

SEPARATE QUOTATIONS REQUIRED FOR ATTACHED 34 X IT SPECIFICATIONS

SINGLE STAGE TWO ENVELOPE PROCEDURE

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

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

Stage I – Technical Proposal (First Envelope)

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

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

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

Stage II – Commercial Proposal (Second Envelope)

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

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

PROCUREMENT OF ISAT DOCK II MARINE SPARES ACCESSORIES – PMSS NUSRAT

S No	Description													
1.	Ship's Name	<u>PMSS NUSRAT</u>												
2.	Parent Equipment	<u>ISAT DOCK II MARINE</u>												
3.	OEM	<u>INMARSAT</u>												
4.	Make/ Model	<u>ISD 2 MARINE 2.1</u>												
5.	Serial No	<u>MNN 14899</u>												
6.	Origin	<u>SPAIN</u>												
7.	Sub Equipment	<u>Handset</u>												
8.	Assembly components	ISAT DOCK II MARINE HANDSET AND DOCKING STATION												
9.	Quantity	<table border="1"> <thead> <tr> <th>S No</th> <th>Description</th> <th>Qty</th> </tr> </thead> <tbody> <tr> <td>a.</td> <td>Handset</td> <td>01</td> </tr> <tr> <td>b.</td> <td>Docking Station</td> <td>01</td> </tr> </tbody> </table>	S No	Description	Qty	a.	Handset	01	b.	Docking Station	01			
S No	Description	Qty												
a.	Handset	01												
b.	Docking Station	01												
10.	Justification of work	Components are critically required for operation-ability of ISAT DOCK II MARINE set onboard												
11.	Work Required	<table border="1"> <thead> <tr> <th>a</th> <th>b</th> <th>c</th> <th>d</th> </tr> <tr> <th>Defect/ Routine List</th> <th>Repair Work Required</th> <th>Services Required</th> <th>Spares Required</th> </tr> </thead> <tbody> <tr> <td>ISAT DOCK II Handset and Docking station is defective due FWT</td> <td>Replacement of ISAT DOCK II MARINE Handset and Docking Station with cables and connectors</td> <td>See details at S No 12 column b</td> <td>See details at S No 12 column c</td> </tr> </tbody> </table>	a	b	c	d	Defect/ Routine List	Repair Work Required	Services Required	Spares Required	ISAT DOCK II Handset and Docking station is defective due FWT	Replacement of ISAT DOCK II MARINE Handset and Docking Station with cables and connectors	See details at S No 12 column b	See details at S No 12 column c
a	b	c	d											
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12.	Details Scope of Work	<table border="1"> <thead> <tr> <th>a</th> <th>b</th> <th>c</th> </tr> <tr> <th>Details of Repair work Required</th> <th>Details of services Required</th> <th>Details of Spares Required</th> </tr> </thead> <tbody> <tr> <td>Replacement of ISAT DOCK II MARINE Handset and Docking Station with cables and connectors</td> <td> <ul style="list-style-type: none"> Replacement of Handset and Docking station with connectors Servicing of Antenna </td> <td> <ul style="list-style-type: none"> Handset Docking Station Cable with connectors </td> </tr> </tbody> </table>	a	b	c	Details of Repair work Required	Details of services Required	Details of Spares Required	Replacement of ISAT DOCK II MARINE Handset and Docking Station with cables and connectors	<ul style="list-style-type: none"> Replacement of Handset and Docking station with connectors Servicing of Antenna 	<ul style="list-style-type: none"> Handset Docking Station Cable with connectors 			
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13.	Technical Specs	<p>a. Power supplied by ISATDOCK (no additional power required) Temperature range: (-40C to 70C)</p> <p>b. Frequency: L BAND (1-2 GHz)</p>												
14.	Eligibilities	<p>a. As per TSR</p> <p>b. The firm should visit onboard, access the extent of required work and understand exact nature of defect before quotation.</p> <p>c. The firm should be having good experience to repair/ maintenance/ replacement of such system/equipment.</p> <p>d. The firm should be NTN/GST registered.</p> <p>e. Firm to provide services for ISAT DOCK II MARINE Handset and Docking station warranty period</p>												
15.	EDC	14 x working days after issuance of work order.												
16.	Warranty	01 Year												
17.	Acceptance Criteria	HATs/ SATs after completion of work												

**OVERHAULING OF EMERGENCY GENERATOR AIR STARTER MOTOR & CLEANING/
REPLACEMENT OF RADIATOR - PMSS KASHMIR**

S No	Description				
1.	Ship's Name	PMSS KASHMIR			
2.	Parent Equipment	EMERGENCY AND HARBOR GENERATOR (CUMMINS)			
3.	OEM	CHINA CUMMINS GENERATOR TECHNOLOGIES CHINA SHANGHAI KONTUNE POWER CO.,LTD			
4.	Make/ Model	CCFJ250J-KCE			
5.	Origin	China			
6.	Sub Equipment	a. Air Start motor b. E/DG Radiator & Exhaust system			
7.	Assembly components	a. Air Start motor b. E/DG Radiator & Exhaust system			
8.	Part No of assembly components	S No	Part No	Description	Req Qty
		a.	2871252	Air Start motor	<u>01</u>
		b.	NIL (As per sample)	E/DG Radiator & Exhaust system	<u>01</u>
9.	Quantity	As per Serial No 9			
10.	Source of availability	OEM/ Local Market			
11.	OEM Details	Address: SHANGHAI KONTUNE POWER CO, LTD Contact Phone: 020-84872932 Contact Email: sales@kentec.co.uk			
12.	Justification of work	Overhauling of above mentioned items is required for SAT OPS			
13.	Work Required	a	b	c	d
		Defect/ Routine List	Repair Work Required	Services Required	Spares Required
		Performance of air start motor and Radiator of Emergency Generator has significantly been degraded.	Overhauling of air start motor & chemical cleaning/ replacement of Radiator required for SAT OPS.	Overhauling of air start motor & chemical cleaning/ replacement of Radiator required for SAT OPS.	As per S No 8 & 9
14.	Details Scope of Work	a	b	c	
		Details of Repair work Required	Details of services Required	Details of Spares Required	
		Overhauling/ inspection of air start motor & chemical cleaning of Radiator required. Moreover, air & exhaust system inspection required for SAT OPS.	Overhauling/ inspection of air start motor & chemical cleaning/ replacement of Radiator required. Moreover, air & exhaust system inspection required for SAT OPS	As per S No 8 & 9	
15.	Technical Specs	Model of Generator CCFJ250J-KC Generator Type: 4-stroke, straight, 6-cylinder, direct injection, turbo charged and air-cooled.			

		Fuel rate: 210 g/kW h Apparent power: 312.5kVA Current/ Frequency: 451A/ 50 Hz Model of air start motor 2871252 Starting pressure: 240L/s, free air amount (when 0.8MPa)
16.	Eligibilities	Reputable local/ international contractor registered with FBR and having working experience with PMSA.
17.	EDC	30 Days after award of contract
18.	Warranty	01 Year
19.	Acceptance Criteria	a. OEM Certified item b. Defective/ BER items must be replaced with new one c. Firm will not be allowed to use ship tools and manpower
20.	Any other relevant information	Contractor/ Rep of firm may visit ship onboard through P&CC Dte to inspect exact scope of work

REPAIR/ REPLACEMENT OF TUBE LIGHTS COVERS, BULBS COVERS & BRASS PROTECTIVE GRILLS - PMSS BASOL

S No	Description														
1.	Ship's Name	PMSS BASOL													
2.	Parent Equipment	Tube lights and bulbs													
3.	OEM	CHINA													
4.	Make/ Model	JCY22-2J													
5.	Origin	CHINA													
6.	Sub Equipment	Tube lights covers and bulbs covers and brass protective grills.													
7.	Assembly components	Tube lights covers and bulbs covers and brass protective grills.													
8.	Part No of assembly components	As Provided by OEM													
9.	Quantity	48 In No indoor lights rectangular plastic cover 20 In No outdoor lights rectangular plastic cover 30 In No outdoor round jamps along with protective brass grill 03 In 'No large tube light plastic covers													
10.	Source of availability	Local Engineering Houses.													
11.	Justification of work	Replacement of deteriorated cover and protective grills.													
12.	Work Required	<table border="1"> <thead> <tr> <th align="center">a</th> <th align="center">b</th> <th align="center">c</th> <th align="center">d</th> </tr> </thead> <tbody> <tr> <td align="center">Defect/ Routine List</td> <td align="center">Repair Work Required</td> <td align="center">Services Required</td> <td align="center">Spares Required</td> </tr> <tr> <td>Replacement of deteriorated cover and protective grills.</td> <td>a. Contactor is to visit ship and carry out detail inspection of lights and cover. b. Replacement of deteriorated cover with new one. c. Removal and installation of in way components will be responsibility of firm.</td> <td>As per S No 13 Column b</td> <td>As per S No 9</td> </tr> </tbody> </table>	a	b	c	d	Defect/ Routine List	Repair Work Required	Services Required	Spares Required	Replacement of deteriorated cover and protective grills.	a. Contactor is to visit ship and carry out detail inspection of lights and cover. b. Replacement of deteriorated cover with new one. c. Removal and installation of in way components will be responsibility of firm.	As per S No 13 Column b	As per S No 9	
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14.	Technical	As per OEM specs.													

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

REPAIR/ MAINTENANCE OF AUXILARY SEA WATER COOLING PUMP - PMSS BASOL

S No	Description				
1.	Ship's Name	PMSS BASOL			
2.	Parent Equipment	Sea water cooling system			
3.	OEM	JIANGSU ZHENHUA PUMP INDYSTRY CO, LTD			
4.	Make/ Model	CLH50-32-4-5(Z)			
5.	Origin	China			
6.	Sub Equipment	Main Fridge fan stabilizers and stern seals cooling system			
7.	Assembly components	A/E seawater cooling pumps			
8.	Part No of assembly components	S No	Part Number	Description	Req Qty
		a.	NA	Pump body	01
		b.	NA	Impeller	01
		c.	58U-30	Mechanical seal	01
		d.	6206	Bearings	03
		e.	Z60-C-2.5	Guage with adaptor	02
		f.	NA	Adaptor	04
g.	NA	Shaft	01		
9.	Quantity	As per S No 8			
10.	Source of availability	Local Market			
11.	OEM Details	GJJM-9x4, Jiang Du Qu, Yang Zhou Shi, Jiang Su Sheng, China, 255266			
12.	Justification of work	A/E sea water pump found degraded. Mechanical seal leaky and abnormal noise observed, overhauling of pump is to be required for sat ops			
13.	Work Required	a	b	c	d
		Defect list	Repair work Required	Services Required	Spare Required
		A/E sea water pump found degraded. Mechanical seal leaky and abnormal noise observed, overhauling of pump is to be required for sat ops	Fabrication of new pump body, mechanical seal, impeller. Servicing of motor. Alignment of pump	A/E sea water pump found degraded. Mechanical seal leaky and abnormal noise observed, overhauling of pump is to be required for sat ops	As per S No 8

		a	b	c	d
		Defect list	Repair work Required	Services Required	Spare Required
14.	Details Scope of Work	A/E sea water pump found degraded. Mechanical seal leaky and abnormal noise observed, overhauling of pump is to be required for sat ops.	Fabrication of new pump body, mechanical seal, impeller. Servicing of motor. Alignment of pump	A/E sea water pump found degraded. Mechanical seal leaky and abnormal noise observed, overhauling of pump is to be required for sat ops	As per S No 8
15.	Technical Specs	As per OEM manual			
16.	Eligibilities	Security wise clear firm having working experience on sea water cooling system pumps on board HINGOL Class MPVs of PMSA.			
17.	EDC	07 Days			
18.	Warranty	One year warranty after satisfactory test / trails w.r.t: a. Satisfactory suction and discharge pressure of sea water cooling pump b. Satisfactory and smooth operation without abnormal noise and vibration. c. Satisfactory operation without any leakage from mechanical seal, pump body and gauges lines. d. Satisfactory operation of gauges after installation of gauges lines. e. Precise alignment, impeller should be free to rotate. f. Any abnormality in pump, mechanical seal, water leakage from pump body/ gauges lines, suction, discharge pressure and motor performance will be rectified by the firm during warranty period.			
19.	Acceptance Criteria	a. Satisfactory test and trials with smooth operation of sea water pump without abnormal noise or vibration and any type of leakage. b. Satisfactory suction and discharge pressure of sea water pump. c. Satisfactory test and trials with smooth operation of motor without abnormal noise and vibration. d. Satisfactory operation of gauges after installation of gauges lines.			
20.	Any other relevant information	Firm may visit onboard for clear understanding of scope of work before quoting.			

PROCUREMENT OF 3KVA UPS FOR GYRO BACKUP - PMSS KASHMIR

S No	Description													
1.	Ship's Name	PMSS KASHMIR												
2.	Parent Equipment	APC SMART UPS SRT 3000VA RM 230V												
3.	OEM	SCHNEIDER ELECTRIC LTD												
4.	Make/ Model	SRT3000RMXLI												
5.	Serial No	SRT3000RMXLI												
6.	Origin	USA												
7.	Sub Equipment	APC SMART UPS SRT 3000VA RM 230V												
8.	Part No of assembly components	AS0821221081/ APC-3000 VA SMT												
9.	Quantity	1 X APC SMART UPS SRT 3000VA RM 230V												
10.	Source of availability	Local Market/ Firm												
11.	Justification of work	3 KVA UPS is required for provisioning of uninterrupted DC power supply for Gyro as backup												
12.	Work Required	<table border="1"> <thead> <tr> <th align="center">a</th> <th align="center">b</th> <th align="center">c</th> <th align="center">d</th> </tr> </thead> <tbody> <tr> <td align="center">Defect/ Routine List</td> <td align="center">Repair Work Required</td> <td align="center">Services Required</td> <td align="center">Spares Required</td> </tr> <tr> <td align="center">N/A</td> <td></td> <td>Procurement / onboard installation/ STW of 3 KVA UPS with Gyro</td> <td>3 KVA UPS along with requisite cables</td> </tr> </tbody> </table>	a	b	c	d	Defect/ Routine List	Repair Work Required	Services Required	Spares Required	N/A		Procurement / onboard installation/ STW of 3 KVA UPS with Gyro	3 KVA UPS along with requisite cables
		a	b	c	d									
		Defect/ Routine List	Repair Work Required	Services Required	Spares Required									
N/A		Procurement / onboard installation/ STW of 3 KVA UPS with Gyro	3 KVA UPS along with requisite cables											
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		a	b	c										
Details of Repair work Required	Details of services Required	Details of Spares Required												
-	Procurement / onboard installation/ STW of 3 KVA UPS with Gyro	3 KVA UPS along with requisite cables												
14.	Technical Specs	a. Input/ Output Voltage: 220V AC b. Input/ Output Voltage: 110V AC c. Frequency: 50/ 60 HZ d. Automatic voltage Regulation Feature e. Maintenance Free sealed lead acid built-in batteries												
15.	Eligibilities	a. Have past experience w.r.t procurement of electronic items onboard PMSA Ships. b. Local contractor must visit to understand exact requirement/ scope of work.												
16.	EDC	07 days												
17.	Warranty	a. 1 x year warranty after satisfactory trials/ test. b. Material will be replaced if deformity or wear is developed during warranty period.												
18.	Acceptance Criteria	Satisfactory work after successful trials												
19.	Any other relevant information	a. Contact SS/ visit onboard for clear understanding of scope of work. b. Damage/ defect occurred to system during work is responsibility of contractor.												

PROCUREMENT OF 24V DC REGULATED POWER SUPPLY - PMSS KASHMIR

S No	Description									
1.	Ship's Name	PMSS KASHMIR								
2.	Parent Equipment	STD-22 Gyro								
3.	OEM	China								
4.	Make/ Model	Type KNT-2500A								
5.	Serial No	QJ-1824C								
6.	Origin	QJ dianzi Dian Qi Quang, China								
7.	Sub Equipment	DC Regulated Power Supply								
8.	Assembly components	DC Regulated Power Supply								
9.	Quantity	01								
10.	Source of availability	OEM/ Through Local contractor								
11.	Justification of work	DC Regulated Power Supply is required for provisioning of 24V DC Power supply to Gyro STD-22.								
12.	Work Required	a		b		c		d		
		Defect/ Routine List		Repair Work Required		Services Required		Spares Required		
		N/A		N/A		-		01 x 24V DC 25A Power supply is required.		
13.	Details Scope of Work	a			b			c		
		Details of Repair work Required			Details of services Required			Details of Spares Required		
		-			N/A			01 x 24V DC 25A Power supply is required.		
14.	Technical Specs	a.	Input: 220V AC & 24V DC (02 Channels)							
		b.	Output Voltage: 24V DC (01 Channel)							
		c.	Ampere Rating: ~ 25 A							
		d.	Dimensions: (W x H x L): 254 mm x 254 mm x 127 mm							
		e.	Protection: Over-current, Over-voltage, Over-temperature.							
15.	Eligibilities	Reputable Local Contractor								
16.	EDC	15 Days								
17.	Warranty	1 Year from date of delivery.								
18.	Acceptance Criteria	a.	End user satisfaction after successful trials.							
		b.	Firm registered with FBR							

FABRICATION ALONG WITH INSTALLATION OF GEAR BOX AND SHAFT BEARINGS SEA WATER LINES - PMSS NUSRAT

S No	Description													
1.	Ship's Name	PMSS NUSRAT												
2.	Parent Equipment	Gear Box and Shaft Bearings												
3.	Origin	China												
4.	Sub Equipment	Sea Water Lines												
5.	Assembly components	Sea Water Lines												
6.	Quantity	17 x Sea Water Lines												
7.	Justification of work	Sea Water lines of Gear boxes and shaft bearings degraded due FWT												
8.	Work Required	<table border="1"> <thead> <tr> <th>a</th> <th>b</th> <th>c</th> <th>d</th> </tr> </thead> <tbody> <tr> <td>Defect/ Routine List</td> <td>Repair Work Required</td> <td>Services Required</td> <td>Spares Required</td> </tr> <tr> <td>Sea Water lines of Gear boxes and shaft bearings degraded due FWT</td> <td>Replacement and pressure testing of sea water lines is required for sat ops</td> <td>See details S No 14 Column B</td> <td>a. 17 x Sea Water Lines of Brass material. b. SS nuts and bolts as per requirement.</td> </tr> </tbody> </table>	a	b	c	d	Defect/ Routine List	Repair Work Required	Services Required	Spares Required	Sea Water lines of Gear boxes and shaft bearings degraded due FWT	Replacement and pressure testing of sea water lines is required for sat ops	See details S No 14 Column B	a. 17 x Sea Water Lines of Brass material. b. SS nuts and bolts as per requirement.
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		a	b	c										
		Details of Repair work Required	Details of services Required	Details of Spares Required										
Replacement and pressure testing of sea water lines is required for sat ops	a. 04 x Gear box overboard lines (dia 2", length 66'). b. 04 x Gear box cooling inlet lines (dia 2", length 96'). c. FSME shaft bearing cooling line in FER & AER (dia 2", length 12'). d. FSME shaft bearing cooling line in FER & AER (dia 2", length 8'). e. FPME shaft bearing cooling line in FER & AER (dia 2", length 12'). f. FPME shaft bearing cooling line in FER & AER (dia 2", length 8'). g. ASME shaft bearing cooling line in FER & AER (dia 2", length 8'). h. ASME shaft bearing cooling line in FER & AER (dia 2", length 6'). j. APME shaft bearing cooling line in FER & AER (dia 2", length 8'). k. APME shaft bearing cooling line in FER & AER (dia 2", length 6') l. FPME sea water pump suction line (dia 6", length 5') m. All above mentioned lines are to	a. 17 x Sea Water Lines of Brass material. b. SS. nuts and bolts as per requirement'												

		<p>be removed.</p> <p>n. New lines are to be made as per sample and pressure testing carried out.</p> <p>p. New lines are to be fitted back.</p> <p>q. Special tools are to be arranged by the firm for dismantling and fitting of said lines.</p> <p>r. The firm will be responsible to undertake any work not covered above to ensure good quality of work.</p> <p>s. The firm will; be responsible for welding/ cutting, if required.</p> <p>t. The firm will be responsible for requirement of external services.</p> <p>u. The firm will be responsible for all removal, transportation and installation work during warranty/ guarantee period claims and in case of any re-work.</p>	
10.	Technical Specs	As per scope of work	
11.	Eligibilities	<p>a. The firm should visit onboard and carry out inspection to establish the extent of required work and spares.</p> <p>b. The firm should have good experience of the same kind of work required onboard.</p> <p>c. The firm should be NTN/GTN registered</p>	
12.	EDC	03 x weeks after issuance of work/ confirmation order	
13.	Warranty	01 year from the date of acceptance	
14.	Acceptance Criteria	<p>a. Satisfactory work done by the firm.</p> <p>b. Satisfactory HATs.</p> <p>c. Practical acceptance by SS.</p>	

PROCUREMENT INSTALLATION OF RESILIENT COUPLING OF FPME - PMSS NUSRAT

S No	Description													
1.	Ship's Name	PMSS NUSRAT												
2.	Parent Equipment	FPME												
3.	OEM	MTU												
4.	Make/ Model	16 V 396 TB 93 (4 Stroke Water Cooled System)												
5.	Serial No	5590588												
6.	Origin	Germany												
7.	Sub Equipment	VULKAN Resilient coupling												
8.	Assembly components	VULKAN Resilient coupling												
9.	Part No of assembly components	EZR 2032												
10.	Quantity	01												
11.	Justification of work	FPME Resilient coupling suspected to be worn out as observed during inspection by SS vide MOP No 017 (MMS-2). Coupling is to be replaced with new for sat ops												
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		<p>requirement of external services.</p> <p>j. The firm will be responsible for all removal, transportation and installation work during warranty/ guarantee period claims and in case of any re-work.</p> <p>k. There will no growth work</p>	
14.	Technical Specs	As per scope of work	
15.	Eligibilities	<p>a. The firm should visit onboard and carry out inspection to establish the extent of required work and spares</p> <p>b. The firm should have good experience of the same kind of work required onboard.</p> <p>c. The firm should be NTN/GTN registered</p>	
16.	EDC	20 days after issuance of work/ confirmation order	
17.	Warranty	01 year from the date of acceptance	
18.	Acceptance Criteria	<p>a. Satisfactory work done by the firm.</p> <p>b. Satisfactory HATs and SATs of FPME.</p> <p>c. Practical acceptance by SS.</p>	

COMPLETE REFURBISHMENT OF SHIP'S GALLEY - PMSS NUSRAT

S No	Description				
1.	Ship's Name	PMSS NUSRAT			
2.	Parent Equipment	Complete refurbishment of ship's galley			
3.	Sub Equipment	Deep fryer, Heat proof Lights, Hot Plates, Exhaust fan, Ship galley oven, & electrical supply box			
4.	Justification of work	Deteriorated due to FWT			
5.	Work Required	a	b	c	d
		Defect/ Routine List	Repair Work Required	Services Required	Spares Required
		Deteriorated due to FWT	Complete refurbishment of ship's galley	See detail S No 6 Column b	a. 02 x heat proof lights. b. 02 x hot plates. c. 02x electrical supply boxes. d. 01 x exhaust fan with trunking. e. Others spares as per requirement.
6.	Details Scope of Work	a	b	c	
		Details of Repair work Required	Details of services Required	Details of Spares Required	
		Complete refurbishment of ship's galley	a. Overhauling of deep fryer. b. Replacement of 02 x heat proof lights. c. Replacement of 02 x Hot plates (Marine Version). d. Replacement of exhaust fan with trunking on main plates. e. Overhauling of Ship's galley oven. f. Replacement of 02 Ship's galley hot plates electrical supply boxes with new. g. Special tools and spares are to be arrange by the firm for said work. h. The firm will be responsible to undertake any work not covered above to ensure good quality of work. i. The firm will be responsible for welding/ cutting, if required. j. The firm will be responsible for requirement of external services. k. The firm will be responsible for all removal, transportation and installation work during warranty/	a. 02 x heat proof lights. b. 02 x hot plates. c. 02x electrical supply boxes. d. 01 x exhaust fan with trunking. e. Others spares as per requirement.	

		guarantee period claims and in case of any re-work.
7.	Technical Specs	As per scope of work
8.	Eligibilities	<p>d. The firm should visit onboard and carry out inspection to establish the extent of required work and spares</p> <p>e. The firm should have good experience of the same kind of work required onboard.</p> <p>f. The firm should be NTN/GTN registered</p>
9.	EDC	20 days after issuance of work/ confirmation order
10.	Warranty	01 year from the date of acceptance
11.	Acceptance Criteria	<p>a. Satisfactory work done by the firm.</p> <p>b. Practical acceptance by SS.</p>

**REPAIRING OF WATER TIGHT HATCHES TO MAINTAIN WATER TIGHT INTEGRITY -
PMSS NUSRAT**

S No	Description				
1.	Ship's Name	PMSS NUSRAT			
2.	Parent Equipment	Repairing of water tight hatches to maintain water tight integrity			
3.	Origin	China			
4.	Sub Equipment	Hatches			
5.	Assembly components	Hatches			
6.	Quantity	07			
7.	Justification of work	Said hatches are deteriorated due to FWT and not properly sealed			
8.	Work Required	a	b	c	d
		Defect/ Routine List	Repair Work Required	Services Required	Spares Required
		Said hatches are deteriorated due to FWT and not properly sealed	Repairing of under mentioned water tight hatches for sat ops	See detail S No 9 Column b	As per requirement
9.	Details Scope of Work	a	b	c	
		Details of Repair work Required	Details of services Required	Details of Spares Required	
		Repairing of under mentioned water tight hatches to maintained water tight integrity.	a. Fwd Mess emergency hatch deteriorated, hatch to be repaired. b. BOSN store hatch to be repaired. c. Magazine hatch and securing guard support to be repaired. d. EVAC compartment hatch to be repaired. e. ASP compartment hatch to be repaired. f. Aft engine room 02 x emergency hatches deteriorated, hatches are to be repaired g. Special tools and spares are to be arrange by the firm for said work h. The firm will be responsible to undertake any work not covered above to ensure good quality of work j. The firm will be responsible for welding/ cutting, if required. k. The firm will be responsible for requirement of external services. l. The firm will be responsible for all removal, transportation and installation work during warranty/ guarantee period claims and in case of any re-work	As per requirement	

10.	Technical Specs	As per scope of work
11.	Eligibilities	<p>g. The firm should visit onboard and carry out inspection to establish the extent of required work and spares</p> <p>h. The firm should have good experience of the same kind of work required onboard.</p> <p>i. The firm should be NTN/GTN registered</p>
12.	EDC	20 days after issuance of work/ confirmation order
13.	Warranty	01 year from the date of acceptance
14.	Acceptance Criteria	<p>a. Satisfactory work done by the firm.</p> <p>b. Practical acceptance by SS</p>

APPLICATION OF EPOXY FLOORING ON 1 & 01 DECKS - PMSS BARKAT

S No	Description																																																																		
1.	Ship's Name	PMSS BARKAT																																																																	
2.	Parent Equipment	1 x 01 Decks																																																																	
3.	Sub Equipment	12 x Compartments																																																																	
4.	Source of availability	Local Market																																																																	
5.	Justification of work	After DED of the Ship, renewal of epoxy flooring is required to maintain habitability condition of the ship																																																																	
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			for said Repair/ Maintenance are to be arranged by the firm
		v.	The firm will be responsible for all removal, transportation and installation work during warranty/ grantee periods claims in case of any rework
		vi.	No growth work will be processed
		vii.	Any damage/defect/wear tear occurred during course of removal, repair and installation of system/ equipment's will be repaired/ met by firm.
8.	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.
		a.	The firm should be NTN /GST registered
9.	EDC		21 x Days after issuance of work/ confirmation order.
10.	Warranty		03 Year
11.	Acceptance Criteria	a.	Successful completion and acceptance by the end user.
		b.	No scratches on surface of deck
12.	Any other relevant information		Quality material is to be used.

IT NO: IT/88/11/2025-26

PROCUREMENT OF PNEUMATIC TUBE AND RUBBER FENDER LINE OF ZHB-03 – PMSA

S No	Description		
1.	Ship's Name	PMSS NAZIM/ PMSA Base Gwadar	
2.	Parent Equipment	Replacement of pneumatic tube and rubber fender line ZHB-03	
3.	Quantity	01	
4.	Justification of work	Presently, ZHB-03 is in ops condition, however, the pneumatic tube and rubber fender line is deteriorated and unable to repair due FWT. Moreover, tube is unable to retain air permanently for long duration causing severally damage the hull of boat while securing alongside jetty or boat as well as during boarding ops in sea/ rough weather. Therefore, pneumatic tube and rubber fender line is needed to be replaced.	
5.	Work Required	Following items/ parts are required to be replace with new:	
		S No	Description
		a.	Pneumatic tube and rubber fender line
		Remarks	
6.	Details Scope of Work	Presently, ZHB-03 is in ops condition with defect mentioned in S No 05.	
7.	Technical Specs	Overall length of boat =11.5 meter Beam of boat = 4.3 meter Boat weight = 3954 Kg (Tonnage)	
8.	Eligibilities	Any local/ international well reputed firm having experience of said work. Firm must visit and physically inspect the work site.	
9.	EDC	15 days	
10.	Warranty	01 year	
11.	Acceptance Criteria	Inspection by end user and successful completion of work	

**APPLICATION OF EPOXY PAINT OF DECKS OF INTERNAL COMPARTMENTS - PMSS
DASHT**

S No	Description													
1.	Ship's Name	PMSS DASHT												
2.	Parent Equipment	Application of Epoxy Paint on Decks of Internal Compartments												
3.	Sub Equipment	Application of Epoxy Paint on Decks of Internal Compartments												
4.	Assembly components	Application of Epoxy Paint on Decks of Internal Compartments												
5.	Part No of assembly components	a. Deck and Floor covering surface compound b. Epoxy Seal coat. c. Chip white. d. Deck covering terrazzo mix (Epoxy underlayment)												
6.	Quantity	3983 (Square Feet) (List attached)												
7.	Source of availability	Through Local Contractor												
8.	Justification of work	Upon inspection degradation of decks.												
9.	Work Required	<table border="1"> <thead> <tr> <th>a</th> <th>b</th> <th>c</th> <th>d</th> </tr> </thead> <tbody> <tr> <td>Defect/ Routine List</td> <td>Repair Work Required</td> <td>Services Required</td> <td>Spares Required</td> </tr> <tr> <td>N/A</td> <td colspan="3">Renovation of decks of internal as compartments mentioned in S No 6</td> </tr> </tbody> </table>	a	b	c	d	Defect/ Routine List	Repair Work Required	Services Required	Spares Required	N/A	Renovation of decks of internal as compartments mentioned in S No 6		
a	b	c	d											
Defect/ Routine List	Repair Work Required	Services Required	Spares Required											
N/A	Renovation of decks of internal as compartments mentioned in S No 6													
10.	Details Scope of Work	<table border="1"> <thead> <tr> <th>a</th> <th>b</th> <th>c</th> </tr> </thead> <tbody> <tr> <td>Details of Repair work Required</td> <td>Details of services Required</td> <td>Details of Spares Required</td> </tr> <tr> <td colspan="3"> Application of epoxy paint on decks of internal compartments while ensuring below: a. Deck and Floor covering surface compound b. Epoxy Seal coat. c. Chip white. d. Deck covering terrazzo mix (Epoxy underlayment) e. Firm is to apply epoxy after clearing & cleaning the surface, i.e surface is to be prepared properly before application of epoxy. f. Any growth work/ damage will be responsibility of the firm. </td> </tr> </tbody> </table>	a	b	c	Details of Repair work Required	Details of services Required	Details of Spares Required	Application of epoxy paint on decks of internal compartments while ensuring below: a. Deck and Floor covering surface compound b. Epoxy Seal coat. c. Chip white. d. Deck covering terrazzo mix (Epoxy underlayment) e. Firm is to apply epoxy after clearing & cleaning the surface, i.e surface is to be prepared properly before application of epoxy. f. Any growth work/ damage will be responsibility of the firm.					
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11.	Eligibilities	a. Reputable firm having working experience on renovation of decks/ epoxy work. b. Firm must visit site for understanding exact nature of work.												
12.	EDC	07 x Days												
13.	Warranty	Three year after satisfactory installation of deck tiles.												
14.	Acceptance Criteria	High quality epoxy required.												
15.	Any other relevant information	a. Damage/ defect to item during work will be responsibility of contractor. b. Contractor must visit site before quoting to fully understood scope of work.												

**APPLICATION OF EPOXY PAINT OF DECKS OF INTERNAL COMPARTMENTS - PMSS
DASHT**

S No	Compartments	Area (Sq ft)	Remarks
1.	GUN CONTROL ROOM	40	
2.	MAGAZINE	169	
3.	CO CABIN	202	
4.	EXO CABIN	145	
5.	OFFICER WASHROOM	54	
6.	WARDROOM	121	
7.	SICK BAY	99	
8.	PANTRY	54	
9.	ROUTINE OFFICE	56	
10.	JR DINING HALL	198	
11.	SRDH	84	
12.	DIVING STORE	24	
13.	DRY RATION STORE	32	
14.	CO ² STOWAGE ROOM	40	
15.	EMERGENCY DG	160	
16.	AFT DC	54	
17.	ARMORY	54	
18.	STORE 5	192	
19.	GYRO ROOM	42	
20.	ILS	120	
21.	CPOs MESS	143	
22.	POs MESS	120	
23.	FWD LOUNGE	130	
24.	FWD DC LOCKER	60	
25.	MESS NO 1	51	
26.	MESS NO 2	51	
27.	SHIP'S OFFICE	35	
28.	STORE OFFICE	90	
29.	AFT LOUNGE	162	
30.	HMESSNO 3	48	
31.	MESS NO 4	48	
32.	BRIDGE	180	
33.	MRO	28	
34.	OPS ROOM	77	
35.	OFFICER WASHROOM	35	
36.	OFFICER CABIN 1	128	
37.	STORE NO 2	16	
38.	OFFICER CABIN 2	60	
39.	BATTERY STOWAGE ROOM	25	
40.	BATTERY CHARGING ROOM	25	
41.	BRIDGE DECK ELWAY TILL CABIN 2	75	
42.	OFFICER ELWAY WARDROOM	123	
43.	SAILORS TOILET ELWAY	102	
44.	CPOS & POS MESS ELWAY	69	
45.	FRIDGE FLAT	162	
Total (Square Feet)		3983	

OVERHAULING OF CAPSTAN - PMSS NUSRAT

S No	Description													
1.	Ship's Name	PMSS NUSRAT												
2.	Parent Equipment	Capstan												
3.	Make/ Model	JZ2-H416 Series												
4.	Sub Equipment	Capstan, Gearbox, Motor and Controller												
5.	Assembly components	Capstan												
6.	Quantity	01												
7.	Justification of work	Defect rectification/ resolution of Undermentioned faults/alarms of Syncro ASM fire Alarm Panel a. System Fault b. Input Activated c. Monitor Output Fault d. Internal Fault e. Defective detectors need to be replaced												
8.	Work Required	<table border="1"> <thead> <tr> <th>a</th> <th>b</th> <th>c</th> <th>d</th> </tr> <tr> <th>Defect/ Routine List</th> <th>Repair Work Required</th> <th>Services Required</th> <th>Spares Required</th> </tr> </thead> <tbody> <tr> <td>Overhauling of Capstan is required for smooth operation. Reference MOP No 008</td> <td>Overhauling of capstan is required for sat ops</td> <td>See details S No 09 Column b</td> <td>As per requirement</td> </tr> </tbody> </table>	a	b	c	d	Defect/ Routine List	Repair Work Required	Services Required	Spares Required	Overhauling of Capstan is required for smooth operation. Reference MOP No 008	Overhauling of capstan is required for sat ops	See details S No 09 Column b	As per requirement
a	b	c	d											
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10.	Technical Specs	As per IT Specs												

11.	Eligibilities	<ul style="list-style-type: none"> a. The firm should visit onboard and carry out inspection to establish the extent of required work and Spares b. The firm should have good experience of the same kind of work required onboard. c. The firm should be NTN/GTN registered.
12.	EDC	02 x week after issuance of work/ confirmation order
13.	Warranty	01 year from the date of acceptance
14.	Acceptance Criteria	<ul style="list-style-type: none"> a. Satisfactory work done by the firm. b. Satisfactory HATs of Capstan c. Practical acceptance by SS

REPAIR/ MAINTENANCE OF FIRE ALARM PANEL - PMSS DASHT

S No	Description													
1.	Ship's Name	PMSS DASHT												
2.	Parent Equipment	Fire Alarm System												
3.	OEM	Kentec Electronics Ltd												
4.	Make/ Model	Syncro ASM Fire Panel												
5.	Origin	UK												
6.	Sub Equipment	Syncro ASM Fire Panel												
7.	Part No of assembly components	<table border="1"> <thead> <tr> <th>Part Number</th> <th>Description</th> <th>Req Qty</th> </tr> </thead> <tbody> <tr> <td align="center">MA80161M2</td> <td align="center">Syncro ASM Fire Panel</td> <td align="center">01</td> </tr> </tbody> </table>	Part Number	Description	Req Qty	MA80161M2	Syncro ASM Fire Panel	01						
		Part Number	Description	Req Qty										
MA80161M2	Syncro ASM Fire Panel	01												
8.	Quantity	As per Serial No 9												
9.	Source of availability	Local market/ Firm												
10.	OEM Details	<p>Address: Kentec Electronics Ltd, 25-26 Fawkes Avenue, Questor, Dartford, DA1 1JQ England.</p> <p>Contact Phone: +44(0)1322222121</p> <p>Contact Email: sales@kentec co uk</p>												
11.	Justification of work	<p>Defect rectification/ resolution of Undermentioned faults/alarms of Syncro ASM fire Alarm Panel</p> <p>f. System Fault</p> <p>g. Input Activated</p> <p>h. Monitor Output Fault</p> <p>i. Internal Fault</p> <p>j. Defective detectors need to be replaced</p>												
12.	Work Required	<table border="1"> <thead> <tr> <th>a</th> <th>b</th> <th>c</th> <th>d</th> </tr> <tr> <th>Defect/ Routine List</th> <th>Repair Work Required</th> <th>Services Required</th> <th>Spares Required</th> </tr> </thead> <tbody> <tr> <td>Syncro ASM Fire Panel Defective</td> <td>Repair/ Replacement of Syncro ASM Fire Panel for satisfactory operation</td> <td>Repair/ Replacement of Syncro ASM Fire Panel, for satisfactory operation</td> <td align="center">N/A</td> </tr> </tbody> </table>	a	b	c	d	Defect/ Routine List	Repair Work Required	Services Required	Spares Required	Syncro ASM Fire Panel Defective	Repair/ Replacement of Syncro ASM Fire Panel for satisfactory operation	Repair/ Replacement of Syncro ASM Fire Panel, for satisfactory operation	N/A
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		a	b	c										
Details of Repair work Required	Details of services Required	Details of Spares Required												
Repair/ Replacement of Syncro ASM Fire Panel for satisfactory operation	Repair/ Replacement of Syncro ASM Fire Panel, for satisfactory operation	N/A												
14.	Technical Specs	N/A												
15.	Eligibilities	<p>a. Any registered and security wise cleared locals contractor having good experience in above mentioned scope of work</p> <p>b. Firm must visit site for understanding exact nature of work involved in job prior quoting to avoid inconvenience on later stage after reward of Work Order. Firm is to quote for growth work by visiting ship in commercial quotation prior</p>												

		award of work order. HQ PMSA/ Ship will not accept growth work changes on later stages at all.
16.	EDC	01 x Month
17.	Warranty	01 x Year warranty
18.	Acceptance Criteria	<ul style="list-style-type: none"> a. OEM certified item. b. Technical specification to be provided. c. Upon scrutiny of items and provided documents i.e technical specification along with production certificates by OEM. d. Items will be accepted after satisfactorily test and trials onboard. e. OEM technical documents and warranty certificates of items required. f. Items must be genuine and OEM packed. Aftermarket products and item will not be accepted. g. Satisfactorily trails onboard ship.
19.	Any other relevant information	Firm must visit onboard for clarification of any query and better understanding of requirement

CLEANING & PAINT WORKS OF 03 X READY USE FUEL TANKS - PMSS KASHMIR

S No	Description													
1.	Ship's Name	PMSS KASHMIR												
2.	Parent Equipment	Storage Tanks												
3.	OEM	China Shipbuilding												
4.	Origin	China												
5.	Sub Equipment	Fuel System												
6.	Assembly components	Ready use fuel tanks												
7.	Quantity	<table border="1"> <thead> <tr> <th>S No</th> <th>Weight (t)</th> <th>Size (m⁴)</th> </tr> </thead> <tbody> <tr> <td>a.</td> <td>1.25</td> <td>2.12 m³</td> </tr> <tr> <td>b.</td> <td>1.25</td> <td>2.03 m³</td> </tr> <tr> <td>c.</td> <td>01</td> <td>1.87 m³</td> </tr> </tbody> </table>	S No	Weight (t)	Size (m ⁴)	a.	1.25	2.12 m ³	b.	1.25	2.03 m ³	c.	01	1.87 m ³
		S No	Weight (t)	Size (m ⁴)										
		a.	1.25	2.12 m ³										
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c.	01	1.87 m ³												
8.	Source of availability	Local Market												
9.	Justification of work	FWT												
10.	Work Required	<table border="1"> <thead> <tr> <th>a</th> <th>b</th> <th>c</th> <th>d</th> </tr> <tr> <th>Defect/ Routine List</th> <th>Repair Work Required</th> <th>Services Required</th> <th>Spares Required</th> </tr> </thead> <tbody> <tr> <td>Internal cleaning of paint work of 3 x ready use fuel tank (26.185 m³)</td> <td>Internal cleaning & Paint work required</td> <td>Yes</td> <td>Paint required as per PN policy</td> </tr> </tbody> </table>	a	b	c	d	Defect/ Routine List	Repair Work Required	Services Required	Spares Required	Internal cleaning of paint work of 3 x ready use fuel tank (26.185 m ³)	Internal cleaning & Paint work required	Yes	Paint required as per PN policy
		a	b	c	d									
		Defect/ Routine List	Repair Work Required	Services Required	Spares Required									
Internal cleaning of paint work of 3 x ready use fuel tank (26.185 m ³)	Internal cleaning & Paint work required	Yes	Paint required as per PN policy											
11.	Details Scope of Work	As per S No 13												
12.	Technical Specs	03 x Tank (Area 26.185 cubic meter)												
13.	Eligibilities	Reputable local contractor registered with FBR and PMSA.												
14.	EDC	30 Days after award of contract												
15.	Warranty	01 Year												
16.	Acceptance Criteria	Visual satisfactory inspection												

CLEANING & PAINT WORKS OF 15 X HSDO FUEL TANKS - PMSS KASHMIR

S No	Description																																											
1.	Ship's Name	PMSS KASHMIR																																										
2.	Parent Equipment	Storage Tanks																																										
3.	OEM	China Shipbuilding																																										
4.	Origin	China																																										
5.	Sub Equipment	Fuel System																																										
6.	Assembly components	Ready use fuel tanks																																										
7.	Quantity	<table border="1"> <thead> <tr> <th>S No</th> <th>Weight (t)</th> <th>Size (m⁴)</th> </tr> </thead> <tbody> <tr><td>d.</td><td>10.532</td><td>40</td></tr> <tr><td>e.</td><td>14.821</td><td>23</td></tr> <tr><td>f.</td><td>14.821</td><td>23</td></tr> <tr><td>g.</td><td>14.486</td><td>26.6</td></tr> <tr><td>h.</td><td>14.779</td><td>29.7</td></tr> <tr><td>i.</td><td>11.779</td><td>27.2</td></tr> <tr><td>j.</td><td>11.779</td><td>27.2</td></tr> <tr><td>k.</td><td>21.801</td><td>46.8</td></tr> <tr><td>j.</td><td>21.801</td><td>46.8</td></tr> <tr><td>k.</td><td>22.900</td><td>64</td></tr> <tr><td>l.</td><td>22.900</td><td>64</td></tr> <tr><td>m.</td><td>33.520</td><td>46.8</td></tr> <tr><td>n.</td><td>33.520</td><td>46.8</td></tr> </tbody> </table>	S No	Weight (t)	Size (m ⁴)	d.	10.532	40	e.	14.821	23	f.	14.821	23	g.	14.486	26.6	h.	14.779	29.7	i.	11.779	27.2	j.	11.779	27.2	k.	21.801	46.8	j.	21.801	46.8	k.	22.900	64	l.	22.900	64	m.	33.520	46.8	n.	33.520	46.8
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11.	Details Scope of Work	As per S No 13																																										
12.	Technical Specs	03 x Tank (Area 301 cubic meter)																																										
13.	Eligibilities	Reputable local contractor registered with FBR and having working experience with PMSA.																																										
14.	EDC	30 Days after award of contract																																										
15.	Warranty	01 Year																																										
16.	Acceptance Criteria	Visual satisfactory inspection																																										

SERVICING/ CLEANING OF PLATE CORE HEAT EXCHANGER, REPAIR/ OVERHAULING OF HP FUEL PUMP & HP AIR STARTER OF MAIN ENGINE NO 1 & 2 - PMSS DASHT

S No	Description													
1.	Ship's Name	PMSS DASHT												
2.	Parent Equipment	Main Engine No 1 & 2												
3.	OEM	MTU												
4.	Make/ Model	16V4000M73L												
5.	Serial No	N/A												
6.	Origin	Germany												
7.	Sub Equipment	Core Heat Exchanger, HP Fuel Pump, HP Air Starter												
8.	Assembly components	Core Heat Exchanger, HP Fuel Pump, HP Air Starter												
9.	Quantity	02												
10.	Source of availability	MTU												
11.	Justification of work	Servicing/ cleaning of Plate Core Heat Exchanger, repair/ overhauling of HP Fuel Pump and HP Air Starter of Main Engine No 1&2												
12.	Work Required	<table border="1"> <thead> <tr> <th align="center">a</th> <th align="center">b</th> <th align="center">c</th> <th align="center">d</th> </tr> <tr> <th align="center">Defect/ Routine List</th> <th align="center">Repair Work Required</th> <th align="center">Services Required</th> <th align="center">Spares Required</th> </tr> </thead> <tbody> <tr> <td>As per defect list.</td> <td>Servicing/ cleaning of Plate Core Heat Exchanger, repair/ overhauling of HP Fuel Pump and HP Air Starter of Main Engine No 1&2</td> <td> a. Isolation of engine coolant circuit/ accumulation of engine coolant in safe storage. b. Dismantling of all accessories required for cleaning of plate core heat exchanger. c. Servicing/ cleaning of plate core heat exchanger by removal of debris in detail d. Replacement of all 79 gaskets with new gaskets. e. Pressure test of heat exchanger after installation of seal at 150% of operating pressure i.e 1.05 bar/15 psi. f. Re-assembling of all accessories removed prior start of work. g. Conduct of Harbour and Sea trials at maximum 2050 Engine RPMs for 04 hours. h. Installation and dismantling of HP Air Starter of Main Engine No 1 & 2. j. Repair/ overhauling of HP Air Starter of Main Engine No 1 & 2. </td> <td align="center">N/A</td> </tr> </tbody> </table>	a	b	c	d	Defect/ Routine List	Repair Work Required	Services Required	Spares Required	As per defect list.	Servicing/ cleaning of Plate Core Heat Exchanger, repair/ overhauling of HP Fuel Pump and HP Air Starter of Main Engine No 1&2	a. Isolation of engine coolant circuit/ accumulation of engine coolant in safe storage. b. Dismantling of all accessories required for cleaning of plate core heat exchanger. c. Servicing/ cleaning of plate core heat exchanger by removal of debris in detail d. Replacement of all 79 gaskets with new gaskets. e. Pressure test of heat exchanger after installation of seal at 150% of operating pressure i.e 1.05 bar/15 psi. f. Re-assembling of all accessories removed prior start of work. g. Conduct of Harbour and Sea trials at maximum 2050 Engine RPMs for 04 hours. h. Installation and dismantling of HP Air Starter of Main Engine No 1 & 2. j. Repair/ overhauling of HP Air Starter of Main Engine No 1 & 2.	N/A
a	b	c	d											
Defect/ Routine List	Repair Work Required	Services Required	Spares Required											
As per defect list.	Servicing/ cleaning of Plate Core Heat Exchanger, repair/ overhauling of HP Fuel Pump and HP Air Starter of Main Engine No 1&2	a. Isolation of engine coolant circuit/ accumulation of engine coolant in safe storage. b. Dismantling of all accessories required for cleaning of plate core heat exchanger. c. Servicing/ cleaning of plate core heat exchanger by removal of debris in detail d. Replacement of all 79 gaskets with new gaskets. e. Pressure test of heat exchanger after installation of seal at 150% of operating pressure i.e 1.05 bar/15 psi. f. Re-assembling of all accessories removed prior start of work. g. Conduct of Harbour and Sea trials at maximum 2050 Engine RPMs for 04 hours. h. Installation and dismantling of HP Air Starter of Main Engine No 1 & 2. j. Repair/ overhauling of HP Air Starter of Main Engine No 1 & 2.	N/A											

		a	b	c
		Details of Repair work Required	Details of services Required	Details of Spares Required
13.	Details Scope of Work	<p>Servicing/ cleaning of Plate Core Heat Exchanger, repair/ overhauling of HP Fuel Pump and HP Air Starter of Main Engine No 1&2</p>	<p>a. Isolation of engine coolant circuit/ accumulation of engine coolant in safe storage. b. Dismantling of all accessories required for cleaning of plate core heat exchanger. c. Servicing/ cleaning of plate core heat exchanger by removal of debris in detail d. Replacement of all 79 gaskets with new gaskets. e. Pressure test of heat exchanger after installation of seal at 150% of operating pressure i.e 1.05 bar/15 psi. f. Re-assembling of all accessories removed prior start of work. g. Conduct of Harbour and Sea trials at maximum 2050 Engine RPMs for 04 hours. h. Installation and dismantling of HP Air Starter of Main Engine No 1 & 2. j. Repair/ overhauling of HP Air Starter of Main Engine No 1 & 2.</p>	N/A
14.	Technical Specs	As per Technical Manual/ OEM.		
15.	Eligibilities	<p>a. Must have relevant experience in above servicing/ cleaning and repair/ overhauling of said machinery items. b. Only OEM recommended spares must be used. c. Firm must visit site for understanding exact nature of defect/ hindrances involved in job prior quoting to avoid inconvenience on later stage after award of Work Order.</p>		
16.	EDC	07 x Days		
17.	Warranty	01 x Year		
18.	Acceptance Criteria	<p>a. Only OEM recommended spares must be used. b. No growth work will be accepted by firm.</p>		
19.	Any other relevant information	Contract MEO/ SS through DPCC to resolve any query		

PROCUREMENT & INSTALLATION OF LP COMPRESSOR - PMSS BARKAT

S No	Description																						
1.	Ship's Name	PMSS BARKAT																					
2.	Parent Equipment	LP Air System																					
3.	OEM	TANABE																					
4.	Make/ Model	LSHC-30 A																					
5.	Origin	China																					
6.	Sub Equipment	LPAC (Low Pressure Air Compressor)																					
7.	Assembly components	LP Compressor, Electric Motor, Starter Panel, Pressure Gauge, Pressure Switch, Relief Valve																					
8.	Quantity	01																					
9.	Source of availability	Local Market																					
10.	Justification of work	Performance of LPAC has been degraded over the period of time. Moreover, abnormal noise observed from compressor and LP air is not available onboard ship for ship's siren and fresh water hydrophore system.																					
11.	Work Required	<table border="1"> <thead> <tr> <th align="center">a</th> <th align="center">b</th> <th align="center">c</th> <th align="center">d</th> </tr> </thead> <tbody> <tr> <td align="center">Defect/ Routine List</td> <td align="center">Repair Work Required</td> <td align="center">Services Required</td> <td align="center">Spares Required</td> </tr> <tr> <td>Performance of LPAC has been degraded over period of time and abnormal noise observed from compressor</td> <td>Procurement of 01 x LPAC set and installation with all accessories</td> <td>As per Serial 12 Column b.</td> <td>As per Serial 12 Column c.</td> </tr> </tbody> </table>	a	b	c	d	Defect/ Routine List	Repair Work Required	Services Required	Spares Required	Performance of LPAC has been degraded over period of time and abnormal noise observed from compressor	Procurement of 01 x LPAC set and installation with all accessories	As per Serial 12 Column b.	As per Serial 12 Column c.									
		a	b	c	d																		
		Defect/ Routine List	Repair Work Required	Services Required	Spares Required																		
Performance of LPAC has been degraded over period of time and abnormal noise observed from compressor	Procurement of 01 x LPAC set and installation with all accessories	As per Serial 12 Column b.	As per Serial 12 Column c.																				
12.	Details Scope of Work	<table border="1"> <thead> <tr> <th align="center">a</th> <th align="center">b</th> <th align="center">c</th> </tr> </thead> <tbody> <tr> <td align="center">Details of Repair work Required</td> <td align="center">Details of services Required</td> <td align="center">Details of Spares Required</td> </tr> <tr> <td>i. Provision of low pressure air compressor</td> <td>Procurement of LPAC set having capacity of 350 psi</td> <td>01 x LPAC set with all accessories</td> </tr> <tr> <td>ii. Installation of LPAC</td> <td>Removal of existing compressor from system and installation of new compressor with the system</td> <td>-</td> </tr> <tr> <td>iii. Calibration/ replacement of pressure gauges</td> <td>Calibration of 07 x pressure gauges and replace if degraded/ defective</td> <td>07 x gauges range 0-350 PSI</td> </tr> <tr> <td>iv. Replacement of drain valve</td> <td>Replacement of 01 x degraded drain valve</td> <td>01 x drain valve</td> </tr> <tr> <td>v. Servicing/ overhauling of relief valves</td> <td>Servicing/ overhauling of relief valves and testing of relief valves on following limits: HP relief valve: 30 kg/cm² LP relief valve: 05 kg/cm²</td> <td>02 x relief valves</td> </tr> </tbody> </table>	a	b	c	Details of Repair work Required	Details of services Required	Details of Spares Required	i. Provision of low pressure air compressor	Procurement of LPAC set having capacity of 350 psi	01 x LPAC set with all accessories	ii. Installation of LPAC	Removal of existing compressor from system and installation of new compressor with the system	-	iii. Calibration/ replacement of pressure gauges	Calibration of 07 x pressure gauges and replace if degraded/ defective	07 x gauges range 0-350 PSI	iv. Replacement of drain valve	Replacement of 01 x degraded drain valve	01 x drain valve	v. Servicing/ overhauling of relief valves	Servicing/ overhauling of relief valves and testing of relief valves on following limits: HP relief valve: 30 kg/cm ² LP relief valve: 05 kg/cm ²	02 x relief valves
		a	b	c																			
		Details of Repair work Required	Details of services Required	Details of Spares Required																			
		i. Provision of low pressure air compressor	Procurement of LPAC set having capacity of 350 psi	01 x LPAC set with all accessories																			
		ii. Installation of LPAC	Removal of existing compressor from system and installation of new compressor with the system	-																			
		iii. Calibration/ replacement of pressure gauges	Calibration of 07 x pressure gauges and replace if degraded/ defective	07 x gauges range 0-350 PSI																			
		iv. Replacement of drain valve	Replacement of 01 x degraded drain valve	01 x drain valve																			
v. Servicing/ overhauling of relief valves	Servicing/ overhauling of relief valves and testing of relief valves on following limits: HP relief valve: 30 kg/cm ² LP relief valve: 05 kg/cm ²	02 x relief valves																					

		vi.	Replacement of pressure switch	Replacement of defective pressure switch for auto Cut Out/ Cut In	01 pressure switch 0-20 bar
		vii.	The firm will arrange calibration of pressure gauges and provide calibration certificate		
		viii.	The firm will arrange pressure testing of relief valves and provide pressure test certificate		
		ix.	The firm will be responsible of welding/ cutting and external services if required.		
		x.	All spares (must be genuine) tools special equipment /accessories required for said Repair/ Maintenance are to be arranged by the firm.		
		xi.	Any damage/ defect/ wear tear occurred during course of removal; repair and installation of system/ equipment will be met by firm.		
		xii.	The firm will be responsible for all removal, transportation and installation work during warranty/ grantee periods claims in case of any rework.		
13.	Technical Specs	Compressor: Vertical Air Cooled, 2 St Compression, capacity 350 psi Motor: 5.5 KW, 400V-AC, 3 Phase, 50 Hz			
14.	Eligibilities	a. The firm must have sufficient experience of same kind of work and experience. b. The firm should be NTN /GST registered.			
15.	EDC	15 x Days after issuance of work/ confirmation order			
16.	Warranty	02 Year			
17.	Acceptance Criteria	a. Satisfactory work done by the firm. b. Successful completion and acceptance by the end user. c. Satisfactory trials			
18.	Any other relevant information	Provision of relevant documents			

PROCUREMENT OF 01 X AIR STARTER MOTOR OF AFT MAIN ENGINE - PMSS KASHMIR

S No	Description				
1.	Ship's Name	PMSS KASHMIR			
2.	Parent Equipment	Main Engine 20RK270			
3.	OEM	Ingersoll Rand USA			
4.	Make/ Model	ST699BP03R31			
5.	Origin	USA			
6.	Sub Equipment	Air Start Motor			
7.	Assembly components	Stator Motor			
8.	Part No of assembly components	SP160425023			
9.	Quantity	01			
10.	Source of availability	OEM			
11.	Justification of work	FWT			
12.	Work Required	a	b	c	d
		Defect/ Routine List	Repair Work Required	Services Required	Spares Required
		During operation, performance of Aft Engine Air Start Motor observed degraded. Multiple repair undertaken through local market; however, performance observed same.	Procurement of Air Start Motor of Aft Engine	Nil	Yes
13.	Details Scope of Work	a	b	c	
		Details of Repair work Required	Details of services Required	Details of Spares Required	
		Replacement of Chiller Plant Compressor No 4	a. Dismantling of all associated components fitted with Compressor No 4. b. Dismantling of Compressor No 4. c. Installation of New compressor alongwith associated components by the firm.	01 x Chiller Plant Compressor.	
14.	Technical Specs	Pressure	20 Bar		
		Rotation	L		
		Type	Turbine/ Gear		
15.	Eligibilities	Reputable local contractor registered with FBR and having working ; experience with PMSA.			
16.	EDC	30 Days after award of contract			
17.	Warranty	01 Year			
18.	Acceptance Criteria	a.	OEM Certified item		
		b.	Satisfactory trials of motor for 30 x days		

**REPAIR/ RENEWAL OF CHILLER SEA WATER SYSTEM SUCTION STRAINER - PMSS
BASOL**

S No	Description								
1.	Ship's Name	PMSS BASOL							
2.	Parent Equipment	Chiller Seawater System							
3.	OEM	JIANGSU ZHENHUA PUMP INDUSTRY CO., LTD.							
4.	Make/ Model	CLH80-65-9(Z)							
5.	Origin	CHINA							
6.	Sub Equipment	Chiller Seawater System Suction Strainer Body and 04 x Suction valve.							
7.	Assembly components	Chiller Seawater System Suction Strainer Body and 04 x Suction valve.							
8.	Part No of assembly components	As Provided by OEM							
9.	Quantity	01							
10.	Source of availability	Local Engineering Houses/ Shairshah							
11.	Justification of work	<u>Chiller Seawater Cooling system suction strainer found deteriorated.</u>							
12.	Work Required	a		b		c		d	
		Defect/ Routine List		Repair Work Required		Services Required		Spares Required	
		a. Fabrication of new suction strainer body as per sample (Bronze)		b. Fabrication of new strainer body cover as per sample (stainless steel)		c. Fabrication of new studs an butterfly nuts per sample (stainless steel)			
13.	Details Scope of Work	a. Fabrication of new suction strainer body as per sample (Bronze) b. Fabrication of new strainer body cover as per sample (stainless steel) c. Fabrication of new studs an butterfly nuts per sample (stainless steel)							
14.	Technical Specs	As per OEM manual.							
15.	Eligibilities	Security wise clear firm having working experience on chilled water cooling system of water chiller on board HINGOL CLASS MPVs of PMSA.							
16.	EDC	07 Days							
17.	Warranty	One year warranty after satisfactory test / trails w.r.t: a. Satisfactory suction and discharge pressure of chilled water pump b. Satisfactory and smooth operation without abnormal noise and vibration. c. Satisfactory operation without any leakage from mechanical seal, pump body and gauges lines. d. Satisfactory operation of gauges after installation of gauges lines. e. Precise alignment, impeller should be free to rotate. f. Any abnormality in pump, mechanical seal, water leakage from pump body/ gauges lines, suction and discharge pressure will be rectified by the firm during warranty period.							
18.	Acceptance Criteria	a. Satisfactory test and trials with smooth operation of chilled water pump without abnormal noise or vibration and any type of leakage. b. Satisfactory suction and discharge pressure of chilled water pump.							

REPAIR/ MAINTENANCE OF FLUSHING SEA WATER SYSTEM - PMSS BASOL

S No	Description													
1.	Ship's Name	PMSS BASOL												
2.	Parent Equipment	Flashing water systems.												
3.	OEM	NANTONG HUAMENG SHIP MACHINERY CO., LTD												
4.	Make/ Model	HMZZGS-01												
5.	Origin	CHINA												
6.	Sub Equipment	Flushing sea water supply device.												
7.	Assembly components	Sea water pump, pressure tanks, control system. Pressure switches, pressure transducers, safety valves, suction valves, gauges, check valves, sensors.												
8.	Part No of assembly components	As Provided by OEM												
9.	Quantity	01												
10.	Source of availability	Local Engineering House.												
11.	Justification of work	Sea water/ fresh water supply device circuit deteriorated, leaky and performance degraded.												
12.	Work Required	<table border="1"> <thead> <tr> <th>a</th> <th>b</th> <th>c</th> <th>d</th> </tr> <tr> <th>Defect/ Routine List</th> <th>Repair Work Required</th> <th>Services Required</th> <th>Spares Required</th> </tr> </thead> <tbody> <tr> <td>Flushing sea water supply device circuit deteriorated, leaky and performance degraded.</td> <td> a. Fabrication of new pumps bodies as per sample (Bronze). b. Fabrication of new impellers as per sample(Bronze) c. Replacement of old mechanical seals with high quality mechanical seal d. Replacement of old worn out bearings with new SKF or other good bearing. e. All old worn out gauges lines and adopters of pumps needs to be replace with new f. Precise alignment of pumps with motors. g. Replacement of pressure tanks with new along with air bags. h. Testing of all pressure switches, transducers and safety valves, replace if </td> <td> Fabrication of new pumps bodies and impellers as per sample (Bronze). Replacement of mechanical seals, bearings, pressure tanks, air bags, stop check valves, check valves, nut & bolts defective gauges, lines and adaptors. Pumps alignment. Testing of all pressure switches, transducers and safety valves, replace if required. </td> <td> 01 x pump bodies. 01x impellers. 01 x mechanical seals. 03 x bearing. 02 x gauges 01 x stop check valves. 01 x check valves. 03 x pressure tanks along with air bags. 01 x pressure switches. 01 x transducers. 01 x safety valves. Stainless steel bolts and nuts as per requirement. </td> </tr> </tbody> </table>	a	b	c	d	Defect/ Routine List	Repair Work Required	Services Required	Spares Required	Flushing sea water supply device circuit deteriorated, leaky and performance degraded.	a. Fabrication of new pumps bodies as per sample (Bronze). b. Fabrication of new impellers as per sample(Bronze) c. Replacement of old mechanical seals with high quality mechanical seal d. Replacement of old worn out bearings with new SKF or other good bearing. e. All old worn out gauges lines and adopters of pumps needs to be replace with new f. Precise alignment of pumps with motors. g. Replacement of pressure tanks with new along with air bags. h. Testing of all pressure switches, transducers and safety valves, replace if	Fabrication of new pumps bodies and impellers as per sample (Bronze). Replacement of mechanical seals, bearings, pressure tanks, air bags, stop check valves, check valves, nut & bolts defective gauges, lines and adaptors. Pumps alignment. Testing of all pressure switches, transducers and safety valves, replace if required.	01 x pump bodies. 01x impellers. 01 x mechanical seals. 03 x bearing. 02 x gauges 01 x stop check valves. 01 x check valves. 03 x pressure tanks along with air bags. 01 x pressure switches. 01 x transducers. 01 x safety valves. Stainless steel bolts and nuts as per requirement.
a	b	c	d											
Defect/ Routine List	Repair Work Required	Services Required	Spares Required											
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		<p>required.</p> <p>j. Repair/ replacement of all stop check valves</p> <p>k. Repair/ replacement of all check valves</p> <p>l. Corroded/ damaged bolts and nuts to be replaced with new stainless steel bolts and nuts</p> <p>m. Overhauling of motors.</p> <p>n. Servicing of electric control system.</p> <p>p. In way assembly removal and reinstallation</p> <p>q. Any other leakage observed during dismantling/ installation work will be responsibility of firm</p>	<p>Overhauling of motors.</p> <p>Servicing of electric control system.</p>	
13.	Details Scope of Work	a	b	c
		Details of Repair work Required	Details of services Required	Details of Spares Required
		<p>a. Fabrication of new pumps bodies as per sample (Bronze).</p> <p>b. Fabrication of new impellers as per sample (Bronze)</p> <p>c. Replacement of old mechanical seals with high quality mechanical seal</p> <p>d. Replacement of old worn out bearings with new SKF or other good bearing.</p> <p>e. All old worn out gauges lines and adaptors of pumps needs to be replace with new</p> <p>f. Precise alignment of pumps with motors.</p> <p>g. Replacement of pressure tanks with new along with air bags.</p> <p>h. Testing of all pressure switches, transducers and safety valves, replace if required.</p> <p>j. Repair/ replacement of all stop check valves</p> <p>k. Repair/ replacement of all check valves</p> <p>l. Corroded/ damaged bolts and nuts to be replaced with new stainless steel bolts and nuts</p> <p>m. Overhauling of motors.</p> <p>n. Servicing of electric control system.</p>	<p>Fabrication of new pumps bodies and impellers as per sample (Bronze).</p> <p>Replacement of mechanical seals, bearings, pressure tanks, air bags, stop check valves, check valves, nut & bolts defective gauges, lines and adaptors.</p> <p>Pumps alignment.</p> <p>Testing of all pressure switches, transducers and safety valves, replace if required.</p> <p>Overhauling of motors.</p> <p>Servicing of electric control system.</p>	<p>01 x pump bodies.</p> <p>01x impellers.</p> <p>01 x mechanical seals.</p> <p>03 x bearing.</p> <p>02 x gauges</p> <p>01 x stop check valves.</p> <p>01 x check valves.</p> <p>03 x pressure tanks along with air bags.</p> <p>01 x pressure switches.</p> <p>01 x transducers.</p> <p>01 x safety valves.</p> <p>Stainless steel bolts and nuts as per requirement.</p>

		<p>p. In way assembly removal and reinstallation</p> <p>q. Any other leakage observed during dismantling/ installation work will be responsibility of firm</p>		
14.	Technical Specs	As per OEM manual.		
15.	Eligibilities	Security wise clear firm having working experience on Sea water/ fresh water supply device onboard HINGOL CLASS MPVs of PMSA.		
16.	EDC	10 Days		
17.	Warranty	<p>One year warranty after satisfactory test / trails w.r.t:</p> <p>a. Satisfactory suction and discharge pressure of Sea water/ fresh water supply device.</p> <p>b. Satisfactory and smooth operation without abnormal noise and vibration.</p> <p>c. Satisfactory operation without any leakage from mechanical seals, pumps bodies, valves and gauges lines.</p> <p>d. Satisfactory operation of gauges after installation of gauges lines.</p> <p>e. Satisfactory operation of all pressure switches, transducers and safety valves.</p> <p>f. Satisfactory operation of all pressure tanks and air bags without leakage.</p> <p>g. Satisfactory operation of electrical control system along with (PLC).</p> <p>h. If any abnormality observe in pumps/ motors all valves, control system & safeties performance and leakages observe from pumps, mechanical seals, pumps bodies, gauges lines, all valves, pressure tanks, air bags, pressure switches, transducers will be rectified by the firm during warranty period.</p>		
18.	Acceptance Criteria	<p>a. Satisfactory suction and discharge pressure of Sea water/ fresh water supply device.</p> <p>b. Satisfactory and smooth operation without abnormal noise and vibration.</p> <p>c. Satisfactory operation without any leakage from mechanical seals, pumps bodies, valves and gauges lines.</p> <p>d. Satisfactory operation of gauges after installation of gauges lines.</p> <p>e. Satisfactory operation of all pressure switches, transducers and safety valves.</p> <p>f. Satisfactory operation of all pressure tanks and air bags without leakage.</p> <p>g. Satisfactory operation of electrical control system along with (PLC).</p>		

**PROCUREMENT INSTALLATION OF PROTECTION & PARALLELING UNIT (PPU) - PMSS
BASOL**

S No	Description	
1.	Ship's Name	PMSS BASOL
2.	Parent Equipment	Power generation and distribution system.
3.	Sub Equipment	Main switch board.
4.	Assembly components	Protection and paralleling unit (PPU)
5.	Make/	CHINA
6.	Quantity	01
7.	Justification of work	01 x Protection and paralleling unit (PPU) fail to perform its function.
8.	Work Required	Repair / replacement of 01 x Protection and paralleling unit (PPU) is to be required.
9.	Details Scope of Work	a. Repair of Protection and paralleling unit (PPU) replace 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 f. If replace Protection and paralleling unit (PPU) should as per OEM technical specification.
10.	Technical Specs	Type PPU-3 Order No 100169825.10 Meas.voltage(Max) 600VAC Meas current 1A or 5A Supply 12/24VDC Relay output 250VAC / 24VDC Analogue output 0-20mA
11.	Eligibilities	Reputable local contractor having working experience on Power generation and distribution system of HINGOL class MPVS
12.	EDC	03 x Day
13.	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. d. Any fault occurred in PGD system due to malfunctioning of (PPU) during warranty period will be rectified by firm.
14.	Acceptance Criteria	a. Satisfactory operation of Protection and paralleling unit (PPU) without any grounding. b. Satisfactory operation of Protection and paralleling unit (PPU) without any malfunctioning. c. Satisfactory load shifting parallel, auto and Semi auto modes without any fluctuation.
15.	Any other relevant information	a Contact SS/ visit onboard for clear understanding of scope of work. b Damage/ defect occurred to system during work is

REPAIR/ REPLACEMENT OF CHILLER PLANT COMPRESSOR NO 04 - PMSS DASHT

S No	Description				
1.	Ship's Name	PMSS DASHT			
2.	Parent Equipment	Air Conditioning System JTLS-168 (IV) Marine Light Water Chiller			
3.	OEM	China			
4.	Make/ Model	JTLS-42 (I) Water Chiller Module			
5.	Serial No	20A8536GT			
6.	Origin	China			
7.	Sub Equipment	Chiller Plant			
8.	Assembly components	Chiller Plant Compressor No 4			
9.	Quantity	01			
10.	Source of availability	Local Contractor			
11.	Justification of work	Repair/ replacement of of Chiller Plant Compressor No 4			
12.	Work Required	a	b	c	d
		Defect/ Routine List	Repair Work Required	Services Required	Spares Required
		As per defect history	Replacement of Chiller Plant Compressor No 4	a. Dismantling of all associated components fitted with Compressor No 4. b. Dismantling of Compressor No 4. c. Installation of New compressor alongwith associated components by the firm.	01 x Chiller Plant Compressor.
13.	Details Scope of Work	a	b	c	
		Details of Repair work Required	Details of services Required	Details of Spares Required	
		Replacement of Chiller Plant Compressor No 4	a. Dismantling of all associated components fitted with Compressor No 4. b. Dismantling of Compressor No 4. c. Installation of New compressor alongwith associated components by the firm.	01 x Chiller Plant Compressor.	
14.	Technical	As per technical Specs/ Manual.			

	Specs	
15.	Eligibilities	Reputable local contractor having relevant working experience onboard HINGOL class ships.
16.	EDC	07 x Days
17.	Warranty	01 x Year
18.	Acceptance Criteria	<ul style="list-style-type: none"> a. OEM Certified spares only (as mentioned with part numbers). b. Satisfactory operation Compressor No 4 in presence of MEO/ SS. c. Satisfactory operation without refrigerant leakage. d. Any damage during work is responsibility of contractor.
19.	Any other relevant information	Contact SS/ MEO through DPCC and must visit onboard for clear understanding of scope of work

FABRICATION OF CABINET AND RACKS AT BRIDGE - PMSS KOLACHI

S No	Description			
1.	Ship's Name	PMSS KOLACHI		
2.	Parent Equipment	Cabinet and racks		
3.	Quantity	1		
4.	Source of availability	Local Market		
5.	Justification of work	Cabinet and racks are required for stowage of navigation equipment's at bridge.		
6.	Details Scope of Work	a	b	c
		Details of Repair work Required	Details of services Required	Details of Spares Required
		Fabrication of cabinet and rack for stowage of Navigation Equipment's at bridge after relocation from chart room.	New fabrication	Cabinet and racks Dimension Cabinet: 72" x 45" x 33" Dimension Rack: 27" x 45" x 26"
7.	Eligibilities	Reputable local contractor having working experience with PMSA.		
8.	EDC	15 Days after award of contract		
9.	Warranty	2 Years		
10.	Acceptance Criteria	Evaluation by end user		

INSTALLATION OF CEILING - PMSS KOLACHI

S No	Description			
1.	Ship's Name	PMSS KOLACHI		
2.	Parent Equipment	Ceiling		
3.	Quantity	280 Sq ft		
4.	Source of availability	Local Market		
5.	Justification of work	Installation of Ceiling in Wardroom Alleyway		
6.	Details Scope of Work	a	b	c
		Details of Repair work Required	Details of services Required	Details of Spares Required
		Installation of Ceiling in Wardroom Alleyway	New installation	Measurement: 280 Sq ft
7.	Eligibilities	Reputable local contractor having working experience with PMSA.		
8.	EDC	15 Days after award of contract		
9.	Warranty	2 Years		
10.	Acceptance Criteria	a. Evaluation by end user		

**PROCUREMENT WITH INSTALLATION OF FLUSHING VALVES OF WASHROOMS - PMSS
KASHMIR**

S No	Description				
1.	Ship's Name	PMSS KASHMIR			
2.	Parent Equipment	Flushing Valves			
3.	Origin	China			
4.	Sub Equipment	Flushing Valves			
5.	Assembly components	Flushing Valves			
6.	Part No of assembly components	S No	NSN/Part No	Description	Qty
		a.	075-02020413	Flushing Valves	19
7.	Quantity	As per S No 6			
8.	Source of availability	Local Market			
9.	Justification of work	All washrooms flushing valve with SS line to be replaced with new.			
10.	Work Required	a	b	c	d
		Defect/ Routine List	Repair Work Required	Services Required	Spares Required
		All washrooms flushing valve with SS line to be replaced with new.	All washrooms flushing valve with SS line to be replaced with new.	Inspection, Repair/ Replacement of flushing valves required for sat ops.	As per S No 6 & 7
11.	Details Scope of Work	a	b	c	
		Details of Repair work Required	Details of services Required	Details of Spares Required	
		All washrooms flushing valve with SS line to be replaced with new.	Inspection, Repair/ Replacement of flushing valves required for sat ops.	As per S No 6 & 7	
12.	Technical Specs	As per sample			
13.	Eligibilities	Reputable local/ international contractor registered with FBR and having working experience with PMSA.			
14.	EDC	30 Days after award of contract			
15.	Warranty	01 Year			
16.	Acceptance Criteria	a.	OEM Certified items		
		b.	All BER items to be replaced with new		
		c.	Firm will not be allowed to use ship tools and manpower		

PROCUREMENT OF SEA WATER & FUEL TRANSFER VALVES - PMSS HINGOL

S No	Description														
1.	Ship's Name	PMSS HINGOL													
2.	Parent Equipment	Main Sea chest valve of chiller sea water pump, Auxiliary pump suction and discharge valves, Bilges suction valves, Fuel tanks suction and filling valves.													
3.	Make/ Model	DN - 100, 25 DN-50													
4.	Origin	CHINA													
5.	Sub Equipment	Chiller Sea Water Pump, Auxiliary pump, Bilges system, Fuel transfer systems.													
6.	Assembly components	Main Sea chest valve of chiller sea water pump, Auxiliary pump suction and discharge valves, Bilges suction valves, Fuel tanks suction and filling valves.													
7.	Part No of assembly components	DN - 100, 25 DN 50													
8.	Quantity	01 x (DN - 100), 08 x (25 DN 50)													
9.	Source of availability	Local Engineering Houses.													
10.	Justification of work	Main Sea chest valve performance degraded body weak.													
11.	Work Required	<table border="1"> <thead> <tr> <th align="center">a</th> <th align="center">b</th> <th align="center">c</th> <th align="center">d</th> </tr> <tr> <th align="center">Defect/ Routine List</th> <th align="center">Repair Work Required</th> <th align="center">Services Required</th> <th align="center">Spares Required</th> </tr> </thead> <tbody> <tr> <td>Main Sea chest valve, Auxiliary pump system valves, Fuel transfer systems valve, Bilges system valves performance degraded body weak.</td> <td>Main Sea chest valve, Auxiliary pump, system valves, Fuel transfer systems valve, Bilges system valves performance degraded body weak repair/ replacement.</td> <td>Main Sea chest valve, Auxiliary pump system valves, Fuel transfer system valves, Bilges system valves performance degraded body weak repair/ replacement.</td> <td>01 x Main Sea chest valve, 02 x Auxiliary pump suction and discharge valves, 02 x Bilges Suction valves, 04 x Fuel transfer system Suction and Filling valves.</td> </tr> </tbody> </table>	a	b	c	d	Defect/ Routine List	Repair Work Required	Services Required	Spares Required	Main Sea chest valve, Auxiliary pump system valves, Fuel transfer systems valve, Bilges system valves performance degraded body weak.	Main Sea chest valve, Auxiliary pump, system valves, Fuel transfer systems valve, Bilges system valves performance degraded body weak repair/ replacement.	Main Sea chest valve, Auxiliary pump system valves, Fuel transfer system valves, Bilges system valves performance degraded body weak repair/ replacement.	01 x Main Sea chest valve, 02 x Auxiliary pump suction and discharge valves, 02 x Bilges Suction valves, 04 x Fuel transfer system Suction and Filling valves.	
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13.	Technical Specs	As per OEM manual.													
14.	Eligibilities	a. Any registered and security wise cleared local contractor who has working experience of sea water lines & valves.													

		b. Firm must visit site for understanding the exact nature of defect/hindrances involved in job prior quoting to avoid inconvenience on later stage after award of Work Order.
15.	EDC	07 Days
16.	Warranty	One year warranty after satisfactory test / trails w.r.t: a. Satisfactory operation of sea chest valve. b. Satisfactory operation of Auxiliary pump suction and discharge valves. c. Satisfactory operation of Bilges suction valves. d. Satisfactory operation of Fuel transfer system suction and filling valves.
17.	Acceptance Criteria	a. Satisfactory operation of sea chest valve. b. Sea Chest tube NDT required for SAT OPS. c. Only new and recommended spares will be acceptable/ any repaired spare will not acceptable.

**PROCUREMENT OF 01 X RADIATOR HEAT EXCHANGER OF GENSET NO 3 - PMSS
HINGOL**

S No	Description													
1.	Ship's Name	PMSS HINGOL												
2.	Parent Equipment	GENSET												
3.	OEM	Caterpillar C9 Marine GENSETS												
4.	Make/ Model	C9												
5.	Serial No	(C9Z05155), (C9Z05163), (C9Z05164).												
6.	Origin	USA												
7.	Sub Equipment	Cooling system.												
8.	Assembly components	Heat Exchanger/Radiator												
9.	Part No of assembly components	Part No: 306 - 3976												
10.	Quantity	01												
11.	Source of availability	WUHAN MEKANO EQUIPMENT CO. LTD												
12.	Justification of work	Coolant Temperature of Genset No # 3 was observed above the normal limit.												
13.	Work Required	<table border="1"> <thead> <tr> <th>a</th> <th>b</th> <th>c</th> <th>d</th> </tr> <tr> <th>Defect/ Routine List</th> <th>Repair Work Required</th> <th>Services Required</th> <th>Spares Required</th> </tr> </thead> <tbody> <tr> <td>Radiator tubes and fins found deteriorated</td> <td> a. Removal of upper and lower body of Radiator by the frame. b. Removal of frame, accessories and radiator core. c. Fabrication of upper body, Lower body and radiator core as per sample comprising of 498 tubes/ pipes (copper-brass alloy material). d. Assembling of radiator core and accessories with new nuts and bolts. e. New radiator to be installed onboard followed by satisfactory trials by the firm in the presence of SS. </td> <td> a. Removal of upper and lower body of Radiator by the frame. b. Removal of frame, accessories and radiator core. c. Fabrication of upper body, Lower body and radiator core as per sample comprising of 498 tubes/ pipes (copper-brass alloy material). d. Assembling of radiator core and accessories with new nuts and bolts. e. New radiator to be installed onboard followed by satisfactory trials by the firm in the presence of SS. </td> <td>01 x new Radiator along with necessary fittings.</td> </tr> </tbody> </table>	a	b	c	d	Defect/ Routine List	Repair Work Required	Services Required	Spares Required	Radiator tubes and fins found deteriorated	a. Removal of upper and lower body of Radiator by the frame. b. Removal of frame, accessories and radiator core. c. Fabrication of upper body, Lower body and radiator core as per sample comprising of 498 tubes/ pipes (copper-brass alloy material). d. Assembling of radiator core and accessories with new nuts and bolts. e. New radiator to be installed onboard followed by satisfactory trials by the firm in the presence of SS.	a. Removal of upper and lower body of Radiator by the frame. b. Removal of frame, accessories and radiator core. c. Fabrication of upper body, Lower body and radiator core as per sample comprising of 498 tubes/ pipes (copper-brass alloy material). d. Assembling of radiator core and accessories with new nuts and bolts. e. New radiator to be installed onboard followed by satisfactory trials by the firm in the presence of SS.	01 x new Radiator along with necessary fittings.
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		a	b	c
		Details of Repair work Required	Details of services Required	Details of Spares Required
14.	Details Scope of Work	<p>a. Removal of upper and lower body of Radiator by the frame.</p> <p>b. Removal of frame, accessories and radiator core.</p> <p>c. Fabrication of upper body, Lower body and radiator core as per sample comprising of 498 tubes/pipes (copper-brass alloy material).</p> <p>d. Assembling of radiator core and accessories with new nuts and bolts.</p> <p>e. New radiator to be installed onboard followed by satisfactory trials by the firm in the presence of SS.</p>	<p>a. Removal of upper and lower body of Radiator by the frame.</p> <p>b. Removal of frame, accessories and radiator core.</p> <p>c. Fabrication of upper body, Lower body and radiator core as per sample comprising of 498 tubes/pipes (copper-brass alloy material).</p> <p>d. Assembling of radiator core and accessories with new nuts and bolts.</p> <p>e. New radiator to be installed onboard followed by satisfactory trials by the firm in the presence of SS.</p>	01 x new Radiator along with necessary fittings.
15.	Technical Specs	As per OEM manual.		
16.	Eligibilities	a. Any registered and security wise cleared local contractor who has working experience of C9 Caterpillar Gensets.		
17.	EDC	10 Days		
18.	Warranty	<p>One year warranty after satisfactory test / trails w.r.t:</p> <p>a. Satisfactory and smooth operation of genset after installation of Radiator.</p> <p>b. Satisfactory operation of genset up to maximum recommended load</p> <p>c. Satisfactory operation of Radiator without any leakage of water</p> <p>d. Any degradation in radiator operation will be rectified by the firm during warranty period.</p> <p>e. Warranty will be start after safely trials conducted.</p>		
19.	Acceptance Criteria	<p>a. Only OEM recommended and registered Radiator will be acceptable.</p> <p>b. Any damage, defective or repaired Radiator will not acceptable.</p> <p>c. OEM test certificate will be provided by contractor.</p>		

IT NO: IT/88/28/2025-26

PROCUREMENT OF 08 X 40 FEET FIRE HOSE - PMSS REHMAT

S No	Description			
1.	Ship's Name	PMSS REHMAT		
2.	Parent Equipment	DC & FF		
3.	OEM	UK		
4.	Make/ Model	40 Feet (12 Mtrs)		
5.	Origin	China		
6.	Sub Equipment	Fire Fighting		
7.	Assembly components	FF Hose		
8.	Quantity	08		
9.	Source of availability	Local Market		
10.	Justification of work	08 x 40 Feet FF Hose declared BER and surveyed to Warehouse vide Survey No 11 dated 07 May 2024		
11.	Details Scope of Work	a	b	c
		Details of Repair work Required	Details of services Required	Details of Spares Required
		Replacement of 08 x 40 Feet FF hoses	Replacement of 08 x 40 Feet FF hoses alongwith male/ female brass coupling UK Type. '	08 x 40 Feet FF hoses alongwith male/ female brass coupling UK Type. 16 x FF hose rubber seal as per existing size.
All FF hose must be genuine and meet PN standard				
12.	Technical Specs	a. Dia 2 inch b. length 40 Feet c. (1+1) Male andFemale brass coupling. d. Sustained pressure 80-120 PSI. e. Tested pressure 160-180 PSI		
13.	Eligibilities	a. The firm must visit onboard and carry out diagnosis/ inspection to establish the extent of required work. b. NTN/GST registered. c. Firm must have sufficient experience of same kind of work on Corvett class.		
14.	EDC	07 x days after issuance of work/ confirmation order.		
15.	Warranty	01 x Year to be started after completion of successful trials.		
16.	Acceptance Criteria	a. Satisfactory operation of equipment.		
		b. Acceptance by SS		

PROCUREMENT INSTALLATION OF 15 X FLOOD SENSOR SWITCHES - PMSS BASOL

S No	Description														
1.	Ship's Name	PMSS BASOL													
2.	Parent Equipment	Flood alarm system													
3.	OEM	CHINA													
4.	Origin	CHINA.													
5.	Sub Equipment	Flood sensors/ switches													
6.	Assembly components	Flood sensors/ switches													
7.	Part No of assembly components	<table border="1"> <thead> <tr> <th>Part No</th> <th>Description</th> <th>Qty</th> </tr> </thead> <tbody> <tr> <td>Nil</td> <td>Flood sensor/ switch</td> <td>15</td> </tr> </tbody> </table>		Part No	Description	Qty	Nil	Flood sensor/ switch	15						
Part No	Description	Qty													
Nil	Flood sensor/ switch	15													
8.	Quantity	15 In No flood sensors/ switches/ requisite wiring													
9.	Source of availability	Local Engineering Houses.													
10.	Justification of work	Replacement of deteriorated flood sensors/ switches/ requisite wiring													
11.	Work Required	<table border="1"> <thead> <tr> <th>a</th> <th>b</th> <th>c</th> <th>d</th> </tr> <tr> <th>Defect/ Routine List</th> <th>Repair Work Required</th> <th>Services Required</th> <th>Spares Required</th> </tr> </thead> <tbody> <tr> <td>Performance of flood sensors found degraded. Same requirement replacement with new one.</td> <td>a. Inspection/repair replacement of flood sensors required. b. Removal and installation of in way components will be responsibility of firm.</td> <td>As mentioned in Column b</td> <td>As per S No 7 & 8</td> </tr> </tbody> </table>		a	b	c	d	Defect/ Routine List	Repair Work Required	Services Required	Spares Required	Performance of flood sensors found degraded. Same requirement replacement with new one.	a. Inspection/repair replacement of flood sensors required. b. Removal and installation of in way components will be responsibility of firm.	As mentioned in Column b	As per S No 7 & 8
a	b	c	d												
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13.	Technical Specs	As per sample provided by SS.													
14.	Eligibilities	a. Any registered and security wise cleared local contractor who has working experience on lighting system of HINOL Class MPVs. b. Firm must visit site for understanding the exact nature of defect/hindrances involved in job prior quoting to avoid inconvenience on later stage after award of Work Order.													
15.	EDC	05 Days													
16.	Warranty	One year warranty after satisfactory test / trails w.r.t:													

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

PROCUREMENT OF CRITICAL ITEMS OF GENSETS - PMSS HINGOL

S No	Description																
1.	Ship's Name	PMSS HINGOL															
2.	Parent Equipment	GENSET															
3.	OEM	Caterpillar															
4.	Make/ Model	CAT C9 GENSET															
5.	Serial No	GENSET (C9)															
6.	Origin	China															
7.	Sub Equipment	GENSET															
8.	Assembly components	Filter Element															
9.	Part No of assembly components	GENSET															
		<table border="1"> <thead> <tr> <th>Item</th> <th>Part No</th> <th>Qty</th> </tr> </thead> <tbody> <tr> <td>Fuel Filters</td> <td>1R-0750</td> <td>06</td> </tr> <tr> <td>Fuel Filter Element</td> <td>00530</td> <td>06</td> </tr> <tr> <td>Air Filters</td> <td>4L-9852</td> <td>03</td> </tr> <tr> <td>Lube Oil Filters</td> <td>IR-1808</td> <td>06</td> </tr> </tbody> </table>	Item	Part No	Qty	Fuel Filters	1R-0750	06	Fuel Filter Element	00530	06	Air Filters	4L-9852	03	Lube Oil Filters	IR-1808	06
		Item	Part No	Qty													
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		Fuel Filter Element	00530	06													
Air Filters	4L-9852	03															
Lube Oil Filters	IR-1808	06															
10.	Quantity	As mentioned in S No. 9															
11.	Source of availability	Caterpillar China															
12.	Justification of work	As per PMS Routines/ Technical manual															
13.	Work Required	<table border="1"> <thead> <tr> <th>a</th> <th>b</th> <th>c</th> <th>d</th> </tr> <tr> <th>Defect/ Routine List</th> <th>Repair Work Required</th> <th>Services Required</th> <th>Spares Required</th> </tr> </thead> <tbody> <tr> <td>Spares Required</td> <td>Spares Required</td> <td>Spares Required</td> <td>12 x Fuel Filters, 12 x Fuel Filter Element, 12 x Air Filters, 12 x Lube Oil Filter</td> </tr> </tbody> </table>	a	b	c	d	Defect/ Routine List	Repair Work Required	Services Required	Spares Required	Spares Required	Spares Required	Spares Required	12 x Fuel Filters, 12 x Fuel Filter Element, 12 x Air Filters, 12 x Lube Oil Filter			
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		Defect/ Routine List	Repair Work Required	Services Required	Spares Required												
Spares Required	Spares Required	Spares Required	12 x Fuel Filters, 12 x Fuel Filter Element, 12 x Air Filters, 12 x Lube Oil Filter														
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		a	b	c													
Details of Repair work Required	Details of services Required	Details of Spares Required															
Spares Required	Spares Required	12 x Fuel Filters, 12 x Fuel Filter Element, 12 x Air Filters, 12 x Lube Oil Filter															
15.	Technical Specs	As per OEM manual															
16.	Eligibilities	Any registered and security wise cleared local contractor who has working experience of CAT Genset.															
17.	EDC	15 Days															
18.	Warranty	01 Year															
19.	Acceptance Criteria	a. Only OEM recommended and registered items will be acceptable. b. Any damage, defective or repaired item will not be acceptable. c. OEM test certificate will be provided by contractor.															

**REPAIR/ MAINTENANCE OF 01 X JHS-770 VHF FOR SUBSEQUENT DEFECT
RECTIFICATION OF VHF COMMUNICATION SET - PMSS DASHT**

S No	Description		
1.	Ship's Name	PMSS DASHT	
2.	Parent Equipment	JHS-770 VHF	
3.	OEM	JRC	
4.	Make/ Model	JHS-770S/ 780D	
5.	Origin	Japan	
6.	Quantity	01 x JHS- 770 VF	
7.	Source of availability	Local market/ Firm	
8.	Justification of work	Replacement of 01 x JHS-770 VHF for subsequent defect rectification of VHF communication set	
9.	Work Required	Replacement of 01 x JHS-770 VHF for subsequent defect rectification of VHF communication set	
10.	Details Scope of Work	a	b
		Details of Repair work Required	Details of services Required
		c	Details of Spares Required
		Replacement of 01 x JHS-770 VHF for subsequent defect rectification of VHF communication set	
11.	Technical Specs	JHS-770 VHF set for plain communication	
12.	Eligibilities	a. Any registered and security wise cleared local contractor having good experience in above mentioned scope of work b. Firm must visit site for understanding exact nature of work involved in job prior quoting to avoid inconvenience on later stage after reward of Work Order. Firm is to quote for growth work by visiting ship in commercial quotation prior award of work order. HQ PMSA/ Ship will not accept growth work changes on later stages at all	
13.	EDC	01 x Month	
14.	Warranty	01 x Year warranty	
15.	Acceptance Criteria	a. OEM certified item b. Technical specification to be provided c. Upon scrutiny of items and provided documents i.e technical specification along with production certificates by OEM d. Items will be accepted after satisfactorily test and trials onboard e. OEM technical documents and warranty certificates of items required f. Items must be genuine and OEM packed. Aftermarket products and item will not be accepted. g. Satisfactorily trails onboard ship	
16.	Any other relevant information	Firm must visit onboard for clarification of any query and better understanding of requirement	

IT NO: IT/88/32/2025-26

**FABRICATION OF ARM BADGES AND ACCESSORIES (PMSA UNIFORM) –
PMSS INDUS WAREHOUSE**

S No	Description			
1.	Ship's Name	PMSS INDUS/ WAREHOUSE		
2.	Parent Equipment	PMSA Uniform		
3.	OEM	Pakistan/ Local		
4.	Origin	Pakistan/ Local		
5.	Quantity	S No	Item	Qty Required
		a.	Cap Badge CPO's	500
		b.	Cap Badge PO's	500
		c.	Cap Badge Ldg & Below	2000
		d.	PMSA Talley	4000
		e.	Arm Badge PMSA Monogram	4000
		f.	Branch Badge PO's & Below	5400
6.	Justification of work	Fabrication of Arm Badges and Accessories for All PMSA Personnel		
7.	Work Required	Fabrication of Arm Badges and Accessories for All PMSA Personnel		
8.	Eligibilities	Reputable local firm having working experience with PMSA		
9.	EDC	30 Days after Issuance of order		
10.	Warranty	01 Year after delivery		
11.	Acceptance Criteria	Accepted by Warehouse Staff		
12.	Any other remarks	Visit warehouse for obtaining samples		

PROCUREMENT OF REMOVABLE GUARDRAILS (TY SAFETY GUARDRAILS) ON UPPER DECKS – PMSS KASHMIR

S No	Description																																					
1.	Ship's Name	PMSS KASHMIR																																				
2.	Parent Equipment	Removable guardrails (Ty safety guardrails) on upper decks																																				
3.	OEM	China																																				
4.	Origin	China																																				
5.	Sub Equipment	a. PVC Coated Steel Wire Rope Black Color b. Bottle Screw Slips c. Shackles d. Thimbles e. Ferules f. Punching or Ferules g. Mossing Wire h. Lads for Mossing Wire																																				
6.	Assembly components	a. PVC Coated Steel Wire Rope Black Color b. Bottle Screw Slips c. Shackles d. Thimbles e. Ferules f. Punching of Ferules g. Mossing Wire h. Lads for Mossing Wire																																				
7.	Quantity	<table border="1"> <thead> <tr> <th>S No</th> <th>Description</th> <th>Qty</th> <th>Size</th> </tr> </thead> <tbody> <tr> <td>a.</td> <td>PVC Coated Steel Wire Rope Black Color</td> <td>300 Meters</td> <td>12mm PVC Coated Black Color (316 SS)</td> </tr> <tr> <td>b.</td> <td>Bottle Screw Slips</td> <td>90</td> <td>12mm (316 SS)</td> </tr> <tr> <td>c.</td> <td>Shackles</td> <td>180</td> <td>12mm (316 SS)</td> </tr> <tr> <td>d.</td> <td>Thimbles</td> <td>180</td> <td>12mm (316 SS)</td> </tr> <tr> <td>e.</td> <td>Ferules</td> <td>180</td> <td>12mm (316 SS)</td> </tr> <tr> <td>f.</td> <td>Punching of Ferules</td> <td>180</td> <td>For 12mm Ferule</td> </tr> <tr> <td>g.</td> <td>Mossing Wire (PVC Coated Steel Wire Rope Black Color)</td> <td>360 Feets</td> <td>0.25 Inch PVC Coated Steel Wire Silver Color</td> </tr> <tr> <td>h.</td> <td>Lads for Mossing Wire</td> <td>360</td> <td>Coated Mossing Wire</td> </tr> </tbody> </table>	S No	Description	Qty	Size	a.	PVC Coated Steel Wire Rope Black Color	300 Meters	12mm PVC Coated Black Color (316 SS)	b.	Bottle Screw Slips	90	12mm (316 SS)	c.	Shackles	180	12mm (316 SS)	d.	Thimbles	180	12mm (316 SS)	e.	Ferules	180	12mm (316 SS)	f.	Punching of Ferules	180	For 12mm Ferule	g.	Mossing Wire (PVC Coated Steel Wire Rope Black Color)	360 Feets	0.25 Inch PVC Coated Steel Wire Silver Color	h.	Lads for Mossing Wire	360	Coated Mossing Wire
S No	Description	Qty	Size																																			
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8.	Source of availability	Local Contractor																																				
9.	Justification of work	Removable guardrails (Ty safety guardrails) on upper decks																																				
10.	Work Required	<table border="1"> <thead> <tr> <th>a</th> <th>b</th> <th>c</th> <th>d</th> </tr> <tr> <th>Defect/ Routine List</th> <th>Repair Work Required</th> <th>Services Required</th> <th>Spares Required</th> </tr> </thead> <tbody> <tr> <td>Installing of removable guardrails (Ty safety guardrails) on 1 upper decks</td> <td>Installing of removable guardrails (Ty safety guardrails) on upper decks</td> <td>Cutting of various guardrails (Ty safety guardrails) on upper decks as per size provided by Ships Staff</td> <td>Punching Machine for punching of Ferules as per requirement of guardrails on both side of safety lines.</td> </tr> </tbody> </table>	a	b	c	d	Defect/ Routine List	Repair Work Required	Services Required	Spares Required	Installing of removable guardrails (Ty safety guardrails) on 1 upper decks	Installing of removable guardrails (Ty safety guardrails) on upper decks	Cutting of various guardrails (Ty safety guardrails) on upper decks as per size provided by Ships Staff	Punching Machine for punching of Ferules as per requirement of guardrails on both side of safety lines.																								
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		a	b	c
		Details of Repair work Required	Details of services Required	Details of Spares Required
		11.	Details Scope of Work	Installing of removable guardrails (Ty safety guardrails) on upper decks
12.	Technical Specs	As prescribed by SS		
13.	Eligibilities	Reputable local contractor having working experience in PMSA		
14.	EDC	15 x days		
15.	Warranty	a. 3 x year warranty after satisfactory trials/ test b. Material will be reported if deformity or wear is developed during warranty period		
16.	Acceptance Criteria	Satisfactory work as per provided sample		
17.	Any other relevant information	a. Contact SS/ visit onboard for clear understanding of scope of work b. Damage/ defect occurred to part or system during work responsibility of contractor c. Dismantling/ assembling/ installation and in way removal work is responsibility of contractor		

IT NO: IT PM/88/34/2025-26

PROCUREMENT OF 675 KG AC-14 ANCHOR - PMSS BASOL

S No	Description				
1.	Ship's Name	PMSS BASOL			
2.	Parent Equipment	AC-14 HHP Anchor			
3.	Make/ Model	High Holding Anchor			
4.	Origin	China			
5.	Sub Equipment	AC-14 HHP Anchor			
6.	Quantity	02			
7.	Source of availability	International / Local			
8.	Justification of work	02 x Ships anchors are required for safe operational ability of ship.			
9.	Work Required	a	b	c	d
		Defect/ Routine List	Repair Work Required	Services Required	Spares Required
		Anchor	Procurement of new anchor	Procurement of new anchor	N/A
10.	Technical Specs	Length of Shank (mm)			1399
		Length of Arm (mm)			851
		Width between fluke tips (mm)			673
		Total Weight (KG)			678
		Proof Load			182
11.	Eligibilities	Local contractor having experience/ requisite setup to provide anchors			
12.	EDC	ASAP (10-15 Days)			
13.	Warranty	01 year			
14.	Acceptance Criteria	Local contractor having experience/ requisite setup to provide anchors			

Note: 100% Payment after completion by CNA

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

INVITATION TO TENDER GENERAL INSTRUCTIONS

1. CONDITIONS GOVERNING CONTRACT:

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

2. SUBMISSION OF TENDER:

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

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

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

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

PREPARATION OF QUOTATION

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

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

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

3. DATE AND TIME FOR RECEIPT OF TENDER:

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

4. TENDER OPENING:

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

5. VALIDITY OFFER:

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

6. QUOTING OF RATES:

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

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

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

8. EARNEST MONEY:

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

9. TENDER FEE:

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

10. INSPECTION AUTHORITY:

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

11. CONDITION OF STORES:

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

12. DOCUMENTS REQUIRED:

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

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

13. SECURITY DEPOSIT / BANK GUARANTEE:

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

14. CURRENT BANK STATEMENT:

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

15. INTEGRITY PACT:

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

16. CORRESPONDENCE:

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

17. PRE SHIPMENT INSPECTION:

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

18. AMENDMENT IN CONTRACT:

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

19. DISCREPANCY:

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

20. PRICE VARIATION:

Price offered against IT are to be firm and final.

21. LIQUIDATED DAMAGES (LD):

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

22. RISK PURCHASE:

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

23. PENALTY:

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

24. ALL RIGHTS RESERVED:

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

25. PAYMENT:

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

26. PARTIAL ORDER:

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

27. DISQUALIFICATION:

Offers are liable to be rejected if:-

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