

SEPARATE QUOTATIONS REQUIRED FOR ATTACHED 43 x IT SPECIFICATIONS**IT NO: IT/50/01/2024-25****PMSS HINGOL**

IT SPECIFICATIONS DEFECT RECTIFICATION OF JSS MF/HF 2150 COMMUNICATION SET					
S No	Description				
1.	Ship's Name	PMSS HINGOL			
2.	Parent Equipment	JSS 2150 HF/MF 150W			
3.	Sub Equipment	NTD-2150 HF/MF Transceiver			
4.	Assembly Component	Power Amplifier card Modem Card			
5.	Model	CAH-2415			
6.	Make	JAPAN RADIO Co. Ltd			
7.	Quantity/Item Details	01 each			
8.	NSN/ Part Number	S. No	Part Number	Description	Required Quantity
		a	CAH-2415	PA Unit (PCB)	01
		b	CMJ-2250	WKR Modem	01
9.	Justification	Repair/ Replacement of defective Power Amplifier Unit (PA) and Modem Card and defect rectification of JSS HF 2150 (150 KW)			
10.	Work required/Defect	a. Defect diagnosis subsequent verification of JSS 2150 HF/MF set. b. Repair/ Replacement Power Amplifier Unit (PA) and Modem Card of JSS 2150 HF/MF set.			
11.	Scope of work	a. Defect diagnosis for localization of defective components of JSS 2150 HF/MF set. b. Repair/ Replacement of identified defective components c. Repair/ Replacement of Power Amplifier Unit (PA) and Modem Card of JSS 2150 HF/MF set. (already declared defective) d. Satisfactory installation of Power Amplifier Unit (PA) and Modem Card and onboard system trials/ Set to work e. Complete onboard trial/ set to work in Tx/Rx mode. f. Growth work will be sole responsibility of the firm.			
12.	Technical Specifications	Power Input – 24V DC/30A Power Output- 150KW Temp. -25°C to 70°C			
13.	Eligibility Criteria	a. Any registered and security wise cleared local contractor who has working experience onboard MPVs b. Firm must visit ship to undertake exact diagnosis prior quoting to avoid inconvenience after award of Work Order.			
14.	EDD	01 x Month			
15.	Warranty	01 Year Warranty			
16.	Acceptance Criteria	a. System should transmit and receive all HF communication channels. b. System should clear all diagnostics checks c. OEM certified item d. Technical Specifications to be provided e. Upon scrutiny of items and provided documents i.e. technical specifications along with production certificates by OEM f. Satisfactory trials onboard ship.			
17.	Any Other Relevant Information	SS may be contacted for any requirement/query			

IT NO: IT/50/02/2024-25

IT SPECIFICATION FOR REPAIR/ MAINTENANCE OF AIR CONDITIONING SYSTEM		
PMSS-SABQAT		
1.	Parent Equipment	Air Conditioning System
2.	Sub Equipment	AC Condenser, Compressor, AC Dryer, AC Seawater lines
3.	Assembly Component	AHU Evaporators and system lines
4.	Make	Carrier
5.	Model	USA
6.	Justification i.e PMS/Failure/ F.W.T etc.	AC plant performance degraded
7.	Work required/ defect	Repair/ maintenance & replacement of AC Condenser, Compressor, AC Dryer & AC seawater lines
8.	Detailed scope of work	a. Scope of work includes following works b. Inspection and replacement of condenser unit c. Inspection and servicing of compressor d. Inspection and flushing of all AHU evaporators and AC system lines e. Replacement of AC system seawater lines f. Replace any part if deemed necessary g. Make system leakage free fill nitrogen for 24 hour h. Create vacuum up to 29 inches of mercury to ascertain the sign of leakage and evacuation of air from system for 24 hour i. Charging of R-22 Honey wall gas j. Any damage occurs during the course of inspection work will be done by firm without any liability/ responsibility on part of the ship/PMSSA k. Requirement of external services if any will be responsibility of the firm without any liability on the part of ship l. Repaired/ defective items are to be handover to ship staff m. Cutting/ brazing work is to be carried out where required
9.	Technical Specification	Nil
10.	Material	Copper Nickel
11.	Eligibilities	a. The firm should be NTN/GST registered. b. Reputable local contractor/OEM rep.
12.	EDC/EDD	14 working days.
13.	Warranty	01 year
14.	Acceptance Criteria (if any)	a. Only OEM recommended item will be accepted after inspection. b. Detail specification of item must be endorsed on packing i.e Part No/Data of manufacturing.

IT NO: IT/50/03/2024-25
HQ PMSA SO IT (CYC)

IT SPECIFICATION FOR REPLACEMENT OF MULTIMEDIA			
S.No	Description	Remarks	
1	System	Multimedia projector	
2	Make	Sony, Epson, Optoma, NEC or equivalent	
3	Model	UHD35+ or equivalent	
4	Quantity	01 in No	
5	Technical Specifications (if any)	Native Resolution	UHD (3640 x 2160)
		Brightness	4,000 lumens
		Ratio	1,200,000:1
		Keystone	V+/-40 degree & H+/-40 degree
		Connection	Inputs 2 x HDMI 2.0, 1 x VGA (YPBPR/RGB), 1 x Audio 3.5mm
		Audio warranty	Output 1 x Audio 3.5mm, 1 x S/PDIF, 1 x USB-A power 1.5A One Year
6	Eligibilities	Have relevant experience on purchasing of multimedia.	
7	Warranty	01 year replacement warranty for multimedia alongwith accessories.	
8	Acceptance Criteria (if any)	a.	Satisfactory test/ trials after installation onboard
		b.	Relevant diagrams/ documents to be provided
		c.	Relevant specifications as per IT.
9	EDC	(Immediate) 02 weeks after award of contract	
10	Any other relevant information	SS may be contacted for any further query/ requirement.	

IT NO: IT/50/04/2024-25
PMSS KASHMIR

IT SPECIFICATIONS – PROCUREMENT OF TURBOCHARGER FLEECE SEGMENT FILTERS

1.	Parent Equipment	Main Engine - MAN B&W
2.	Sub Equipment	Turbocharger - ABB
3.	Assembly Component	Fleece Segment Air Filters
4.	Make	ABB Jiangjin Turbo Systems Co Ltd
5.	Model	ABB-TPL65-A32
6.	Quantity	148 x Fleece Segment Filters
7.	Justification i.e PMS/ Failure/ FWT etc	PMS Routine
8.	Work Required/ Defect	Procurement of Original/ Imported Fleece Segment Air Filters of ABB Turbo Systems Ltd
9.	Detailed scope of work	Procurement of Original/ Imported Fleece Segment Air Filters of ABB Turbo Systems Ltd
10.	Technical specs	(i). Material: Fleece (Wool 70 % & Polyester 30 %) (ii). Density of Fleece segments 0.23-0.28 g/m ³ (iii). Dimensions: Length 14 Inch Width 10.4 Inch Height 01 Inch
11.	Eligibility Criteria	(i). Have experience to work for ships (preferably PMSA ships). (ii). Company must be certified with HQ PMSA. (iii). Company must be Income and Sales tax registered. (iv). Company must have good experience w.r.t procurement of engine mechanical parts/ filters
12.	EDC/ EDD	15 days after award of contract
13.	Warranty	01 Year
14.	Acceptance Criteria	(i). Advance sample is to be provided on Tender opening full to do so will need to inspection (ii). Filter density and purification must be as per installed fleece segment filters (iii). Physical characteristics to be matched with installed fleece segments (iv). Item will be accepted after onboard inspection and satisfactory sea trial
15.	Any Other Relevant Information	SS contact MEO (0333-7766789)

PMSS BASOL

S No.	Description
1.	Parent Equipment
2.	Sub-equipment
3.	Assembly equipment
4.	Make
5.	Model
6.	Quantity
7.	Justification
8.	Work required/ Defect
9.	Scope of work
10.	Technical Specifications
11.	Eligibility criteria
12.	EDC
13.	Warranty

14.	Acceptance criteria	<p>a. OEM Certified spares only.</p> <p>b. Upon scrutiny of item and provided documents.</p> <p>c. Synchronization and display of correct firemain pressure and flood alarm sensors on system.</p> <p>d. Satisfactory operation of SAU II PLC and all sensors and integration of DCC System and SAT trials of Damage Control Monitoring and Control System.</p>
15.	Any other information	Contact must visit onboard for clear understanding of scope of work.

PMSS KASHMIR

T SPECIFICATIONS: REPAIR/ REPLACEMENT OF MAIN ENGINES' MAGNETIC PICKERS (SPEED SENSORS): OPDEF ME-01/25		
1.	System	Propulsion Machinery
2.	Parent Equipment	Main Engines
3.	Sub Equipment	Engine Regulator
4.	Assembly Component	Magnetic Picker and Associated Control System
5.	Make	Henzmen Germany
6.	Model / Supply	SCE-2142
7.	Quantity	08
8.	NSN/ Part No	RH-3044 RH-4188
9.	Justification i.e PMS/ Failure/ FWT etc	FWT
10.	Work Required	Repair/ replacement main engine magnetic pickers
11.	Detailed scope of work	<p>a. Dismantling of magnetic pickers</p> <p>b. Repair/ replacement of sensors</p> <p>c. Installation of sensors</p> <p>d. Fault finding of any abnormality</p> <p>e. STW on control system</p> <p>f. Defect rectification of Viking PCB</p> <p>g. Replacement of control wiring</p> <p>h. Servicing of central control panel PCB</p> <p>i. Spare to be provided by firm</p> <p>j. Any growth work will be bear by firm</p>
12.	Technical specifications	As Per OEM Specifications/ Manual
13.	Eligibility Criteria	<p>(i) Have experience to work for ships (preferably PMSA ships).</p> <p>(ii) Company must be certified with HQ PMSA</p> <p>(iii) Company must be Income and Sales tax registered</p>
14.	EDC/ EDD	15 Days after award of contract
15.	Warranty	1 Year
16.	Acceptance Criteria	<p>a. OEM certified item</p> <p>b. Technical specification should be mentioned</p> <p>c. Upon scrutiny of items and provided documents along with production certificate by OEM</p> <p>d. Specifications and part number should be same as mentioned</p>
17.	Any Other Relevant Information	Contact MEO (0321-3000503)

SPECIFICATIONS – REPAIR/ REPLACEMENT OF MAIN ENGINE AIR STARTER MOTOR (OPDEF ME-01/25)			
1.	System	Ship Propulsion	
2.	Parent Equipment	Main Engine 20RK270	
3.	Sub Equipment	Air Starting System	
4.	Assembly Component	Starter Motor	
5.	Make	Ingersoll Rand USA	
6.	Model	ST999BP031L92S-2A	
7.	Quantity	01	
8.	NSN	SP150526008	
9.	Justification i.e PMS/ Failure/ FWT etc	Repair/ replacement of Main Engine Air Starter Motor due FWT	
10.	Work Required/ Defect	Repair/ replacement of Main Engine Air Starter	
11.	Detailed scope of work	Following work to be undertaken: a. Dismantling of air Start Motor b. Repair/ replacement of defective motor c. Installation of motor d. Air piping to be replaced e. Any growth work will be bear by firm f. Installation, STW and Trials	
12.	Technical specs	Make Model Max Inlet Press Air Turbine Starter	Ingersoll Rand (iR) ST999BP031L92S-2A 90 PSI ST 600 Series
13.	Eligibility Criteria	a. Company must be certified with HQ PMSA b. Company must be Income and Sales tax registered c. Company must have good experience of repair/ replacement of engines' starter	
14.	EDC/ EDD	01 x Month after award of contract	
15.	Warranty	2 x Year	
16.	Acceptance Criteria	a. Item will be accepted after onboard inspection, installation on main engine and satisfactory trials b. Maximum inlet pressure shall not exceed 90 Psi	
17.	Any Other Relevant Information	SS Contact (0321-3000503)	

SPECIFICATION: REPAIR OF AIR STARTER OF STBD ENGINE (OPDEF ME-01/25)			
1.	System	Main Engines	
2.	Parent Equipment	Stbd Engine	
3.	Sub system	Air Starter	
4.	Assembly Component	Gear Assembly and Turbine	
5.	Make	Ingersoll Rand	
6.	Model	ST999BP031L92S-2A	
7.	Quantity	01	
8.	NSN/ Part No	SP150526008	
9.	Justification	FWT	
10.	Work Required/ Defect	Repair of Stbd Engine Air Starter Motor	
11.	Scope of Work	Following work to be undertaken: a. Dismantling of air Start Motor b. Repair of defective part of motor c. Installation of motor e. Any growth work will be bear by firm	
12.	Technical Specs	Working Pressure	
13.	Eligibility Criteria	a. Have experience to work onboard ship (preferably PMSA SHIP) b. Company must be certified with HQ PMSA c. Company must be income and sale tax registered	
14.	EDC	10 Days after confirmation of order	
15.	Warranty	01 x years	
16.	Acceptance Criteria (if any)	Satisfactory trial of motor for 15 Days	
17.	Any other relevant information	SS Contact: 0321-3000503	

REVISED IT SPECIFICATION – 55 " TCL LED TV- PMSS KASHMIR

S No.	Description	
1.	Parent Equipment	55 Inch LED TV
2.	Sub Equipment	N/A
3.	Make	TCL
4.	Model	P755 (cheaper than MI previously quoted)
5.	Qty	01
6.	Justification PMS/Failure/FWT	Failure
7.	Work required/ Defect	Ops Room LED was defective and subsequently declared BER by BMG, repair through replacement of LED is required.
8.	Detailed Scope of Work	Ops Room LED was defective and subsequently declared BER by BMG, repair through replacement of LED is required.
9.	Technical specs	a. Model: P755 TCL b. Size: 55" c. Display: LED d. Resolution: 3840x2160 e. Refresh rate: 60Hz f. Audio: Integrated g. HDMI ports: Yes
10.	Eligibility Criteria	Reputable local contractor having working experience with PMSA/ OEM authorized reps will be given preference.
11.	EDC/ EDD	10 x days
12.	Warranty	12 x Months
13.	Acceptance Criteria	a. Item will be accepted after satisfactory test/ trials onboard. b. OEM Technical documents/ warranty certificate of items required.
14.	Any other relevant Information	Firm must visit onboard for clarification of any query and understanding of requirement before quoting.

IT SPECIFICATION FOR MAIN FRIDGE UNIT PMSS SARQAT

1.	Parent Equipment	Main Fridge unit
2.	Sub Equipment	Compressor
3.	Assembly Component	Evaporator, Condenser, LP Safety
4.	Make	Made in France
5.	Model	310521
6.	Qty	01 X In No
7.	Justification PMS/Failure/ F.W.T etc	I.e Fridge performance degraded compressor non-ops.
8.	Work required/ defect	Repair/ Replacement of Main Fridge compressor.
9.	Detailed scope of work	Scope of work includes following works 1. Inspect the condenser unit. 2. Inspect compressor performance 3. Inspect evaporator 4. Replace any part if deemed necessary 5. Make system leakage free fill nitrogen for 24 hour 6. Create vacuum up to 29 inches of mercury to ascertain the sign of leakage and evacuation of air from system for 24 hour 7. Any damage occurs during the course of inspection work will be done by firm without any liability/ responsibility on part of the ship/PMSA 8. Requirement of external services if any will be responsibility of the firm without any liability on the part of ship 9. Repair defective items are to be handover to ship staff
10.	Technical Specification	Nil
11.	Eligibilities	a. The firm should be NTN/GST registered. b. Reputable local contractor/OEM rep.
12.	EDC	07 working days.
13.	Warranty	01 year
14.	Acceptance criteria	i. Use OEM certified parts. ii. Satisfactory running trials. iii. Achievement of desired suction and discharge pressure.

IT SPECS FOR REPAIR/ REPLACEMENT OF LP AIR SYSTEM : PMSS BARKAT

38

1.	Ship's Name	PMSS BARKAT
2.	Parent equipment/system	LP Air System
3.	Sub equipment	LP air ring main and related systems
4.	Assembly/ equipment	N/A
5.	Make	China
6.	Model	CMD-LSHC-30A (LP Compressor)
7.	Qty	01
8.	Justification	Degraded due to F.W.T.
9.	Work required	Repair/ replacement Work
10.	Detailed scope of work	<p>Scope of work is as under:</p> <p>a. Pressure test of 01 x LP air bottle. Certificates of testing will be provided.</p> <p>b. Carry out pressure test and overhaul air reducer and set at optimum pressure.</p> <p>c. Repair/ replacement of LP air supply line in FM-200 compartment for Dia 1/2" length 04 mtr.</p> <p>d. LP air line of aft hydrosphere tank Dia 1/2" length 02 mtr.</p> <p>e. Repair/ Replacement of LP air line of ship's siren Dia 1/2" length 04 mtr and 02 x pneumatic valves Dia 1/2".</p> <p>f. Repair/ replacement of LP air system 02 x pneumatic valves Dia 1/2" repair/ replacement of 02 x pneumatic valve on FM-200 LP Air-line dia 1" length 08 mtr.</p> <p>g. Pressure test of 05 in no LP air relief valve for satisfactory operation (Dia 1" Pressure 150 PSI).</p> <p>h. Replacement of ship's siren.</p> <p>i. Repair/ replacement of 04 x valves and lines for sea chest air back pressure length 20 mtrs and Dia 1/2".</p> <p>k. All lines should be capable/ tested to stored optimum pressure.</p> <p>l. The firm will be responsible for welding/ cutting, if required.</p> <p>m. All spares (must be genuine) tools special equipment /accessories required for said Repair/ replacement are to be arranged by the firm.</p> <p>n. Any damage/ defect/wear tear occurred during course of repair and replacement of system/equipment will be met by firm.</p> <p>o. Requirement of external services, if required will be responsibility of firm.</p>
11.	Technical spec	<p>a. Siren should be capable to produce standard sound signals as per requirements of COLREG/ BR 453 (ROR).</p> <p>b. LP air lines 36 mtr</p> <p>c. Valves 10 (08 x dia 1/2") (02 x dia 1")</p>
12.	Eligibilities	<p>a. The firm must visit onboard and carry out diagnoses/inspections to establish the extent of required work.</p> <p>b. The firm must have sufficient experience of same kind of work and experienced.</p> <p>c. The firm should be NTN /GST registered</p>
13.	EDC	14 x days after issuance of work/confirmation order.
14.	Warranty	01 Year
15.	Acceptance criteria	<p>a. Satisfactory operation of siren and no air leakage.</p> <p>b. Successful completion and acceptance by the end user.</p> <p>c. Satisfactory trials (HATs/ SATs).</p>

IT SPECIFICATION OF 02 X BASES OF HF ATENNAS PMSS BARKAT

S.NO	IT SPECIFICATION	
1.	Ship's Name	PMSS BARKAT
2.	Parent equipment	HF ATENNAS
3.	Sub equipment	02 X Bases of HF Antennas
4.	Assembly component	-
5.	Make	PAKISTAN
6.	Model	SS Material
7.	Quantity	02
8.	Justification i.e PMS/ Failure/ FWT etc	FWT
9.	Work require/ defect	02 x HF antennas bases are to be made as IT spec.
10.	Detail scope of work	<p>a. 02 x HF antennas bases are to be made as per sample, antenna base triangle shape, height 43 inch with three portion supporting rod with 4mm thickness and outer three supporting rod of 19 inch.</p> <p>b. All spare tools, special equipment/ tools accessories etc for fabrication/ installation of bases are to be arranged by the firm.</p> <p>c. Dismantling, assembling transportation will be responsibility of the firm. Any other work required to ensure good quality and optimum performance of the base.</p> <p>d. All in way work will be undertaken by the firm.</p> <p>e. The firm will be responsible to undertake any work not covered above for removal/ installation of the base.</p>
11.	Technical specification (if any)	<p>a. Antenna base triangle shape as per sample, height 43 inch with three portion supporting rod with 4mm thickness and outer three supporting rod of 19 inch.</p> <p>b. SS Material</p>
12.	Eligibility criteria	<p>a. As per TSR.</p> <p>b. The firm should visit onboard and access the extend of required work and understand exact nature of defect before quotation.</p> <p>c. The firm should having good experience to repair/ maintenance/ replacement of such system/ equipment.</p> <p>d. The firm should be NTN/ GST registered.</p>
13.	EDC	02 x Week after issuance of work order
14.	Warranty	01 Year
15.	Acceptance criteria (if any)	Satisfactory trials after installation in at harbor and at sea

IT SPECIFICATION FOR DEFECT RECTIFICATION OF SAU II PLC OF FIRE MAIN PRESSURE AND FLOOD ALARM SENSORS FWD AND AFT OF DAMAGE CONTROL MONITORING AND CONTROL SYSTEM – PMSS DASHT

S No.	Description	
1.	Parent Equipment	Damage Control Monitoring and Control System
2.	Sub Equipment	Fire Main Pressure and Flood Alarm Sensors
3.	Assembly component	SAU II PLC and Sensors of Fwd and Aft
4.	Make	Siemens CPU224XP S7-200 PLC
5.	Model	STH5GSAU
6.	Qty	02 (Fwd and Aft)
7.	Justification	Integrated Damage Control Monitoring and Control System unable to read Firemain Pressure and Flood Alarm Sensors. Defect diagnosis by SS indicates malfunctioning of PLC SAU II
8.	Work req/ Defect	Configuration of firemain sensors and flood alarm sensors with integrated Damage Control Monitoring and Control System through replacement of SAU II PLC and sensors with new (OEM only)
9.	Detailed Scope of Work	<p>a. Complete detailed health assessment of Damage Control Monitoring and Control System specifying all minor/ major and hidden defects and provision of detailed report of health assessment</p> <p>b. Inspection/ repair/ replacement of SAU II PLC (Siemens) and Firemain Pressure and Flood Alarm Sensors of Fwd and Aft</p> <p>c. Repair/ replacement of all hardware components of main DDC system panel on bridge. <i>Defective is</i></p> <p>d. Complete software programming of all components related to Damage Control Monitoring and Control System</p> <p>e. Programming of SAU II PLC (Siemens)</p> <p>f. All tools and test equipments or any spares required to conduct said scope of work will be arranged by firm/ contractor and no growth work will be acceptable</p> <p>g. System will be pre checked before start of work. All work including system isolation, blanks (if required), cleaning, servicing, dismantling and reassembling upto ship staff standard will be responsibility of firm</p> <p>h. SAT running of Damage Control Monitoring and Control System</p> <p>i. Repair/ Replacement of any parts/spares of main DCC system/panel</p>
10.	Technical specs	As per OEM Manual/ Specs
11.	Eligibilities	Reputable local contractor having working experience of PLC Siemens
12.	EDC	05 x Days
13.	Warranty	One Year Warranty after satisfactory test/ trials. Any malfunctioning/ error or software requirement/ any hardware component replacement within warranty period will be rectified by firm and will be sole responsibility of firm for defect rectification of the system and SAT running of DCC system
14.	Acceptance Criteria	<p>a. OEM Certified spares only</p> <p>b. Upon scrutiny of item and provided documents</p> <p>c. Synchronization and display of correct firemain pressure and flood alarm sensors on system</p> <p>d. Satisfactory operation of SAU II PLC and all sensors and integration of DCC System and SAT trials of Damage Control Monitoring and Control System</p>
15.	Any other Information	Contact SS/ MEO and must visit onboard for clear understanding of scope of work

PMSS KASHMIR

IT SPECIFICATION - REPAIR/ REPLACEMENT OF UNINTERRUPTIBLE POWER SUPPLY (UPS) OF DVBS

S No.	Description	
1.	Parent Equipment	DVBS
2.	Sub Equipment	DVBS UPS
3.	Make	FEEJi
4.	Model	DJW-12
5.	Qty	01
6.	Justification	Failure: Existing Uninterruptible Power Supply (UPS) Unit is defective and same are required to be repair/ replace.
7.	Work required/ Defect	Repair/ replacement of defective uninterruptible power supply (UPS) is required.
8.	Detailed Scope of Work	Presently, DVBS backup UPS is defective and not providing requisite 24 VDC power supply during TLF/ any other supply shift or failure and same has been repaired multiple times from BMG; however, defect still persists therefore same is required to repair/ replace to restore its Backup supply.
9.	Technical specs	<p>a. I/P Voltage Range 220 VAC</p> <p>b. Current: <3.6 A</p> <p>c. Power rating : 12AH</p> <p>d. Normal Output Voltage 24 VDC & 27.9 max in buffer mood</p> <p>e. Current Limit: 12 A</p> <p>f. Use: Standby (13.5-13.8V) & Cycle (14.4-15V)</p> <p>g. Charge Characteristics curve: I/U Characteristics curve</p> <p>h. Power in OK: Green LED, battery charge yellow LED, Alarm: Red LED, Floating PDT, 30 VAC/DC, MAX 1 A</p> <p>j. Parallel connection to increase buffer time: yes</p> <p>k. Weight: 6 kg</p> <p>l. Rechargeable battery type: Maintenance Free Sealed Lead Acid battery</p>
10.	Eligibility Criteria	Reputable local contractor having working experience with PMSA/ OEM authorized reps will be given preference
11.	EDC/ EDD	15 days
12.	Warranty	12 x Months
13.	Acceptance Criteria	<p>a. OEM Certified items.</p> <p>b. Item will be accepted after satisfactory test/ trials onboard.</p> <p>c. OEM Technical documents/ warranty certificate of items required.</p> <p>d. Upon scrutiny of items and provided documents i.e technical specifications along with production certificate and batch No by OEM.</p>
14.	Any other relevant Information	Firm must visit onboard for clarification of any query and understanding of requirement before quoting.

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

IT SPECS FOR REPAIR/ REPLACEMENT OF DEGRADED BULWARKS AND DETRIORATED INTERNAL/ EXTERNAL FIXTURES: PMSS BARKAT		
1.	Ship's Name	PMSS BARKAT
2.	Parent equipment/system	Degraded Bulwark & deteriorated internal/ external fixtures
3.	Sub equipment	Bulwark & internal/ external fixtures
4.	Assembly/ equipment	N/A
5.	Make	China
6.	Model	-
7.	Qty	As per scope of work
8.	Justification	Degraded condition over the period of time.
9.	Work required	Repair/ replacement work as per scope of work
10.	Detailed scope of work	Scope of work is as under: a. Repair/ replacement of 03 x life rafts securing bases. b. Repair/ replacement of under mentioned hatches: 1. Fwd mess emergency hatch deteriorated, hatch to be repaired. 2. Bosh store hatch to be repaired. 3. Emergency hatch FWD & AFT engine room are required to be repaired. 4. ASP & Tech mess hatch deteriorated, hatch to be repaired. 5. EVAC compartment hatch deteriorated, hatch to be repaired. c. Ensign staff is deteriorated. Repair/ replacement work required. d. Repair / replacement of 02 x Jack staff support (Dia 1.5" length 5' each). e. Repair/ replacement of 04 x Engine Rooms Foam drenching tubes covers. f. 04 x arms of main mast to be replaced (Dia 2" length 4'). g. Repairing of Guard Rails with stanchions of all Decks. h. Repair/ replacement of 04 x rope securing reels (Foxl & Q/ Deck). i. All water tight doors securing hook to be replaced. j. Repairing of washroom doors CPOs/Sailors (06) and Officers (03) with locking mechanism as requirement k. Repairing of 04 x aluminum doors including door closer and rubber seals (1 deck alleyway, dining hall, bridge and wardroom). l. Repair of all (17) water tight doors a/w replacement of rubber seal. m. Repair of 02 x vegetable locker doors 4'x3'. n. Repair/ replacement of 15 x portable fire extinguisher bases/ stowage. o. Repairing of Chain stoppers of anchor cable. p. Repair work of all (12) water tight port holes. q. Repair/ replacement of Zulu boat cradle. r. Following ladders/ stairs are required to be repaired/ replacements: 1. Q/Deck 2. G/Deck 3. EVAC 4. MCR s. Repairing of Armoury lockers. t. Repair/ replacement of 03 x Fuel tank vents. u. Repair/ replacement of 04 x fresh water tank vents. v. Repair/ replacement of 09 x vent flaps including butterfly nuts / bolts on (01 x Foxl, 03 x Port & Stbd alleyway, 03 x Gun deck and 02 x Signal Deck). w. 04 x Engine room supply fans bases deteriorated. Bases are to be made new (Dia 27" Height 1'). x. Repair/ replacement of under mentioned ventilation trunking: in FER, ASP, armoury and messes. Replace/ repair the deteriorated trunking y. Repair/ replacement of gratings on Port & Stbd trunking in ASP (1'x1') z. 1. Repair/ replacement of gratings on Port & Stbd exhaust trunking in AER (2'x2') 2. Replacement/ repair of gratings on Port & Stbd exhaust trunking in FER (2'x2') 3. Repairing of Port & Stbd trunking of Armoury (60"x6"x6") 4. Repairing of Port & Stbd gratings of Armoury trunking (1'x1') aa. The firm will be responsible for all types of welding/ cutting work. ab. All spares (must be genuine) tools special equipment /accessories required

		for said Repair/ replacement are to be arranged by the firm.
		af. Any damage/ defect/wear tear occurred during course of repair and replacement of system/equipment will be met by firm.
11.	Technical spec	As per IT specifications
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 and experienced. c. The firm should be NTN /GST registered.
13.	EDC	15 x days after issuance of work/confirmation order.
14.	Warranty	01 Year
15.	Acceptance criteria	a. Satisfactory work done by the firm. b. Successful completion and acceptance by the end user. c. Satisfactory trials (HATs/ SATs).

IT NO: IT/50/17/2024-25
PMSS KASHMIR

IT SPECIFICATIONS – REPAIR/ REPLACEMENT JMA 5312 RADAR MAGNETRON		
S No	Description	
1.	Parent Equipment	JMA 5312 RADAR
2.	Sub Equipment	SCANNER UNIT/ MAGNETRON
3.	Make	JAPAN
4.	Model	MAF1565N
5.	Qty	01
6.	Justification PMS/Failure/FWT	FWT, Clocked >5700 hrs. MTBF is 3000 hrs
7.	Work required/ Defect	Radar not acquiring close/ small targets. Magnetron of the radar needs to be repaired/ replaced for satisfactory operation of the radar.
8.	Detailed Scope of Work	Repairing/ replacement of magnetron and satisfactory operation of the radar.
9.	Technical specs	a. Power output: 10 KW b. Frequency: 9410+-30 MHZ(X-BAND) c. Duty Cycle: 0.001 Max d. Pulse Duration: 0.07-1.25usec e. Anode power i/p: 35W f. Anode Voltage: 6KV
10.	Eligibility Criteria	Reputable local contractor having working experience with PMSA/ OEM authorized reps will be given preference
11.	EDD/ EDC	10 days
12.	Warranty	12 x Months
13.	Acceptance Criteria	a. Item will be accepted after satisfactory test/ trials onboard. b. OEM Technical documents/ warranty certificate of items required.
14.	Any other relevant information	Firm must visit onboard for clarification of any query and understanding of requirement before quoting.

IT NO: IT/50/18/2024-25
D(MT)

IT SPECIFICATIN COMERCIAL REPAIR CASE VEHICLE NO 070314 MS SUZUKI PICK UP		
1	SYSTEM	COMERCIAL REPAIR
2	MAKE	SUZUKI PICK UP
3	MODEL	2007
4	VEHICLE NO	070314 MS
5	ITEM DESCRIPTION	Work Description <u>Following items will be repair/replaced:</u>
S No		Work Description Repair/Replace
a		Front and back cabins (external and internal) body replacement with new
b		Replacement of all seats (front cabin and rear cabin) seats including seats cover with new
c		Engine major overhaul
d		Complete suspension work
e		Replacement of wiring with new
f		Head light covers replacement with new
g		Wipers new required
h		Hand brake cable new
i		Air filter with bottle & hose ,fuel filter & oil filter replacement with new
j		Accelerator pedal, cable and, clutch wire new required
k	Head light assembly repairing work required	
l	Spark plug, ignition coil & distributor new required	
m	Alternator repairing work	
6	TECHNICAL SPESIFICATINOS	MATERIAL AS PER EXISTING
7	PRELIMINARY INVESTIGATION BY SHIPS'S STAFF	D(MT) / MTO STAFF
8	ELIGIBILITY	REGISTERED CONTRACTOR
9	EDD	30 DAYS
10	WARRANTY	WARRANTY 12 MONTHS
11	ACCEPTANCE CRITERIA	STAGE INSPECTION BY END USER

IT NO: IT/50/19/2024-25

S.NO	IT SPECIFICATION	
1.	Ship's Name	PMSS BARKAT
2.	Parent equipment	CCTV Camera Monitoring System
3.	Sub equipment	Cable for 04 x CCTV cameras bases.
4.	Assembly component	-
5.	Make	CHINA
6.	Model	RG6 Cable
7.	Quantity	500 Meter cable ✓
8.	NSN/Part No	5995-70-521-5947
9.	Justification i.e PMS/ Failure/ FWT etc	FWT
10.	Work require/ defect	Rigging of cable to all 04x cameras and securing.
11.	Detail scope of work ✓	a. Repair/ Replacement and rigging of 500 meter cable as per Technical spec. b. All spare tools, special equipment/ tools accessories etc for installation of cabling are to be arranged by the firm. c. Dismantling, assembling transportation will be responsibility of the firm. d. Any other work required to ensure good quality and optimum performance of the CCTV camera monitoring system. e. All in way work will be undertaken by the firm. f. The firm will be responsible to undertake any work not covered above for rigging of cable of CCTV camera.
12.	Technical specification (if any)	a. RG6 Coaxial cable (marine version)
13.	Eligibility criteria	a. As per TSR b. The firm should visit onboard and access the extend of required work and understand exact nature of defect before quotation. c. The firm should having good experience to repair/ maintenance/ replacement of such system/ equipment. d. The firm should be NTN/ GST registered.
14.	EDC	02 x week after issuance of work order.
15.	Warranty	01 Year.
16.	Acceptance criteria (if any)	Satisfactory trials after installation in at harbor.

IT SPECIFICATION FOR PAINT WORK OF 05 X FRESH WATER TANKS AND 06 MISC TANKS - PMSS BASOL

S No	Description																																																																																					
1.	Parent Equipment	11 x Tanks																																																																																				
2.	Sub-equipment																																																																																					
3.	Assembly equipment																																																																																					
4.	Make																																																																																					
5.	Model	CSTC																																																																																				
6.	Quantity	N/A																																																																																				
7.	Justification	11 x Tanks																																																																																				
8.	Work required/ Defect	EMP work package Paintwork (including provision of paint) of 11 x tanks																																																																																				
9.	Detailed scope of work	Paint work of following 11x tanks required: <table><tr><th>S. No</th><th>Tank</th><th>Paint</th><th>Paint Code</th><th>Area (m²)</th><th>Requirement (Liters)</th></tr><tr><td>a.</td><td>05 x Fresh water Tank</td><td>Epoxy Phenolic/ Tank coating</td><td>TLA851/TLS856</td><td>364.7</td><td>72</td></tr><tr><td></td><td></td><td>Epoxy Phenolic/ Tank coating</td><td>TLA850/TLS856</td><td>364.7</td><td>72</td></tr><tr><td>b.</td><td>02 x Grey water tank</td><td>Epoxy universal primer</td><td>KU606/KUA603</td><td>82.7</td><td>15.2</td></tr><tr><td></td><td></td><td>Epoxy universal primer</td><td>KU602/KUA603</td><td>82.7</td><td>15.2</td></tr><tr><td>c.</td><td>01 x Lube oil tank</td><td>Epoxy tank Holding primer</td><td>THA700/THA703</td><td>21.2</td><td>5.0</td></tr><tr><td></td><td></td><td>Epoxy tank Holding primer</td><td>THA702/THA703</td><td>21.2</td><td>5.0</td></tr><tr><td>d.</td><td>01 x Dirty oil tank</td><td>Epoxy universal primer</td><td>KU606/KUA603</td><td>42.7</td><td>7.9</td></tr><tr><td></td><td></td><td>Epoxy universal primer</td><td>KU602/KUA603</td><td>42.7</td><td>7.9</td></tr><tr><td>e.</td><td>01 x Sludge oil tank</td><td>Epoxy universal primer</td><td>KU606/KUA603</td><td>15.7</td><td>2.9</td></tr><tr><td></td><td></td><td>Epoxy universal primer</td><td>KU602/KUA603</td><td>15.7</td><td>2.9</td></tr><tr><td>f.</td><td>01 x Bilge tank</td><td>Epoxy universal primer</td><td>KU606/KUA603</td><td>25.0</td><td>4.6</td></tr><tr><td></td><td></td><td>Epoxy universal primer</td><td>KU602/KUA603</td><td>25.0</td><td>4.6</td></tr><tr><td colspan="4">TOTAL</td><td>1104</td><td>215.2</td></tr></table>	S. No	Tank	Paint	Paint Code	Area (m ²)	Requirement (Liters)	a.	05 x Fresh water Tank	Epoxy Phenolic/ Tank coating	TLA851/TLS856	364.7	72			Epoxy Phenolic/ Tank coating	TLA850/TLS856	364.7	72	b.	02 x Grey water tank	Epoxy universal primer	KU606/KUA603	82.7	15.2			Epoxy universal primer	KU602/KUA603	82.7	15.2	c.	01 x Lube oil tank	Epoxy tank Holding primer	THA700/THA703	21.2	5.0			Epoxy tank Holding primer	THA702/THA703	21.2	5.0	d.	01 x Dirty oil tank	Epoxy universal primer	KU606/KUA603	42.7	7.9			Epoxy universal primer	KU602/KUA603	42.7	7.9	e.	01 x Sludge oil tank	Epoxy universal primer	KU606/KUA603	15.7	2.9			Epoxy universal primer	KU602/KUA603	15.7	2.9	f.	01 x Bilge tank	Epoxy universal primer	KU606/KUA603	25.0	4.6			Epoxy universal primer	KU602/KUA603	25.0	4.6	TOTAL				1104	215.2
S. No	Tank	Paint	Paint Code	Area (m ²)	Requirement (Liters)																																																																																	
a.	05 x Fresh water Tank	Epoxy Phenolic/ Tank coating	TLA851/TLS856	364.7	72																																																																																	
		Epoxy Phenolic/ Tank coating	TLA850/TLS856	364.7	72																																																																																	
b.	02 x Grey water tank	Epoxy universal primer	KU606/KUA603	82.7	15.2																																																																																	
		Epoxy universal primer	KU602/KUA603	82.7	15.2																																																																																	
c.	01 x Lube oil tank	Epoxy tank Holding primer	THA700/THA703	21.2	5.0																																																																																	
		Epoxy tank Holding primer	THA702/THA703	21.2	5.0																																																																																	
d.	01 x Dirty oil tank	Epoxy universal primer	KU606/KUA603	42.7	7.9																																																																																	
		Epoxy universal primer	KU602/KUA603	42.7	7.9																																																																																	
e.	01 x Sludge oil tank	Epoxy universal primer	KU606/KUA603	15.7	2.9																																																																																	
		Epoxy universal primer	KU602/KUA603	15.7	2.9																																																																																	
f.	01 x Bilge tank	Epoxy universal primer	KU606/KUA603	25.0	4.6																																																																																	
		Epoxy universal primer	KU602/KUA603	25.0	4.6																																																																																	
TOTAL				1104	215.2																																																																																	
10.	Technical specs	As per OEM Manual/ Specs																																																																																				
11.	Eligibility criteria	Reputable local contractor having working experience on tanks paint work onboard.																																																																																				
12.	EDC/EDD	10 days																																																																																				
13.	Warranty	One year after satisfactory paint work.																																																																																				

Quote may be provided with and without provision of paint along with price of cost of steel paint component

O. Jeeh 19/3

a. Washing and deep cleaning will be carried out by KS & EW.
b. Firm is to remove all residue and dust particulars.
c. Gas free of each tank is to be undertaken before cleaning of tanks.
d. Firm is to use only recommended and clean cloth. Moreover blast/explosion proof lighting is to be used by firm while undertaking cleaning/paint activity.
e. Firm is to replace packing/ seals of tank hatches/ covers.
f. Firm is to apply recommended paint after clearing any corrosion on surface, i.e. surface is to be prepared properly before applying paint.
g. Only recommended Paint (Akzo Noble Pakistan) is to be procured / used by firm having valid shelf life of atleast 01 year.
(h) All spares, tools and test equipment are to be arranged by the firm
(i) Any growth work/ damage will be soul responsibility of the firm

14.	Acceptance criteria	Visual inspection along with paint film thickness testing by firm.
15.	Any other information	Firms are to visit site before quoting to fully understand scope of work

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

S No.	IT Specifications	PMSS NUSRAT
1	Ship's Name	Forward Port Main Engine
2	Parent Equipment	PLC base Monitoring, Protection and Control System IP-67 rating
3	Sub System	PLC and associated I/Os
4	Assembly Components	Mitsubishi brand PLC
5	Make	FX-3U
6	Model	01
7	Quantity	PLC and associated I/Os working abnormally resulting in erratic behavior of system. Control system malfunction causing undesired system parameters and false trigger alarms. Control system on remote not available
8	Justification i.e PMS/ Failure/ FWT etc	Defect rectification of existing Control system
9	Work Required/ Defects	Work of scope as under:
10	Scope of Work	<p>a. Replacement of FPME existing monitoring, protection and control system with PLC and associated I/O's with IP-67 rating</p> <p>b. Check & diagnosis/ repair/ replacement of PLC module</p> <p>c. Check & diagnosis/ repair/ replacement of associated I/Os cards</p> <p>d. Check & diagnosis/ repair/ replacement of GCU cards</p> <p>e. Complete functionality as in present system to be provided as enumerated below</p> <p>f. HMI Software to display following parameters/ indications</p> <ol style="list-style-type: none"> (1) Lube oil pressure (2) Gear box Lube oil pressure (3) Gear box Lube oil temperature (4) Exhaust temperature A-bank (5) Exhaust temperature B-bank (6) Combine exhaust temperature (7) Engine RPM (8) Coolant water temperature (9) Coolant low water warning/ trip switch (10) Charge air temperature (11) Sea water pump discharge pressure (12) Shaft RPM (13) Ahead Astern & disengage indication of shaft <p>g. Incorporation of following warning in case of any abnormality</p> <ol style="list-style-type: none"> (1) High coolant temperature (95C°) (2) High Gear box Lube oil temperature (100C°) (3) Low engine Lube oil pressure (2.5 bar) (4) Low gear box lube oil pressure (2.5 bar) (5) Low sea water pressure (0.2 bar) <p>h. Local control system should be stand alone with following control option:</p> <ol style="list-style-type: none"> (1) Local remote selector switch (2) Start/ stop, emergency stop switch (3) Ahead/ Astern Switch (4) Engine Speed Controller (5) Volt meter batteries (6) Fuel injection pump cut in/ cut out indication (7) Maximum speed protection system (8) Engine hours counter meter

j. To be designed on following parameters to operate safeties resulting in ME trips/ shout down:

- (1) Low engine Lube oil pressure (1.5 bar)
- (2) High coolant temperature (95C°)
- (3) High engine Lube oil temperature (105C°)
- (4) Engine over speed (2000 RPM)
- (5) Low gear box lube oil pressure (1.5 bar)

k. Engine Emergency stop safety is available in MCR, LCP and Bridge

l. Parameters logging should be provided alongwith facility of system recording for 04 x weeks as well as engine order recording for 04 x hours to be provided

m. 15" HMI to be repair/ installed new in MCR, should be able to show parameters of engine in suitable partition

n. System should be easy and quick in fault diagnosis with alarm identification on screen i.e sensor defective (SD), Wire Broken (WB), or other defects possible to program to be displayed on HMI

p. PLC programming and backup software to be included in deliverable. Further, SS training for software installation to be provided

q. All slandered cable marking is required and extra wire should be remove in complete control system

r. Operator manual technical Manual, Maintenance Manual along with illustrated part catalogue to be provided

s. Auto cut in/ cut out of fuel pumps should be available

t. Control station/ change over mode should be available from LCP/MCR/Bridge and Vice Versa with indication/ buzzer

u. Compatibility of governor and governor control unit with new control system is the responsibility of the firm

v. The Firm will also provide complete system diagram/ fault finding procedure/ troubleshooting procedures on laminated hard and soft copy

w. Training is to be provided to SS to operating the system and level and maintenance

x. Diagnostic tool for fault diagnostic and rectification of control system

y. The firm will provide all documents/ operating and maintenance manual and drawing (02 set) in hard and soft copy

z. The firm will be responsible to undertake any work not covered above to ensure good quality of work

aa. There will no growth work

ab. The firm will be responsible for welding/ cutting, if required

ac. All spares, tools, special equipment/ tools, accessories etc for fabrication/ installation are to be arranged by the contractor

ad. The firm will be responsible for requirement of external services

		<p>ae. Any damage/ defect/ wear tear occur during the course of removal and installation of core assembly will be repaired/ met by firm</p> <p>af. Firm will provide complete list of spares/ stores fitted/ renewed / replaced with complete description and part number, and old items to be provided to SS for survey</p> <p>ag. The firm will be responsible for all removal, transportation installation work during warranty/ guarantee period claims and in case of any re-work</p> <p>ah. The system should be supportable for next 15 years</p>
11.	Technical Spec	As per IT Spec
12.	Eligibility Criteria	<p>a. The firm should visit onboard and carryout inspection to establish the extent of required work</p> <p>b. The firm should having good experience of the same kind of work required onboard</p> <p>c. The firm should be NTN/GTN registered</p>
13.	EDC	45 x working days after issuance of work/ confirmation order
14.	Warranty / Guarantee	<p>a. 01 year/1500 Hrs from the date of acceptance</p> <p>b. Firm will also provide a guarantee certificate for provision of spares/ parts for next 05 years successful installation of system</p>
15.	Acceptance criteria	<p>a. Successful defect rectification of Control system</p> <p>b. HATs/ SATs</p>

IT NO: IT/50/22/2024-25

IT SPECIFICATION FOR REPAIR/ REPLACEMENT OF AHU FAN MOTOR- PMSS SABQAT		
1.	Parent Equipment	Air Handling Unit (AHU) of Main A/C
2.	Sub Equipment	AHU Fan Motor
3.	Assembly Component	-
4.	Make	Dayton 3LU79G or DLR 10236 Century, CHINA
5.	Model	F48H07A01
6.	Qty	02
7.	Justification i.e PMS/Failure/ F.W.T etc	Repair/ Replacement of AHU Fan Motor with complete casing
8.	Work required/ defect	Remove defective AHU Fan Motor from system and install repaired/ replaced motor
9.	Detailed scope of work	<p>i. Remove AHU Motor from system</p> <p>ii. Repair/ Replace AHU motor and fitted back.</p> <p>iii. Installation of Repair/ Replaced AHU motor is to be done in presence of S.S</p> <p>iv. Any change occur during the course of removal and installation work will be done by Firm without any liability/ responsibility on part of the Ship/ PMSA.</p> <p>v. All material, spars, tools, special equipment, accessories etc required for said work are to be arranged by the contractor</p> <p>vi. Requirement of internal service if any will be responsibility of the firm without any liability on the part of ship</p> <p>vii. Repair/ Defective items are same hand over the SS</p>
10.	Technical Specification	Input Supply 115V 60Hz Single Phase
11.	Eligibilities	<p>i. The firm should visit onboard and carry out inspection to establish the extent of required work.</p> <p>ii. The firm should have experience of the same kind of work.</p> <p>iii. The firm should be NTN/GST registered.</p>
12.	EDC	07 working days
13.	Warranty	01 year.
14.	Acceptance Criteria (if any)	Satisfactory Operation by SS

IT NO: IT/50/23/2024-25

REPAIR REPLACEMENT OF DISPLAY & PROCESSING UNIT FOR SATISFACTORY OPERATION OF THE JMA 5312 RADAR-PMSS DASHT

No.	Description
1.	Parent Equipment
2.	Sub Equipment
3.	Assembly component
4.	Make
5.	Model
6.	Qty
7.	Justification i.e PMS/Failure/FWT etc
8.	Work required/ Defect
9.	Detailed Scope of Work
10.	Technical specs
11.	Eligibility Criteria
12.	EDD
13.	Warranty
14.	Acceptance Criteria
15.	Any other relevant Information

JMA 5312 Radar
Display And Processing Unit
a. ATA Processing PCB
b. ARPA Processing PCB

JRC
JMA 5312- 6/6HS
01

Video of JMA RADAR not available.

Repair/ Replacement of Display and Processing Unit for satisfactory operation of the JMA 5312 RADAR.
Repair/ Replacement of ATA Processing PCB and ARPA Processing PCB for satisfactory operation of the JMA 5312 Radar

10 KW, X Band
Any firm having good experience with PMSA, OEM/ authorized reps will be given preference

10 Days
Service and repair warranty of 01 year

a. Only OEM Certified item will be accepted.
b. Item will be accepted after satisfactory test/trials onboard at sea
c. Successful Trials by end user alongwith satisfactory test trials sheets duly signed by the firm

Nil

AFERQZ KHAN

IT SPECIFICATION FOR REPAIR/ OVERHAULING OF 22 X FAN COIL UNIT (FCU) – PMSS DASHT

Description	
Parent Equipment	Marine Fan Coil Unit (FCU)
Sub Equipment	Marine Fan Coil Unit (FCU)
Assembly Component	22 x FCU (Evaporators, Blowers and Coils)
Model	CFP-18LG, CFP-3WA, CFP-5WAX
Make	Jiangsu Josun Air Conditioner Co. Ltd
Quantity/Item Details	22 x (Evaporator, Blower, Coils and Base Plates of Standing FCUs)
Justification	Chill water leakage due to deterioration of FCU and degradation of FCU blower also observed during normal operation observed. FWT observed in coils
Work required/Defect	Repair/ Overhauling of 22 x FCUs
Scope of Work	<p>(1) In route all accessories including bulkhead/ ceiling honeycomb is to be removed and fitted back without any damage</p> <p>(2) Degraded components including defective fan motor, bearings, evaporator coils are to be replaced with copper material and servicing/ overhauling of blower motor replacement of corroded parts</p> <p>(3) Replacement of 22 x FCU controllers</p> <p>(4) FCU performance is to be restored to maintained compartment temperature (i.e. upto 22 degree centigrade)</p> <p>(5) Clear all choked drains, replace all standing FCU base plates and foundation</p> <p>(6) Provision of all spares and parts for FCUs and associated fittings (OEM specified only)</p> <p>(7) Evaporators, Blowers and Coils be checked/ inspected by SS prior installation</p> <p>(8) Satisfactory running operation of 22 x FCUs</p> <p>(9) Inspection and repair of all FCUs leakages</p> <p>(10) Fabrication of lines for all FCUs (if deteriorated)</p> <p>(11) All spares, tools and test equipments are to be arranged by the firm</p> <p>(12) Any growth work will be soul responsibility of the firm</p> <p>(13) Any damage during removal of accessories will be responsibility of the firm</p>
Eligibilities	Reputable local contractor having working experience on chiller and FCUs of MPVs
EDC	03 x weeks
Warranty	One year after completion of successful trials
Acceptance Criteria	Satisfactory operation of 22 x Fan Coil Unit upto 22 degree centigrade
Any other Information	Firms are requested to visit site before quoting. If any firm quotes without visiting ship, firm will be rejected in TSR

IT SPECIFICATIONS FOR DEFECT RECTIFICATION/ UPGRADATION OF JMA NAVIGATIONAL RADAR

S No	Description		
1.	Ship's Name	PMSS HINGOL	
2.	Parent Equipment	JRC JMA 5312/6 radar	
3.	Sub Equipment	Below Deck Unit Magnetron Assembly	
4.	Assembly/ Component	Below Deck Unit Magnetron Assembly	
5.	Model	NCM-928	
6.	Make	JRC, JAPAN	
7.	Quantity/Item Details	-	
8.	NSN/ Part Number	Part No	Qty Item
		NCM-928	01 Radar Processing Unit
		M-1565N	01 Magnetron
		NWZ-214	01 Display Unit (MFD)
		CML-901F	30m Interconnection Cable
		G-000310	01 License (Radar)
		CML-836DCF	01 Power Cable for DC Scanner
		G-005295	01 Instruction Manual (Digital)
9.	Justification	JMA Radar processing unit malfunctioning Routine replacement of Magnetron Assembly	
10.	Work required/Defect	Installation/Relocation of Radar's Below Deck unit with requisite accessories and replacement of Magnetron	
11.	Scope of work	<p>a. Installation and integration of Processor Unit and MFD with installed onboard sensors</p> <p>b. Relocation of Processor unit with complete interconnection cables</p> <p>c. Replacement of Magnetron of Radar scanner</p> <p>d. Installation of Radar's software with Licensed firmware key/ code (to be provided by the firm).</p> <p>e. Any other Programs/ spares etc. required during the repair activity is to be provided by the firm.</p> <p>f. All accessories to be fitted back by the firm.</p> <p>g. Work to be undertaken in accordance with relevant technical manual.</p> <p>h. Satisfactory system trials i.e. harbor and sea.</p> <p>j. Any damage/defect/wear or tear which may occur during installation will be repaired by the firm without any liability/responsibility on part of the ship</p>	
12.	Technical Specifications	As per OEM manual/ Specifications.	
13.	Eligibility Criteria	<p>a. Firm having working experience on JRC manufactured Radars/ systems.</p> <p>b. Registered and security wise cleared local contractor/ firm who has working experience of MPVs.</p>	

14.	EDC	c. Firm must visit ship to undertake the exact diagnosis prior quoting to avoid inconvenience after award of Work
15.	Warranty	04 week
16.	Acceptance Criteria	01 years
		<p>a. System should boot-up, scan, transmit and hook targets/ tracks as per standard.</p> <p>b. Firm should provide Radar's software/ setup/ program along with licensed firmware key/ code and installation guide/ procedure to Ship and BMG.</p> <p>c. Upon completion of satisfactory trials at harbor and sea.</p>
17.	Any Other Relevant Information	Conduct of onboard feasibility of JMA Radar processor prior replacement.

IT NO: IT/50/26/2024-25
PMSS KASHMIR

IT SPECIFICATION: CONDUCT OF PMS ROUTINE OF PORT AND STBD DAVIT												
1	System	Boat Davit										
2	Sub system	Port & Stbd Davit										
3	Assembly Component	Misc										
4	Make	CSSC Luzhou Zhenjian Marine Auxiliary Machinery Co., Ltd. OCT										
5	Model	LWYH25										
6	Quantity	02										
7	Justification i.e PMS/ Failure/ FWT etc	PMS Routine										
8	Work Required/ Defect	Conduct of Misc PMS routines related to Port and Stbd Boat Davit as per JIC										
9	Scope of Work	a. Replace Gear Oil of Reducer (MOP-008) b. Replace Scavenge Filter (MOP-009) c. Replace Air Filter (MOP-010) d. Replace Hydraulic Oil (MOP-011) e. Replace Boat Wire Rope (MOP-012) f. Winch Overhaul (MOP-013)										
10	Technical Specs	<table border="1"> <thead> <tr> <th>Part No</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>QYL-250X10FP</td> <td>Scavenge filter</td> </tr> <tr> <td>EF4-50</td> <td>Air Filter</td> </tr> <tr> <td>GB11118</td> <td>LHV-46</td> </tr> <tr> <td>Wire Rope</td> <td>14 - MBL 18</td> </tr> </tbody> </table>	Part No	Description	QYL-250X10FP	Scavenge filter	EF4-50	Air Filter	GB11118	LHV-46	Wire Rope	14 - MBL 18
Part No	Description											
QYL-250X10FP	Scavenge filter											
EF4-50	Air Filter											
GB11118	LHV-46											
Wire Rope	14 - MBL 18											
11	Eligibility Criteria	a. Have experience to work onboard ships (preferably PMSA ships) b. Company must be certified with HQ PMSA c. Company must be Income and Sales tax registered.										
12	EDC	04 weeks after confirmation of order										
13	Warranty	a. 01x year for systems/ equipment mentioned at para 9 (a, b, c, d & f) b. 05 x years for boat wire rope para 9 (e)										
14	Acceptance Criteria (if any)	Satisfactory trials of boat davits mechanism for 02 x months										
15	Any other relevant information	Firm must visit onboard before providing quotation to verify exact scope of work as per JIC (Contact: 0321-3000503)										

IT NO: IT/50/27/2024-25

IT SPECIFICATION: CONDUCT OF PMS ROUTINES RELATED TO MAIN ENGINES PREHEATERS: PMSS KASHMIR								
1	System	Main Engine						
2	Sub system	Preheaters						
3	Assembly Component	Heaters						
4	Make	Taixing Traffic Machinery Facilities Factory						
5	Model	a. CDE2 b. PHP32/2						
6	Quantity	02						
7	Justification	PMS Routine 5-7104-001						
8	Work Required/ Defect	Conduct of PMS routine 5-7104-001						
9	Scope of Work	<table border="1"> <thead> <tr> <th>S No</th><th>Description</th><th>MOP</th></tr> </thead> <tbody> <tr> <td>a</td><td>Replace Electric Heaters</td><td>08</td></tr> </tbody> </table> <p>Note: b. Spares to be provided by firm c. Any damage/ defect, wear & tear occurred during the course of removal and installation work will be repaired by firm</p>	S No	Description	MOP	a	Replace Electric Heaters	08
S No	Description	MOP						
a	Replace Electric Heaters	08						
10	Technical Specs	As per relevant TPIs & JICs						
11	Eligibility Criteria	a. Have experience to work onboard ships (preferably PMSA ships) b. Company must be certified with HQ PMSA c. Company must be Income and Sales tax registered.						
12	EDC	04 weeks after confirmation of order						
13	Warranty	01 x Years						
14	Acceptance Criteria	Satisfactory trials both systems for 30 days						
15	Any other relevant information	Firm must visit onboard before providing quotation to verify exact scope of work as per JIC (Contact: 0321-3000503)						

IT NO: IT/50/28/2024-25

IT SPECIFICATION OF SRE SYSTEM - PMSS REHMAT		
S No	IT SPECIFICATIONS	
1	Parent Equipment	SRE and Corning System
2	Sub equipment	Speakers, Mics and cabling where required
3	Assembly component	
4	Make	BOCSH China
5	Model	LC3-UC06/ Equivalent
6	Quantity	09 Speakers + 03 marine version Mics
7	Justification i.e PMS/ Failure/FWT etc	Item critically required for maintaining operational capability of ship
8	Work Required/ Defect	Repair/Replacement of defective speakers and mics of SRE system/corning system
9	Detailed scope of work	1. Complete repairs/ replacement of defective speakers and mics ensuring satisfactory operation of SRE and corning system 2. Rewiring/ rectification of cables where required 3. Provision and installation of accessories w.r.t rectification system
10	Technical Specs (if any)	SRE ceiling Speaker Mics JLC Japan NVT-10 Dynamic Microphone Power rating: 6W/ 100V Imp-400hm weight 450g
11	Eligibility Criteria	a. The firm should visit onboard to understand defect b. Firm not undertaking the visit onboard ship to see system work will not technically qualify. c. The firm has sufficient experience of same kind of work. d. NTN/QST registered.
12	EDC	02 x Weeks
13	Warranty	01 x Year warranty after installation
14	Acceptance Criteria (if any)	Onboard system trials after installation

IT SPECIFICATIONS FOR INSTALLATION OF OUTPUT SHAFT GUARD YANMAR ENGINE RHIB BOAT - PMSS HINGOL		
S No	Description	
1.	Parent Equipment	RHIB Boat
2.	Sub Equipment	Yanmar Engine
3.	Assembly Component	Output shaft
4.	Model	4LHA-STP
5.	Make	Yanmar
6.	Quantity/Item Details	08 (2 on each MPV)
7.	Justification	Engine output shaft is operating in congested space. Shaft guard is required to be made as per onboard dimensions.
8.	Work required/ Defect	Installation of output shafts guards on 08 x boats
9.	Scope of work	a. Installation of meshed guards on output shafts. (Stain Less Steel). b. Securing of all rig cables, hoses and lines of all systems. c. All accessories to be fitted back by the firm after repair. d. Growth work will be solely responsibility of firm. To avoid complications on later stage, firm is to visit ship before quoting for understanding removal/installation scope.
10.	Technical Specifications	As per OEM manual.
11.	Eligibility Criteria	Any qualified, registered and security wise cleared local firm having relevant working experience.
12.	EDC	15 days
13.	Warranty	a. One year warranty w.r.t safe operation of RHIB shafting system b. Any incident due to improper alignment/ looseness of shaft guard during warranty period will be responsibility of the firm.
14.	Acceptance Criteria	a. Satisfactory operation/running of the boat up to maximum Engine RPM i.e. 3500 without any vibration of output shaft guard. b. Proper securing of all rigged lines, cables and hoses away from output shaft and shaft guard.

PMSS DASHT

IT SPECIFICATION		
S No	Description	
1.	Parent equipment	Ready Use locker
2.	Sub-equipment	30mm Ammunition
3.	Assembly Component	N/A
4.	Make	N/A
5.	Model	N/A
6.	Quantity	01 x 30 mm Ready Use Locker
7.	Justification i.e PMSS/ Failure	Repair/ Replacement of 30 mm Ready Use Locker
8.	Work Required/ Defect	Repair/ Replacement of 30mm Ready Use Locker with Ventilation & Datum Plates arrangements are required to be carried out for 01 x locker prior stowage of 30mm ammunition
9.	Detailed Scope of Work	a. Ventilation Arrangement: Air ventilation holes on top of locker b. Datum Plates : Port and Stbd
10.	Technical Specs	N/A
11.	Eligibility Criteria	a. Installation by suitable/experienced firm b. Satisfactory trials
12.	EDC	02 week
13.	Warranty	01 Year
14.	Acceptance Criteria	Satisfactory trials regarding installation, flooding, drainage and ventilation arrangements
15.	Any other information	Firms are requested to visit site before quoting for further information

IT SPECS FOR REPAIR/ REPLACEMENT OF MAIN ENGINES CONTROL AND MONITORING SYSTEM - PMSS BARKAT		
1.	Ship's Name	PMSS BARKAT
2.	Parent equipment/system	Main engine MTU 16V 396 TB 93.
3.	Sub equipment	Control and Monitoring system.
4.	Assembly/ equipment	MCR
5.	Make	MTU, Germany
6.	Model	MTU 16V396TB963 (RCS-FFP/T02)
7.	Qty	04 x Main engines
8.	Justification	Engine control system has been degraded which considered extremely unsafe.
9.	Work required	Functional replacement of main engines control system may be conducted please.
10.	Detailed scope of work	Following work is required to be undertaken for repair/ replacement of control and monitoring system. a. Repair/ replacement of existing control system in MCR and Bridge. b. New system should have capability to give following parameters/ indications: 1. Lub oil pressure. 2. Lub oil temperature 3. Gear box lub oil pressure 4. Gear box lub oil temperature 5. Exhaust temperature A-bank 6. Exhaust temperature B-bank 7. Exhaust flap open/ close 8. Engine RPM 9. Coolant water temperature 10. Coolant water pressure 11. Charge air temperature 12. Sea water pump discharge pressure 13. Sump pressure 14. Fuel temperature 15. Fuel pressure c. New system should be able to give following Warnings in case of any abnormality in given limits: 1. High engine lub oil temperature (95 C) 2. High coolant temperature (85 C) 3. Low engine lub oil pressure (2.5 bar) 4. High Gear box lub oil temperature (100 C) 5. Low gear box lub oil pressure (2.5 bar) 6. Low sea water pressure (0.2 bar) 7. Low oil level of Gearbox 8. Low oil level of engine sump d. New system should be equipped with following TRIPS/ SHUTDOWN of main engine: 1. Low engine lub oil pressure (1.5 bar) 2. High coolant temperature (95 C) 3. High engine lub oil temperature (105 C) 4. High exhaust temperature (560 °C) 5. Engine over speed (2000 RPM) 6. Low gear box lub oil pressure (1.5 bar) e. control should be available in hard and soft keys as

slave and master.

f. Control station change-over should be available from LCP/ MCR/ Bridge and vice versa.

g. Exhaust flaps operation should also be shifted to auto mode and manual operation should be maintained for any emergency situation.

h. An interlock of exhaust flap open be provided during startup of main engines.

j. after shutdown of main engine exhaust flap be closed automatically.

k. Standard cable marking is required.

l. Relevant training be provided to nominated staff.

m. auto cut in/ cut out of fuel pumps and turbo charger (operational) should be available.

n. the new control system are required to be third party certified suitable for marine version environment use.

p. all existing options of the system to operate, monitor and start of engines are to be incorporated into the new system.

q. Monitoring protection and control system of each engine should be stand alone, except single throttle option.

r. all cables are to be new rigged for this system, route will be provided by SS.

s. compatibility of governor and governor control unit with new control system is the responsibility of the firm.

t. Firm can utilize the existing sensors if operationally suitable.

u. Firm can use the existing throttle if operational.

v. Firm will also provide the complete system diagrams and fault finding procedure/ trouble shooting procedure on soft and hard copies.

w. Local control system should be standalone system with following control options:

1. Local remote selector switch
2. Start/ stop emergency stop switches.
3. Ahead/ stern selector switch
4. Engine speed controller
5. Volt meter for batteries
6. Fuel injection pumps when operational, indication to be provided.
7. Maximum speed protection system (max 10C rpm)
8. Engine hours counter meter.

x. Training is to be provided to the ship staff to operate and level 1 & 2 maintenance.

y. System should be supportable for next 10 years.

z. Firm will provide complete list of spares.

aa. Requirement of external services, if required will be responsibility of firm.

ab. All spares (must be genuine) tools special equipment /accessories required for said Repair/ Maintenance are to be arranged by the firm.

ac. Any damage/ defect/wear tear occurred during course of removal, repair and installation of system/equipment will be repaired /met by firm.

		ag. The firm will be responsible for all removal, transportation and installation work during warranty/ guarantee periods claims in case of any rework.
11	Technical spec	<p>a. 04 x throttle control lever at MCR</p> <p>b. 04 x semi control lever at MCR</p> <p>c. 04 x throttle control lever at Bridge</p> <p>d. 04 x semi control lever at Bridge</p> <p>e. 04 x monitoring panels at MCR</p> <p>f. 04 x monitoring panels at Bridge</p> <p>g. Calibration/ synchronizing of throttle semi control and monitoring system with engine RPM.</p>
12	Eligibilities	<p>a. The firm must visit onboard and carry out diagnoses/inspections to establish the extent of required work.</p> <p>b. The firm must have sufficient experience of similar kind of work and experienced.</p> <p>c. The firm should be NTN /GST registered.</p>
13	EDC	01 Months after issuance of work/confirmation order.
14	Warranty	<p>a. 01 Year after acceptance.</p> <p>b. Firm will also provide a "guarantee certificate" for provision of spares parts for 10 years after successful installation of the system.</p> <p>c. Firm will provide instructional manual, maintenance manual and part catalogue.</p>
15	Acceptance criteria	Satisfactory operation of the system (HATs/ SATs) and acceptance by the ship staff.

**IT SPECIFICATION FOR REPAIR/ REPLACEMENT OF HERMETICALLY SEALED
COMPRESSOR NO. 1 – PMSS DASHT**

S No.	Description	
1.	Parent Equipment	Air Conditioning System JTLS-168 (IV) Marine Light Water Chiller
2.	Sub Equipment	Compressor No. 1
3.	Assembly component	Hermetically Sealed Compressor (Model ZR190KCE-TFD with Oil Heater) Part No. 06.01.057
4.	Make	Jiangsu Josun Air Conditioner Co., Ltd
5.	Model	JTLS-42 (I) Water Chiller Module
6.	Qty	01
7.	Justification	Compressor No 1 defective
8.	Work req/ Defect	Installation/ replacement of 01 x hermetically sealed compressor
9.	Detailed Scope of Work	a. Replacement of 01 x Hermetically Sealed Compressor b. Inspection/ repair/ replacement of Condenser, Heat Exchanger and Expansion Valves c. Replacement of LP/ HP safeties and Water Flow Switch with new (OEM specified only) d. Provision of R-404A gas by firm during and with in warranty period e. Replacement of 02 x flexible pipes (pressure hoses) f. Replacement of 01 x Magnetic Contactor (LC1-D32M7C) along with Overload Relay (LRD-32C) and Auxiliary contacts g. System Gas charging (R-404A) by contractor for test/ trials or if leakage observed in warranty period h. Inspect/ repair/ replace Controller Module (CPU226 CN (6ES7216-2BD23-0XB6) of AC Circuit and programming of CPU module j. Satisfactory full load test/ trials upto command satisfaction k. All tools and test equipments or any spares required to conduct said scope of work will be arranged by firm/ contractor and no growth work will be acceptable l. System will be pre checked before start of work. All work including system isolation, blanks (if required), cleaning, servicing, dismantling and reassembling upto ship staff standard will be responsibility of firm.
10.	Technical specs (if any)	As per OEM Manual/ Specs
11.	Eligibilities	Reputable local contractor having working experience of Chiller Plant repairs onboard MPVs
12.	EDC	05 x Days
13.	Warranty	Two Years compressor warranty after satisfactory test/ trials. All leakages or pinholes in the circuit within warranty period will be rectified by firm with charging of gas and/ or replacement of any parts/ spares if needed with in whole warranty period
14.	Acceptance Criteria	a. OEM Certified spares only (as mentioned with part numbers) b. Upon scrutiny of item and provided documents i.e. technical specifications c. Satisfactory operation without high vibration and noise. d. Satisfactory operation without refrigerant leakage.
15.	Any other Information	Contact SS/ visit onboard for clear understanding of scope of work.

**IT SPECIFICATION FOR REPAIR/ REPLACEMENT OF HERMETICALLY SEALED COMPRESSOR NO.4
– PMSS DASHT**

S No.	Description	
1.	Parent Equipment	Air Conditioning System JTLS-168 (IV) Marine Light Water Chiller
2.	Sub Equipment	Compressor No. 4
3.	Assembly component	Hermetically Sealed Compressor (Model ZR190KCE-TFD with Oil Heater) Part No. 06.01.057
4.	Make	Jiangsu Josun Air Conditioner Co., Ltd
5.	Model	JTLS-42 (I) Water Chiller Module
6.	Qty	01
7.	Justification	Compression chamber/ pump is providing insufficient compression to the compressor resulting in higher current draw and tripping of compressor no 4
8.	Work req/ Defect	Installation/ replacement of 01 x hermetically sealed compressor
9.	Detailed Scope of Work	a. Replacement of 01 x Hermetically Sealed Compressor b. Inspection/ repair/ replacement of Condenser, Heat Exchanger and Expansion Valves c. Replacement of LP/ HP safeties and Water Flow Switch with new (OEM specified only) d. Provision of R-404A gas by firm with in warranty period e. Replacement of 02 x flexible pipes f. Replacement of 01 x Magnetic Contactor (LC1-D32M7C) along with Overload Relay (LRD-32C) and Auxiliary contacts g. System Gas charging (R-404A) by contractor for test/ trials or if leakage observed in warranty period h. Inspect/ repair/ replace Controller Module (CPU226 CN (6ES7216-2BD23-0XB6) of AC Circuit j. Satisfactory full load test/ trials upto command satisfaction k. All tools and test equipments or any spares required to conduct said scope of work will be arranged by firm/ contractor and no growth work will be acceptable l. System will be pre checked before start of work. All work including system isolation, blanks (if required), cleaning, servicing, dismantling and reassembling upto ship staff standard will be responsibility of firm.
10.	Technical specs (if any)	As per OEM Manual/ Specs
11.	Eligibilities	Reputable local contractor having working experience of Chiller Plant repairs onboard MPVs
12.	EDC	05 x Days
13.	Warranty	Two Years compressor warranty after satisfactory test/ trials. All leakages or pinholes in the circuit within warranty period will be rectified by firm with charging of gas and/ or replacement of any parts/ spares if needed
14.	Acceptance Criteria	a. OEM Certified spares only (as mentioned with part numbers) b. Upon scrutiny of item and provided documents i.e. technical specifications c. Satisfactory operation without high vibration and noise. d. Satisfactory operation without refrigerant leakage.
15.	Any other Information	Contact SS/ visit onboard for clear understanding of scope of work.

**IT SPECIFICATION STORE ITEMS REQUIRED FOR REPAIR/ MAINTENANCE OF ADMIN
BLOCK AND LAUNDRY ROOF – PMSA BASE GWADAR**

S No	Specification	Remarks																																													
1.	Ship's Name	PMSS NAZIM/ PMSA BASE GWADAR																																													
2.	Parent Equipment	-																																													
3.	Sub Equipment	-																																													
4.	Assembly Component	-																																													
5.	Make	-																																													
6.	Models	-																																													
7.	Qty	02																																													
8.	Justification i.e PMSA/ Failure/ FWT etc	The Admin block and laundry roof severely defected by heavy rainfall in March 24, repair/ maintenance work required.																																													
9.	Work Required/ Defect	Following store items required for repair/ maintenance of roof <table border="1"> <thead> <tr> <th>S No</th><th>Description</th><th>Qty</th></tr> </thead> <tbody> <tr> <td>a.</td><td>Sand for Admin Block and Laundry Roof</td><td>06 x Dumper</td></tr> <tr> <td>b.</td><td>TR-Garder</td><td>21 (10 ft)</td></tr> <tr> <td>c.</td><td>Cement Bags</td><td>200 Bags</td></tr> <tr> <td>d.</td><td>Floor Tiles for Admin Block <i>like tile?</i></td><td>970 in Nos</td></tr> <tr> <td>e.</td><td>Distemper</td><td>10 x Buckets</td></tr> <tr> <td>f.</td><td>Oil Paint</td><td>45 x Liters</td></tr> <tr> <td>g.</td><td>Cupboard</td><td>05 (6x3 ft)</td></tr> <tr> <td>h.</td><td>Fans</td><td>08 in No</td></tr> <tr> <td>i.</td><td>Lights</td><td>16 in No (24V)</td></tr> <tr> <td>j.</td><td>Complete Roof Ceiling Work 2240 Sq Ft required</td><td>01</td></tr> <tr> <td>k.</td><td>Electric Wiring Works</td><td>300 Mtrs</td></tr> <tr> <td>l.</td><td>Installation of Wallpaper</td><td>05 Offices</td></tr> <tr> <td>m.</td><td>Installation of Window 5/4 Ft</td><td>05 in No</td></tr> <tr> <td>n.</td><td>Asbestos Sheets</td><td>40 in No (Dia 06 ft Length 3.5 ft)</td></tr> </tbody> </table>	S No	Description	Qty	a.	Sand for Admin Block and Laundry Roof	06 x Dumper	b.	TR-Garder	21 (10 ft)	c.	Cement Bags	200 Bags	d.	Floor Tiles for Admin Block <i>like tile?</i>	970 in Nos	e.	Distemper	10 x Buckets	f.	Oil Paint	45 x Liters	g.	Cupboard	05 (6x3 ft)	h.	Fans	08 in No	i.	Lights	16 in No (24V)	j.	Complete Roof Ceiling Work 2240 Sq Ft required	01	k.	Electric Wiring Works	300 Mtrs	l.	Installation of Wallpaper	05 Offices	m.	Installation of Window 5/4 Ft	05 in No	n.	Asbestos Sheets	40 in No (Dia 06 ft Length 3.5 ft)
S No	Description	Qty																																													
a.	Sand for Admin Block and Laundry Roof	06 x Dumper																																													
b.	TR-Garder	21 (10 ft)																																													
c.	Cement Bags	200 Bags																																													
d.	Floor Tiles for Admin Block <i>like tile?</i>	970 in Nos																																													
e.	Distemper	10 x Buckets																																													
f.	Oil Paint	45 x Liters																																													
g.	Cupboard	05 (6x3 ft)																																													
h.	Fans	08 in No																																													
i.	Lights	16 in No (24V)																																													
j.	Complete Roof Ceiling Work 2240 Sq Ft required	01																																													
k.	Electric Wiring Works	300 Mtrs																																													
l.	Installation of Wallpaper	05 Offices																																													
m.	Installation of Window 5/4 Ft	05 in No																																													
n.	Asbestos Sheets	40 in No (Dia 06 ft Length 3.5 ft)																																													
10.	Detailed Scope of Work	Repair/ Maintenance work required at PMSA Base Gwadar																																													
11.	Technical Specifications	<ul style="list-style-type: none"> Length of admin block roof 70 ft Width of admin block roof 32 ft Length of laundry roof 16 ft Width of laundry roof 15 ft Laundry Roof area 240 sq ft 																																													
12.	Eligible Criteria	Any local/ international well reputed firm having experience for repair/ maintenance of buildings																																													
13.	EDC	30 days																																													
14.	Warranty	01 Year																																													
15.	Acceptance Criteria	Inspection by end user and successful trials after installation																																													
16.	Any other relevant information	POC: Lt Shahid Noor PN (OI/C Gwadar Base) Phone # 0334-5329101																																													

PMSS KASHMIR

**IT SPECIFICATION: CONDUCT OF PMS ROUTINE RELATED TO ELECTROMAGNETIC
STARTER CONTROL BOX**

1	System	CPP & Gearbox						
2	Sub system	Electromagnetic Starter						
3	Assembly Component	Controller Box						
4	Make	Shanghai Marine Diesel Engine Research Institute, CSIC						
5	Model	SAL-13						
6	Quantity	02 (Port & Stbd)						
7	Justification i.e PMS/ Failure/ FWT etc	PMS Routines (No: 5-3101-001)						
8	Work Required/ Defect	Conduct of Misc PMS routines related to Electromagnetic Starter Control Box						
9	Scope of Work	<table border="1"> <thead> <tr> <th>S No</th><th>Description</th><th>MOP</th></tr> </thead> <tbody> <tr> <td>a.</td><td>Device Overhaul</td><td>005</td></tr> </tbody> </table> <p>Note:</p> <ul style="list-style-type: none"> Spares required to conduct the routines will be provided by firm. Any growth work will be bear by firm. Any wear & tear during conduct of routine will be bear by firm. 	S No	Description	MOP	a.	Device Overhaul	005
S No	Description	MOP						
a.	Device Overhaul	005						
10	Technical Specs	As per relevant TPIs & JICs						
11	Eligibility Criteria	<ul style="list-style-type: none"> a. Have experience to work onboard ships (preferably PMSA ships). b. Company must be certified with HQ PMSA. c. Company must be Income and Sales tax registered 						
12	EDC	15 x Days						
13	Warranty	01 x Years						
14	Acceptance Criteria	Satisfactory trials of CPP and Gearbox from local and remote for 15 Days at sea						
15	Any other relevant information	Firm must visit onboard before providing quotation to verify exact scope of work as per JIC (Contact: 0321-3000503)						

IT NO: IT/50/35/2024-25

D(MT)

IT SPECIFICATION COMERCIAL REPAIR CASE OF VEHICLE NO 100306 MS TOYOTA AMBULANCE

1	SYSTEM	COMERCIAL REPAIR	
2	MAKE	TOYOTA AMBULANCE	
3	MODEL	2010	
4	VEHICLE NO	100306 MS	
5	ITEM DESCRIPTION	Following items will be repair/replaced	
		S No	Work Description
		a.	Roof repair through three layer fiber coating
		b.	Complete dent paint work
		c.	Sliding door lock and diggi lock replacement. With new, 02x Doors inner fiber sheets required new.
		d.	Fuel Pump service, new injector set, and fuel pipes, diesel filter, oil filter, a replacement with new
		e.	Suspension work through replacement of new parts as necessary
		f.	A/C complete maintenance work (compressor, condenser, A/C fan motor, 02x cooling coils, suction and discharge line replacement as necessary)
		g.	Speedometer, temperature gauge, oil pressure gauge, battery gauge and wiring repair/ maintenance through replacement
		h.	Ambulance warning light with hooter/siren replacement with new
		i.	Steering box and steering rack repair work
		k.	Brake shoes, brake pads and disc replacement
		l.	Wheel alignment and greasing, scanning of vehicle with computer
m.	Complete interior cleaning and service		
6	TECHNICAL SPECIFICATINOS	MATERIAL AS PER EXISTING	
7	PRELIMINARY INVESTIGATION BY SHIP'S STAFF	D(MT) / MTO STAFF	
8	ELIGIBILITY	REGISTERED CONTRACTOR	
9	EDD	30 DAYS	
10	WARRANTY	WARRANTY 12 MONTHS	
11	ACCEPTANCE CRITERIA	STAGE INSPECTION BY END USER	

IT NO: IT/50/36/2024-25

HQ PMSA SO IT (CYC)

IT SPECIFICATION FOR COMPUTER

S.No	Description	Remarks
1.	System	HP/ Dell or equivalent
2.	Make	HP/DELL
3.	Model	Any
4.	Quantity	10 in No
5.	Technical Specifications (if any)	<p>Processor Intel CORE i5-12th Processor</p> <p>Processor speed 1.9 GHz or above</p> <p>Memory 16 GB RAM</p> <p>Hard disk Drive SSD Drive(01 TB)</p> <p>Display ports HDMI,DP and VGA</p> <p>DVD RW DVD/RW DRIVE</p> <p>LED 24 inch LED or equivalent</p> <p>Accessories IR Mouse, Mouse Pad, Keyboard</p>
6.	Eligibilities	Have relevant experience on purchasing of Computers.
7.	Warranty	01 year replacement warranty for Computers alongwith accessories.
8.	Acceptance Criteria (if any)	<p>a. Satisfactory test/ trials after installation onboard</p> <p>b. Relevant diagrams/ documents to be provided</p> <p>c. Relevant specifications as per IT</p>
9.	EDC	02 weeks after award of contract
10.	Any other relevant information	SS may be contacted for any further query/ requirement.

IT NO: IT/50/37/2024-25

D(MT)

IT SPECIFICATIN COMERCIAL REPAIR CASE VEHICLE NO 070315 MS SUZUKI PICK UP

1.	SYSTEM	COMERCIAL REPAIR																																		
2.	MAKE	SUZUKI PICK UP																																		
3.	MODEL	2007																																		
4.	VEHICLE NO	070315 MS																																		
5.	ITEM DESCRIPTION	Work Description <u>Following items will be repair/replaced:</u> <table><tr><th>S No</th><th>Work Description Repair/Replace</th></tr><tr><td>a</td><td>Front and back cabin with hood replacement with new</td></tr><tr><td>b</td><td>Replacement of cabin and rear seats and covers with new</td></tr><tr><td>c</td><td>Engine major overhaul</td></tr><tr><td>d</td><td>Replacement of wiring with new</td></tr><tr><td>e</td><td>Speedometer temperature gauge and sensor replacement</td></tr><tr><td>f</td><td>Wiper motor, wiper blades and wipers assembly replacement with new</td></tr><tr><td>g</td><td>Hand brake cable new</td></tr><tr><td>h</td><td>Air filter, hose casing, fuel filter & oil filter</td></tr><tr><td>i</td><td>Accelerator pedal, cable and, clutch wire replacement new</td></tr><tr><td>k</td><td>Head light assembly with new headlights replacement</td></tr><tr><td>l</td><td>Spark plug, ignition coil & distributor replacement with as required</td></tr><tr><td>m</td><td>Generator and self replacement</td></tr><tr><td>n</td><td>Radiator new required</td></tr><tr><td>p</td><td>Brake shoes new</td></tr><tr><td>q</td><td>Silencer replacement with new</td></tr><tr><td>r</td><td>Service, interior cleaning</td></tr></table>	S No	Work Description Repair/Replace	a	Front and back cabin with hood replacement with new	b	Replacement of cabin and rear seats and covers with new	c	Engine major overhaul	d	Replacement of wiring with new	e	Speedometer temperature gauge and sensor replacement	f	Wiper motor, wiper blades and wipers assembly replacement with new	g	Hand brake cable new	h	Air filter, hose casing, fuel filter & oil filter	i	Accelerator pedal, cable and, clutch wire replacement new	k	Head light assembly with new headlights replacement	l	Spark plug, ignition coil & distributor replacement with as required	m	Generator and self replacement	n	Radiator new required	p	Brake shoes new	q	Silencer replacement with new	r	Service, interior cleaning
S No	Work Description Repair/Replace																																			
a	Front and back cabin with hood replacement with new																																			
b	Replacement of cabin and rear seats and covers with new																																			
c	Engine major overhaul																																			
d	Replacement of wiring with new																																			
e	Speedometer temperature gauge and sensor replacement																																			
f	Wiper motor, wiper blades and wipers assembly replacement with new																																			
g	Hand brake cable new																																			
h	Air filter, hose casing, fuel filter & oil filter																																			
i	Accelerator pedal, cable and, clutch wire replacement new																																			
k	Head light assembly with new headlights replacement																																			
l	Spark plug, ignition coil & distributor replacement with as required																																			
m	Generator and self replacement																																			
n	Radiator new required																																			
p	Brake shoes new																																			
q	Silencer replacement with new																																			
r	Service, interior cleaning																																			
6.	TECHNICAL SPESIFICATINOS	MATERIAL AS PER EXISTING																																		
7.	PRELIMINARY INVESTIGATION BY SHIP'S STAFF	D(MT) / MTO STAFF																																		
8.	ELIGIBILITY	REGISTERED CONTRACTOR																																		
9.	EDD	30 DAYS																																		
10.	WARRANTY	WARRANTY 12 MONTHS																																		
11.	ACCEPTANCE CRITERIA	STAGE INSPECTION BY END USER																																		

**IT SPECIFICATION FOR REPAIR/ REPLACEMENT OF BARREL COOLING SYSTEM 37MM GUN
- PMSS BARKAT**

S.NO	IT SPECIFICATION	
1.	Ship's Name	PMSS BARKAT
2.	Parent equipment	37 MM GUN
3.	Sub equipment	37 MM GUN Barrel Cooling System
4.	Assembly component	Pipes/ Joints/ Flexible pipes/ Control valve
5.	Make	PAKISTAN
6.	Model	N/A
7.	Quantity	02 x control valves, flexible pipes, hose x 50m, jubilee clamps x 12 in number.
8.	Justification i.e PMS/ Failure/ FWT etc	FWT
9.	Work require/ defect	Repair/ replacement of 37MM gun barrel cooling system.
10.	Detail scope of work	a. Replacement of flexible pipes/ hose for 37mm gun barrel cooling system. b. Replacement of control valves and all jubilee clumps. c. Successful operations of barrel cooling system. d. All spare tools, special equipment/ tools accessories etc for fabrication/ installation of barrel cooling system are to be arranged by the firm. e. Dismantling, assembling transportation will be responsibility of the firm. f. Any other work required to ensure good quality and optimum performance of the barrel cooling system. g. All in way work will be undertaken by the firm. h. The firm will be responsible to undertake any work not covered above for repair/ replacement of barrel cooling system.
11.	Technical specification (if any)	a. Flexible hoses branded company. b. Joints & jubilee clumps must be of SS material. c. Control valves of branded company.
12.	Eligibility criteria	a. As per TSR. b. The firm should visit onboard and access the extend of required work and understand exact nature of defect before quotation. c. The firm should having good experience to repair/ maintenance/ replacement of such system/ equipment. d. The firm should be NTN/ GST registered.
13.	EDC	02 x week after issuance of work order
14.	Warranty	01 Year.
15.	Acceptance criteria (if any)	Satisfactory trials after installation in at harbor and at sea.

PMSS HINGOL

IT SPECIFICATIONS

No	Description	
1.	Ship	PMSS HINGOL
2.	Parent Equipment	GENSET
3.	Sub Equipment	Fuel Injection System
4.	Assembly Component	06 x Fuel Injectors
5.	Model	C9Z05164
6.	Make	Caterpillar C9 Marine GENSETs
7.	Quantity/Item Details	N/A
8.	NSN/ Part Number	387-9440/20R-8070
9.	Justification	Frequency drop is observed when GENSET No'3 is put on load above 35%.
10.	Work required/Defect	Servicing/overhauling of 06 x fuel injectors
11.	Scope of work	a. Servicing overhauling of fuel injectors set along with replacement of defective seals. if required followed by successful testing. b. Repairing or replacement of defective/ lose injectors connector assembly c. Replacement of injector harness d. Installation of injectors on any of the GENSET e. Onboard trials on 80% load. f. Oil and oil filter contaminated during trials due to dilution will be provided by the firm.
12.	Technical Specifications	a. Bore: 120 mm b. Stroke: 149 mm c. Aspiration: Turbocharged After cooled d. Flywheel rotation: Counterclockwise e. Power: 200 kW f. Compression: 16.1:1
13.	Eligibility Criteria	a. Any registered and security wise cleared local contractor who has working experience onboard 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	01 Year
16.	Acceptance Criteria	a. Satisfactory Test/ Trials of fuel injectors on any of the 3 GENSET up to at least 80% load up to 24 hours. b. Temperature to be monitored within standard limit upto 80% load

IT SPECIFICATIONS FOR OVERHAULING OF AFT HPAC AND CONDUCT OF PMS ROUTINE FOR OVERHAULING OF 08 X DRAIN VALVES - PMSS KOLACHI				
1.	Parent Equipment	High Pressure Air Compressors		
2.	Sub Equipment	Compressor Unit		
3.	Assembly Equipment	Drain Valves.		
4.	Make	Wuhan Mekand		
5.	Model	MKD-50/150		
6.	Required Quantity	S.No	Part Number/Model	Quantity
		a.	N2720	4
		b.	N4177	4
		c.	57628	2
		d.	N3489	4
		e.	N2507	4
		f.	56887	2
		g.	N4178	4
		h.	N7901	2
		i.	57629	2
		j.	56691	2
7.	Justification	Replacement of above mentioned items is required for HPAC Drain Valves		
8.	Detailed scope of work	1. Overhauling of 08 x drain valves through replacement of above mentioned parts/ items followed by satisfactory trials 2. Aft HPAC operation at optimum performance at 150 Bar and charging of bottles in OEM defined time frame		
9.	Technical specification	As per OEM specifications/ Manual		
10.	Eligibility Criteria	Reputable local/ international contractor having working experience with PMSA		
11.	EDD/ EDC	15 Days after award of contract		
12.	Warranty	01 Year		
13.	Acceptance Criteria (if any)	a. OEM Certified item b. Technical specifications should be mentioned c. Upon scrutiny of items and provided documents along with production certificate by OEM		
14.	Any other relevant information	Contact MEO (0333-8948563)		

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

IT SPECIFICATION: REPAIR/ REPLACEMENT OF MISC EQUIPMENTS – PMSS KASHMIR		
1.	Ship's Name	PMSS KASHMIR
2.	Parent Equipment	Crane, Bilges Valve Mechanism, Gauges and Firefighting Hose
3.	System	Misc
4.	Sub equipment	Misc
5.	Make	Misc
6.	Model	Misc
7.	Quantity	06
8.	NSN/ Part No	N/A
9.	Justification	FVT
10.	Work Required/ Defect	As per para 9
11.	Detailed Scope of Work	Following work to be undertaken: a. Repair of remote operating lever and hand pump of 02 tons crane b. Repair of electrical mechanism of bilges valves PCB c. Replacement of level sensor of fresh water tank no.4 d. Replacement of 6 x gauges of misc parameter e. Replacement of 2 x firefighting hoses f. Replacement of regent water hardness H1 & H2 and chloride CL 1, CL2 & CL2
12.	Technical Specs	As per TPI
13.	Eligibility Criteria	a. Have experience to work for ship (preferable PMSA ships) b. Company must be certified with HQ PMSA c. Company must be income and sale tax registered
14.	EDC	10 x Days after award of contract
15.	Warranty	01 x years
16.	Acceptance Criteria (if any)	After successful trials of all systems
17.	Any other relevant information	SS contact: (0321-3000503)

IT SPECIFICATION: REPAIR/ REPLACEMENT OF FWD ENGINE ROOM DECK PLATES		
1.	System	Engine Room deck
2.	Parent Equipment	Deck Plates
3.	Sub system	Deck plates
4.	Assembly Component	Deck plates
5.	Make	CSSC Huangpu Wenchong Shipbuilding Co.Ltd
6.	Model	N/A
7.	Quantity	190 plates
8.	NSN/ Part No .	N/A
9.	Justification	FWT
10.	Work Required/ Defect	Repair/ replacement and denting/ painting of Fwd Engine Room Deck Plate
11.	Scope of Work	Following work to be undertaken: a. Removal of old deck plates b. Clearing of plates c. Repair/ replacement of defective plates d. Installation of defective locking mechanism on plates e. Adjustment of already installed fitting/ equipment of engine room deck f. Denting/ Painting of deck plates g. Any growth work will be bear by firm
12.	Technical Specs	As per installed specification
13.	Eligibility Criteria	a. Have experience to work onboard ship (preferably PMSA SHIP) b. Company must be certified with HQ PMSA c. Company must be income and sale tax registered
14.	EDC	30 Days after confirmation of order
15.	Warranty	01 x years
16.	Acceptance (if any) Criteria	Upon physical inspection and satisfaction by SS
17.	Any other relevant information	Firm must visit onboard before providing quotation to verify exact scope of work (Contact: 0321-3000503)

Note: 100% Payment after completion by CNA

INVITATION TO TENDER GENERAL INSTRUCTIONS

1. CONDITIONS GOVERNING CONTRACT:

Director General

Pakistan Maritime Security Agency Plot No 34-A, Dockyard Road KARACHI

Telephone 021-48509194

Fax 99214625

E-Mail dpcc@pmsa.gov.pk

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

2. SUBMISSION OF TENDER:

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

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

b. **COMMERCIAL OFFER:** The price be quoted in figures as well as in words along with essential Literature / Brochures. The word "Commercial Offer", tender number should be clearly mentioned on the envelope. Taxes, duties, freight / transportation, insurance charges etc if any are to be indicated separately. Total price of the items quoted against the tender is 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 along with changed offer / conditions. Tender may however be liable to be rejected.

PREPARATION OF QUOTATION

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

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

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

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

Without this format quotation will not be accepted.

3. DATE AND TIME FOR RECEIPT OF TENDER:

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

4. TENDER OPENING:

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

5. VALIDITY OFFER:

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

6. QUOTING OF RATES:

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

S No	Description	Qty	U/Price	GST/SST/Taxes	Total
Price					

7. ATL / GST/ SST/ INCOME TAX NUMBER:

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

8. RETURN OF EARNEST MONEY:

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

9. TENDER FEE:

Each technical offer must be accompanied with a Pay Order or Cash of **Rs.1,000/-** nonrefundable as tender fee (In favour of IT Sale Account DG PMSA).

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.

CONDITION OF STORES:

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

11. DOCUMENTS REQUIRED:

Following documents are required to be submitted along with the quotes where applicable:

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

12. SECURITY DEPOSIT / BANK GUARANTEE:

To ensure timely and correct supply of stores the firm will furnish an unconditional Bank Guarantee (BG) from a schedule bank for an amount of **10%** of the contract value (excluding taxes, duties / freight handling charges on a stamp paper of the value of (Rs.100/00) as per prescribed format in the shape of Bank Guarantee. Format of Bank Guarantee is at Annex „B“.

13. 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.

14. INTEGRITY PACT:

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

15. 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.

16. 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.

17. 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.

18. 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.

19. PRICE VARIATION:

Price offered against IT are to be firm and final.

20. 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.

21. 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.

22. 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.

23. 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).

24. PAYMENT:

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

25. **PARTIAL ORDER.** All participating firms are to comply acceptance of partial order.

26. **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. Manufacturer's relevant Brochures and technical details on major equipment, assemblies are not attached in support of specification.
- h. Offers (Technical / Commercial) are containing amendments / corrections / overwriting etc.
- j. National Tax No (NTN) and GST/SST No are not indicated on technical and commercial offer.
- k. If validity of offer is not quoted as required in IT or made subject to confirmation later.
- l. Offer is made through Fax & E-Mail etc.
- m. If offer is found to be based on cartel action in connivance with other sources / participants of the tender.
- n. If OEM and Principal name and complete address is not mentioned.
- p. If firm's reference number not mentioned on quote.
- q. If firm's not comply acceptance of partial supply/ work.