SEPRATE QUOTATIONS REQUIRED FOR ATTACHED 45 x IT SPECIFICATIONS

IT NO: IT/47/01/2024-25

	BASOL					
S No.	Description					
1.	Parent Equipment	CAT C9 Marine Genset No. #1 &2. 7				
2	Sub-equipment	LOP control system				
3.	Assembly equipment	DEIF Control module				
4.	Make	DEIF				
4. 5. 6. 7.	Model	1024107.0008				
6.	Quantity	02				
	Justification	SSDG operational parameters and controls partially available as deceived configuration on DIEF.				
B. D.	Work required/ Defect	Repair of software of DEIF control module.				
	Scope of work	Repair of software of DEIF control module including following: a. Repair of software of DEIF control module. b. Integration of software with existing system onboard. c. Removal and installation of in way accessories cables and connections. d. Sotisfactory trials of SSDGs.				
10.	Technical Specifications	As per OEM/ Technical manual.				
11. 12. 13.	Eligibility criteria	OEM authorized Rep having experience of CAT C9 DG;s				
12.	EDC	03 days				
13.	Warranty	01 year after Satisfactory load trials of DG's				
14.	Acceptance criteria	OEM Certified spares be used. Technical specifications of item along with tech manual and document to be provided by contractor. Satisfactory operation of SSDG's DIEF control system.				

IT NO: IT/47/02/2024-25

S.No	Description	
1.	Parent equipment	STED RHIB
2.	Sub equipment	Engine (Yanmar 4LHP-STP), Stern drive unit
3	Assembly component	
4	Model	4LHA-STP MerCruiser II OW900028
5	Marco	Yanmar/ Mercury
3.	City	01
7.	Justification	-Eligine not achieving desired ERPM
75	Work required/Defect	a. Inspection/ servicing and testing of injectors.
	The state of the s	b Chemical cleaning of intercooler
		c Inspection of turbocharger and servicing
		d Replacement of shaft bearing
(2)	Scope Of Work	a. All accessories to be removed by the firm.
		 Removal of fuel injectors for servicing/ repairing and adjustment.
		 Turbo charger to be checked for fear wear and tear.
		d. Intercooler to be dismantled for chemical cleaning.
		e. Fuel pump to be serviced. f. Inspection of stem drive unit.
		g Tappet clearance to be adjusted. h Shaft bearing inside coupler to be dismantled and repaired.
		All accessories to be fitted back by the firm after repair.
-		k. Growth work will be responsibility of firm. To avoid complications on
		later stage firm is to be visit before quoting for understanding removal/
		installation and maintenance scope
30	Technical	No of cylinder Dit
	specifications	Bore a stroke (mm) 100 a 110
	THE STATE OF THE S	Injection system Direct injection
		Rotation Counter-clockwise
		Starting system Electric (24V DC)
		High idling RPM 3700
		Low iding RPM 750
3.1	Eligibility criteria	a Reputable local contractor having working experience of stern drive
		unit related activity in PMSA
		 Firm must visit site for understanding exact nature of work.
12.	EDC	14 Days
13.	VVarranty	1-year
14.	Acceptance Criteria	a Satisfactory harbor trails of boat upto maximum Engine RPMs (#
		3900
-		b Satisfactory operation without increased noise, vibration & leakage.
15.	Any other information	Growth work or damage/ defect occurred during work is responsibility of
		contractor

IT NO: IT/47/03/2024-25

IT SPECIFICATIONS FOR REPAIR/ REPLACEMENT OF RUBBER SEALS, HANDLES AND HINGES OF WATER TIGHT DOORS AND HATCHES - PMSS ZHOB

S.No	Description	
1	Parent equipment	Water Tight Doors and Hatches
2	Sub equipment	Rubber seals, Handles and Hinges
3.	Assembly component	TO SERVICE STATES OF THE PROPERTY OF THE PROPE
4	Model	N/A
5	Make:	N/A
5.	City	Rubber seals, handles and hinges of 7 x doors and 11 x hatches.
7	Justification	Locking mechanism and cross-sectional hinges of 7 x doors and 11 x hatches have been observed deteriorated, recessitating repairs replacement of defective rubber seals, handles and hinges as periodsed list.
	Work required/Defect	Repair replacement of rubber seals, handles and hinges of water tight doors and hatches.
2.	Scope Of Work	Contractor is to visit ship and carry out detailed inspection of water tight doors and hatches. Repair/ replacement of rubber seals, handles and hinges of water tight doors and hatches.
10.	Technical specifications	Marine standard
1.7.	Eligibility criteria	Reputable local contractor having experience of working on doors and hatches of ship.
12	EDC	10 days
13.	Warranty	1-year
4.	Acceptance criteria	a. Onboard fitting of rubber seals followed by chalk test. b. Repair/ replacement of door/ hatches handles. c. Repair/ replacement of cross-sectional hinges.
5	Any other information	Growth work, damage/ defect occurred during work is responsibility of contractor

IT NO: IT/47/04/2024-25

IT:	SPECIFICATION FOR R	EPAIR/ REPLACEMENT OF MAIN ENGINE NO 2 RAW WATER	1
34100		PUMP - PMSS ZHOB	
S.No	Description		
1	Parent equipment	MTU Main Engines	
2	Sub equipment	Seawater System	
3	Assembly component	Raw Water Pump	
	And the state of t	F-1997 / 1	

S.No	Description	Description				
1	Parent equipment	MTU Main Engines				
2	Sub equipment	Seawater System				
3	Assembly component	Raw Water Pump				
ā.	Model	MTU				
5	Make	MTU Germany				
6	Qty -	01				
7	Justification	Upon inspection of Raw Water Pump of ME 2 impeller and pump assembly was found in deteriorated condition.				
8	Work required/Defect	Repair/ Replacement of seawater pump				
8	Scope Of Work	Dismantling/ Assembling of 1 x Main Engine (ME No 2) seawater pump by contractor				
		 All degraded/ defective components to be replaced with OEM spare parts 				
		c. Replacement of gld mechanical seal with high quality				
		mechanical seal				
		d Fabrication of brass impelier				
		e. Inspection of pump shaft				
10	Technical specifications	As per OEM manual				
11	Eligibility criteria	a Authorized rep of OEM Local contractor having working				
	sagemy same	experience on pumps and impeller. Contractor is to visit the ship in order to understand the scope of work. b. Firm must visit site for understanding exact nature of work.				
12	EDC	As-Sean As-Possible 15 days d				
13	Warranty	1-year warranty for satisfactory operation of seawater pump without following defects				
		a Seawater leakage from pump				
		b Decreased discharge pressure due to worn out impeller				
14	Acceptance Criteria	a Satisfactory harbor trails followed by successful sea trials of main Engines Raw water pumps on rated parameters b Satisfactory operation without increased noise vibration & leakage.				
15.	Any other information	Growth Work Damager defect occurred during work is responsibility of contractor				

IT NO: IT/47/05/2024-25

IT SPECIFICATION REPAIR/ REPLACEMENT OF EXHAUST ELBOWS OF MAIN ENGINES NO 1 & 2

		PMSS ZHOB			
S.No	Description				
1.	Parent equipment	MTU Main Engines			
3	Sub equipment	Main Engine Exhaust system			
	Assembly component	Exhaust Elbows			
4.	Model	16 V 4000 M73L			
5.	Make	MTU Germany			
6	Qty	02 (Exhaust Elbows Mild Steel)			
7.	Justification	02 X Main Engines Exhaust Elbows Mild steel found degraded. Seepage observed from Exhaust elbows due to deterioration.			
8.	Work required/Defect	Repair/ replacement of ME 1 & 2 Exhaust Elbows			
9	Scope Of Work	a Removal of cladding lagging and heat protective sheets from both elbows by the firm b Removal of exhaust elbows by the firm c Repair/ replacement of exhaust elbows by the firm with mild steel material d The pressure test of exhaust expansion bellows be undertaken at 5 bar e Exhaust elbow be installed back with insulating gaskets on both exhaust elbows f Elbow to be welded with bulkhead, from inside and outside during installation. g The Mild steel studs/ Nut bolts on both elbow flanges for installation. h After installation of exhaust elbow, successful onboard trials on running Engine by the firm Arrangement of all tools and test equipment required during dismantling/assembling by the firm k Sole responsibility of firm in case of growth work to avoid complications			
10	Technical specifications	on later stage. Firm be directed to visit the ship before quoting for understanding removal/ installation and defect rectification scope. As per OEM Manual			
17	Eligibility criteria				
		Authorized rep of OEM/ Local contractor having relevant working experience Contractor is to visit the ship in order to understand the scope of work			
12	EDC	1 Week			
13	Warranty	1 year			
(Acceptance Criteria	a Pressure test of exhaust elbows at 5 bar to be conducted before installation b No seawater leakage after installation and normal operation of engines c No exhaust gas leakage from both elbows at Max power of main engines i e 2050 RPM d Satisfactory repair/ replacement, installation and operation of exhaust elbows of ME No 1 & 2			
15	Any other information	a Growth Work Damage/ defect occurred during work is responsibility of contractor b Contactor may contact SS/ visit onboard ship to resolve any query			

IT NO : IT/47/06/2024-25 PMSS ZHOB

5 No	Description						
1.	Parent Equipment	IPM 6 Pat	IPM 8 Patient(Cardiac) monitor				
2.	Sub equipment	Main parameter board					
3.	Assembly component	Main parameter board					
4.	Model	IPM 8/IPM 10 (Current Model)					
6.	Make	Shenzher	Mindar	ay Bio-Medical El	ectronics Co. Ltd. C.	riries	
6.	Quantity/item details	Model	OEM	NSN/Part No	Description	Qty	
		IPM B/In	China	P4H	Patient Monitor	1	
7.	Justification	Patient Monitor parameters (NIBP, SPO* ECG, PR) has failed to perform its functions				is failed to	
o.	Work required/ Defect			ual/ Speca			
0.	Scope of work	of all pare	ameters.	(NIBP, SPO" EC	meter board and ci G. PR)	ear error	
10	Technical apecifications	As per te					
11.	Eligibility criteria	Reputable of patient			g relevant working e	sorporer introduce	
12.	EDD			ible (7 Days)			
13.	Warranty	1 Year	1 Year				
14.	Acceptance criteria	examplement pro	onitors		in repairing and se		
15.	Any other Info	Contactor may contact SS/ visit enboard ship to resolve any					

IT NO: IT/47/07/2024-25

IT SPECIFICATIONS OF RECEIVER PCB AND RADAR FRONT END MODULE TRANSAS RADAR SYSTEM - PMSS REHMAT

5 No		IT SPECIFICATIONS
1.	Parent Equipment	TRANSAS RADAR-I
2	Sub equipment	Transperver assembly unit
3	Assembly component	Receiver PCB Scanner PCB and Rader front-En-
	THE RESERVE OF THE PARTY OF THE	Module
-4.	Make	USA/ ITALY/ UK
6	Model	NR-4000
40	Quantity	O1 each
7	Justification Le PMS/ Eallure/EWT etc	Components critically required for operation-ability of Fladar and safe navigation/ Electronic Failure
45.	VVorte Required/ Defect	Repair Replacement and installation of Receive
	Vyork (Kequireo) Defect	PCB Scanner PCB and Radar front-End Module an provision of secondary safety accessories
9	Detailed scope of work	a Repair/ Replacement and installation of Receiver PCB (p/n EB078502301), Scanner PCB and Rader from-End Module (Mod AGM-100 Principal Receiver PCB (p/n EX060802) with new one. b Any accessories/ items required during installation work will be provided by the firm. c Any officer work required to ensure the good quality and optimum performance of work. d Ensuring satisfactory operation of complet system after installation. e Ensuring maximum tune levels of Rader.
10	Technical Space (If any)	220V 50 Hz 24 VDC
11.	Eligibility Criteria	As per TSR The firm should visit onboard and access the extent of required work The firm should be having good experience to repair/maintenance/ replacement of successful to the firm should be NTN/GST registered. The firm should be NTN/GST registered. Plant to provide services for Transas NR-soci Radar for rectification of similar defects related to Transcover unit during warranty period.
12	EDC	15 x working days after mauance of work order
10	Warranty	O1 year

IT NO: IT/47/08/2024-25

IT SPECIFICATIONS FOR PURCHASING OF TELEPHONE SET

FOR DG OFFICE & DDG OFFICE

DESCRIPTION	SPECIFICATIONS
System/ Item	Unify Telephone Set Digital
Model/ Origin	Model No. 14-T & 15-T (01 x Telephone Set each)
Quantity	02
Scope of Work	Provision of 02 x Telephone Set for DG & DDG Office
EDC	10 days
Warranty/ Validity	Company warranty (1 Year)
Acceptance	Items (Telephone Sets) will be accepted upon inspection by HQ PMSA rep.
Any other relevant information	In case any query please contact 021-48508942, 0345-8101004

IT NO: IT/47/09/2024-25

			SEALS - PMSS KOLACHI		
S No	Description				
1.	Parent Equipment	Fin Stabilizer			
2.	Sub Equipment	Hydraulic system			
3.	Assembly Equipment	Hydraulic Cylinders			
4.	Make	SHANGHAI marine equipment research institute			
5.	Model	JQB-4-240			
63.	Required Quantity	Part Number	Description	Quantity	
			Cylinder Seals	04	
7. 8. 9.	Justification		ent of seals of both Fin Stab		
63.	Work required/ defect	Repair/ replacem	ent of seals of both Fin State sement of defective seals o	ilizer cylinders.	
		c. Adjust Fin An	gle as per tech manual after		
10.	Technical specifications	As per OEM spec	ifications/ Manual	Metalista de la prigna de la companyone	
11.	Eligibility Criteria	experience with F		ng working	
13.	EDD/EDG	30 Days after awa	ard of contract		
13.	Warranty	01 Year			
1-4.	Acceptance Criteria (if any)	a OEM Certified item b. Zero leakage of hydraulic oil c. Successful SATs in rough weather d. Zero angle adjustment after repair work Upon scrutiny of items and provided documents along with production certificate by OEM			
15.	Any other relevant information	Contractor/ Rep of wast scope of was	of firm should visit ship prior ork. Contact MEO (0333-89-	quoting to inspect 48563)	

IT NO: IT/47/10/2024-25

4.	SPECS FOR REPAIR/ REP SYSTEMS ASS Ship's Name	SUCIALIE	VALVES : PMSS B	ARKAT		
9	Parent equipment/system	PMSS BARKAT				
		10.000000000000000000000000000000000000	nd Aux Machinery Va			
	Assembly/ equipment	Aux me	Fresh water, Fire main, Sea water cooling system (Main Aux machinery) and fuel system. Various dia valves			
	Make		China			
	Model		N/A			
	Oty	11.50000000	67			
	Justification					
	Work required	Due to	Due to F.W.T. and over the period of time			
o.		Repair	Repair/Replacement/Overhauling of valves			
	Detailed scope of work	a. F	f work is as follows: tepair/ replacement o	f valves a	ppende	d below:
		S No	System	Type	Dia	No of
		1.	Fire main system	Gate	3	20
			Fire main system	Relief	5.35"	02
		3.	Pire main system/	Gate	317	08
		4.	Fresh water	Gato	2"	12
		5.	Fuel system	Gate	2"	16
		6.	G/box sea water	Gate	1.5"	OB
- 4		7.	cooling system	valve		POST
			S//V drain valves	Butterfly	1.5"	02
		d. Re removal 8 e. All equipment f. Any course of will be rep	pares (must be to access to a pares (must be to arranger damage) defect/w ropair and replacer aired /met by firm.	of valve ponsibility genuine quired fo d by the fir ear tear nent of s	of Firm of Firm o) tool or said m. occurre ystem/e	smantling s special d repair ed during equipment
		1 WEST SERVICE STATES	TIL MILICI TEMPTISCOCITANTIC	THE MANEYERS A	The service	or response
		grantee pe	riods claims in case	THE MANEYERS A	during rork.	warranty/
11.		As per in a line	minds claims in case incope of work he firm must visit es/impections to est.	of any rew t onboard ablish the	and extent	carry or of require
12.	Technical spec Eligibilities	As per in diagnos work.	riods claims in case incope of work he firm must visit es/inspections to est	of any rew t onboard ablish the ufficient es	and extent experien	carry or of require
12.	Technical spec	As per radiagnos work. b. Tkind of c. 7	iniods claims in case is scope of work he firm must visit ea/inspections to est the firm must have s work and experienced	of any rew tonboard ablish the ufficient es	f and extent experien	carry or of require
	Technical spec Eligibilities	As per radiagnos work. b. Tkind of c. 7	rinds claims in case in cope of work he firm must visit es/inspections to est. The firm must have s work and experienced he firm should be NT ys after issuance of w	of any rew tonboard ablish the ufficient es	f and extent experien	carry or of require

IT NO : IT/47/11/2024-25 PMSS KASHMIR

	(TR	ERRUPTIBLE POWER SUPPLY (UPS) OF NS 4000 ANSAS RADAR & ECDIS)
BN	o. 1	Description
1.	Parent Equipment	NS-4000 (TRANSAS RADAR & ECDIS) Multifunction
2.	Sub Equipment	NS-4000(TRANSAS RADAR & ECDIS)) UPS Unit
3.	Make	CHINA
4.	Model	QUINT-PS/1AC/24VDC/20
5.	Qty	02
е.	Justification PMS/Failure/FVVT	Failure: Existing Uninterruptable Power Supply (UPS) Units and defective and same are required to be repair/ replace
7.	Work required/ Defect	Repair/ replacement of defective uninterruptable power supply (UPS) Units is required.
8.	Detailed Scope of Work	Presently, NS-4000 TRANSAS RADAR & ECDIS UPS units are defective and not providing requisite 24 VDC power supply during TLF/ any other supply shift or failure and same has been verified defective by SS and same are required to Repair/Replace to restore its Backup supply
9.	Technical specs	a. Input Date: Voltage Range 220 VAC Current Consumption (No load/Charging/Max):0.1 A/2.0 A/22.0 A Input Fuse internal 25 A Max Power Dissipation (Ready/Eluffer mode):15 W 20 W b. Output Data: Normal Output Voltage 24 VDC & 27.9 max in buffer mood Output Current 20 A Current Limit: None in normal mood, 27A in buffer mood Remote Shutdown: yes c. Charging: Charge Characteristics curve: I/U Characteristics curve Charge Limit 2.5 amp Battery Presence check/Time interval 80 sec: Battery Quality test/Time interval 180 hours d. Memory Medium: Nominal Nominal Capacity: 3.4,7.2 Ah,12 Ah e. Signisling: Power in OK: Green LED, battery charge yellow LED, Alarm: Red LED, Floating PDT,30 VAC/DC, MAX 1 A f. Parallel connection to increase buffer time: yes G. Weight: 8 kg h. Rechargeable battery type: Panasonic LC-R127R2PG i. Degree of protection: IP20/III j. Service life 8 Yrs(20 c)
0	Elicibility Calteria	K. Dimension: 164*156*123
0.	Eligibility Criteria	Benutable local contractor having working experience witlest ocal contractor having working experience witless.

11.	EDC/ EDD	10 days	
12.	Warranty	12 x Months	
13.	Acceptance Criteria	a. OEM Certified items. b. Item will be accepted after satisfactory test/ trials onboard. c. OEM Technical documents/ warranty certificate of items required. d. Upon scrutiny of items and provided documents i.e technical specifications along with production certificate and batch No by OEM.	
14.	Any other relevant Information	Firm must visit onboard for clarification of any query and understanding of requirement before quoting.	

IT NO: IT/47/12/2024-25

PMSS INDUS IT SPECIFICATIN UPGRADATION CASE OF 02X TOYOTA REVO (250330 MS, 250331 MS)

1	SYSTEM	Renovatio	on/Upgradation		
-2	MAKE	TOYOTA			
3.	MODEL	2029			
4.	VEHICLE NO		(250330 MS, 250331 MS		
6	ITEM DESCRIPTION	Work Descr			
		Following	tems will be upgraded:		
		B No	Work Description		
		dA.	Liver Date Language Living		
		, b	The state of the s		
		0	Roof bar light 6led +brackets (4800)		
		et et	Roof bar light 8led +brackets		
		0.	Grill 84 V lights		
		T.	Rear seats 4pcs fiber cap		
		9	Speaker (siren)		
		Ph.	Front Guard		
		11 - 1	Seats cover leather		
		1	Rear bull bar (back bumper)		
		N.	Floor mats		
			Tinted glasses		
		m	Number plates		
		10.	Steering cover		
		10.	Aer tire rocco fenders		
		D.	Service		
		9	Fitting, wiring connections		
6.	TECHNICAL SPESIFICATINOS		AS PER EXISTING		
7)	PRELIMINARY INVESTIGATION BY SHIPS B STAFF	D(MT) / MTC	STAFF		
0.	ELIGHBELTY.	REGISTERE	DICONTRACTOR		
9.	EDD	30 DAYS			
10	WARRANTY	WARRANTY	12 MONTHS		
1.1	ACCEPTANCE CRITERIA		PECTION BY END USER		

IT NO : IT/47/13/2024-25 D(MT)

30	SYSTEM	COMERCIAL REPAIR		
2.	MAKE	ISUZU TRUCK		
э.	MODEL	2008		
-6.	VEHICLE NO	080317 MS		
6.	ITEM DESCRIPTION	Work Description Complete vehicle dent paint required Complete vehicle dent paint required Silencer Replaced with new c. Ignition Switch d. Break pressure system repair work Hydraulic system repair work		
a,	TECHNICAL	MATERIAL AS PER EXISTING		
7.	PRELIMINARY INVESTIGATION BY SHIPS'S STAFF	D(MT) / MTO STAFF		
69.	ELIGIBILITY	REGISTERED CONTRACTOR		
10	EDD	30 DAYS		
10.	WARRANTY	WARRANTY 12 MONTHS		
4.4.	ACCEPTANCE CRITERIA	STAGE INSPECTION BY END USER		

IT NO : IT/47/14/2024-25 IT SPECIFICATION FOR REPAIR REPLACEMENT OF SYNCHRONIZING UNIT OF SSDOS - PMSS REHMAT

SNO	Specification	Romarks		
1.	Parent Equipment	Power Generation and Distribution		
2.	Sub Equipment	Switchboard		
3.	Assembly Components	Synchro scope unit and load shedding module in parallel		
4.	Make	N/A		
5. 6.	Model	N/A		
6.	Quantity	01		
7.	Justification i.e PMS/ Failure/ FWT etc	Synchro scope unit in parallel is observed defective due to FWT/ old vintage Synchro scope unit in parallel is required to be repaired replaced for SAT ops		
8.	Work required/ Defect			
9.	Technical Specification	a. 380VAC Main supply b. 50Hz c. 3 Phase d. 220V-240VAC e. 24VDC control supply		
10.	Detailed scope of work	replacement of synchro scope unit for operating SSDGs in parallel: a. Synchro scope unit/ method is to be repaired replaced for SAT ops. b. 03 x mechanical governors of SSDGs to be replaced with electronic control governors for operation in synchronizing method. c. Parallel system for frequency and voltage meters to be ensured. d. Synchronizing AVR card to be replaced. e. Load shedding module and auto synchronizing to be replaced for safe operation of SSDGs. f. Control cable and wiring to be renewed or replaced. g. Repair/ maintenance of 3 Phase bus bar for phase sequence to be carried out. h. Voltage magnitude for operating of SSDGs in parallel to be ensured. j. Frequency of putting on load SSDGs must match with bus bar frequency to be ensured. k. The firm should arrange spares, tools, accessories etcrequired for the said repair / maintenance work. l. Requirement of external services will be responsibility of the firm.		
11.	Eligibility Criteria	a. The firm must visit onboard and carry out diagnosis		
		inspections to establish the extent of required work onboard corvettes. b. Income tax registered. c. Sales tax registered.		
2.	EDC	07 x Working days after issuance of work/ confirmation order		
3.	Warranty	01 Year		
4.	Acceptance criteria	a. 380VAC Main supply b. 50Hz c. 3 Phase d. 220V-240VAC e. 24VDC control supply f. Satisfactory operation of equipment. g. Practical acceptance by SS		

IT NO : IT/47/15/2024-25

		OF MAIN ENGINE NO 16 PMSS HINGOL
No	Description	Main Engine No 1 & 2
4	Parent Equipment	Main Engine No 1 o z
i. 2. 3.	Sub Equipment	Exhaust Gas System
3.	Assembly Component	Turbocharger A & B
6. 5.	Model	16V4000M73L
5.	Make	MTU
S.,	Quantity/Item Details	02 x Gaskets
7.	Justification	Exhaust leakage observed from output gasket ME-1 turbocharger A and ME-2 turbocharger B due to fair wear and tear
B.	Work required/Defect	Repair/ replacement of exhaust expansion bellow gasket of ME-1 turbocharger
9.	Scope of work	a Removal of lagging and heat protective sheet from A bank of ME 1 and B bank of ME-2 b. Dismantling of Turbocharger exhaust line for inspection of gasket c. Removal of old defective gas kits
		Inspection of Exhaust expansion bellow for any leakage, bellow to be replaced if required. Pressure test of exhaust expansion bellow gasket be undertaken at 5.
		g. The exhaust expansion bellow be enwrapped by heat insulation material (lagging with heat sheet) having thickness above 80 mm and h. Onboard trials after installation of gaskets or exhaust expansion bellow All tools and test equipment will be arranged by the firm All in-way accessories be removed by the firm and fitted back Growth work will be sole responsibility of the firm. To avoid complications on later stage, firm is directed to visit the ship before quoting for
		understanding removal/installation and defect rectification
10.	Technical Specifications	a. Marine Main Diesel Engine: 16V4000M73L b. No Of Cylinder: 16 c. Cylinder Bore: 170m d. Rated Output: 2880 kw e. Rated RPM: 2050 r/min f. Max Firing Perssure: 20 Mpa
11.	Eligibility Criteria	Any registered and security wise cleared local contractor who has working expenence enboard HINGOL CLASS MPVs 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.
12.	EDC	01 Wesk
13.	Warranty	O1 Year
14.	Acceptance	Satisfactory operation of exhaust system of Main Engine No 1 and Main Engine
	Criteria	No 2 without any leakage upto 1950 ERPMs.

<u>IT NO : IT/47/16/2024-25</u> D(MT)

		SPECIFICATION FOR PURCHASE OF TYRES	
3.75	MODEL VEHICLE NO TYPE OF TYPES REQUIRED	TYRES OF MT VEHICLE HIND BUS/TOYOTA PARADO(V 6)/ HONDA DE 125/02X KIA SPORTAGE/ SUZUKI VAN 2010 / 2017/2017/2007/2005/2003/2002 100406 1/0218 1/0606 0/0604 050603 030211 030. BRIDGESTONE/DUNLOP/GENERAL/SERVICE	213 020407 648
0	ITEM DESCRIPTION	S No PATT/PART NO DESCRIPTIO	OF QTY
7.	TECHNICAL	a a SIZE 9 00-20/14 PR Tyre Tube fix b SIZE 265/65 R17C Tubeless Tyr c SIZE 2 75-18 90/90-18 Tyre Tube d e SIZE 2 50-18 3 00-17 Tyre Tube e SIZE 215/R16 Tubeless Tyr f SIZE 4 50/121 Tyre Tube fix AS PER SPECIFICATION	9 06 04 02 02 04 04 08 08 08
8.	PRELIMINARY INVESTIGATION BY SHIP'S STAFF	O(MT) & MTO STAFF	
12	WARRANTY ACCEOTABGE CRITERIA ANY OTHER RELEVANT	REGISTERED CONTRACTOR S DAYS S DAYS T YEAR ON BOARD / SHELF LIFE NOT MORE THAN 06 WHILE LALIONMENT BALLANCING AFTER FIT YEES ARE REQUIRED UTHORIZED DISTIBUTER CERTIFICATE IS RE	TING OF NEW

IT NO : IT/47/17/2024-25 WESTERN WING

WESTERN WING

	1					
-7	Ship's Name	FR0-155				
	Perent Equipment		C-9 Main Engines			
	Bub Equipment	Sea water circulation system				
	Assembly Component	Pump GP-Auxillary sea water				
	Make	Caterpillar, USA				
	Model	C-0				
	Quantity	02 in numb				
	Justification Le PMS/ Failure/ PVVT etc		se of 02 x sea water pur rtaining to FRB-155 is de	nps installed with C-9 Mair graded.		
	Work Required/ Defect	Repair/ maintenance of 02 x sea water pumps installed with C- 9 Main engines is required.				
10.	Detail Scope of Work	Repair/ maintenance of 02 k sea water pumps including following associated accessories installed with Caterpiller Comarine engine:				
		S.No a b	Description Impeller pump Sea As-pump Ball bearing	Part No 7E-0321 200-3062 8H-4320 8L-2072		
		7 0	Shaft Cam sea water pump Plate AS Key stainless	113-1110 7E-0328 4P-5926		
1	Technical Spec	1 2	Cam sea water pump Plate AS	113-1110 7E-0328 4P-5926		
2.	Technical Spec Eligibility criteria	Pump GP Any well-lexperience	Cam sea water pump Plate AS Key stainless auxiliary ses water (Pert	113-1110 7E-0328 4P-5926		
2.		Pump OP- Any well- experience associated 15 days	Cam sea water pump Plate AS Key stainless auxiliary sea water (Part known national/ interna- t for repail/ maintenance auxiliaries/ parts	113-1110 7E-0328 4P-5926 No 170-6116) ational firm having good of Caterpillar engines and		
3.	Eligibility criteria	Pump QP- Any well- experience associated 15 days 01 year aff	Cam sea water pump Plate AS Key stainless auxiliary sea water (Part known national/ interns for repair/ maintenance auxiliaries/ parts er installation and satisfa	113-1110 7E-0328 4P-8928 No 170-6118) ational firm having good of Caterpillar engines and		
1 2 3 4 6	Eligibility criteria	Pump QP- Any well- experience associated 15 days 01 year aff	Cam sea water pump Plate AS Key stainless auxiliary sea water (Part known national/ interna- t for repail/ maintenance auxiliaries/ parts	113-1110 7E-0328 4P-8926 No 170-6116) ational firm having good of Caterpillar engines and		

IT NO : IT/47/18/2024-25 REPAIR/ REPLACEMENT OF 08 X CRASH VENTILATION AIR FALPPERS – PMSS DASHT

S No.		Description		
1.	Parent Equipment	Ventilation System		
2.	Sub Equipment	Flappers		
3.	Assembly component	Air Flaps		
4.	Make	China		
	Model	N/A		
5. 6.	Qty	08		
7.	Justification	Fair wear and tear due exposure of environment		
8.	Work required	Repair/ replacement of crash ventilation air flappers		
9.	Detailed Scope of Work	a. Repair/ replacement of all air flaps b. Movement of air flaps manually and pneumatically both c. Rectification of any defect w.r.t crash ventilation system operation d. Satisfactory test/ trials e. All tools and test equipments will be arranged by firm/ contractor f. All spare(s)/ part(s) to be provided by the firm g. Growth work will be responsibility of the firm		
10.	Technical specs	As per OFM Manual/ Specs		
11.	Eligibilities	Reputable local contractor having working experience of Pneumatic system onboard MPVs		
12.	EDC	07 x Days		
13.	Warranty	01 x Year		
14.	Acceptance Criteria	OEM Certified spares. Upon scrutiny of item and provided technical details. Satisfactory operation without high vibration and noise. Satisfactory operation without any leakage.		
15.	Any other Information	Damage/ defect occurred to system during work is responsibility of contractor. Dismantling/ assembling/ installation and in way removal work is responsibility of contractor.		

IT NO: IT/47/19/2024-25

1.	Parent equipment	GENSET
2,	Sub-equipment	Fuel system
3,	Assembly Component	Fuel Injector
4.	Make	CATERPILLAR
5.	Model	Part No 387-9431
6.	Quantity	12 Injectors (02 Sets)
7.	Justification	Operational Failure
8.	Work Required/ Defect	Calibration/ Overhauling of 12 x Fuel Injectors to stop fuel dilution frequency hunting in GENSETs
9.	Detailed Scope of Work	Complete Overhauling and Calibration of 12 x Fuel Injectors (P No 387-9431) for satisfactory operation on required working pressure (a) Injectors are to be fitted back on GENSETs for trials without any damage. (b) Degraded components including defective nozzles to be replaced with new part along with servicing/ overhauling. (c) All spares, tools and test equipment are to be arranged by the firm. (d) Any growth work will be sole responsibility of the firm. (e) Firm will be responsible for any damage during removal of accessories.
10.	Technical Specs Eligibility Criteria	As per OEM Manual/ Specs Reputable contractor having relevant work experience
	The second secon	English and the second of the
12.	EDC	14 Days
13.	Warranty	01 Year after installation
14.	Acceptance Criteria	a. Provision of pressure test record as per OEM standard b. Only OEM recommended spares to be used by firm c. Inspection of provided items/ OEM recommended quality spares used w.r.t physical inspection d. Full Power Trials , HATs & SATs upto 200 KW
15.	Any other information	Firms are requested to visit ship before quoting for further information IT NO: IT/47/20/2024-25

S No.	Description				
1	Parent Equipment	Vertical Electrical Anchor Capstan			
2.	Sub-equipment	Vertical Electrical Anchor Capstan			
3	Assembly equipment	Vertical Electrical Anchor Capstan			
4.	Make	China	5.	Model	N/A
G.	Quantity	01	7.	Justification i.e PMS/Failure/FVVT	F.W.T
В.	Work required/ Defect-	Overhauling of Vertical	Electri	cal Anchor Capstan	
	Detailed scope of work	(a) Removal of anchor and anchor cable (b) Dismantle of anchor cable to check/ replace thrust bearing (5 51130) (c) Check and replace the capstan bushing (223MKD-228-20), sp bushing (223MKD-225-22) & base bushing (223MKD-228-23) (d) Check/ repair/ replace clutch pressure plate, brake & main shaft. (e) Dismantling/ assembling/ installation and in way removal w responsibility of contractor (f) Renewal of packing/ seals (g) Performance testing & provide testing certificate. (h) Corroded bolts and nuts to be replaced with SS bolts and nuts (j) All spares, tools and test equipment are to be arranged by the firm (k) Any growth work/ damage will be soul responsibility of the firm			3MKD-22B-20), sprocke 22B-23) rake & main shaft, n way removal work in de. 8 bolts and nuts arranged by the firm
10.	Technical specs	As per OEM Manual/ Sp		Hantpanaragement coordings provide tempora	
	Eligibility criteria	Reputable local contractor having working experience Firm must visit site for understanding exact nature of defect			
12.	EDC	ASAP(15 days)		Contract of the Contract of th	
12.	Warranty	One year after satisfactor			
144	Acceptance criterial Any other information				
15.		Smoothy obstruction free operation Vertical Electrical Anchor Capstan Firms are to visit site before quoting to fully understand scope of work			

IT NO: IT/47/21/2024-25

1_	Ship's Name	Fast Response Boats			
12.	Parent Equipment	Main engines starting and control system			
3.	Sub Equipment	Heavy duty marine maintenance free Lead Acid (Dry) Battery 12V, 180 AH Part Number NSB-M12-210 or Equivalent			
4.	Assembly Component	Heavy duty marine maintenance free Lead Acid (Dry) Battery 12V, 180 AH Part Number NSB-M12-210 or Equivalent			
5.	Make	USA or Equivalent			
6.	Model	North star battery company or Equivalent			
7.	Quantity	05 in number			
8	Justification i.e PMS/ Failure/ FWT etc	Performance of batteries degraded due to completion of useful life and requires replacement.			
9.	Work Required/ Defect	Repair/ replacement of 05 x 12V 180 AH Heavy duty marine maintenance free Lead Acid (Dry) batteries.			
10.	Detail Scope of Work	Repair/ replacement of 05 x 12V 180 AH Heavy duty marine maintenance free Lead Acid (Dry) batteries.			
11.	Technical Spec	Heavy duty marine maintenance free Lead Acid (Dry) Battery 12V, 180 AH Part Number NSB-M12-210 or Equivalent			
		Dimension			
		Length (L): 22 Inches Width(W): 4.92 Inches Height(H): 12.6 Inches Overall Height(HT): 12.44 Inches Weight(kg): 128 Pounds			
		Electrical Characteristics			
		Cold cranking Amps@ 0°F: 1400 Cranking Amps@ 32°F: 1700 Reserve Capacity (Minutes) 400 Short Circuit Current: 5000 Ams Voltage: 12 Volts			
		Material AGM (Absorbed Glass Mat)			
12.	Eligibility criteria	Any well-known national/ international firm having good experience for repair/ replacement of heavy duty marine maintenance free dry batteries.			
13.	EDC	15 days			
1-4	Warranty	02 years after onboard installation and satisfactory trials.			
15.	Acceptance Criteria	Inspection by end user followed by onboard trials.			
16.	Any other relevant information	Use of standard/USA origin batteries for C-9 engines may be ensured by contracted firm.			

IT NO: IT/47/22/2024-25 REPAIR OF RCS GRAPHICS DISPLAY OF ME NO 1 & THROTTLE LEVER DISPLAY OF ME NO 4 ALONG WITH DEFECTIVE BUTTONS – PMSS HINGOL

		PMSS HINGOL				
	Ship's Name					
0	Parent Equipment					
-	Sub Equipment	Main Engine No 1 (S No 527 112 456) Main Engine No 4 (S No 527 112 456)				
	- Anna Control of the	Main Engine No 4 (S No 52) ECC Throttle Graphic Display/ Buttons				
	Assembly	ECC Infotos State	THE PARTY OF THE P			
7	Component	16V4000M73L				
5.	Model					
6.	Make	MTU		1 - 000		
7.	Quantity/Item Details	02	Description	Qty		
-		Dart/ NSN NO		02		
8.	NSN/ Part Number	B00E50204799	RCS Remote Control System aphic display was not displaying R aphic display was not displaying R	PM Engage/		
		BOOESUZUATOS	aphic display was not displaying			
9.	Justification a. ME 1 RCS graphic display was not display is blackish disengage, control and alarms, whole display is blackish disengage, control and alarms, whole display is blackish disengage, control and alarms, whole display is blackish disengage, control and layer position malfunctioning not displaying engine lever position malfunctioning not displaying engine lever position control of RCS panels observed defective. Various buttons on RCS panels observed defective control of RCS graphic display of ME No 1 and Throl display of ME No 4 along with defective buttons display of ME No 4 along with defective buttons.			tive		
10.	Work	display of ME No 4	along with defective but of RCS through trained technician of RCS through the undertaken for	and the second second second second		
	required/Defect Scope of work	a Repairing	of RCS through trained technician replacement can be undertaken for	not available/		
11.		obsolete componer C. Onboard T d. Spare(s)/ arranged by the fin e. Firm is to units of RCS-5 by f. Any growf Ship will not provic any growth work g. Any dam be born by the fin	est/ trials to be conducted after rep- eat/ trials to be conducted after rep- components required for repair work inspect, identify defective buttons a visiting ship before quoting for job th work during repair work will be be de any spare parts/ additional amou- age to system during onboard testirm	air		
1	2. Technical			having working		
1	Specifications	Security wise of	Security wise clear & Reputable local contractor having working security wise clear & Reputable local contractor having working security wise clear & Reputable local contractor having working security with PMSA experience on Electronics/ Electrical equipment and with PMSA			
1	13. Eligibility Criteria	experience on El	ectronics/ Electrical equipment and			
	W 40 00	07 days				
	14. EDC	1 year	and the sty trials of RCS			
	15. Warranty	a. Onboard	rd successful test/ trials of RCS ad spares to be used for avolding damage to s			
	16. Acceptance Criteria	b Certified	spares to be used to			

IT NO : IT/47/23/2024-25 REPAIR/ REPLACEMENT OF 01 X PROTECTION AND PARALLELING UNIT (PPU) - PMSS HINGOL

S No.		Description		
1.	Ship	PMSS HINGOL		
2.	Parent Equipment	Power generation and distribution system.		
3.	Sub Equipment	Main switch board.		
4.	Assembly	Protection and paralleling unit (PPU)		
5.	Make	CHINA		
8.	Model	N/A		
7.	Qty	01		
В.	NSN/ Part Number	6110PV1100019		
9.	Justification	01 x Protection and paralleling unit (PPU) fail to perform its function.		
10,	Work req/ Defect	Repair / replacement of 01 x Protection and paralleling unit (PPO) is to be		
11.	Detailed Scope of Work	a. Repairing of Protection and paralleling unit (PPU) if required. b. Installation of software as per OEM specification. d. Satisfactory test and trials of Protection and paralleling unit (PPU). e. Satisfactory load shifting parallel, auto and Semi auto modes without any fluctuation.		
12.	Technical specs (if any)	Type		
13.	Eligibilities	Reputable local contractor having working experience on Power generation and distribution system of HINGOL class MPVS		
14.	EDC	03 x Day		
15.	Warranty	a. One year warranty after satisfactory test/ trials. b. If any malfunctioning found in Protection and paralleling unit (PPU) during warranty period (PPU) will be replace by firm with new. c. Any fault occurred in PGD system during repair / replacement of (PPU) will be rectified by firm.		
16.	Acceptance Criteria	Satisfactory operation of Protection and paralleling unit (PPU) without any grounding. Satisfactory operation of Protection and paralleling unit (PPU) without any malfunctioning. Satisfactory load shifting parallel, auto and Semi auto modes without any function.		
17.	Any other Information	a. Contact SS/ visit onboard for clear understanding of scope of work. b. Damage/ defect occurred to system during work is responsibility o contractor. c. Dismantling/ assembling/ installation and in way removal work is responsibility of contractor.		

IT NO: IT/47/24/2024-25

21.5	Ship's Name	PMSS BARKAT
2.	Parent	03 x Officers washrooms
-	equipment/system	01 x CPOs/ Sallors washroom
3/	Sub equipment	Sanitary work
4.	Assembly/	Doors, walls, ceiling paneling, flooring tiles, sanitary fittings, commodes/ seats
	equipment	fittings and washroom lights
5.	Make	China
6.	Model	
7.	Qty	04
8.	Justification	Degraded over the period of time.
9	Work required	Repair/ replacement work
5. 6. 7. 8. 9.	Detailed scope of	Scope of work is as under
	work	a. Repair/ replacement of roof ceiling with lights
		b. Repair/ replacement of flooring tiles.
		C. Repair/ replacement of wooden doors
		d. Marine plywood is to be used for any kind of wood work
		e. Repair/ replacement of sanitary associated fittings
		f. Repair/ replacement of exhaust fans
		Repair/ replacement of waste drain pines as required size.
		repair/replacement of NRV on discharge sewerage lines
		J. Repair/ replacement of walls paneling.
		K. All items of repair/ replacement must be used fire retardant material
		the firm will be responsible for welding/ cutting
		m. All spares (must be genuine) tools special equipment (second-
		reduced for said repair replacement are to be arranged by the firm
		Only damage/ detect/wear tear occurred during course of repole and
		The process of a system requipment will be met by time
	Tanka in the later of the later	P. Requirement of external services, if required will be seement bills - 4 5
11.	Technical spec	As per 11 specifications
12	Eligibilities	a. The firm must visit onboard and carry out diagnoses/inspections to
	The second secon	animoniari trie extent of required work
		b. The firm must have sufficient experience of same kind of work
		enperiorized.
100	THE R. L.	The firm should be NTN /GST registered
13.	EDC	15 x days after issuance of work/confirmation order
4	Warranty	01 Year
5.	Acceptance criteria	Satisfactory work done by the firm.
		Successful completion and acceptance by the end user
		c. Satisfactory trials (HATs/ SATs).

IT NO: IT/47/25/2024-25

1.5	Ship's Name	PMSS BARKAT
1.5	Parent equipment/system	Refurbished/ renovation work of CPO sailor messes
3.	Sub equipment	CPO/ PO Senior rates mess, FWD mess, Technical mess
	Assembly/ equipment	N/A
5. 6.	Make	China
6.	Model	
7.	Qty	03
7. 8. 9.	Justification	Degraded over the period of time.
9.	Work required	Refurbished work of CPO sailor messes.
10.	Detailed scope of work	Scope of work is as under: a. Repairing of wooden doors of tech mess. b. Repairing of cupboards at Fwd and tech mess. c. Repair/ replacement of roof ceiling Fwd mess (Diver cabin). d. Repairing of wooden beds 02 x Fwd mess and 02 x Tech mess. e. The firm will be responsible for welding/ cutting, if required. f. All spares (must be genuine) tools special equipment /accessories required for said Repair/ replacement are to be arranged by the firm.
11.	Technical spec	As per IT specifications
12.	Eligibilities	The firm must visit onboard and carry out diagnoses/inspections to establish the extent of required work. The firm must have sufficient experience of same kind of work and experienced. 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	Satisfactory work done by the firm. Successful completion and acceptance by the end user. Satisfactory trials (HATs/ SATs).

IT NO: IT/47/26/2024-25

- resignation	Ship's Name	PMSS BARKAT
2	Parent equipment/system	Main propulsion system
3.	Sub equipment	Gear box, Shaft bearing cooling lines
4.	Assembly/ equipment	Sea water cooling lines
5.	Make	China
6.	Model	N/A
7	Qty	As per scope of work
-6.	Justification	Degraded over the period of time.
10	Work required Detailed scope of work	Repair/Replacement for sat ops.
		a. Repair / replacement of under mentioned Lines 1) 04x Gear box overboard lines (Dia 3" length 66") 2) 04 x Gear box cooling iniet lines (Dia 2" length 96") 3) ASME shaft bearing cooling in AER (Dia 2" Length 8") 4) ASME shaft bearing cooling in AER (Dia 2" Length 5") 5) APME shaft bearing cooling in AER (Dia 2" Length 9") 6) FPME shaft bearing cooling in FER (Dia 2" Length 9") 7) FPME shaft bearing cooling in FER (Dia 2" Length 9") 8) FSME shaft bearing cooling in AER (Dia 2" Length 8") 9) FSME shaft bearing cooling in AER (Dia 2" Length 8") 9) FSME shaft bearing cooling in AER (Dia 2" Length 8") 10) FSME shaft bearing cooling in AER (Dia 2" Length 12") 10) FSME shaft bearing cooling in AER (Dia 2" Length 12") 10) FSME shaft bearing cooling in AER (Dia 2" Length 12") 10) FSME shaft bearing cooling in AER (Dia 2" Length 12") 10) FSME shaft bearing cooling in AER (Dia 2" Length 12") 10) FSME shaft bearing cooling in AER (Dia 2" Length 8") 12") 10) FSME shaft bearing cooling in AER (Dia 2" Length 8") 12") 10) FSME shaft bearing cooling in AER (Dia 2" Length 8") 12") 10) FSME shaft bearing cooling in AER (Dia 2" Length 8") 12") 10) FSME shaft bearing cooling in AER (Dia 2" Length 8") 12") 10) FSME shaft bearing cooling in AER (Dia 2" Length 8") 12") 10) FSME shaft bearing cooling in AER (Dia 2" Length 8") 12") 10) FSME shaft bearing cooling in AER (Dia 2" Length 9") 12") 10) FSME shaft bearing cooling in AER (Dia 2" Length 9") 10) FSME shaft bearing cooling in AER (Dia 2" Length 9") 10) FSME shaft bearing cooling in AER (Dia 2" Length 9") 10) FSME shaft bearing cooling in AER (Dia 2" Length 9") 10) FSME shaft bearing cooling in AER (Dia 2" Length 9") 10) FSME shaft bearing cooling in AER (Dia 2" Length 9") 10) FSME shaft bearing cooling in AER (Dia 2" Length 9") 10) FSME shaft bearing cooling in AER (Dia 2" Length 9") 10) FSME shaft bearing cooling in AER (Dia 2" Length 9") 10) FSME shaft bearing cooling in AER (Dia 2" Length 9") 10) FSME shaft bearing cooling in AER (Dia 2" Length 9") 10) FSME shaft bearing cool
11.	Technical spec	periods.
	Eligibilities	As per scope of work
		The firm must visit onboard and carry out diagnoses/inspections to establish the extent of required work. The firm must have sufficient experience of same kind of work and experienced. The firm should be NTM (257)
	EDC	
4.	Varranty	07 x days after issuance of work/confirmation order.
	Acceptance criteria	a. Satisfactory work done by the firm.
	The state of the s	b. Successful completion and acceptance by the end

IT NO: IT/47/27/2024-25

	Ship's Name	PMSS BARKAT
	Parent equipment/system	Decks drain/ wash basins drain pipe
	Sub equipment	All water drains
	Assembly/ equipment	
	Make	China
2	Model	N/A
	Qty	As per scope of work. Deck drains are failed in smooth water discharging due
-	Justification	to F.W.T.
	Work required	Repair/Replacement work for sat ops
0.	Detailed scope of work	Scope of work is as under: a. Repair work of under mentioned deck drain pipe: 1) Drain pipe (STBD passage bridge wing) dia 2"
		length 1 feet deteriorated 2) Drain pipe (STBD passage in front of CPOs
	e a s	lobby) 2" length 2 feet deteriorated 3) Drain gipe (STBD passage in front of FM-200
		Compt) 2" length 3 feet deteriorated 4) Drain pipe (Port passage near fueling point) 2" length 2 feet deteriorated
		5) Drain pipe (Port passage in front of WEO cabin) 2" length 4 feet deteriorated 6) Drain pipe (Port passage in front of pantry) 2"
	*	length 3' deteriorated
11.	Technical spec	c. Repair/ replacement of Sailor washroom, snip's galley, officer washroom and pantry all drains must be as per sample with NRV. d. All accessories are to be used should be stainless steel for re-installation of lines and pipes. e. Requirement of external services, if required will be responsibility of firm. f. All spares (must be genuine) tools special equipment /accessories required for said Repair/Maintenance are to be arranged by the firm. g. Any damage/ defect/wear tear occurred during course of removal; repair and installation of system/equipment will be responsible for all removal, transportation and installation work during warranty/grantee periods claims in case of any rework. a. Dia 3
		b. Dia 2" c. Dia 1.5" d. Dia 1"
12.	Eligibilities	The firm must visit onboard and carry out diagnoses/inspections to establish the extent of required work. The firm must have sufficient experience of same kind of work and experienced.
	A constant of the same of the	c. The firm should be NTN /GST registered
13.	EDC	07 x days after issuance of work/confirmation order.
14.	Warranty	01 Year
15.		a. Satisfactory work done by the firm. b. Acceptance by the end user. c. Satisfactory trials (HATs/ SATs).

IT NO: IT/47/28/2024-25

1.	Ship's Name	PMSS BARKAT
2.	Parent equipment/system	Uplift/ Renovation work of officer cabins
3.	Sub equipment	Wooden fitting
4	Assembly/ equipment	N/A
5.	Make	China
6.	Model	
7.	Qty	05
8.	Justification	Degraded over the period of time.
9.	Work required	Renovation and uplift work of officers cabins
5 6 7 8 9 10	Detailed scope of work	Scope of work is as under: a. Replacement of wall paper of officer cabins. b. Repair work of wood fittings (tables, cupboards and wooden drawers of beds). c. Inspect the wooden door with lock and repair work to be carried out if defective. d. Inspect wall paneling and repair/ replace if damaged. e. Marine plywood is to be used for any kind of wood work. f. Replacement of 07 x marine version sockets to be changed. g. Repair work of 02 x wooden beds. h. Replacement of 02 x dressing mirrors. j. Replacement of 03 x floor mats. k. The firm will be responsible for welding/ cutting, if required. l. All spares (must be genuine) tools special equipment /accessories required for said Repair/ replacement are to be arranged by the firm.
11	Technical spec	As per IT specifications
12.	Eligibilities	The firm must visit onboard and carry out diagnoses/inspections to establish the extent of required work. The firm must have sufficient experience of same kind of work and experienced. The firm should be NTN /GST registered.
13.	EDC	15 x days after issuance of work/confirmation order.
14.	Warranty	O1 Year
15.	Acceptance criteria	Satisfactory work done by the firm. Successful completion and acceptance by the end user. Satisfactory trials (HATs/ SATs).

IT NO : IT/47/29/2024-25 REPAIR/ REPLACEMENT OF DEFECTIVE/ DEARLAST MISC ELECTRICAL EQUIPMENTS: PMSS

A Chief News DARKAT				
1.	Ship's Name	PMSS BARKAT		
2	Parent equipment/system	Power Generation & Distribution (PGD)		
3.	Sub equipment	DC Cables, Breakers, Supply boxes/ Panels, Starters, Battery terminal lugs, Shore supply cable lugs, Relays, Switches/Sockets, Reflectors, Navigation lights, Electric hooter and MOB starm system.		
4.	Assembly/ equipment	Nii		
5.	Make	China		
6.	Model	NA NA		
7.	Qty			
		Electrical equipment's degraded over the period of time.		
8.	Justification			
9.	Work requisition	Repair/ replacement of miscellaneous electrical equipment's.		
10.	Detailed scope of work	Scope of work is as under: Repair/ replacement of Main engines starting DC cables. Repair/ replacement of Main and aux machinery 22 x starting batteries L-type lead terminal lugs. Replacement 20 x supply breaker/ control cards of ACs (Breaker 30 AMP 2 POLE). Replacement of 02 x 400 volt marine version AC supply sockets (04 PIN) at Fox1 and Q/ Deck. Replacement of On/Off switches & multipurpose sockets with new switches. (140 x multipurpose sockets and 78 x switches as required) Replacement of 12 x Marine version sockets in machinery compartments and on upper decks. Repair/ Replacement and Servicing of 01 x Rectifier. Repair/ Replacement of 02 x police lights. Replacement of 02 x reflectors with high intensity reflectors (>1NM range) at Signal deck. Servicing Main mast and aft mast navigation lights. Servicing of 02 x 400 volt distribution box at MCR and Evac Compt. M. Servicing of 02 x Split ACs Supply boxes at FER and AC Compt. Servicing of 03 x fresh water pumps starters. P. Servicing of 04 x Engine room exhaust fans. Revicing of 04 x Main engine vent fan control panel in FER & AER. Servicing of 50 x 220 volt distribution boxes at Bridge alleyway, CPOs lobby, Fwd mess, MCR and Bridge. W. Servicing of flood alarm system. W. Servicing of FM200 control system. W. Servicing of sea crane starter panel and remote panel. X. Servicing of flood alarm system. W. Servicing of electrical hooter 24 volts DC. X. Servicing of sea crane supply box and of new punching lugi with shore supply cable.		
		Servicing/ replacement of Man overboard (MOB) collipsed switches and cable. Servicing of shore supply box and of new punching with shore supply cable.		

11, 12.	Technical spec Eligibilities	cables and split AC lines on upper decks. ad. Repair/ replacement of cable channel (Metallic) on PORT outer alleyway from FWD to AFT. ae. Repair/ maintenance of wiring and lamps of Aux machinery indication lights in MCR (11x indication light). af. All associated fittings should be properly secured as per standard. ag. Standard wiring is required where necessary, cable must be marrine version. ah. Standard marking of all cables/ connection is required. aj. All spares (must be genuine) tools special equipment /accessories required for said Repair/ Replacement are to be arranged by the firm. ak. Any damage/ defect/wear tear occurred during course of repair and replacement of system/equipment will be repaired /met by firm. Standard parts/items are to be used. 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. 20 x days after issuance of work/confirmation order
13.	EDC	01 Year
14.	Warranty	
15.	Acceptance criteria	Satisfactory work done by the firm. Successful completion and acceptance by the end user. Satisfactory trials (HATs/ SATs).

IT NO: IT/47/30/2024-25

2.	Ship's Name	PMSS BARKAT
	Parent equipment/system	Sickbay
3.	Sub equipment	Repair/ replacement and uplifting work.
	Assembly/ equipment	Medicine stowage Lockers, drawers, oxygen cylinder holding mechanism, paneling, flooring, ceiling and fitting of AC for controlled environment.
5. 6. 7. 8. 9.	Marion	China
6.	Model	
7.	Qty	01
8.	Justification -	Degraded condition over the period of time
9.	Work required	Repair/ replacement Work
	Technical spec	Scope of work is as under: a. Repair/ replacement of curtains in said compartments. b. Repair/ replacement of wall paneling (ALCA bond sheets) and ceiling including sockets. c. Repair/ replacement of steel fittings cabinets/ shelving for documents. d. Repair/ replacement of roof ceiling with lights. e. Replacement of wooden door. g. Marine plywood is to be used for any kind of wood work. h. Replacement of fans in said compartments. J. Fitting of 01 x New AC (01 Ton). k. Fitting of holding mechanism for oxygen cylinder. I. Repair/ replacement of lockers and drawers. n. Repair/ replacement of lockers and drawers. n. Repair/ replacement of lockers and drawers. n. The firm will be responsible for welding/ cutting, if required. p. All spares (must be genuine) tools special equipment /accessories required for said Repair/ replacement are to be arranged by the firm. q. Any damage/ defect/wear tear occurred during course of repair and replacement of system/requipment will be met by firm. As per IT specifications
11.	Eligibilities	
		The firm must visit onboard and carry out diagnoses/inspections to establish the extent of required work. The firm must have sufficient experience of same kind of work and experienced. The firm should be NTN /GST registered.
3.	EDC	15 x days after issuance of work/confirmation order.
5.	Warranty	01 Year
5.	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/47/31/2024-25 IT SPECIFICATIONS FOR REPAIR! REPLACEMENT OF PORT & STED RHIB DAVIT SEALS - PMSS KOLACHI

		SEALS - LMO	S DOPUGE			
No	Description					
-	Parent Equipment	RHIB Davit				
2.	Sub Equipment	Hydraulic system				
1	Assembly Equipment	Seals & O-rings				
	Make	CSSC Luzhou Zhenjian Marine auxiliary machinery				
5.	Model	LWYH25				
99)		Part Number Description Quantit				
5.	Required Quantity	Part Number	O-ring	04		
		GB1235 Φ11x1.9		02		
		GB1235 Ф16x2.4	O-ring	04		
		GB1235 Ф20x2.4	O-ring	08		
		GB1236 Ф30x3.1	O-ring	04		
		GB1235 Ф35x3.1	O-ring	06		
		GB1235 Ф40x3.1	O-ring	02		
		YWZ-350T	Oil Level Meter			
		YN60-III	Pressure gauge	04		
		JB982-77 10	Gasket	10		
7.	Justification	Repair/ replacement	defective parts of both RI	HIB Davits		
7. B.	Work required/ defect	Repairing/ replacement of O-ring, Seals, Gaskets and gauges of Port and STBD boat davits.				
9.	Detailed scope of work	Repair/ replacement of following parts: a. All O-rings b. All ram seals c. Pressure gauges d. Level indicators				
10.	Technical specifications	As per OEM specific	ations/ Manual			
11.	Eligibility Criteria	Reputable local/ into experience with PMS	rnational contractor havin	g working		
12.	EDD/EDC	15 Days after award	of contract			
13.	Warranty	01 Year	NAME OF TAXABLE PARTY O			
14.	Acceptance Criteria (if any)	a. OEM Certified item b. Zero leakage of hydraulic oil C. Upon scrutiny of items and provided documents along with production certificate by OEM				
15.	Any other relevant	Contact MEO (0333-8948563)				

IT NO: IT/47/32/2024-25 93 PMSA SQN

IT SPECIFICATION FOR OVERHAUL OF LANDING GEARS - DEFENDER BN-2T AIRCRAF

1.	Ship's Name	93 PMSA SQN				
2.	Parent Equipment	Defen	Defender BN-2T Aircraft			
3.	Sub Equipment	Defender BN-2T Aircraft				
4.	Assembly Equipment	Landing Gears				
5.	Make	UK				
6.	Model	#				
7.	Quantity	As mentioned against each				
8.	Justification	To meet overhaul requirement of landing gears				
9.	Work Required/ Defect		cement of spares/ cons	umables		
10.	Detail Scope of Work					
11.	Item Description	S No	Part No	Description	Qty	
		1.	AIR46112	Seal	02	
		2.	AIR46114	Seal	02	
	THE TOTAL WARRENCE	3.	AIR45930	Seal	02	
	The second second second	4.	AIR111958	Ring Back Up	04	
	July English vive	5.	SP90H15	Pin Split	02	
	- THE GROSS NOT NOT THE	6.	AIR14950	Valve Inflation	02	
		7.	AIR45932	Seal	02	
		8.	AEROSHELL 41	Hydraulic Fluid	01 USG	
		9.	JC5A	Jointing Compound	02 Tube	
		10.	PR1422A2	Sealing Compound	02 Se	
12.	Technical Specs (If any)		7.153.3440.00	Dealing Companie	1 24 00	
		authorized aviation vendors b. Firms have to provide authorization letter of their principal firms and bank statement of last 01 year of their firm c. Firms must have at least 02 years' experience of provision/ repair of Aviation components/ spare parts. Experience certificate of Aviation related contracts by contracting agency in Pakistan is mandatory. d. Firms need to include freight/ insurance charges and custom duties/ taxes, etc (as applicable) in quotation. e. Firms need to get import/ export licenses from respective abroad firms/ agencies where applicable.				
14.	EDD	f. In case of failure to meet acceptance criteria or any defect during physical/ operational testing of items post installation on aircraft, firm is liable to get the items replaced/ repaired on FoC basis in shortest possible time.				
15.	Warranty	03 weeks after award of contract 01 Year				
16.	Acceptance Criteria (if	THE PROPERTY OF THE PARTY OF TH				
10.	any)	177000000	 Satisfactory physical condition and operational check of items (where Applicable). 			

 Items part numbers should be identical to the part numbers mentioned against each item in IT Specification. Alternatively, OEM letter for change in Part No may also be provided (COC) certificate of conformity.

Provision of EASA/ FAA release Form.

Date of manufacturing for supplied items should not be more than 6-8 weeks.

IT NO: IT/47/33/2024-25

IT SPECIFICATION - DATUM PLATES FOR 12.7mm GUNS - PMSS HINGOL

S No.	Description			
1.	Parent System	12.7mm Guns		
2.	Sub System	12.7mm Guns (Port/ Stbd)		
3.	Assay Component	Datum Plates		
4.	Origin	Local Contractor		
5.	Make	High strength aluminum or stainless steel for durability and corrosion resistance		
6.	Model			
7.	Quantity	02		
	Technical specification	Size: Approx. 12 inches x 8 inches Thickness: 5mm to 10mm Tolerance: Maintain tolerance of ± 0.5 mm for precision		
9.	Justification	Required for safety of Gun Crew		
10.	Scope of Work	Fabrication and installation of Datum Plates		
11,	Eligibilities	Reputable local contractor having working experience onboard HINGOL Class MPVs.		
12.	EDC	ASAP		
13.	Warranty	1 Year		
14.	Acceptance Criteria	As Per IT spec		
15.	Any other Information	Damage/ defect occurred to guns/ surrounding fittings during work is responsibility of contractor. Dismantling/ assembling/ installation and in way removal work is responsibility of contractor.		

IT NO: IT/47/34/2024-25 IT SPECIFICATION - SHIFTING OF SHORE DGs AND 02 CONTAINERS OF COASTAL BASES PMSS NAZIM

1.	Ships Name	PMSS NAZIM		
2.	Parent equipment	02 x Shore DGs (100 KVA & 30 KVA) AND 02 x Containers		
3.	Sub equipment	N/A		
4.	Assembly component	N/A		
5.	Make	N/A		
6.	Model	N/A		
7.	Quantity	N/A		
8.	Justification/ i.e PMS/ Failure/ FWT etc	Transportation is required for shifting of DGs and containers as per S No 9		
9.	Work required/ Defect	a. 100 KVA DG from Gwadar to Pasni. b. 30 KVA DG from Pasni to Korangi Fish Harbour (Karachi) c. 2 x 20 Feet containers from Ormara to Korangi Fish Harbour (Karachi)		
10.	Detail Scope of Work	As per S No 9		
11.	Technical Specs	Firm will visit on site to ascertain the actual dimension of Shore DGs. Containers Dimension Height 8'.4 Inches, Length 19'.10 inches and Width 8 Ft.		
12.	Eligibility criteria	Any local well reputed firm having experience for shifting of goods in Pakistan.		
13.		15 Days		
14.		N/A		
15.		Inspection by end user and successful shifting of items.		

IT NO: IT/47/35/2024-25

		AIR/REPLACEMENT OF BOTH MDEs CONTROL AND PRING SYSTEM - PMSS RAFAGAT
A CONTAC	Parent equipment Sub-equipment Assembly component Make	MDEs Control and monitoring system Control system Port and Stbc MDEs control system USA
58	Medel P	N/A G2
X.	Austrication e PMS/Failure/ FWT/Defect	Both HMI, Stod MDE speed transmitter, Stod MDE D-6 module, MDEs exhaust temperature modules and both shaft RPM sensors are malfunctioning.
K	Work required/ Defect	Repair/replacement Both HMI, MDEs speed transmitters, D-6 modules, MDEs exhaust temperature modules and shaft RPM sensors for Sat Ops.
株	Detailed scape of work	a Repair/replacement of control & monitoring system is essentially required for sat Ops. b. Repair/replacement Both HM in mess deck. c. Repair/replacement Stbd MDE speed transmitters. d. Repair/replacement Stbd D-6 module
		e. Repai/replacement port MDE cuhaust bunks temperature modules. [b] Repai/replacement both shalt RPM sensors with transmitters.
		g. All material, spares tools, special equipment/ tools accessories ato required for said work are to be arranged by the contractor.
		he Requirement of external services if any will be responsibility of the firm without any liability on the part of ship. When visit onboard to carry out inspection to establish the
		extent of required work k. Repair/reptacement/calibration of complete control & monitoring system.
10	Technical specification	
1/8		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	07 Days
134	Acceptance criteria	01 Year a: OEM certified material b: Satisfactory running trails c: Successful operation of MDEs control & monitoring system

IT NO : IT/47/36/2024-25

IT SPECIFICATIONS FOR REPLACEMENT OF INSULATED RUBBER MAT - PMSS ZHOB

S.No	Description	
1	Parent equipment	Rubber Mat
2	Sub equipment	Insulated rubber mat
3	Assembly component	
4.	Model	N/A
5	Make	N/A
6	Oty.	01 (30 x 4 ft) 15MM
7	Justification	With the passage of time the rubber mat have become deteriorated and same need replacement considering safety of men.
8	Work required/Defect	Replacement of insulated rubber mat
9	Scope Of Work	Contractor is to visit ship and carry out detailed inspection of mat placement area Replacement of mat
70	Technical specifications	Sustainable upto at least 500 Volts
11	Eligibility criteria	Reputable local contractor having working experience of electrical safety mats
12	EDC	5 days
13	Warranty	1-year
14	Acceptance criteria	To ensure safety of men and material while carrying out operation & repair/ maintenance activities on switchboards:
15	Any other information	Growth Work. Damager defect occurred during work is responsibility of contractor.

IT NO: IT/47/37/2024-25

S No	IT Specifications	
1	Ship's Name	PMSS NUSRAT
2	Parent Equipment	Fwd Port Main Engine (FPME)
3.	Sub System	Raw Water System
4.	Assembly Components	Raw Water Pump
5.	Make	MTU Germany
	Model	MTU 16V396TB963
3.		0.1
8.	Quantity Justification i.e PMS/ Failure/ FVVT etc	Raw water system/ pump performance degraded unit raised OPDEF/ME/03-25 of PMSS NUSRAT Defect rectification of existing Raw Water system
9.	Work Required/	Defect rectification of existing Naw Violer System
10	Scope of Work	Work of scope as under
		 a. Gear driven raw water pump is to be dismantled to determine/ diagnose the defect
		b Inspect pump body, impetter and other accessories
		c Repair/ Replacement of existing raw water pump
		d. Remove the pump cover and inspect impellin for wear.
		cracks or damage. Replace if necessary
		e Repair/ replacement of suction & discharge line if deteriorated
		f. Raw water pump to be calibrated and pressure tested for satisfactory operation
		g Raw water pump mechanical seal is to be replaced
		h. Assembling of the raw water pump is to be done as per MTU manual instructions.
		The firm will be responsible to undertake any work not covered above to ensure good quality of work
		k. There will no growth work
		1. The firm will be responsible for welding/ cutting. I required
		m. All spares, tools, special equipment/ tools, accessories etc for fabrication/ installation are to be arranged by the contractor.
		n. The firm will be responsible for requirement of external services
		p Arry damage/ defect/ wear tear occur during the of removal and installation of core assembly will be remet by firm
11	Technical Spec	g The firm will be responsible for all re- transportation installation work during warranty/ gui period claims and in case of any re-work a Self-priming centrifugal pump
		b. Pump flow 18 liters per seconds at 1500 engine RP
	and the same of th	a Weight 55 5 Kg
12	Eligibility Criteria	a. The firm should visit onboard and carryout inspected
		b The firm should having good experience of the sun of work required onboard
		c The firm should be NTN/GTN registered
1.0	EDC Warranty /	20 x working days after issuance of work/ confirmation of the substitution of the subs
1.65	Guarantee Acceptance criteria	a Successful defect rectification of raw water system
	Commence Control of	The second secon
		b. HATS/ SATS

IT NO: IT/47/38/2024-25

No	Description	N - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -
1.	Parent equipment	Pressure temperature gauges & electrical meters
2. 3. 4. 5. 5.	Sub equipment	
3.	Assembly component	
4.	Model	N/A
5	Make	China
3	Qty	252
7.	Justification	All gauges and electrical meters mentioned as per attached list needs to be calibrated.
В,	Work required/Defect	All gauges and electrical meters mentioned as per attached list needs to be calibrated.
0.	Scope Of Work	a Repair/ replacement of defective gauges and meters as per enclosed list. b. Removal/ installation and isolation of system whose gauges are being removed for calibration. c. Provision of calibrations certificates of every gauge/ meter. d. All gauges/ meters are to be tested prior removal. All operational gauges/ meters are to be returned in operational state. Any gauge/ meter which become defective during calibration are to be replaced by contractor. e. Zoning of gauges as per the requirement of SS. f. Contractor is to provide brazing/ repair works of associated gauges/ meters lines g. Conduct of harbor and sea trials.
10.	Technical specifications	As per OEM Manual
11.	Eligibility criteria	Company must be sales tax and income tax registered. Contractor is to be visit the ship prior participants in job to quantity the number of gauges/ meters, repair/ brazing work (if required). Contractor is to mention/ verify the testing facility being utilized for calibration of gauges.
12.	EDC	15 Days
13.	Warranty	1-year
14	Acceptance Criteria	Upon completion of work and successful HATs & SATs
15.	Any other information	Growth Work, Damage/ defect occurred during work is responsibility of contractor.

IT NO: IT/47/39/2024-25 REPAIR/ REPLACEMENT AND INSTALLATION OF RADAR ANTEENA BASE ALONGWITH OEM CERTIFIED CABEL - PMSS DASHT

S No.	Description	- Martin - M		
1.	Parent Equipment	JMA 5312 Radar		
2.	Sub Equipment	JMA 5312 Radar Antenna		
3.	Assembly component	Antenna Base		
4.	Make	JRC		
5.	Model	JMA 5312- 6/6HS		
6	Qty	01		
7	Justification i.e PMS/Faiture/FWT etc	Increase the radar detection range and decrease blind arc		
8.	Work required/	Extension of Radar Antenna Base		
D. C.E	Detailed Scope of Work	Replecement and installation of Radar Antenna Base alongwith OEM certified cable		
10	Technical specs	10 KW, X Band		
11	Eligibility Criteria	Any firm having good experience with PMSA. OEM/ authorized reps will be given preference		
12.	EDD	10 Days		
13.	Warranty	Service and repair warranty of 01 year		
34.	Acceptance	a. Only OEM Certified item be accepted		
	Criteria	b. Item be accepted after satisfactory test/trials onboard at sea		
		 Successful Trials by end user alongwith satisfactory test/ trials sheets duly signed by the firm 		

IT NO : IT/47/40/2024-25 PMSS KASHMIR

	T Washington	1.00	(SYSTEM		
	System Sub system	Control Devices (Systems)			
	Assembly Component	Main Engines, Gearbox, Rudder, Brake			
-	Make	b.	Shipbuilding Co	eering Research Institute Of Ch reporation e Diesel Engine Research Institute	
-	Model	Misc	Misc		
	Quantity	1.3	Annual Control		
	Justification Le PMS/ Failure/ FVVT etc	PMS	Routines		
	Work Required/ Defect	Conduct of following PMS Routines alongwith replace requisite spares (if required):			ement
		SNo	the first of the same of the s	Description	
		en.	5-6121-0000	Power Station Monitoring and System	Contro
		b,	5-6123-0001	Main Engine Local Contr Monitoring System (Port & Stbd)	
		G.	5-5701-0000		elegrap)
		ct.	5-6129-0000	Gearxbox Electrical Monitorii Control System (Port & Stbd)	ng And
		er.	5-6202-0003	Local Control Panel (Port & Stoc	13
		1	5-3109-0001	Brake Control Device (Port & Sti	oct)
		0	5-6320-0000	Rudder Control System (Port & 5	
	Scope of Work	S No	Description No: 5-6121-0000		MOP
		in .		e the Wiring on the Terminal inside	004
			the Switchboar	d for any looseness and damaged	
		b.		Main Components	005
		G.	No: 5-6123-0001	nance of the Device	004
		d.	Device Overha		005
		PMS	No: 5-5701-0000		1113000
		0.		nance of System	0.04
		1	Device Overha		005
		Author/Spring short a least of	No: 5-6129-0000		O EVEN DE LA COMPANION DE LA C
		9.	Box	ne Gearbox Backup Pump Control	012
		PMS	No: 5-6202-0003		
		. As.		nd Service of System	001
		PMS	No: 5-3109-0001		
		TO STATE OF	Device Overhau		006
		FIVES	No: 5-6320-0000 Replace Backu		2000
		1	(Oty: 04	p Cartony	001
			Type NiMH (reof minimum 170mAh)	argeable) with a capacity of 8.4V and	
		Note:	- Company Control of Nation Control		
			Spares required firm.	to conduct the routines will be pro-	vided by
	1			will be bear by firm	
0.	Technical Specs	Any growth work will be bear by firm. As per relevant TPIs & JICs.			
1	Eligibility Criteria	Have experience to work onboard ships (preferably PMSA ships).			
		b. (Company must be	e certified with HQ PMSA	
2.	EDC	04 wee	ks after confirmat	Income and Sales tax registered	
3.	Warranty	01 x Ye			
ş.,	Acceptance Criteria	Satisfactory trials of all systems for 01 x month			
5.	Constitution and the Constitution of the Const			before providing quotation to veri	(v exect
	information			(Contact: 0321-3000503)	The state of the s

100	IT SPECS FOR REP	URBISHMENT OF DEGRADED COMPARTMENTS: PMSS BARKAT
1.	Ship's Name	PMSS BARKAT
2.	Parent	Repair/ replacement work to uplift the compartments
3.	equipment/system Sub equipment	Bridge, MRO, MCR, Ship' office, Ship' dining hall, Store office and Wardroom
	-24-24-25-25-25-25-25-25-25-25-25-25-25-25-25-	pantry.
4.	Assembly/ equipment	N/A
5	Make	China
6	Model	-
7	Qty -	07 x Compartments
8	Justification	Compartments at para 02 are degraded over the period of time.
0	Work required	Repair/ replacement Work
5. 6. 7. 8. 9. 10.	Detailed scope of work	Scope of work is as under: a. Replacement of wall paper in ship's office. b. Repairing of tables at ship's office and MRO. c. Repair/ replacement of roof ceiling at ship's office, bridge and MCR. d. Replacement of insulated mat at MCR. e. Repairing of wooden door at ship's office and MCR. f. Repairing of lockers at BRIDGE & MRO. g. Repair/ replacement of deck flooring of wardroom pantry. h. Repair/ replacement of Hot plate at wardroom pantry. j. Repair work required at ship's office (wooden racks, lockers and tables). k. Repair work of dining tables and wood benches of sailors dining hall. l. Repair/ replacement of roof paneling at sailor dining hall. m. Repair work of locking mechanism, rubber seat of compartments windows. n. Marine plywood is to be used for any kind of wood work. p. Replacement of floor mats at MCR and bridge. r. Repairing of wall scaling of MCR. The firm will be responsible for welding/ cutting, if required. t. All spares (must be genuine) tools special equipment /accessories required for said Repair/ replacement are to be arranged by the firm.
11.	Technical spec	As per IT specifications a. The firm must visit onboard and carry out diagnoses/inspections to
12.	Eligibilities	establish the extent of required work. b. The firm must have sufficient experience of same kind of work and experienced. Experienced.
13.	EDC	15 x days after issuance of work/confirmation order.
14.	Warranty	01 Year
15.	Acceptance criteria	Satisfactory work done by the firm. Successful completion and acceptance by the end user.

10.	b. c.	Successful completion and acceptance by the end user. Satisfactory trials (HATs/ SATs).
		IT NO : IT/47/42/2024-25
	REPAIR/ REPLACE	EMENT OF SHIP'S GALLEY : PMSS BARKAT
7.4	Ship's Name	PMSS BARKAT
2 3 4 5 6 7	Parent equipment/system	Ship's Galley
3.	Sub equipment	Deep fryer and Flooring work.
a	Assembly/ equipment	
5	Make	China
6.	Model	N/A
7	Qty	
8	Justification	DED work
9.	Work required	Repair/ replacement work
10.	Detailed scope of work	Scope of work is as under: a. Replacement of ceramic tiles. b. Servicing of 02 x Hot plates with associated equipment's. c. Repair work of steel tables, racks, lockers drawers and
	-	tables d Required installation of Deep fryer, e Replacement of heat proof lights f. Servicing of exhaust fan.
		g. Repair/ replacement of sanitary fittings including drain lines with NRV. 1. Replacement of insulated mats.
		j. Repairing of wooden door. k. Standard wiring is to be used in lighting circuits and properly secured.
		Connections must be tightened. The firm will be responsible to undertake any work not covered above to ensure good quality of work. The firm will be responsible of welding/ cutting if required. Requirement of external services, if required will be responsibility of firm.
		q. All spares (must be genuine) tools special equipment /accessories required for said Repair/ Maintenance are to be arranged by the firm. r. Any damage/ defect/wear tear occurred during course of
	A STATE OF THE STA	removal; repair and installation of system/equipment will be repaired /met by firm. The firm will be responsible for all removal, transportation and installation work during warranty/ grantee periods claims in case of any rework.
	The state of the s	t. No growth work will be processed.
11.	Technical spec	As per scope of work,
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. d. Any damage/defect/wear tear occurred during course of repair and replacement of system/ equipment will be repaired/
		met by firm.
4.75	WEST TO THE PARTY OF THE PARTY	e Cables are to be marked properly for identification. 15 x days after issuance of work/confirmation order
13.	EDC	15 x days after issuance of work/confirmation order
15.	Warranty	a. Satisfactory work done by the firm.
15	Acceptance criteria	b. All spare wires to be used marine version and branded. Physical inspection and suitability for spares by end user Satisfactory trials (HATs/ SATs).

IT NO : IT/47/43/2024-25 PMSS BARKAT
Steering system
Steering system follow up & non-follow up modes of steering system and inspection of hydraulic system including steering motors.

Nil
China
NA Assembly/ equipment Make Model City Justification Work requirition Detailed scope of work Degraded over the period of time.

Repair replacement of steering system.

Scope of work is as under:

a Complete servicing & overhauting of steering control system of Bridge & ASP in both modes (follow up and non-follow up).

b Inspect and servicing of hydraulic system & steering motors.

c Repair replacement and inspection of steering control system (All cables, control cards, switches, serieors & relays from ASP to Bridge check/ inspect and replace if necessary).

d All associated fittings should be properly secured as personal setting of all cables, connection is required.

e Marine standard wiring is required where necessary.

f. Standard markling of all cables, connection is required.

g All spares (must be genuine) tools special equipment faceasionles required for said Repair Replacement as to be arranged by the firm.

h Any damager defect/wear tear occurred during course of repair and replacement of system/equipment will be repaired met by firm.

Standard parts/items are to be used.

a The firm must visit onboard and carry out diagnoses/inspections to establish the extent of required work.

b The firm should be NTN /GST registered.

14 x days after issuance of work/confirmation order.

17 Year.

a Satisfactory work done by the firm.

b Successful completion and acceptance by the end user.

c Settificatory (HATs) SATs) of steering system follow-up and non-follow-up modes.

IT NO: IT/47/44/2024-25

IT NO . IT/47/44/2024 25

		IT SPECIFICAT	IT NO : IT/47/44/2024-25
			COMEMR, 93 PMSA SQN AND D LEGEL
5	No	DESCRIPTION	SPECIFICATIONS
- 73	18-	System/Item	Telephone Sets
	b.	Model/Origin	Model No: KXTS934 MX (15 x Telephone Sets)
	16.	Quantity	10
	15.	Scope of Work	Provision of 15 x Telephone Sets for COMEMR PMSS NUSRAT, 93 PMSA SQN and D Legal office
	0.	EDC	TO Glayer
	6.	Warranty/ validity	Coopany warranty
	0	Acceptance	(torm(Telephone Sets) will be accepted upon inspection by HQ PMSA rep.
	Dr.		In case of any query please contact
		Information	021-48508942 (0300-5051996)
		IT SPECIFICATI	ON FOR PURCAHSE OF TELEPHONE SETS -
		DP AND C	C OFFICE, PMSS NUSRAT & COMEMR
No	D	ESCRIPTION	SPECIFICATIONS
-28	- 55	ystem/ Item	Telephone Set
b.	M	lodel/Origin	Model No. KXTS934 MX (10 x Telephone Sets)
10.		uantity	10
d		cope of Work	Provision of 10 x Telephone Sets for DP AND CC
100	1 5		COMEMR & PMSS NUSRAT
e	65	DC	10 days
£.	W	farranty/ validity.	Company warranty
9-	A	cceptance	Items(Telephone Sets) will be accepted upon inspection by HQ PMSA rep
tr.		ny Other relevant iformation	In case of any query please contact 021-48508942 (0300-5051998)

IT NO: IT/47/45/2024-25 **FASTERN WING**

		S - REPAIR/ REPLACEMENT OF 05 X HEAVY DUTY REE DRY BATTERIES - FAST RESPONSE BOATS
3.	Ship's Name	Fast Response Boats
2	Farent Equipment	Main engines starting and control system Heavy duty marine maintenance free Legd Acid (Dv) Baltery 12V.
-9	ELOID E-QUIDMENT	180 AH Part Number Nish-M12-210 Coping (Cry) Battery 12V.
4	Assembly Component	Heavy duty marine maintenance free Lead Acid (Dry) Battery 12V, 180 AH Part Number NSB-M12-210 or Equivalent
5	Maker	UBA or Equivalent
6. 7. B.	Model	North star battery company or Equivalent
7-	Quantity	OS in number
10	Failure/ FVVT etc	Performance of batteries degraded due to completion of useful life and requires replacement.
-	Work Required/ Defect	Repair/ replacement of 05 x 12V 180 AH Heavy duty marine maintenance free Lead Acid (Dry) batteries.
10	Deteil Scope of Work	Repair/ replacement of 05 x 12V 180 AH Heavy duty marine maintenance free Lead Acid (Dry) batteries
11	Technical Spec	Heavy duty manne maintenance free Lead Acid (Dry) Battery 12V. 180 AH Part Number NSB-M12-210 or Equivalent
		Dimension
		L. arright (L.) 22 Inches Width(W) 4.02 Inches Holght(H) 12-6 Inches Overall Height(HT) 12-44 Inches Valight(hg) 12-8 Founds
		Electrical Characteristics
		Cold cranking Ampage 0.F: 1400 Cranking Ampage 32.F: 1700 Reserve Capacity (Minutes) 400 Short Circuit Current: 5000 Ams Voltage 12 Volta
		Material AGM (Absorbed Glass Mat)
138.	Eligibility criteria	Any well-known national/ international firm having good experience for repair/ replacement of heavy duty marine maintenance free dry batteries.
Y 28.	EDC	16 days
1.48	Warranty	02 years after entroard installation and satisfactory trials.
1.65	Acceptance Criteria	Inspection by end user followed by unboard trials.
16.	Any other relevant information	 Use of standard/USA origin batteries for C-0 engines may be ensured by contracted firm Shipment documents and CDC required.

Technical spec Eligibilities

EDC Warranty Acceptance criteria

Director General

Pakistan Maritime Security Agency Plot No 34-A, Dockyard Road KARACHI Telephone 021-48509194

Fax 99214625

E-Mail dpcc@pmsa.gov.pk

INVITATION TO TENDER GENERAL INSTRUCTIONS

1. <u>CONDITIONS GOVERNING CONTRACT:</u>

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. SUMBISSION OF TENDER:

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

- **TECHNICAL OFFER:** Should contain all relevant details and specifications as per the IT specifications. Literature / Brochure or any other relevant technical details may also be included in it. Technical offer should not contain the price. Indication of price in technical offer may render it null and void. The word "Technical Offer" should be clearly mentioned alongwith the tender No anddate on the envelope containing the technical offer.
- b. <u>COMMERCIAL OFFER:</u> The price be quoted in figures as well as in words alongwith essential Literature / Brochures. The word "Commercial Offer", tender number should be clearly mentioned on the envelope. Taxes, duties, freight / transportation, insurance charges etc if any areto be indicated separately.
- c. <u>BID SECURITY</u>: All registered firms are exempted from provision of bid security upto Rs.500,000/- and unregistered firms have to provide bid security equals to 02% for bids amounting upto Rs.500,000/- in the shape of Pay Order in favor of "IT Sale Account DG PMSA". Furthermore, firms are required to deposit bid security not exceeding 05% of the bid price for bid value amounting more than Rs.500,000/-. Moreover, following guidelines will be followed:
 - i. 2% from registered firms.
 - ii. 5% from un-registered firms.
- d. Total price of the items quoted against the tender is to be clearly mentioned. It should also contains a **pay order 2% or 5% in the shape of pay order of the offered value** as earnest money. Cross cheque or cash is not acceptable in this case. The offer received without earnest money will be rejected.
- e. **SPECIAL INSTRUCTIONS:** Tender documents and its conditions may please be read point to point and understood properly before quoting. All tender conditions should be responded properly. In case of any deviation due to non-acceptance of tender conditions, the same should be highlighted alongwith changed offer / conditions. Tender may however be liable to be rejected.

PREPARATION OF QUOTATION

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

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

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

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

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. <u>VALIDITY OFFER:</u>

period of quotations The validity indicated invariably extendable must be and should he for 90 davs 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:

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

9. TENDER FEE:

Each technical offer must be accompanied with Cash of Rs.1,000/- nonrefundable as tender fee (In favour of IT Sale Account DG PMSA) (Separate Quotations required for each IT Specification).

10. <u>INSPECTION AUTHORITY:</u>

Joint inspection of stores provided and work done will be carried out by committee appointed by HQ PMSA or as per the contract.

11. <u>CONDITION OF STORES:</u>

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

12. DOCUMENTS REQUIRED:

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

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

13. SECURITY DEPOSIT / BANK GUARANTEE:

To ensure timely and correct supply of stores the firm will furnish an unconditional Bank Guarantee (BG) from a schedule bank for an amount of 10% of the contract value (excluding taxes, duties / freight handling charges on a stamp paper of the value of (Rs.100/00) as per prescribed format in the shape of Bank Guarantee. Format of Bank Guarantee is at Annex "B". Furthermore, it is imperative to mention that deposit of PBG for HMI and Core Exchange cases will be equal to the total value of engine.

14. CURRENT BANK STATEMENT:

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

15. <u>INTEGRITY PACT:</u>

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

16. CORRESPONDENCE:

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

17. PRE SHIPMENT INSPECTION:

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

18. AMENDMENT IN CONTRACT:

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

19. DISCREPANCY:

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

20. PRICE VARIATION:

Price offered against IT are to be firm and final.

21. LIQUIDATED DAMAGES (LD):

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

22. RISK PURCHASE:

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

23. PENALTY:

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

24. ALL RIGHTS RESERVED:

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

25. PAYMENT:

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

26. PARTIAL ORDER.

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

27. <u>DISQUALIFICATION:</u>

Offers are liable to be rejected if:-

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