STW.	
19.	Any other relevant info	All other work concern to the system installation not covered in contract are also be the responsibility of the firm during installations and STW of the system. Any damage occurred during work, firm would be responsible for repair/maintenance.	

IT NO: IT/93/31/2025-26

FLUSHING CLEANING & FABRICATION OF SHIP DRAINAGE PIPES - PMSS BASOL

S No	Details												
1.	Ships Name	PMSS BASOL											
2.	Parent Equipment	Drainage system											
3.	OEM/ Origin	China											
4.	Sub Equipment	Sewerage drain pipes, bathroom, galley, pantry and deck drain											
5.	Assembly Component	Pipe lines											
6.	Quantity	56 in Nos											
7.	Justification for Work	Cleaning and flushing of Sewerage drain pipes, bathroom, galley, pantry and deck drain											
8.	Work Required	<table><tr><td>a</td><td>b</td><td>c</td></tr><tr><td>Defect/ Routine List</td><td>Repair Work Required</td><td>Services Required</td></tr><tr><td>Cleaning and flushing of Sewerage drain pipes, bathroom, galley, pantry and deck drain</td><td>Servicing required</td><td>Servicing required</td></tr></table>			a	b	c	Defect/ Routine List	Repair Work Required	Services Required	Cleaning and flushing of Sewerage drain pipes, bathroom, galley, pantry and deck drain	Servicing required	Servicing required
		a	b	c									
		Defect/ Routine List	Repair Work Required	Services Required									
Cleaning and flushing of Sewerage drain pipes, bathroom, galley, pantry and deck drain	Servicing required	Servicing required											
9.	Eligibilities	Local and international contractor registered with FBR and having working experience with PMSA											
10.	EDC	07 Days											
11.	Warranty	01 Year											
12.	Acceptance Criteria	a. OEM certified items. b. All BER items is to be replaced with new. c. Use tested tools											

PROCUREMENT OF CAMERA LENS & GIMBAL MOUNT - 93 PMSA SQN

S No	Details																	
1.	Ships Name	93 PMSASQN																
2.	Parent Equipment	Defender BN-2T Aircraft																
3.	OEM	Nikkon																
4.	Origin	Japan																
5.	Assembly Component	a. NIKKON NIKKOR Z 180- 600MM b. NIKKON Z 50MM c. NIKON Z 24-70MM d. Camera Z6 II																
6.	Quantity	As per S No 8																
7.	Justification for Work	For emergent requirement of SAR and Area surveillance missions for photographing suspicious boats/ object.																
8.	Detailed scope of work	<table><tr><th>b</th><th>c</th></tr><tr><th>Detail of Services Required</th><th>Detail of Spares Required</th></tr><tr><td>Replacement required on Defender BN-2T aircraft</td><td>a. 01 x NIKKON NIKKOR Z 180- 600MM b. 01 x NIKKON Z 50MM c. 01 x NIKON Z 24-70MM d. 01 x Camera Z6 II</td></tr></table>	b	c	Detail of Services Required	Detail of Spares Required	Replacement required on Defender BN-2T aircraft	a. 01 x NIKKON NIKKOR Z 180- 600MM b. 01 x NIKKON Z 50MM c. 01 x NIKON Z 24-70MM d. 01 x Camera Z6 II										
b	c																	
Detail of Services Required	Detail of Spares Required																	
Replacement required on Defender BN-2T aircraft	a. 01 x NIKKON NIKKOR Z 180- 600MM b. 01 x NIKKON Z 50MM c. 01 x NIKON Z 24-70MM d. 01 x Camera Z6 II																	
9.	Technical Specs	<table><tr><td>Focal length</td><td>Without built-in Tele converter 180-400 mm With built-in Tele converter 252-560 mm</td></tr><tr><td>Angle of view</td><td>Nikon FX-Format DSLR Cameras Without built-in Tele converter 13 40"-6 10" With built-in Tele converter 9 50"-4 30"</td></tr><tr><td>Minimum Focus Distance</td><td>2.0 m/6.6 ft from plane at all zoom positions</td></tr><tr><td>Diaphragm Blades</td><td>09 (rounded diaphragm opening)</td></tr><tr><td>Dimension</td><td>128.0mm x 362.5mm</td></tr><tr><td>Weight</td><td>3500g</td></tr><tr><td>Supplied accessories</td><td>a. LC-K103 slip-on Front Lens Cap b. LF-4 Rear Lens Cap c. HK-41 Lens hood d. Dedicated slip -in filter holder e. 40.5mm screw-on natural color (NC) filter. f. LN-2 strap g. CL-L2 Lens Case</td></tr></table>	Focal length	Without built-in Tele converter 180-400 mm With built-in Tele converter 252-560 mm	Angle of view	Nikon FX-Format DSLR Cameras Without built-in Tele converter 13 40"-6 10" With built-in Tele converter 9 50"-4 30"	Minimum Focus Distance	2.0 m/6.6 ft from plane at all zoom positions	Diaphragm Blades	09 (rounded diaphragm opening)	Dimension	128.0mm x 362.5mm	Weight	3500g	Supplied accessories	a. LC-K103 slip-on Front Lens Cap b. LF-4 Rear Lens Cap c. HK-41 Lens hood d. Dedicated slip -in filter holder e. 40.5mm screw-on natural color (NC) filter. f. LN-2 strap g. CL-L2 Lens Case		
Focal length	Without built-in Tele converter 180-400 mm With built-in Tele converter 252-560 mm																	
Angle of view	Nikon FX-Format DSLR Cameras Without built-in Tele converter 13 40"-6 10" With built-in Tele converter 9 50"-4 30"																	
Minimum Focus Distance	2.0 m/6.6 ft from plane at all zoom positions																	
Diaphragm Blades	09 (rounded diaphragm opening)																	
Dimension	128.0mm x 362.5mm																	
Weight	3500g																	
Supplied accessories	a. LC-K103 slip-on Front Lens Cap b. LF-4 Rear Lens Cap c. HK-41 Lens hood d. Dedicated slip -in filter holder e. 40.5mm screw-on natural color (NC) filter. f. LN-2 strap g. CL-L2 Lens Case																	
10.	Eligibilities	a. Replacement of items are to be delivered in New Condition only, from OEM or OEM authorized vendors. b. Firms have to provide authorization letter of their principal firms and bank statement of last 01 years of their firm c. Firms need to include freight/ insurance charges and custom duties/taxes, etc (as applicable) in quotation. d. In case of failure to meet acceptance criteria or any defect during physical/ operational testing of items post-delivery, firm is liable to get the items replaced/ repaired on FoC basis in shortest possible time																
11.	EDC	2 week after award of contract Departmental Officer																
12.	Warranty	1 Year																

13.	Acceptance Criteria	a. Satisfactory physical condition and operational check of items. b. Successful trail by end user.
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IT SPECIFICATIONS FOR SURVEILLANCE TRIPOD GIMBAL STAND CAMERA AND LENS
93 PMSA SQN

S No	Details		
1.	Ships Name	93 PMSA SQN	
2.	Parent Equipment	Surveillance on board Defender aircraft	
3.	OEM	DJI	
4.	Model	DJI RS 4	
5.	Origin	As per OEM country	
6.	Part No. of Assembly Component	DJI RS 4	
7.	Quantity	1	
8.	Source of Availability	OEM Authorized Dealers	
9.	Justification for Work	For emergent requirement of SAR and Area surveillance missions for photographing suspicious boats/ object.	
10.	Work Required		
		a	b
		Services Required	Spares Required
		Replacement required on Defender BN-2T aircraft	DJI RS 3 Combo
11.	Detailed scope of work		
		a	b
		Detail of Services Required	Detail of Spares Required
		Replacement required on Defender BN-2T aircraft	DJI RS 4 Tripod Gimbal
12.	Technical Specs	As per OEM	
13.	Eligibilities	a. Replacement of items are to be delivered in New Condition only, from OEM or OEM authorized vendors. b. Firms have to provide authorization letter of their principal firms and bank statement of last 01 years of their firm c. Firms need to include freight/ insurance charges and custom duties/taxes, etc (as applicable) in quotation. d. In case of failure to meet acceptance criteria or any defect during physical/ operational testing of items post-delivery, firm is liable to get the items replaced/ repaired on FoC basis in shortest possible time	
14.	EDC	2 week after award of contract Departmental Officer	
15.	Warranty	1 Year	
16.	Acceptance Criteria	a Satisfactory physical condition and operational check of items. b. Successful trail by end user.	

PROCUREMENT OF MAIN ENGINE NO 2 PISTON & LINER - PMSS DASHT

S No	Details		
1.	Ships Name	PMSS DASHT	
2.	Parent Equipment	Main Engine No 2	
3.	OEM	MTU	
4.	Model	16V4000M73L	
5.	Origin	Germany	
6.	Sub Equipment	Main Engine No 2	
7.	Assembly Component	Piston, Piston Rings, Connecting Rod, Cylinder Liner.	
8.	Part No. of Assembly Component	Piston, Piston Rings, Connecting Rod, Cylinder liner Part No 234110200000, X00035890, XS595030, X00027830	
9.	Quantity	04	
10.	Source of Availability	MTU	
11.	Justification for Work	Procurement/ demand of mechanical spares Main Engine No 2	
12.	Work Required	a	b
		Repair Work Required	Services Required
		Procurement/ demand of mechanical spares w.r.t Main Engine No 2.	a. Dismantling and installation of Main Engine No 2 Piston, Piston Rings, Connecting Rod and Cylinder Liner. b. Replacement of Main Engine No 2 Piston, Piston Rings, Connecting Rod and Cylinder Liner.
13.	Detailed scope of work	c	Spares Required
			Piston, Piston Rings, Connecting Rod and Cylinder Liner.
14.	Technical Specs	a	b
		Detail of Repair Work Required	Detail of Services Required
		Procurement/ demand of mechanical spares w.r.t Main Engine No 2.	a. Dismantling and installation of Main Engine No 2 Piston, Piston Rings, Connecting Rod and Cylinder Liner. b. Replacement of Main Engine No 2 Piston, Piston Rings, Connecting Rod and Cylinder Liner.
15.	Eligibilities	c	Detail of Spares Required
			Piston, Piston Rings, Connecting Rod and Cylinder Liner.
14.	Technical Specs	As per Technical Manual/ OEM.	
15.	Eligibilities	a. Must have relevant experience in procurement of said spares.	

		b. Only OEM recommended spares must be used. Firm must visit site for understanding exact nature of defect/ hindrances involved in job prior quoting to avoid inconvenience on later stage after award of Work Order.
16.	EDC	07 x Days
17.	Warranty	01 x Year
18.	Acceptance Criteria	a. OEM certified spares should be used. b. Technical specifications to be provided by Firm.
19.	Any other relevant info	Contact SS/ MEO/ firm visit onboard to resolve any query.

PROCUREMENT OF 6 KVA UPS SYSTEM - PMSS RAFAQAT

S No	Details			
1.	Ships Name	PMSS RAFAQAT		
2.	Parent Equipment	APC Easy UPS online SRV6KI 6000 VA 230V		
3.	OEM	Schneider Electric		
4.	Model	SRV6KI		
5.	Origin	Schneider Electric (APC Brand)		
6.	Sub Equipment	6 KVA Online UPS		
7.	Quantity	01 in No		
8.	Source of Availability	Local Source		
9.	Justification for Work	6 KVA UPS is critically required for backup of main broadcast, CCTV and IT equipment		
10.	Detailed scope of work	a	b	c
		Detail of Repair Work Required	Detail of Services Required	Detail of Spares Required
		Installation of 6KVA UPS and make it online with ship main broadcast and CCTV system.	Installation of 6KVA UPS and make it online with ship main broadcast and CCTV system.	a. All material, spares, tools special equipment/ tools, accessories and cables for said work are to be arranged by the contractor should be marine version. b. Any other spares required for installation and STW of the system which are not mentioned in IT Specs are to be arranged by the firm
11.	Technical Specs	Input voltage Out Put power Output voltage Efficiency at full load Humidity Over voltage protection Overload/ Short Circuit protection Topology Wave Form Type	100-230VAC 40-70HZ 6.0Kwatts/6.0KVA 220VAC Up to 94.0% 0-95% (Non Condensing)% Yes Yes Double conversion online Sine wave	
12.	Eligibilities	Any suitable firm		
13.	EDC	02 x Working days		
14.	Warranty	1 year		
15.	Acceptance Criteria	a. Successful trials by end user. b. QA/GG certificate issued by QA/QC Dept. After completion of trails and STW.		
1.	Any other relevant info	All other work concern to the system installation not covered in contract are also be the responsibility of the firm during installations and STW of the system. Any damage occurred during work, firm would be responsible for repair/maintenance.		

**CALIBRATION/ FITTING OF LINES/ CONNECTION OF NEW GUAGES & METERS - PMSS
BASOL**

S No	Details			
1.	Ships Name	PMSS BASOL		
2.	Parent Equipment	Pressure & temp gauges and meters/ new connection and lines		
3.	OEM/ Origin	China		
4.	Sub Equipment	Pressure & temp gauges and meters/ new connection and lines		
5.	Quantity	150 in Nos		
6.	Justification for Work	Calibration of Pressure & temp gauges and meters/ new connection and lines required		
7.	Work Required			
		a	b	c
		Defect/ Routine List	Repair Work Required	Services Required
		Pressure & temp gauges and meters/ new connection and lines required	Calibration of Pressure & temp gauges and meters/ new connection and lines required	Calibration of Pressure & temp gauges and meters/ new connection and lines required
8.	Detailed scope of work			
		a	b	
		Detail of Repair Work Required	Detail of Services Required	
		Calibration of Pressure & temp gauges and meters/ new connection and lines required	Calibration of Pressure & temp gauges and meters/ new connection and lines required	
9.	Eligibilities	Local and international contractor registered with FBR and having working experience with PMSA		
10.	EDC	07 Days		
11.	Warranty	01 Year		
12.	Acceptance Criteria	a. OEM certified items b. All BER items is to be replaced with new c. Use tested tools		

REPAIR/ OVERHAULING OF ENGINE ROOM AXIAL FANS AND MOTORS - PMSS BASOL

S No	Details				
1.	Ships Name	PMSS BASOL			
2.	Parent Equipment	Engine room axial fans and motors			
3.	OEM/ Origin	China			
4.	Sub Equipment	Exhaust and supply fan			
5.	Assembly Component	Motor, fan, body and mash			
6.	Part No. of Assembly Component	S No	Part No	Description	Qty
		a.	NA	Supply fan	01
		b.	NA	Exhaust fan	01
		c.	NA	Combine fan	01
7.	Quantity	03 in Nos			
8.	Justification for Work	Repair/ overhauling of 03 x Engine room axial fans and motors			
9.	Work Required	a	b	c	d
		Defect/ Routine List	Repair Work Required	Services Required	Spares Required
		Repair/ overhauling of 03 x Engine room axial fans and motors	Repair/ overhauling of 03 x Engine room axial fans and motors	Repair/ overhauling of 03 x Engine room axial fans and motors	As per S No 10
10.	Detailed scope of work	a	b	c	
		Detail of Repair Work Required	Detail of Services Required	Detail of Spares Required	
		Repair/ overhauling of 03 x Engine room axial fans and motors	Repair/ overhauling of 03 x Engine room axial fans and motors	As per S No 10	
11.	Eligibilities	Local and international contractor registered with FBR and having working experience with PMSA			
12.	EDC	07 Days			
13.	Warranty	01 Year			
14.	Acceptance Criteria	d. OEM certified items e. All BER items is to be replaced with new f. Use tested tools			

PROCUREMENT & INSTALLATION OF PUBLIC ADDRESS SYSTEM - PMSS DASHT

S No	Details		
1.	Ships Name	PMSS DASHT	
2.	Parent Equipment	Public Address System	
3.	OEM	Jiaxing Kexun Electronic Co, LTD.	
4.	Origin	CHINA	
5.	Sub Equipment	Public Address Main unit	
6.	Assembly Component	Main control PCB, Key PCB, Power supply PCB, Relay PCB	
7.	Part No. of Assembly Component	Description	Part no
		Main Control PCB	KX2.588.002
		Key PCB	KX2.588.095
		Power supply PCB	KX2.908.012
		Relay PCB	KX2.354.012
8.	Quantity	Description	Quantity
		Main Control PCB	01
		Key PCB	01
		Power supply PCB	01
		Relay PCB	02
9.	Source of Availability	Local market/ Firm	
10.	Justification for Work	Repair/ Replacement work required of Public Address System for satisfactory operation	
11.	Work Required	a	b
		Defect List	Repair Work Required
		KG-2T Public Address main unit, Main Control PCB, Key PCB, Power supply PCB defective.	Repair/ Replacement of Public Address System for satisfactory operation
12.	Detailed scope of work	c	Services Required
			Repair/ Replacement of Public Address System for satisfactory operation
12.	Detailed scope of work	a	b
		Detail of Repair Work Required	Detail of Services Required
		Repair/ Replacement of Public Address System for satisfactory operation	Repair/ Replacement of KG-2T Public Address main unit, Main control PCB, Key PCB, Power supply PCB, Relay PCB
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	30 Days
15.	Warranty	01 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 info	Firm must visit onboard for clarification of any query and better understanding of requirement

DEFECT RECTIFICATION OF ANTI-FOULING PCB - PMSS BASOL

S No	Details						
1.	Ships Name	PMSS BASOL					
2.	Parent Equipment	Anti-fouling					
3.	OEM	Shipyard: CSSC Xijiang Shipbuilding Co, Ltd					
4.	Serial No	PZV-30					
5.	Origin	Italy					
6.	Sub Equipment	PCB of Anti-fouling system					
7.	Part No. of Assembly Component	S No		Part No	Description	Qty	
		a.		NA	PCB of Anti-fouling system	01	
8.	Quantity	As per S No 7					
9.	Source of Availability	Local Market					
10.	Justification for Work	PCB of Anti-fouling system malfunctioning.					
11.	Work Required	a		b		c	d
		Defect/ Routine List		Repair Work Required		Services Required	Spares Required
		PCB of Anti-fouling system malfunctioning.		Repair/ replacement of PCB through OEM/ Local source.		Repair/ replacement of PCB through OEM/ Local source.	As per Serial No 7
12.	Detailed scope of work	a		b		c	
		Detail of Repair Work Required		Detail of Services Required		Detail of Spares Required	
		Repair/ replacement of PCB through OEM/ Local source.		Repair/ replacement of PCB through OEM/ Local source.		As per Serial No 7	
13.	Eligibilities	Local and international contractor registered with FBR and having working experience with PMSA					
14.	EDC	07 Days					
15.	Warranty	01 Year					
16.	Acceptance Criteria	g. OEM certified items h. All BER items is to be replaced with new i. Use tested tools					

IT NO: IT/93/39/2025-26**IT SPECIFICATIONS PROCUREMENT OF LEDS, DE-HUMIDIFIER & VOLDAM AIR CURTAIN - HQ
PMSA/ C&CC**

S No	IT Specifications				
1.	Ship Name	PMSS INDUS			
2.	Parent Equipment	55 inch Media Wall LEDs, LED, De-Humidifier and Air Curtain.			
3.	OEM	LG, TCL, Crown & Voldam			
4.	Model	LD-550 DUN, C6K, MD-395, 4 Feet			
5.	Store Required				
		S. No	Description	Den	Qty Required
		a.	LG LEDs LD-550 DUN	No	04
		b.	LED TCL 55" C6K QD Mini LED	No	01
		c.	De-Humidifier MD-395	No	03
		d.	Voldam Air Curtain	Feet	04
6.	Justification	05 x 55" Media Wall LEDs installed in C&CC and D(Security) Office are essentially required to be replaced for CCTV display to maintain optimal surveillance capability and operational effectiveness of the AoR.			
7.	Scope of work	Installation work at display walls in C&CC and D(Security) Office.			
8.	Eligibility Criteria	FBR and SRB Registered Firm			
9.	EDC	ASAP			
10.	Warranty	01 x Year			
11.	Acceptance Criteria	Upon inspection of end user			

IT NO: IT/93/40/2025-26**IT SPECIFICATIONS PROCUREMENT OF STORES FOR SCRAPYARD HARD FLOORING – PMSS
INDUS/ WAREHOUSE**

S No	IT Specifications																							
1.	Ship Name	PMSS INDUS/ Warehouse																						
2.	Justification	Stores are essentially required for PMSS INDUS/ Warehouse for hard flooring of Scrapyard.																						
3.	Store Required	<table><tr><th>S. No</th><th>Description</th><th>Den</th><th>Qty Required</th></tr><tr><td>e.</td><td>Sand</td><td>Dumper</td><td>05</td></tr><tr><td>f.</td><td>Cement Blocks</td><td>No</td><td>500</td></tr><tr><td>g.</td><td>Cement Bag</td><td>Bag</td><td>60</td></tr><tr><td>h.</td><td>Bajri</td><td>Dumper</td><td>04</td></tr></table>			S. No	Description	Den	Qty Required	e.	Sand	Dumper	05	f.	Cement Blocks	No	500	g.	Cement Bag	Bag	60	h.	Bajri	Dumper	04
S. No	Description	Den	Qty Required																					
e.	Sand	Dumper	05																					
f.	Cement Blocks	No	500																					
g.	Cement Bag	Bag	60																					
h.	Bajri	Dumper	04																					
4.	Eligibility Criteria	a. Firm has experience of providing construction items at Govt Sites. c. Loading and Unloading of items are responsibility of firm. d. Any loss occurs during supply of said items is responsibility of firm. e. Security wise cleared firm and firm personnel. d. Firm has to visit the site prior starting of work in order to understand the scope of work.																						
5.	EDC	Within 30 Days																						
6.	Warranty	01 x Year																						
7.	Acceptance Criteria	Upon inspection of end user																						

MAJOR OVERHAUL (MOH)/ CORE EXCHANGE OF ENGINE S.NO CAE-880787 - 93 PMSA SQN

S No	Details				
1.	Ships Name	93 PMSA SQN			
2.	Parent Equipment	BN-2T Defender Aircraft			
3.	OEM	Rolls Royce (USA)			
4.	Model	Allison 250-B17C Turboprop Engine (Part No 23038150)			
5.	Serial No	CAE-880787			
6.	Origin	USA			
7.	Sub Equipment	Allison 250-B17C Turboprop Engine			
8.	Assembly Component	Self			
9.	Part No. of Assembly Component	23038150			
10.	Quantity	1			
11.	Source of availability	OEM or OEM Authorized Maintenance Centre (AMC)			
12.	Justification for Work	Major Overhaul of Engine has become due on hourly basis.			
13.	Work Required	a	b	c	d
		Defect/ Routine List	Repair Work Required	Services Required	Spares Required
		Major Overhaul of Engine has become due on hourly basis	a. Major Overhaul (MoH) of Allison 250-B17C Turboprop Engine as per details mentioned in Para 14 b. Core Exchange of Allison 250-B17C Turboprop Engine as per details mentioned in Para 15	Major Overhaul/ Core exchange of Allison 250-B17C Turboprop Engine CAE-880787	As per standard

14.	Major Overhaul (MoH)	a. Major Overhaul (MoH) of Engine and components are to be undertaken by OEM or OEM Authorized Maintenance Centre (AMC). Engine Lifting Data as per Log Book is appended below:			
		S No	Component Description	S No	Life consumed (Hrs)/ Cycles
		1)	Engine	CAE-880787	3468:40
		2)	Accessory Gear Box	CAG-80909	3468:40
		3)	Compressor CAC81493		
		4)	1 st Stage Wheel	KRL107756	3468:40
		5)	2-3 Stage Wheel	KR109527	3468:40
		6)	4 Stage Wheel	E81792	3468:40
		7)	5 Stage Wheel	KR108676	3468:40
		8)	6 Stage Wheel	KR107431	3468:40
		9)	Impeller	KR111467	3468:40
		10)	Spur Adaptor	UG21782	3468:40
		11)	Tie Bolt	UG20418	3468:40
		12)	Turbine CAT80924		
		13)	1 st Stage Wheel	X614353	1761:50
		14)	2 nd Stage Wheel	X622445	1761:50
		15)	3 rd Stage Wheel	X547317	3468:40
		16)	4 th Stage Wheel	X548400	3468:40
		17)	Tie Bolt	NM88499	3468:40
		18)	2 nd Stage Nozzle Diaphragm	MA228687	3468:40
		19)	Engine Accessories	Part No	Hours Consume since OH & Remarks
		20)	Over speed Governor	23032241	2976:05 (Overhaul Required)
		21)	Combined Governor	6875708	1952:05 (Due for Overhaul)
		22)	Fuel Control Unit	23070603	1992:00 (Due for Overhaul)
		23)	Fuel Pump	6899253	2965:50 (Due for Overhaul)
		24)	Fuel Nozzle	M250-10603	2269:15 (Due for Overhaul)
		25)	Bleed Valve	23053176	434:10 (Bleed valve fails to close above 94% citer RPM) Unserviceable
		26)	Tachometer Generator	3422016	Unserviceable (Hard to rotate and internal winding insulation low along with overhaul)
		27)	Dry Air Pump	AA3216CW	Unserviceable (Shaft and Internal Mechanism broken)
		b. General Engine (Following maintenance work including standard maintenance work package for Engine Major Overhaul is to be undertaken as per approved OEM MOH work scope).			
		(1) Standard Work		(a) Disassembling engine modules, cleaning of all parts, NDT, detail inspection of all main build kits/ accessories including PC filter, anti-icing valve, mountings, piping, turbine and brackets for chaffing, cracks or breaking. Inspection of control cables, harness assembly/ wirings	
				(b) Reassembling of engine (Include labor only)	
				(c) Test Cell Run (Include induction and final test cell run)	

		(2) New Replacement	(a) Main build kit	
			(b) Final finish kit (include all consumable and 100% replacement parts required to re-assemble engine)	
				(c) Fire Over Detector element Part No 3001-47-450/190C-3M
	c. Compressor Module			
	(1) Standard Work	Disassembling, cleaning, NDT, detailed inspection and reassembly		
	(2) Standard Replacement	Compressor 100% build kit: compressor casing, Impeller, Spur Adaptor Gear Shaft and Coupling Adaptor		
	(3) Standard Rework	Standard rework of Front Shroud, Rear Support, Diffuser Vane, Diffuser Scroll and Compressor Wheel coating		
	d. Accessory Gear Box Module			
	(1) Standard Work	Disassembling, cleaning, NDT, detailed inspection and reassembly		
	(2) Standard Replacement	Standard 100% Main build kit		
	(3) Standard Rework	Standard rework of Gear Box Cover and Housing		
	e. Turbine Module			
	(1) Standard Work	Disassembling, cleaning, NDT, detailed inspection – and reassembly		
	(2) Standard Replacement	(a)	Turbine 100% build kit	
		(b)	Stage 1 turbine wheel	
		(c)	Stage 2 turbine wheel	
		(d)	Stage 3 turbine wheel	CEB-1345 not to be complied
		(e)	Stage 4 turbine wheel	
		(f)	Tie Bolt (TP CEB 1319A R2)	
		(g)	Stage 1 Nozzle Shield (TP CEB A 1318)	
		(h)	Stage 1 and 2 Nozzle (TP CEB A 1212)	
		(j)	Energy observing ring (TP CEB A 1214)	
	(3) Standard Rework	(a)	Paint Treatment inner and outer shaft	
(b)		GP support		
(c)		Paint Treatment support		
(d)		Sump cover (TP CEB 1342)		
(e)		Exhaust collector		
(f)		Tie bolt (TP CEB 1319A R2 already complied)		
(g)		Stage 2 Nozzle		
f. All applicable mandatory inspections/ CEBs/ CSLs/ ADs and modifications regarding engine modules are to be accomplished				
g. Any other customer optional CEBs/ CSLs/ ADs and modifications apart from scope of MoH which needs to be accomplished may be undertaken only after, seeking approval from PMSA				
h. All requisite, Documents i.e. Airworthiness Certificate, Certificate of Conformity along with detail of work accomplished on Engine duly signed and stamped would be required				
j. FAA/ EASA or equivalent certification of the firm is to be provided.				
k. Itemized cost of MoH and overhauling of components (item wise) are to be quoted separately				
l. Firms have to provide authorization letter of their principal firms and bank statement of last 01 year of their firm				

		m. Firms must have at least 02 years' experience of procurement/ repair/ overhaul of Aviation components/ spare parts. Experience certificate of Aviation related contracts by contracting agency in Pakistan is mandatory
		n. Firms need to include freight charges/ insurance for transportation of the engine
		p. Firms need to get import/ export licenses from respective abroad firms/ agencies
		q. Engine must be cleared for service till its HMI becomes due or next 1750 Hrs
		r. Firm need to ensure shipment of engine to MRO within 7 x days after award of contract
		s. Firms need to provide assurance that the item shall be received from 93 PMSA SQN and will be transported to MRO for overhaul at their own responsibility. Same will also be delivered back at 93 PMSA SQN after requisite rectification at their responsibility
		t. Firm need to ensure that initial Test run will be conducted within 2 x weeks post receipt of Engine at MRO
		u. In case of failure to meet acceptance criteria or defect during physical/ operational inspection of items, firm is liable to get the items replaced/ repaired on FoC basis in shortest possible time
		v. During initial disassembling/ striping phase and final test cell running phase, 03 x PMSA reps are to be invited on-site for evaluation/ monitoring work extent/ material review and to monitor satisfactory performance (Final test run), respectively. During stay of PMSA reps, complete boarding/lodging will be responsibility of firm (both visits)
		w. Firm need to ensure issuance of letter of invitation for para 16a (w) covering the whole expected timeline of engine stay at MRO facility to nominated 3 x PMSA reps within 1 x week of award of contract.
		x. Offered quotes are to be firm and final. No adjustments against Foreign Exchange, rate variations will be accommodated
		y. Firm may quote Custom duties/ taxes (as applicable) for transportation of the engine. However, final decision for responsibility of customs/ transportation (PMSA or supplier) will be finalized prior contract
		z. Any additional work/ replacement required due to findings of Induction test cell run, inventory check, stripping of Engine or Inspection may not be undertaken until approved by HQ PMSA
		aa. Firm is bound to provide Inspection report and ensure conduct of MRB within 12 weeks of receipt of engine
		bb. The firm is to provide detailed MRB report covering details of Labor/ Man Hours along with itemized rework detail. This should be supported by financial estimation
		cc. The firm is to confirm availability of 3 rd and 4 th stage turbine wheels pre-CEB 1345.- Replacement of said wheels with post CEB 1345 wheels is not acceptable.
15.	Core Exchange	a. A Core Exchange Engine may be offered to PMSA (copy of complete Log Book should be provided with offer) and same will be accepted by PMSA after Test Cell Run (TCR) at firm premises
		b. 03 x PMSA reps are to be invited on-site for evaluation/ monitoring satisfactory performance (TCR) of Engine. During stay of PMSA reps, complete boarding/ lodging will be responsibility of firm
		c. Firm need to be ensure issuance of letter of invitation for para 16b (b) to 3 x PMSA reps within 1 x week of award of contract
		d. Post TCR, engine will be shipped to PMSA within 2 x week and it will be installed on aircraft. Final acceptance will be forwarded after successful flight
		e. Post final acceptance, Engine S No 880787 will be shipped to the firm

		f. No additional charges will be applicable after disassembly of 880787 and price will be firm and final g. Engine must be cleared for service till next HMI or 1750 Hrs h. All engine components/ accessories should have minimum 90-95% remaining hours/ life j. All requisite, Documents i.e Airworthiness Certificate, Certificate of Conformity along with detail of work accomplished on Engine duly signed and stamped required k. FAA/ EASA or equivalent certification of the firm is to be provided l. Firms have to provide authorization letter of their principal firms and bank statement of last 01 year of their firm m. Firms must have at least 02 years' experience of procurement/ repair/ overhaul of Aviation components/ spare parts. Experience certificate of Aviation related contracts by contracting agency in Pakistan is mandatory n. Firms need to include freight charges/ insurance charges for the transportation of engine p. Firms need to get import/ export licenses from respective abroad firms/ agencies ' q. Firms need to provide assurance that Engine will be transported to 93 PMSA SQN after requisite rectification at their responsibility r. In case of failure to meet acceptance criteria or defect during physical/ operational inspection of items, firm is liable to get the items replaced/ repaired on FoC basis in shortest possible time s. Offered quote are to be firm and final. No adjustments against Foreign Exchange rate variations will be accommodated t. Firm is to quote Custom duties/ taxes (as applicable) for transportation of the engine. However, final decision for responsibility of customs/ transportation (PMSA or supplier) will be finalized prior contract
16.	Defect/ repair History	Repair through M/s MTSS in Oct 2019 vide contract number PMSA/2017-18/ D (P&CC)/1734722 dated 12 December 2017
17.	Technical Specs	As per S No 9
18.	Eligibility	Firm is to qualify prerequisites for at least one proposal i.e. for MOH as per 16a and Core Exchange as per Para 15
19.	EDC	24 weeks after award of contract
20.	Warranty	At least 01 year or 500 Hrs (whichever is earlier)
21.	Acceptance Criteria	As per eligibilities mentioned at Para 14, 15, 18, 19 and 20 above
22.	Any other relevant information	Firms are requested to provide original quote of AMC (without price) along with their respective technical quote. Technical quote of firm will not be accepted without provisioning of AMC original quote

REPAIR/ MAINTENANCE OF MAIN SWITCH BOARD - PMSS RAFAQAT

S No	Details				
1.	Ships Name	PMSS RAFAQAT			
2.	Parent Equipment	Power Generation and Distribution system			
3.	Origin	USA			
4.	Sub Equipment	Main Switch Board			
5.	Assembly Component	Main breakers .auxiliary breaker, shore breaker, UVT, UVR, Bus Bars, wiring, connections, insulations, phase sequence module Reverse power modules, Fuses, Relays, Transformers, paralleling circuits indications, insulation monitor circuit switches and Gears.			
6.	Quantity	01			
7.	Source of Availability	USA			
8.	Justification for Work	Main switch board components observed malfunctioning			
9.	Work Required	a	b	c	d
		Defect/ Routine List	Repair Work Required	Services Required	Spares Required
		Main breakers .auxiliary breaker, shore breaker, UVT, UVR, Bus Bars, wiring, connections, insulations, phase sequence module Reverse power modules, Fuses, Relays, Transformers, paralleling circuits indications, insulation monitor circuit switches and Gears.	Repair/ Replacement of such assembly components are required	Cleaning, Inspection, connections tightening, insulations, calibration and repairing work on assembly components are required	All material, spares, tools, special equipment / tools, accessories etc required for said work are to arrange by the contractor
10.	Detailed scope of work	a	b	c	
		Detail of Repair Work Required	Detail of Services Required	Detail of Spares Required	
		Main breakers .auxiliary breaker, shore breaker, UVT, UVR, Bus Bars, wiring, connections, insulations, phase sequence module Reverse power modules, Fuses, Relays, Transformers, paralleling circuits indications, insulation monitor circuit switches and Gears.	Main switch board components cleaning, inspection, connections tightening insulations, calibration and repairing work on assembly components are 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	
11.	Technical Specs	450 VAC ,115 VAC and 24 vdc		
12.	Eligibilities	a. The firm should visit onboard and carry out inspection to establish the extent of required work. b. The firm should have experience of the same kind of work. c. The firm should be NTN/GST registered.		
13.	EDC	07 working days.		
14.	Warranty	1 year		
15.	Acceptance Criteria	a. OEM certified parts. b. Satisfactory running trials. c. HATs complete.		

SERVICING/ OVERHAULING OF FUEL OIL TRANSFER PUMP NO 1 - PMSS BASOL

S No	Details				
1.	Ships Name	PMSS BASOL			
2.	Parent Equipment	Fuel oil Transfer Pump			
3.	OEM	JIANGSU ZHENHUA PUMP INDYSTRY CO, LTD			
4.	Model	CLH50-32-4-5(Z)			
5.	Origin	China			
6.	Sub Equipment	Fuel oil Transfer Pump			
7.	Part No. of Assembly Component	S No	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
		h.	NA	Motor	
8.	Quantity	As per para 7			
9.	Justification for Work	Upon Inspection fuel oil transfer pump performance degraded & found deteriorated abnormal noise & vibration of observed			
10.	Work Required	a	b	c	d
		Defect/ Routine List	Repair Work Required	Services Required	Spares Required
		Upon Inspection fuel oil transfer pump performance degraded & found deteriorated abnormal noise & vibration of observed	Complete overhauling required	Upon Inspection fuel oil transfer pump performance degraded & found deteriorated abnormal noise & vibration of observed	As per serial No 7
11.	Detailed scope of work	As per S No. 12			
12.	Technical Specs	As per sample provided by SS			
13.	Eligibilities	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.			
14.	EDC	07 Days			
15.	Warranty	One year warranty.			
16.	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 Item			

REPAIR/ MAINTENANCE OF SHIP'S GALLEY & WARDROOM PANTRY DRAIN LINES NRVS
PMSS NUSRAT

S No	Details				
1.	Ships Name	PMSS NUSRAT			
2.	Parent Equipment	Drain lines NRVs			
3.	Quantity	04 x drain lines NRVs			
4.	Justification for Work	Drain lines NRVs are degraded due to FWT over the passage of time			
5.	Work Required	a	b	c	d
		Defect/ Routine List	Repair Work Required	Services Required	Spares Required
		Drain lines NRVs are degraded due to FWT over the passage of time	Repairing of drain lines NRVs for sat ops	See details S No 6 Column b	As per requirement
6.	Detailed scope of work	a	b	c	
		Detail of Repair Work Required	Detail of Services Required	Detail of Spares Required	
		Repairing of drain lines NRVs for sat ops	a. Following lines are to be dismantled i. 03 x ship's galley drain lines NRVs to be opened, overhauled (replaced if required) and fitted back size dia 2". ii. 01 x wardroom pantry drain line NRV to be opened, overhauled (replaced if required) and fitted back size dia 2". b. Special tools and spares are to be arrange by the firm for dismantling and fitting of said system. c. The firm will be responsible to undertake any work not covered above to ensure good quality of work. d. The firm will be responsible for welding/cutting, if required. e. The firm will be responsible ¹ for requirement of external services. f. The firm will be responsible for all removal, transportation and installation work during warranty/ guarantee period claims and in case of any	As per requirement	

		re-work g. There will be no growth work;	
7.	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 required onboard. c. The firm should be NTN/GTN registered	
8.	EDC	01 x week after issuance of work/ confirmation order	
9.	Warranty	01 year from the date of acceptance	
10.	Acceptance Criteria	a. Satisfactory work done by the firm. b. Practical acceptance by SS	

**REPAIR REPLACEMENT OF GENSET NO 02 (AVR) AUTO VOLTAGE REGULATOR CARD -
PMSS BASOL**

S No	Details			
1.	Ships Name	PMSS KASHMIR		
2.	Parent Equipment	Controllable Pitch Propeller		
3.	OEM	OLAER		
4.	Model	HST2-M-4-530-S-4		
5.	Serial No	WAFG 46		
6.	Origin	Chinese		
7.	Sub Equipment	Hydraulic Pump Pack (HPP) of Port CPP System		
8.	Assembly Component	Sea Water Cooler		
9.	Part No. of Assembly Component	Part Number	Description	Quantity
		3974040530004	Shell and Tube Cooler	02
10.	Quantity	As per S No 9		
11.	Source of Availability	OEM		
12.	Work Required	a	b	
		Defect/ Routine List	Repair Work Required	
		Degradation observed in both cooler due FWT	Procurement/ fabrication of CPP Sea water cooler with complete body required	
13.	Technical Specs	S No	Description	Technical Specs
		a.	Test pressure	4 MPA
		b.	Design pressure	10 MPA
		c.	Heat Transfer Area	61 square meter
		d.	Material	Cu/Nc = 90/10
		e.	No of tubes	22
		f.	Type	Shell & tube
14.	Eligibilities	Reputable local/ international contractor registered with FBR and having working experience with PMSA.		
15.	EDC	05 days after award of contract		
16.	Warranty	01 Year		
17.	Acceptance Criteria	a. OEM Certified items. b. Defective/ BER items must be replaced with new one. c. Firm not be allowed to use ship tools and manpower.		

CLEANING & PAINT WORKS OF 04 X FRESH WATER TANKS - PMSS KASHMIR

S No	Details				
1.	Ships Name	PMSS KASHMIR			
2.	Parent Equipment	Storage Tanks			
3.	OEM	China Shipbuilding			
4.	Origin	China			
5.	Sub Equipment	Fresh Water System			
6.	Assembly Component	Fresh Water Tanks			
7.	Quantity	04			
8.	Work Required	a	b	c	d
		Defect/ Routine List	Repair Work Required	Services Required	Spares Required
		Cleaning of paint work of 04 x fresh water tanks (75.754 m ³)	Cleaning & Paint work required	Yes	Paint required as per PN policy
9.	Detailed scope of work	As per para 8			
10.	Technical Specs	03 x Tank (Area 75 754 cubic meter)			
11.	Eligibilities	Reputable local contractor registered with FBR and having working experience with PMSA			
12.	EDC	30 Days after award of contract			
13.	Warranty	01 Year			
14.	Acceptance Criteria	Visual satisfactory inspection			

REQUIREMENT OF NAVAL STORES STATIONARY ITEMS - PMSS INDUS

S No	IT Specifications	
1.	Ship's Name	PMSS INDUS/WAREHOUSE
2.	Parent Equipment	Naval Stores
3.	OEM	Pakistan/Local
4.	Model	See overleaf/ As Per Sample
5.	Origin	Pakistan
6.	Sub Equipment	Naval Stores
7.	Quantity	See Overleaf
8.	OEM Detail	See Overleaf
9.	Work Requires	Purchase of Naval Stores items for all PMSA Units/Ships
10.	Detail scope of Work	C
		Services Required
		Purchase of Stores (See Undermentioned List)
		D
		Spares Required
		See Undermentioned List
11.	EDC	30 Days after Issuance of order
12.	Warranty	01 Year after delivery
13.	Acceptance Criteria	Accepted by Warehouse Staff

LIST OF ITEMS

S.NO	DESCRIPTION	BRAND	MODEL/FLAVOUR	PACKING	DEN	QTY REQ
1.	Aeron Gel	Aeron/ Balev Corporation	Black Crystal	80 Gms	No	24
			Vanilla	80 Gms	No	24
			Passion	80 Gms	No	24
			Wish	80 Gms	No	24
			Desire	80 Gms	No	24
			Lemon	80 Gms	No	24
			Strawberry	80 Gms	No	24
			Orange	80 Gms	No	24
			Lilac	80 Gms	No	24
			Citrus Squash	80 Gms	No	24
2.	Tissue Paper/ Hand Towel	Rose Patel	2 PLY	100 Sheet	Pkt	150
3.	Cotton Rag/ Jute	Terry Toweling	Fine Quality	50 Kg	Kg	3000
4.	Broom with Handle	As per Sample	As per Sample	250 Gms	No	50
5.	Chipping Hammer	Harden	570323	500 Gm L: 150mm W.: 30mm	No	100
6.	Mop Refill	Fine Quality	Fine Quality	600 Gms	No	150
7.	Paint Brush	Universal	Diamond Series	2" & 4" (Inches)	No	400 (200 Each)
8.	Paint Roller	Universal	Diamond Series	4 Inches	No	200
9.	Airwick Machine	Airwick	Automatic sensor machine	01 Each	No	30
10.	Calculator	Citizen	CT-9300	01 Each	No	50
11.	Surf Excel	Unilever	Top Load	01 Kg	Kg	60
12.	Emery Paper (Grade 1,2 & 3)	Riken	Grade 1 - 3	Sheet	Sheet	600 (200 Each)
13.	Pad Lock Desi (Large Size)	Local	56 mm	01 each	No	50
14.	Wrapping Sheet	Local	Width: 20 Inch	100-150 Meter Roll	Roll	20
15.	Printer Ribbon	Print - Rite	Epson LQ-350	01 Each	Nos	120
16.	Transparent Bar File Cover	Sensa	A4 Size	Pack of 10	Nos	240
17.	Energy Saver (LED)	Phillips	Latest Model	01 Each	Nos	100
18.	LED Ceiling Lights (SMD Light)	Phillips	12 Inches	01 Each	Nos	36
19.	Wall Clock	Seiko-5	Latest Model	01 Each	Nos	12
20.	Table Set	Elevate	Top Quality	01 Each	Nos	12

**STORE ITEMS REQUIRED FOR REPAIR MAINTENANCE OF 02 X RCC WATCH TOWERS - PMSA
BASE GWADAR**

S No	IT Specifications			
1.	Ship's Name	PMSS NAZIM/ PMSA BASE GWADAR		
2.	Qty	01		
3.	Justification i.e PMSA/ Failure/ FWT etc	Requirement of stores item for 02 x RCC watch towers at +9work required		
4.	Work Required/ Defect	Following store items required for repair/ maintenance of 02 x RCC watch towers at PMSA Base Gwadar.		
		S No	Description	Qty
		a.	Crush	05 (dumper)
		b.	Iron (Saria)	2000 Kg
		c.	Cement Bags	250 No
		d.	Sand	500 Sq Ft
		e.	Distempers	08 Bucket
		f.	Crush	05 (dumper)
5.	Detailed Scope of Work	Same as S No 4		
6.	Eligible Criteria	Any local/ international well reputed firm having experience for repair/ maintenance of buildings		
7.	EDC	30 Days		
8.	Warranty	1 Year		
9.	Acceptance Criteria	Inspection by end user		
10.	Any Other relevant Information	POC LT Ali Abbas PN 0309-6076840 OI/C PMSA Base Gwadar Note: Contact through D(P&CC)		

**REPAIR/ REPLACEMENT AND INSTALLATION OF OFFICE FURNITURE/ WORKSTATIONS -
B & A AND NS DIRECTORATE**

S No.	IT Specifications		
1.	Parent Equipment	Office Furniture	
2.	Qty	As mentioned Against each	
3.	Justification	Office furniture are deteriorated due to fair, wear and tear	
4.	Work Required	Installation of workstation	
5.	Details Scope of Work	Installation of L-Shape Work Stations	02
		Installation of drawers for Work Stations and Office Table	01
		Installation of locks (Built in work station)	10
		Replacement of Door Stopper/ Closer	01
		Supply and installation of PVC edging, cable grommets, keyboard trays, CPU holders, drawers, locks, handles and hardware fitting	06
		Installation of cable management System	06
		Installation of Rubber mat for aluminum windows of lope holes	03
		Installation of electrical sockets, LAN cables and power cords as required	06
6.	Technical Specs	As per approved design and site requirements	
7.	Eligible Criteria	Any reputed firm having good experience of furniture	
8.	EDC	02 x Weeks	
9.	Warranty	01 x Year	
10.	Acceptance Criteria	Work will be inspected and accepted by end user after satisfactory completion	

**PROCUREMENT AND INSTALLATION OF FIRE DETECTION SYSTEM FOR HQ PMSA
BUILDING - PMSS INDUS**

S No	Details		
1.	Ships Name	PMSS INDUS	
2.	Parent Equipment	FIRE DETECTION SYSTEM	
3.	OEM	INFINITY 8, England	
4.	Model	INFINITY 8 EN54-2 & EN54-4	
5.	Serial No	43903 & 43904	
6.	Origin	England	
7.	Sub Equipment	02 x Control Panel ,150 x Fire Detectors, Manual call points .Alarm buzzers	
8.	Part No. of Assembly Component	INFINITY 8 EM54-2 & EN54-4 Control panels GFE-S.2 Type 2 wire /24V DC Detector Heads	
9.	Quantity	02 x Control Panel and 150 x Fire Detectors including alarm buzzers and manual call points	
10.	Source of Availability	ZETA UK	
11.	Justification for Work	Existing fire detection system is defective. Same to be repaired/procured and installed for safety purpose	
12.	Work Required	a	b
		Defect/ Routine List	Services Required
		Fault diagnosis and rectification of existing 2 x control panels.	Procurement & installation of control panels, detectors, manual call points and alarm buzzers.
		Localization of faulty/ defective detectors, manual call points and alarm.	Rigging of new wiring from existing control panel to Guard room for installation of repeater.
		Complete wiring circuit verification of existing system.	
			c
			Spares Required
			Undermentioned spares as per requirement: Main control panel Repeater panel at Guard room including wiring Smoke detectors Heat detectors Manual call points Alarm buzzer
13.	Detailed scope of work	Repair / procurement and installation of fire detection system including control panels, detectors, manual call points, alarm buzzers and repeater panel at Guard Room	
14.	Eligibilities	All registered and reputed firm having good experience.	
15.	EDC	15 x Days	
16.	Warranty	01 x Year	
17.	Acceptance Criteria	a. Components must be marine version. b. Components must withstand humid environmental condition. c. Satisfactory test /trials of system by end user. d. Provisioning of complete documentation including wiring diagram.	
18.	Any other relevant info	In case existing control panels declared BER, Same may be renewed with same model or any model compatible with existing detectors in order to utilize existing known good detectors	

REPAIR/ MAINTENANCE OF AUTOMATIC IDENTIFICATION SYSTEM (AIS) JHS-183
DISPLAY PANEL - PMSS KASHMIR

S No	Details			
1.	Ships Name	PMSS KASHMIR		
2.	Parent Equipment	Auto Identification System AIS JHS-183		
3.	OEM	JRC, JAPAN		
4.	Model	JHS-183		
5.	Serial No	BB02824		
6.	Origin	JAPAN		
7.	Sub Equipment	Display Panel of AIS JHS-183		
8.	Quantity	01 x Main Display Panel of AIS JHS-183		
9.	Justification for Work	Existing AIS JHS-183 is became defective. Repair/ replacement is required.		
10.	Work Required			
		a	b	c
		Defect/ Routine List	Repair Work Required	Spares Required
		Main Display Panel of AIS JHS-183 is defective	Repair/ replacement of main Display Panel of AIS JHS-183 is required	1 x Main Display Panel of AIS JHS-183 is required
11.	Eligibilities	Reputable Local contractor having working experience in Electronic equipment/ system		
12.	EDC	15 days		
13.	Warranty	a. 1 x year warranty after satisfactory test/ trials. b. Material will be replaced if deformity or wear is developed during warranty period		
14.	Acceptance Criteria	Satisfactory work after successful trials		
15.	Any other relevant info	a. Contact SS/ visit onboard for clear understanding of scope of work. b. Damage/ defect occurred to system during work is responsibility of contractor.		

REPAIR/ REPLACEMENT OF MAIN ENGINE NO 1 & 2 GEARBOX SENSORS - PMSS DASHT

S No	Details	
1.	Ships Name	PMSS DASHT
2.	Parent Equipment	Main Engine No 1 & 2
3.	OEM	MTU
4.	Model	16V4000M73L
5.	Origin	Germany
6.	Sub Equipment	Main Engine No 1 & 2 Gearbox
7.	Assembly Component	Sensor Switches

8.	Part No. of Assembly Component	a. Coolant Level Switch b. Engine Oil Pressure Sensor MBS-5151 c. Jacket Water Temperature Switch MBC-8100 d. Fuel Pressure Sensor MBS-3100 e. Fuel Differential Pressure Sensor MBS-3158 f. Coolant Pressure Transmitter MBS-5100 g. Lube Oil Filter Differential Pressure Sensor MBS-5180 h. Low Lube Oil Pressure Switch j. Temperature Sensor k. Pressure Switch l. Pressure Switch m. Temperature Sensor n. Crank case pressure sensor	Part No EL150K1 Part No 060N1072 Part No 2431-2BD04 Part No 060G1369 Part No 2031-2BD04 Part No 060N1068 Part No 2031-2BD04 Part Non1411-2BD04 Part No 288-3636 Part No 03.09.06.009 Part No 03.09.06.025 Part No03.10.01.018 Part No 0035352231												
9.	Quantity	13													
10.	Source of Availability	MTU													
11.	Justification for Work	Repair/ replacement of Main Engine No 1 & 2 Gearbox sensors.													
12.	Work Required	<table><tr><td>a</td><td>b</td><td>c</td><td>d</td></tr><tr><td>Defect List</td><td>Repair Work Req</td><td>Services Req</td><td>Spares Req</td></tr><tr><td>As per defect list.</td><td>Repair/ replacement of Main Engine No 1 & 2 Gearbox sensors</td><td>a. Dismantling and installation of Main Engine No 1 & 2 Gearbox sensors. b. Repair/ replacement of Main Engine No 1 & 2 Gearbox sensors.</td><td>Gearbox Sensors</td></tr></table>	a	b	c	d	Defect List	Repair Work Req	Services Req	Spares Req	As per defect list.	Repair/ replacement of Main Engine No 1 & 2 Gearbox sensors	a. Dismantling and installation of Main Engine No 1 & 2 Gearbox sensors. b. Repair/ replacement of Main Engine No 1 & 2 Gearbox sensors.	Gearbox Sensors	
a	b	c	d												
Defect List	Repair Work Req	Services Req	Spares Req												
As per defect list.	Repair/ replacement of Main Engine No 1 & 2 Gearbox sensors	a. Dismantling and installation of Main Engine No 1 & 2 Gearbox sensors. b. Repair/ replacement of Main Engine No 1 & 2 Gearbox sensors.	Gearbox Sensors												
13.	Detailed scope of work	<table><tr><td>a</td><td>b</td><td>c</td></tr><tr><td>Detail of Repair Work Required</td><td>Detail of Services Required</td><td>Detail of Spares Required</td></tr><tr><td>Repair/ replacement of Main Engine No 1 & 2 Gearbox sensors</td><td>a. Dismantling and installation of Main Engine No 1 & 2 Gearbox sensors. b. Repair/ replacement of Main Engine No 1 & 2 Gearbox sensors.</td><td>Gearbox Sensors</td></tr></table>	a	b	c	Detail of Repair Work Required	Detail of Services Required	Detail of Spares Required	Repair/ replacement of Main Engine No 1 & 2 Gearbox sensors	a. Dismantling and installation of Main Engine No 1 & 2 Gearbox sensors. b. Repair/ replacement of Main Engine No 1 & 2 Gearbox sensors.	Gearbox Sensors				
a	b	c													
Detail of Repair Work Required	Detail of Services Required	Detail of Spares Required													
Repair/ replacement of Main Engine No 1 & 2 Gearbox sensors	a. Dismantling and installation of Main Engine No 1 & 2 Gearbox sensors. b. Repair/ replacement of Main Engine No 1 & 2 Gearbox sensors.	Gearbox Sensors													
14.	Technical Specs	As per Technical Manual/ OEM.													
15.	Eligibilities	a. Must have relevant experience in repair/ replacement of said equipment. b. Only OEM recommended spares must be used. c. Firm must visit site for understanding exact nature of defect/ hindrances involved in job prior quoting to avoid inconvenience on later stage after award of Work Order.													
16.	EDC	07 x Days													
17.	Warranty	01 x Year													
18.	Acceptance Criteria	a. OEM certified spares should be used. b. Technical specifications to be provided by Firm.													
19.	Any other relevant info	Contact SS/ MEO/firm visit onboard to resolve any query.													

CONDUCT OF 10000 HRS PMS ROUTINES OF 02 X MAIN ENGINES PORT & STBD - PMSS
KASHMIR

S No		Details			
1.	Ships Name	PMSS KASHMIR			
2.	Parent Equipment	MAIN ENGINES			
3.	OEM	CRRC China			
4.	Model	MKD-50/150			
5.	Origin	UK			
6.	Sub Equipment	Port & Stbd Engine			
7.	Part No. of Assembly Component	As per relevant JIC			
8.	Quantity	02 (Port & Stbd)			
9.	Source of Availability	OEM			
10.	Justification for Work	Conduct of 10000 Hrs PMS Routines of Main Engines			
11.	Work Required	a	b	c	d
		Defect List	Repair Work Required	Services Required	Spares Required
		PMS	Check crankcase depression	Yes	Yes Firm should work out all spares required to conduct the routine form relevant JICs
			Remove/ Recondition/ Install Cylinder Heads		
			Check operation of fuel control linkage		
			Check pneumatic over-speed trip		
			Cleaning of turbocharger air intake filter		
			Check rebound setting and height of AV mounts		
			Check crankshaft alignment		
			Renew filter elements		
			Fit new nozzle of fuel injector		
			Visually inspect vibration dampers for oil leakage		
			Inspect camshaft drive gears		
			Check crankshaft alignment		
			Renew cylinder head rocker cover joints		
			Drain governor/actuator oil and refill		
			Instrumentation check and calibration		
			Check operation of protection systems		
			Remove charge cooler ashore for cleaning		
			Cleaning and examine of explosion relief valve		
			Examine fuel linkage		
			Turbocharger overhaul with balancing		
			Check and repair forced circulation cooling water preheater		
			Motor overhaul		
			Clean examine and test cooling water		

		thermostatic valve Check functional testing of all safeties (temp, pressure etc) Clean, examine and test lub oil thermostatic valve Remove/Recondition/reinstall Fuel Pumps Replace all safeties including temperature and pressures sensors Repair & replacement of gear driven Lub Oil Pumps of both engine		
12.	Technical Specs	As per relevant technical manual		
13.	Eligibilities	OEM authorized rep Spares to be provided by firm		
14.	EDC	30 Days after award of contract		
15.	Warranty	01 Year		
16.	Acceptance Criteria	a. OEM Certified item. b. Defective/ BER items must be replaced with new one. c. Upon scrutiny of items and provided documents along with production certificate by OEM. d. Defective/ BER items must be replaced with new. e. Firm will not be allowed to use ship tools and manpower		

IT NO: IT/93/54/2025-26

INSTALLATION OF BLAKE BOTTLE SCREW SLIP WITH PELICAN HOOK - PMSS DASHT & PMSS KASHMIR

S No	Details				
1.	Ships Name	PMSS KASHMIR			
2.	Parent Equipment	Installation of Blake Bottle Screw Slip With Pelican Hook			
3.	Origin	Pakistan			
4.	Sub Equipment	Installation of Blake Bottle Screw Slip With Pelican Hook			
5.	Quantity	4 x in No (2 x for PMSS KASHMIR) (2 x for PMSS DASHT)			
6.	Justification for Work	Installation of Blake Bottle Screw Slip With Pelican Hook			
7.	Work Required	a	b	c	d
		Defect/ Routine List	Repair Work Required	Services Required	Spares Required
		a. Installation of Black Bottle Screw Slip with Pelican Hook (Phase-I)	a. Installation of Black Bottle Screw Slip with Pelican Hook (Phase-I)	a. Installation of Black Bottle Screw Slip with Pelican Hook (Phase-I)	a. Installation of Black Bottle Screw Slip with Pelican Hook (Phase-I)
		b. Installation/ modification of Bolster Ring (Phase-II)	b. Installation/ modification of Bolster Ring (Phase-II)	b. Installation/ modification of Bolster Ring (Phase-II)	b. Installation/ modification of Bolster Ring (Phase-II)
		c. Adjustment of	c. Adjustment of Guillotine Block	c. Adjustment of Guillotine Block	c. Adjustment of

		Guillotine Block (Phase-III) d. Installation of deck eyes and any other requirement	(Phase-III) d. Installation of deck eyes and any other requirement	(Phase-III) d. Installation of deck eyes and any other requirement	Guillotine Block (Phase-III) d. Installation of deck eyes and any other requirement																		
8.	Detailed scope of work	<table><tr><th>a</th><th>b</th><th>c</th></tr><tr><th>Detail of Repair Work Required</th><th>Detail of Services Required</th><th>Detail of Spares Required</th></tr><tr><td>a. Installation of Black Bottle Screw Slip with Pelican Hook (Phase-I)</td><td>a. Installation of Black Bottle Screw Slip with Pelican Hook (Phase-I)</td><td>a. Installation of Black Bottle Screw Slip with Pelican Hook (Phase-I)</td></tr><tr><td>b. Installation/ modification of Bolster Ring (Phase-II)</td><td>b. Installation/ modification of Bolster Ring (Phase-II)</td><td>b. Installation/ modification of Bolster Ring (Phase-II)</td></tr><tr><td>c. Adjustment of Guillotine Block (Phase-III)</td><td>c. Adjustment of Guillotine Block (Phase-III)</td><td>c. Adjustment of Guillotine Block (Phase-III)</td></tr><tr><td>d. Installation of deck eyes and any other requirement</td><td>d. Installation of deck eyes and any other requirement</td><td>d. Installation of deck eyes and any other requirement</td></tr></table>				a	b	c	Detail of Repair Work Required	Detail of Services Required	Detail of Spares Required	a. Installation of Black Bottle Screw Slip with Pelican Hook (Phase-I)	a. Installation of Black Bottle Screw Slip with Pelican Hook (Phase-I)	a. Installation of Black Bottle Screw Slip with Pelican Hook (Phase-I)	b. Installation/ modification of Bolster Ring (Phase-II)	b. Installation/ modification of Bolster Ring (Phase-II)	b. Installation/ modification of Bolster Ring (Phase-II)	c. Adjustment of Guillotine Block (Phase-III)	c. Adjustment of Guillotine Block (Phase-III)	c. Adjustment of Guillotine Block (Phase-III)	d. Installation of deck eyes and any other requirement	d. Installation of deck eyes and any other requirement	d. Installation of deck eyes and any other requirement
a	b	c																					
Detail of Repair Work Required	Detail of Services Required	Detail of Spares Required																					
a. Installation of Black Bottle Screw Slip with Pelican Hook (Phase-I)	a. Installation of Black Bottle Screw Slip with Pelican Hook (Phase-I)	a. Installation of Black Bottle Screw Slip with Pelican Hook (Phase-I)																					
b. Installation/ modification of Bolster Ring (Phase-II)	b. Installation/ modification of Bolster Ring (Phase-II)	b. Installation/ modification of Bolster Ring (Phase-II)																					
c. Adjustment of Guillotine Block (Phase-III)	c. Adjustment of Guillotine Block (Phase-III)	c. Adjustment of Guillotine Block (Phase-III)																					
d. Installation of deck eyes and any other requirement	d. Installation of deck eyes and any other requirement	d. Installation of deck eyes and any other requirement																					
9.	EDC	15 x days upon receipt of work order																					
10.	Warranty	a. 3 x year warranty after delivery b. Material will be reported if deformity or wear is developed during warranty period																					
11.	Acceptance Criteria	Satisfactory work as per provided sample																					
12.	Any other relevant info	a. Contact SS/ visit onboard for clear understanding of scope of work b. Damage/ defect occurred is responsibility of contractor																					

PROCUREMENT/ INSTALLATION OF GYRO COMPASS SWITCHING UNIT - PMSS RAFAQAT

S No	Details			
1.	Ships Name	PMSS NUSRAT		
2.	Parent Equipment	Fresh water system		
3.	Origin	Fresh water system valves		
4.	Assembly Component	Fresh water valves		
5.	Quantity	17 x valves		
6.	Justification for Work	Fresh water valves degraded/ leaked due to FWT with the passage of time		
7.	Work Required	a	b	c
		Defect/ Routine List	Repair Work Required	Services Required
		Fresh water valves degraded/ leaked due to FWT with the passage of time	Repair/ Replacement of fresh water valves required for sat ops	See details S No 7 Column b
8.	Detailed scope of work	d	Spares Required	
			As per requirement	
		a	b	c
		Detail of Repair Work Required	Detail of Services Required	Detail of Spares Required
		Repair/ Replacement of fresh water valves required for sat ops	a. Aft port fresh water tank suction valve (dia 2"). b. Aft Stbd fresh water tank suction valve (dia 2"). c. Aft fresh water tanks cross connection valve (dia 2") d. Fresh water pp no 1 suction valve (dia 2"). e. Fresh water pp no 2 suction valve (dia 2"). f. Fresh water pp no 3 discharge valve (dia 2"). g. Fresh water pp no 1 discharge valve (dia 2"). h. Fresh water pp no 2 discharge valve (dia 2"). j. Fresh water pp no 3 suction valve (dia 2"). k. FWD and AFT fresh water tanks suction cross connection valve (dia 2"). l. FWD fresh water pumps recirculation valve (dia 2"). m. Fresh water distribution valve aft engine room (dia 1"). n. Stbd and Port alleyway fresh water service valve (dia 1"). p. Fwd and Aft hydrophore tank	As per requirement

		pressure switch valve (dia 1/2"). q. Fwd. and Aft hydrophore tank inlet valve (dia 2"). r. Fwd and Aft hydrophore tank drain valve (dia 2"). s. Fwd and Aft hydrophore tank LP airline valve (dia ½ "). t. All valves are to be dismantled and repaired. u. Defective valves are to be replaced with new. v. Valves are to be fitted back. w. Special tools and spares are to be arranged by the firm for dismantling and fitting of said valves. x. The firm will be responsible to undertake any work not covered above to ensure good quality of work. y. The firm will be responsible for welding/ cutting, if required. z. The firm will be responsible for requirement of external services. aa. The firm will be responsible for all removal, transportation and installation work during warranty/ guarantee period claims and in case of any re-work bb. There will no growth of work	
9.	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 required onboard. c. The firm should be NTN/GTN registered	
10.	EDC	02 x week after issuance of work/ confirmation order	
11.	Warranty	01 year from the date of acceptance	
12.	Acceptance Criteria	a. Satisfactory work done by the firm b. Practical acceptance by SS	

REPAIR/ FABRICATION OF EXHAUST EXPANSION BELLOWS OF MAIN ENGINE NO 1 & 2 - PMSS ZHOB

S No	Details				
1.	Ships Name	PMSS ZHOB			
2.	Parent Equipment	MTU Main Engine No 1 & 2			
3.	OEM	MTU Germany			
4.	Model	MTU 16V4000M73L			
5.	Origin	Germany			
6.	Sub Equipment	Main Engine Exhaust system			
7.	Assembly Component	Exhaust Elbows			
8.	Quantity	2 x (Exhaust Elbows Mild Steel)			
9.	Source of Availability	MTU Friedrichshafen GmbH			
10.	Justification for Work	2 x Main Engines Exhaust Elbows Mild steel found degraded. Seepage observed from Exhaust elbows due to deterioration			
11.	Work Required	a	b	c	d
		Defect/ Routine List	Repair Work Required	Services Required	Spares Required
		Replacement/ Maintenance of Exhaust Elbows of Main Engines 1 & 2	Repair/ replacement of ME 1 & 2 Exhaust Elbows through OEM/ local engineering house.	See S No 12 column b	See S No 12 column c
12.	Detailed scope of work	a	b	c	
		Detail of Repair Work Required	Detail of Services Required	Detail of Spares Required	
		Repair/ replacement of ME 1 & 2 Exhaust Elbows through OEM/ local engineering house.	a. Removal of cladding, lagging and heat protective sheets from both elbows by the firm. b. Removal of exhaust elbows by the firm. c. Repair/ replacement of exhaust elbows by the firm with mild steel material. d. The pressure test of exhaust expansion bellows be undertaken at 5 bar. e. Exhaust elbow be installed back with insulating gaskets on both exhaust elbows. f. Elbow to be welded with bulkhead, from inside and outside during installation. g. The Mild steel studs/ Nut bolts on both elbow flanges for installation. h. After installation of exhaust elbow, successful onboard trials on running Engine by the firm. j. Arrangement of all tools and test equipment required during dismantling/ assembling by the firm. k. 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.	2 x Exhaust Elbows Mild Steel (As per sample)	
13.	Technical Specs	As per OEM Manual/ Specs			
14.	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.
15.	EDC	7 Days
16.	Warranty	1-year
17.	Acceptance Criteria	a. Pressure test of exhaust elbows at 5 bar to be conducted before installation. b. No seawater leakage after installation and normal operation of engines. c. No exhaust gas leakage from both elbows at Max power of main engines i.e 2050 RPM. d. Satisfactory repair/ replacement, installation and operation of exhaust elbows of ME No 1 & 2. e. Full Power Trials, HATs & SATs
18.	Any other relevant info	a. Growth Work, Damage/ defect occurred during work is responsibility of contractor. b. Contactor may contact SS/ visit onboard ship to resolve any query.

REPAIR/ FABRICATION OF EXHAUST BELLOWS OF MAIN ENGINES NO 1 & 2 - PMSS
ZHOB

S No	Details				
1.	Ships Name	PMSS ZHOB			
2.	Parent Equipment	MTU 16V400073L MAIN ENGINE NO 1 & 2			
3.	OEM	MTU Germany			
4.	Model	16 V 4000 M73L			
5.	Origin	Germany			
6.	Sub Equipment	Exhaust Expansion Bellows			
7.	Quantity	2			
8.	Source of Availability	MTU Friedrichshafen GmbH A Rolls-Royce Power Systems Company			
9.	Justification for Work	2 X Main Engines exhaust expansion bellows stainless steel (Marine grade (G-316L) found degraded.			
10.	Work Required	a	b	c	d
		Defect/ Routine List	Repair Work Required	Services Required	Spares Required
		2 x Main Engines exhaust expansion bellows stainless steel (Marine grade (G- 316L) found degraded	2 x Main Engines exhaust expansion bellows stainless steel (Marine grade (G- 316L) with following dimension is to be replaced through local engineering house: <u>EXHAUST EXPANSION BELLOW</u> a. Length of Inner diameter 575mm b. Length of Outer diameter 510mm c. Thickness 22mm d. Flange 02 e. Pitch Circle Diameter 600mm f. Flange outside total length 275mm g. No of Flange holes 02 h. Diameter of holes 22mm	See S No 11 Para b	See S No 11 Para c

		a	b	c
		Detail of Repair Work Required	Detail of Services Required	Detail of Spares Required
11.	Detailed scope of work	Repair/ replacement/ fabrication of 2 x Main Engines exhaust expansion bellows stainless steel (Marine grade (G-316L) with following dimension is to be replaced through local engineering house.	a. Removal of lagging and heat sheet by the firm. b. Removal of exhaust expansion bellow by the firm. c. Repairing/ fabrication of exhaust expansion bellow by the firm with material Stainless steel Grade 316L. d. The pressure test of exhaust expansion bellow undertaken at 5 bar. e. Exhaust expansion bellow be installed back with insulation gaskets on both flanges after repairing/fabrication. f. The studs/ Nut bolts on both flanges be used of foiling steel material. g. After installation of exhaust expansion bellow successful onboard trials on running engine by the firm. h. All tools and test equipment will be arranged by the firm. j. All in way accessories be removed by firm and fitted back. k. Growth work will be solely responsibility of firm to avoid complications on later stage.	2 x exhaust expansion bellows Part No: NA
12.	Eligibilities	a. Authorized rep of OEM/ Local contractor having relevant working experience. b. Contractor is to visit the ship in order to understand the scope of work. c. Firm must visit for understanding exact nature of work.		
13.	EDC	10 Days		
14.	Warranty	2 Year		
15.	Acceptance Criteria	a. Satisfactory repairing/ fabrication, installation and operation of exhaust expansion bellows of Main Engine No 1 & 2. b. Provide certified Spares/ OEM recommended spares.		
16.	Any other relevant info	a. Growth Work, Damage/ defect occurred during work is responsibility of contractor. b. Contactor may contact SS/ visit onboard ship to resolve any query		

**REPAIR/ REPLACEMENT/ FABRICATION OF 02 X EXHAUST EXPANSION BELLOWS OF
MAIN ENGINE NO 03 & 04 - PMSS ZHOB**

S No	Details			
1.	Ships Name	PMSSZHOB		
2.	Parent Equipment	MTU 16V400073L MAIN ENGINE NO 3 & 4		
3.	OEM	MTU Germany		
4.	Model	16 V4000 M73L		
5.	Origin	Germany		
6.	Sub Equipment	Exhaust Expansion Bellows		
7.	Quantity	2		
8.	Source of Availability	MTU Friedrichshafen GmbH A Rolls-Royce Power Systems Company		
9.	Justification for Work	Main Engines 3 and 4 exhaust expansion bellows stainless steel (Marine grade (G- 316L) found degraded.		
10.	Work Required	a	b	c
		Defect/ Routine List	Repair Work Required	Services Required
		Main Engine No 3 and 4 exhaust expansion bellows stainless steel (Marine grade (G-316L)) found degraded.	Main Engines 3 and 4 exhaust expansion bellows stainless steel (Marine grade (G-316L) with following dimension is to be replaced through local engineering house: <u>EXHAUST EXPANSION BELLOW</u> a. Length of Inner diameter 575mm b. Length of Outer diameter 510mm c. Thickness 22mm d. Flange 02 e. Pitch Circle Diameter 600mm f. Flange outside total length 275mm g. No of Flange holes 02 h. Diameter of holes 22mm	See S No 11 para b
				See S No 11 para c
11.	Detailed scope of work	a	b	c
		Detail of Repair Work Required	Detail of Services Required	Detail of Spares Required
		Repair/ replacement/ fabrication of Main Engines 3 and 4 exhaust expansion bellows stainless steel (Marine grade (G-316L) with following dimension is to be replaced through local engineering house.	a. Removal of lagging and heat sheet by the firm. b. Removal of exhaust expansion bellow by the firm. c. Repairing/ fabrication of exhaust expansion bellow by the firm with material Stainless steel Grade 316L. d. The pressure test of exhaust expansion bellow undertaken at 5 bar. e. Exhaust expansion bellow be installed back with insulation gaskets on both flanges after repairing/fabrication. f. The studs/ Nut bolts on both flanges be used of foiling steel material. g. After installation of exhaust	2 x exhaust expansion bellows Part No: NA

		expansion bellow successful onboard trials on running engine by the firm. h. All tools and test equipment will be arranged by the firm. j. All in way accessories be removed by firm and fitted back. k. Growth work will be solely responsibility of firm to avoid complications on later stage
12.	Eligibilities	a. Authorized rep of OEM/ Local contractor having relevant working experience. b. Contractor is to visit the ship in order to understand the scope of work. c. Firm must visit for understanding exact nature of work.
13.	EDC	10 Days
14.	Warranty	2 year
15.	Acceptance Criteria	a. Satisfactory repairing/ fabrication, installation and operation of exhaust expansion bellows of Main Engines No 3 & 4. b. Provide certified Spares/ OEM recommended spares.
16.	Any other relevant info	a. Growth Work, Damage/ defect occurred during work is responsibility of contractor. b. Contactor may contact SS/ visit onboard ship to resolve any query.

IT NO: IT/93/59/2025-26

CONSTRUCTION OF FIBER SHED IN FRONT OF QUARANTINE CENTER, CANTEEN AND WASHER MAN - PMSS INDUS

S No	Details	
1.	Description	Fiber Shed
2.	Scope of work	Construction of Fiber Shed to prevent personnel from hot weather: Area: 12 x 98 Feet (1176 Sq Feet)
3.	Eligibility	Registered contractor
4.	Eligibility	Any PMSA Registered Contractor having good experience
5.	EDC	30 DAYS
6.	Acceptance criteria	Inspection by end user
7.	Any other relevant information	In cae any query please contact PMSS INDUS 021-48505455

DEFECT DIAGNOSIS & RECTIFICATION OF CLUTCH CONTROL DEVICE - PMSS KASHMIR

S No	Details				
1.	Ships Name	PMSS KASHMIR			
2.	Parent Equipment	Clutch Control Device and Gearbox Local Control Panel			
3.	OEM	Hangzhou Advance Gearbox			
4.	Model	GCD-750-800			
5.	Serial No	DLD/20RK270			
6.	Origin	Chinese			
7.	Sub Equipment	Propulsion Shafting			
8.	Assembly Component	Clutch Control Device Gearbox Control Panel			
9.	Part No. of Assembly Component	S No	Part No	Description	Qty
		a.	1215	PLC/CPU	2
		b.	1231 RTD	RTD Module	2
		c.	1231 AI	Analogue Input Module	2
		d.	1223 DC/DC	DC to DC Power Module	2
10.	Quantity	As per S No 9			
11.	Source of Availability	OEM, Local Market			
12.	Justification for Work	To conduct PMS routine of Main Diesel Engine Local Monitoring system(5- 6123-0001-0002)			
13.	Work Required	a	b	c	d
		Defect/ Routine List	Repair Work Required	Services Required	Spares Required
		During operation both Main shafts unable to clutch out from bridge control Moreover, during shifting of control from local to bridge/ MCR intermittent	Defect diagnosis and rectification of said defect require for smooth operation of propulsion system	Defect diagnosis & rectification required	Spare may be required after defect diagnosis as per S No 9 & 10
14.	Technical Specs	Type of engine: 20RK270 DATE of manufacture: September 2016 Serial No: 781547~781550 Speed: 1000rpm Power supply: DC 24 V (±20%) Rated current: 5 A Monitoring box: 145Kg Governor box: 30Kg			
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 item. b. Upon scrutiny of items and provided documents along with production certificate by OEM. c. Defective/ BER items must be replaced with new. d. Firm will not be allowed to use ship tools and manpower			

REPAIR/ MAINTENANCE OF SSB-248 - EASTERN MARITIME REGION

S No	Details				
1.	Ships Name	Small Security Boat (SSB) - 248			
2.	Parent Equipment	Hull and super structure			
3.	OEM	AJ Marines, Pakistan.			
4.	Origin	Pakistan			
5.	Sub Equipment	Hull and miscellaneous accessories			
6.	Quantity	01			
7.	Justification for Work	Condition of boat's hull and miscellaneous accessories degraded due continuous operation in creeks area.			
8.	Work Required	a	b	c	d
		Defect/ Routine List	Repair Work Required	Services Required	Spares Required
		Condition of boat's hull and miscellaneous accessories degraded due continuous operation in creeks area.	Repair/ maintenance of hull and following accessories: SUPERSTRUCTURE 04 x Fiber material Crew seats. - Cleats and rope guards. - Command & control console. - Canopy frame/ piping. - Rubber finder line. - Hand rails. HULL - Dismantling of double bottom hull after removal of OBMs, crew seats and BCC (Bridge Control Console). - Replacement of old degraded ply with new marine ply (thickness 2-3") under fiber deck. - PU foam filling in double bottom after fabrication of frames. - Underwater hull cleaning and fiber patch work at various places followed by Gel coating	Repair/ maintenance of hull and superstructure fittings required as per S No 13(b)	As per requirement

		Defect Analyzed	a	b	c
			Detail of Repair Work Required	Detail of Services Required	Detail of Spares Required
9.	Detailed scope of work	Condition of boat's hull and miscellaneous accessories degraded due to continuous operation in creeks area.	Repair/ maintenance of hull and following accessories: SUPERSTRUCTURE g. 04 x Fiber material Crew seats. h. Cleats and rope guards. i. Command & control console. j. Canopy frame/ piping. k. Rubber finder line. l. Hand rails. HULL a. Dismantling of double bottom hull after removal of OBMs, crew seats and BCC (Bridge Control Console). b. Replacement of old degraded ply with new marine ply (thickness 2-3") under fiber deck. c. PU foam filling in double bottom after fabrication of frames. d. Underwater hull cleaning and fiber patch work at various places followed by Gel coating	Repair/ maintenance of hull and superstructure fittings required as per S No 13(b)	As per requirement
10.	Technical Specs	a. Marine Grade Aluminum (5083/ 5086) b. Marine Grade Fiber (P-4). c. Marine plywood. d. PU foam (Density 40)			
11.	Eligibilities	Any well reputed local/ international firm having expertise for repair/ maintenance of aluminum, steel and fiber hull/ fittings.			
12.	EDC	30 days			
13.	Warranty	One year after completion of work.			
14.	Acceptance Criteria	a. Inspection by end user and successful load/ test trials (as applicable). b. All welds are to be fine and free of cracks. c. All fiber work is to be fine, smooth and gel coated.			
15.	Any other relevant info	Use of standard Marine grade material i.e resin, adhesive, metal, rubber, welding rods etc are to be ensured by contracted firm.			

REPAIR OF 01 X STBD HIGH SPEED BOAT - PMSS KASHMIR

S No	Details	
1.	Ships Name	PMSS KASHMIR
2.	System	6.7m High Speed Working Boat
3.	Sub System	Jet Assembly & Engine
4.	Make	a. Alamarin-Jet OyTuomisentie 16 FI-62300 Hama, Finland b. YANMAR
5.	Model	a. ALAMARIN JET 230 (6.7-TJXT-P B) b. YANMAR 4LHA-STP (240HP)
6.	Quantity	01
7.	Work Required	Rectification of speed limitation issue of boat.
8.	Detailed scope of work	Following works to be undertaken: a. Repairing of jet nozzle b. Repair of propeller. c. Servicing of engine and associated fittings d. Servicing of automatic bilge pump e. Alignment/ balancing of main shaft f. Servicing of electric/ control system g. Any other growth work h. Spares (if required) to be provided by firm
9.	Technical Specs	As per TP 1-5503-450-001
10.	Eligibilities	a. Have experience to work onboard ships (preferably PMSA Ships) b. Have experience to work on water jet propulsion c. Company must be certified with HQ PMSA d. Company must be Income and Sales Tax registered
11.	EDC	04 x weeks after completion of order
12.	Warranty	01 Year
13.	Acceptance Criteria	Satisfactory trials of boat upto 35 knts for 01 month
14.	Any other relevant info	Firm must visit onboard before providing quotation to verify exact scope of work.

PROCUREMENT OF TECHNICAL SPARES MAIN ENGINE LOCAL MONITORING SYSTEM & MAIN SHAFTS - PMSS KASHMIR

S No	Details				
1.	Ships Name	PMSS KASHMIR			
2.	Parent Equipment	Main Engine Local Monitoring System			
3.	OEM	Shanghai Marine Diesel Engine Research Institute, CSIC			
4.	Model	SAL-10 Type Main Engine Local Monitoring Box			
5.	Serial No	781547-781550			
6.	Origin	China			
7.	Sub Equipment	Main Engine Local Monitoring Box			
8.	Assembly Component	LCP Main Engine IXT 10A SM1223 Module SM1231 Module A18-13 Bit SM1231 Module 8 x RTD SM1231 Module 8 x TC SM1231 D18/ OQ8 Transformer 160 VA. 220V AC/ 24V AC Frequency Conversion Module (PH61V6D) NPGL Module CMIID 4-20mAmp one input two output Switching Power Supply 24V DC/ 24V DC			
9.	Part No. of Assembly Component & Quantity	Model/ Spec	NSN/ Part No	Description	Qty
		IXT10A(HMI)	7025PV0020036/711-605	LCP Main Engine IXT10A(HMI)	2
		6ES7-215-1AG40-0XB0	5999PV9000025/711-401	SM1231 Module	2
		6ES7-231-4HF30-0XB0	5999PV9000130-711-401	SM1231 Module AIS-13 Bit	2
		6ES7-231-5PF32-0XB0	5999PV9000131-711-410	SM1231 Module 8 x RTD	2
		6ES7-231-5QF30-0XB0	5999PV9000132-711-411	SM1231 Module 8 x TC	2
		6ES7-223-1BH32-0XB0	5999PV9000133-711-412	SM1231 D18/OQ8	2
		JBK3- 160TH.160VA (AC380-AC220/ AC24)	6120PV1 0004/711-321	Transformer 160 VA, 220V AC/ 24V AC	2
		PH61V6D	6110PV611000/711-436	Frequency Conversion Module (PH61V6D)	2
		NPGL-CM111D	NPGL-CM111D/711- 431	NPGL Module CMIID 4-20mAmp one input two output	2
		SD-200A-24	6125PV1010029-711-309	Switching Power Supply 24V DC/ 24V DC	2
10.	Justification for Work	To conduct PMS routine for inspection/ servicing of Main Engine Local Monitoring System (PMS 5-6123-0001 -0002)			
11.	Work Required	a Defect/ Routine List	b Repair Work Required	c Services Required	d Spares Required
		Intermittent response of 2 x LOPs observed due to malfunctioning of software	Repair/ Replacement of both main engine LOPs required	Inspection/ servicing of Main Engine Local Monitoring System required.	As per S No 9

12.	Detailed scope of work	a	b	c
		Detail of Repair Work Required	Detail of Services Required	Detail of Spares Required
		Repair/ Replacement of both main engine LOPs required	Inspection/ servicing of Main Engine Local Monitoring System required.	As per S No 9
13.	Technical Specs	Type of engine. 20RK270 Date of Manufacture: September 2016 Serial No: Speed: 1000rpm Power supply: DC 24 V Rated current: 5A Monitoring box: 145kg		
14.	Eligibilities	Reputable local/ international contract having working experience with PMSA.		
15.	EDC	30 Days after award of contract		
16.	Warranty	02 Year		
17.	Acceptance Criteria	a. OEM Certified item b. BER items to be replaced with new. c. Firm will not be allowed to use ship tools and manpower. d. QA/QC certificate issuance by QA/QC department		
18.	Any other relevant info	Firm must visit the ship onboard for inspection prior forwarding quotation.		

PROCUREMENT FOR MAIN SHAFT WORK DURING DOCK – PMSS KASHMIR

S No	Details					
1.	Ships Name	PMSS KASHMIR				
2.	Parent Equipment	Controllable Pitch Propeller Propulsion Equipment				
3.	OEM	Hangzhou Advance Gearbox Group CO. LTD Dongtai Oceangoing Marine Fittings CO. LTD				
4.	Model	CSMC-380 (water lubricated) Shaft Stern Seal				
5.	Origin	China				
6.	Sub Equipment	Main Shaft				
7.	Assembly Component	Bearings, Stern Seal, Rudder & Propeller				
8.	Part No. of Assembly Component & Quantity	NSN/ Part No	Description	Size	Qty	
		HCLJ009-04	Pneumatic tyre 02-CSMC- 380 Stern Shaft Seal	N/A	2	
		HCLJ010-08	Stationary Ring Carrier	N/A	2	
		N/A	Shaft Intermediate Bearing	N/A	2	
		N/A	A bracket Throden bearing	Inner Dia 295mm length 52inch	1	
		N/A	Shaft Sleeve	Inner Dia 290mm Length 58inch	1	
		N/A	P bracket Throden bearing	Inner Dia 290mm length 58inch	1	
		N/A	P bracket Shaft Sleeve	Inner Dia 285mm length 32inch	1	
		N/A	Stern Shaft Sleeve	Dia 288mm length 38inch	1	
		N/A	Stern Tube Sleeve	Inner Dia 285mm length 36inch	1	
		HCLJ014-08	Hydraulic Coupling Sleeve	-	2	
9.	Justification for Work	Stbd shaft stern seal found leaky. Replacement of shaft stern seal and intermediate bearing required.				

10.	Work Required	a	b	c
		Defect/ Routine List	Repair Work Required	Spares Required
		Above mentioned items are required for upcoming dock of ship for underwater fitting services	Procurement of item	As per S No.9
11.	Technical Specs	S No	Description	Technical Data
		a.	Tyre of stern tube bearing	Water-lubricated bearing
		b.	Manufacturer of stern shaft seal	Dogtai Oceangoing Marine Fittings Co. Ltd
		c.	Tyre of stern shaft seal	CSMC-380 (water-lubricated)
		d.	Environment where stern tube seal stays, temperature	Oil mist and moulds, -10°C~50°C
		e.	Shaft Intermediate Bearing	As per Drawing/ sample
12.	Eligibilities	Reputable local/ international contract having working experience with PMSA.		
13.	EDC	30 Days after award of contract		
14.	Warranty	02 Year		
15.	Acceptance Criteria	a. OEM Certified item b. BER items to be replaced with new. c. Firm will not be allowed to use ship tools and manpower. d. QA/QC certificate issuance by QA/QC department		
16.	Any other relevant info	Firm must visit the ship onboard for inspection prior forwarding quotation.		

REPAIRING OF VENTILATION TRUNKING GRATINGS - PMSS NUSRAT

S No	Details			
1.	Ships Name	PMSS NUSRAT		
2.	Parent Equipment	Ventilation System		
3.	Origin	China		
4.	Sub Equipment	Ventilation Trunking Gratings		
5.	Quantity	09 x Ventilation Trunking Gratings		
6.	Justification for Work	Trunking Gratings of ventilation system has been deteriorated with the passage of time		
7.	Work Required	a	b	c
		Defect/ Routine List	Repair Work Required	Services Required
		Trunking Gratings of ventilation system has been deteriorated with the passage of time	Repairing of ventilation trunking gratings required for sat ops	As per S No 8 Column "b"
8.	Detailed scope of work	d	Spares Required	
			As per S No 8 Column "c"	
		a	b	c
		Detail of Repair Work Required	Detail of Services Required	Detail of Spares Required
		Repairing of ventilation trunking gratings required for sat ops	a. Repairing of intake grating on P&S supply fan trunking on Signal deck (size 3'x4'). b. Repairing of grating on P&S supply fan trunking in FER (2'X4') c. Repairing of granting on P&S exhaust fan trunking in FER (2'x2') d. Repairing of intake granting on P&S supply fan trunking on Gun deck (size 3'x4') e. Repairing of granting on P&S supply fan trunking in AER (size 2'x4'). f. Repairing of granting on P&S exhaust fan trunking in FER (size 2'x2'). g. Repairing of granting on P&S in ASP (size 1'x1'). h. Repairing of grating on P&S trunking in EVAC Compartment (size 1'x1'). j. Repairing of P&S grating Armory trunking (size 1'x1'). k. Special tools and spares are to be arranged by the firm for dismantling and fitting of said work. l. The firm will be responsible to	As per requirement

		undertake any work not covered above to ensure good quality of work. m. The firm will be responsible for welding/ cutting, if required. n. The firm will be responsible for requirement of external services. p. The firm will be responsible for all removal, transportation and installation work during warranty/ guarantee period claims and in case of any re-work.	
9.	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 required onboard. c. The firm should be NTN/GTN registered.	
10.	EDC	04 x week after issuance of work/ confirmation order	
11.	Warranty	01 year from the date of acceptance	
12.	Acceptance Criteria	a. Satisfactory work done by the firm b. Practical acceptance by SS	

REPAIR/ MAINTENANCE OF SEA/ FRESH & FUEL PIPING LINE - PMSS REHMAT

S No	Details				
1.	Ships Name	PMSS REHMAT			
2.	Parent Equipment	Sea/ Fresh water, fuel lines			
3.	OEM/ Origin	China			
4.	Sub Equipment	Sea/ Fresh water and fuel system			
5.	Quantity	Sea Water Lines 10 in number alongwith (04 x sea water overboard valves) Fresh water lines 10 in number alongwith (08 x Fresh water valves) Fuel lines 10 alongwith (04 x fuel valves)			
6.	Justification for Work	Leakages is observed from sea/ fresh water and fuel lines in Aft & Fwd engine room due FWT. 08 x fresh water valves, 04 x overboard valves and 04 x fuel valves are also observed deteriorated			
7.	Work Required	a	b	c	d
		Defect/ Routine List	Repair Work Required	Services Required	Spares Required
		Leakages is observed from sea/ fresh water and fuel lines in Aft & Fwd engine room due FWT. 08 x fresh water valves, 04 x overboard valves and 04 x fuel valves are also observed deteriorated.	As per S No 8 Column "a"	As per S No 8 Column "b"	As per S No 8 Column "c"
8.	Detailed scope of work	a	b	c	
		Detail of Repair Work Required	Detail of Services Required	Detail of Spares Required	
		Removal of lines from associated systems.	a. Installation of all lines after repaired/ fabrication	Sea water lines material Copper/ SS. Fresh water lines material MS/SS. Fuel lines material SS/MS. All lines flange sea/ joint seat renewal. All Nut & bolts renewal and material uses SS/ Brass	
		Repairing of lines along with flanges.	b. Renewal of deteriorated nuts and bolts.		
		Fabrication of new lines which are considered irreparable.	c. Installation of 04 x seawater overboard valves after overhauling.		
		All lines to be made as per sample and according to required fitting with the system/ machinery.	d. Installation of 08 x fresh water valves after repairing/ new which was not repairable.		
		Pressure testing of all lines be carried out.	e. Installation of 04 x fuel valves after overhauling/ fabrication.		
		Welding / cutting required for removal of lines is the responsibility of firm.	f. After removal of defective lines, lines to be properly blanked for operational availability of system.		
		Removal of 04 x sea water overboard valves	g. All spares, special equipment / tools, accessories etc for repair/ maintenance for said work to be arranged by the firm.		
		Removal of 08 x fresh water valves (04 x globe valve & 04 x spindle valve)	h. During inspection/ repair work any additional defect if found to be rectified by firm.		
		Removal of 04 x fuel valves spindle type.	j. Any damage/ defect, wear tear occurred during the course of removal and installation work is to be repair/ replaced by firm.		

			k. Requirement of any external services is the responsibility of firm. l. All in way accessories are to be removed and fitted back by firm	
9.	Technical Specs	Sea water lines Copper material (Pressure testing 140-150 PSI) Fresh water lines MS/SS material (Pressure testing 50-60 PSI) Fuel lines MS/SS material (Pressure testing 70-80 PSI)		
10.	Eligibilities	a. Carried out repair/ maintenance of Main engines of PMSS Corvettes b. Income tax registered. c. Sales tax registered. d. Firm must visit onboard ship and carry out diagnosis / inspection to establish the extent of required work		
11.	EDC	20 x days after issuance of work/ confirmation order.		
12.	Warranty	01 x Year to be started after completion of successful trials.		
13.	Acceptance Criteria	a. Sea water lines testing pressure (140-150 PSI) b. Fresh water lines testing pressure (40-50 PSI) c. Fuel lines testing pressure (70-80 PSI) d. After installation and Successful trials.		

IT SPECIFICATIONS REPAIR/ MAINTENANCE OF GENSET –SECRETARIAT

S No	IT Specifications	
1.	Unit/ Establishment	HQ PMSA
2.	Justification	Repair/ Maintenance of Genset (Mitsubishi) of Sectt is required
3.	Work Required	a. Replacement of AVR Card. b. Re-winding of Alternator/ Starter. c. Replacement of Diodes.
4.	Eligibility Criteria	a. Any loss occurs during work is responsibility of firm. b. Security wise cleared firm and firm personnel. c. Firm has to visit the site prior starting of work in order to understand the scope of work. d. FRB & SBR registered firm.
5.	EDC	Within 30 Days
6.	Warranty	01 x Year
7.	Acceptance Criteria	Accepted by end user

IT SPECIFICATIONS PROCUREMENT OF STORES – AUDITORIUM/ HQ PMSA

S No	IT Specifications				
8.	Unit/ Establishment	HQ PMSA			
9.	Justification	Under mentioned stores are required for up keep and maintenance of Auditorium			
10.	Store Required	S. No	Description	Den	Qty
		a.	Fabric for Chairs	No	107
		b.	Raxine	Mtr	45
		c.	Sofas 11 Seters	No	01
		d.	Emergency Light	No	02
		e.	Chairs	No	02
		f.	LED Lights	No	32
		g.	Polish	Ltr	25
		h.	Focus Light	No	04
		j.	UPS 3KVA	No	01
		k.	LED Slider	No	02
		l.	Pointer	No	02
		m.	Dice Lamp	No	01
		n.	Wall Clock	No	01
		p.	Flags with Stand	No	03
		q.	Carpet & Chairs Cushioning	Sq Ft	2000
11.	Eligibility Criteria	a. Any loss occurs during work is responsibility of firm. b. Security wise cleared firm and firm personnel. c. Firm has to visit the site prior starting of work in order to understand the scope of work. d. FRB & SBR registered firm.			
12.	EDC	Within 30 Days			
13.	Warranty	01 x Year			
14.	Acceptance Criteria	Accepted by end user			

IT SPECIFICATIONS PROCUREMENT OF STORES – SECRETARIAT

S No	IT Specifications				
1.	Unit/ Establishment	HQ PMSA			
2.	Justification	Under mentioned stores are required for up keep and maintenance of Sectt f			
3.	Store Required	S. No	Description	Den	Qty
		a.	Locks	No	25
		b.	Polish	Ltr	35
		c.	Bath Sets	Set	01
4.	Eligibility Criteria	a. Any loss occurs during work is responsibility of firm. b. Security wise cleared firm and firm personnel. c. Firm has to visit the site prior starting of work in order to understand the scope of work. d. FRB & SBR registered firm.			
5.	EDC	Within 30 Days			
6.	Warranty	01 x Year			
7.	Acceptance Criteria	Accepted by end user			

Note: 100% Payment after completion by CNA

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

INVITATION TO TENDER GENERAL INSTRUCTIONS

1. CONDITIONS GOVERNING CONTRACT:

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

2. SUBMISSION OF TENDER:

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

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

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

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

PREPARATION OF QUOTATION

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

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

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

3. DATE AND TIME FOR RECEIPT OF TENDER:

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

4. TENDER OPENING:

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

5. VALIDITY OFFER:

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

6. QUOTING OF RATES:

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

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

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

8. EARNEST MONEY:

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

9. TENDER FEE:

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

10. INSPECTION AUTHORITY:

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

11. CONDITION OF STORES:

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

12. DOCUMENTS REQUIRED:

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

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

13. SECURITY DEPOSIT / BANK GUARANTEE:

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

14. CURRENT BANK STATEMENT:

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

15. INTEGRITY PACT:

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

16. CORRESPONDENCE:

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

17. PRE SHIPMENT INSPECTION:

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

18. AMENDMENT IN CONTRACT:

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

19. DISCREPANCY:

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

20. PRICE VARIATION:

Price offered against IT are to be firm and final.

21. LIQUIDATED DAMAGES (LD):

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

22. RISK PURCHASE:

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

23. PENALTY:

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

24. ALL RIGHTS RESERVED:

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

25. PAYMENT:

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

26. PARTIAL ORDER:

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

27. DISQUALIFICATION:

Offers are liable to be rejected if:-

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