

SEPARATE QUOTATIONS REQUIRED FOR ATTACHED 46 x IT SPECIFICATIONS**IT NO : IT/46/01/2024-25**

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

IT NO : IT/46/02/2024-25**IT SPECIFICATION FOR PURCHASE OF CEREMONIAL DRESSING LINE WITH 69 X UNFITTED FLAGS – PMSS ZHOB**

S NO	Description	
1.	Parent Equipment/ System	Ceremonial Dressing Line with unfitted flags
2.	Sub Equipment	-
3.	Assembly/ Equipment	-
4.	Make	PAKISTANI
5.	Model	-
6.	Qty	69 x Flags in 2BD 70 x Meters Ropes
7.	Justification	In this regard, Ceremonial Dressing Line with unfitted flags are essentially required onboard for ceremonial activities.
8.	Work Required	-
9.	Detailed Scope of Works	-
10.	Technical Specs	Firm should be Physically check as previous
11.	Eligibility	The Firm should be NTN/GST Registered
12.	EDD	10 days
13.	Warranty	3 years
14.	Acceptance Criteria	As per IT Specification
15.	Any other information	-

IT NO : IT/46/03/2024-25**IT SPECIFICATIONS FOR REPAIR/ REPLACEMENT OF EVAPORATOR AND COMPRESSOR OF AIR CONDITIONING PLANT NO 4 – PMSS BASOL**

S No.	Description	
1.	Parent Equipment	Air Conditioning System
2.	Sub Equipment	JTLS-168 (IV) Marine Light Water Chiller
3.	Assembly component	Evaporator & Compressor
4.	Make	Hermetically Sealed Compressor (Model ZR190KCE-TFD with Oil Heater) Part No. 06.01.057
5.	Model	Plate Heat Exchanger (Model V80HX60) Part 03.02.05.085
6.	Qty	Jiangsu Josun Air Conditioner Co., Ltd
7.	Justification	JTLS-42 (I) Water Chiller Module
8.	Work required/ Defect	1 x Evaporator & 1 x Compressor
9.	Detailed Scope of Work	Chilled water ingress observed in HP valve of AC plant no 4 Repair/ replacement of 1 x hermetically sealed compressor Repair / replacement of 1 x plate heat exchanger a. Removal of evaporator and compressor and blanking of cooling lines. b. Installation of 1 x hermetically sealed compressor c. Installation of 1 x evaporator after pressure testing. d. 24 hour Nitrogen gas pressure test of the system for identification of any leakages. e. System Gas charging (R-404A) by contractor after leakage verification. f. Satisfactory test/ trials of evaporator and compressor without high noise/ vibration. g. All tools and test equipment will be arranged by firm/ contractor.
10.	Technical specifications	As per OEM Manual/ Specifications
11.	Eligibility Criteria	Reputable firm having working experience of Chiller Plant repairs onboard HINGOL Class ships.
12.	EDC	7 x Days
13.	Warranty	One Year warranty of evaporator and compressor after test/ trials or as recommended by OEM without following defects: a. Satisfactory operation without high vibration/ noise. b. Satisfactory operation without refrigerant leakage.
14.	Acceptance Criteria	a. Only OEM certified spares may be used. b. Upon scrutiny of item and provided documents I.e. technical specifications.
15.	Any other Information	a. Damage/ defect occurred to system during work will be responsibility of contractor. b. Dismantling/ assembling/ installation and in way removal work will be responsibility of contractor.

IT SPECIFICATIONS FOR REPAIR/ REPLACEMENT OF 46 x SEA WATER & MISC LINES – PMS

S No.	Description
1.	Parent Equipment
2.	Sub-equipment
3.	Assembly equipment
4.	Make
5.	Model
6.	Quantity
7.	Justification
8.	Work required
9.	Detailed scope of work

S No	Compartment/ System	Description	Size (L x OD) with Material	Elbow/ Tee	Flange
a.	Tunnel Compartment	04 x Aux cooling lines	L- 05ft, Ø- 1 inch Cu-Ni	-	08
b.	Main A/C	01 x Sea chest suction line	L- 3.5ft, Ø- 4 inch Cu-Ni	-	02
c.	Flushing system	03 x Seawater lines	As per sample 2 x (L:4ft, Ø: 1") 1 x (L:3.5ft, Ø: 1.5") Cu-Ni	-	02 01
d.	Refrigeration system	04 x Seawater inlet & outlet lines	L- 12ft, Ø- 1 inch Cu-Ni	12 Bend 12 Tee's	14
e.	Fuel system	02 x Fuel Tank No.1 suction lines	L- 03ft, Ø- 4 inch Cu-Ni	-	04
f.	Fresh water	01 x pipe line of fresh water system	L- 05ft, Ø- 3 inch SS	02 Bend	02
g.	Pneumatic system	04 x pneumatic lines for inflatable seals	L- 12ft, Ø- 1 inch (each line) Cu-Ni	-	08
h.	Stern Seals SW Cooling	04 x Seawater supply lines in shaft	L- 10ft, Ø- 1 inch (each line) SS	08 Bend	08

		tunnel compartment			
j.	Daily Bilge pump	05 x bilge pump suction lines in Aft Engine Room	L:45ft, Ø- 1.5inch (each line) Cu-Ni	06 Bend	10
k.	Gearbox Cooler	04 x Cooler Inlet & outlet lines	As per sample (L:3ft, Ø: 1.25") Flexible hose	-	04 Adapt ers
l.	Auxiliary cooling system	02 x Seawater supply lines	L:07ft, Ø- 2inch (each line) Cu-Ni	07 Bend	04
m.	Gauges	12 x gauge lines	L:02ft, Ø- .1/2 inch (each line) Cu-Ni	-	24
a. Lines are to be replaced with recommended material. b. Dismantling and installation would be carried out by contractor along with installation of blank plates (where required). c. Lines are to be properly aligned; loose fit will be rejected. d. Rusty nut & bolts are to be replaced by SS nut bolts. e. Satisfactory operation during HATs & SATs. f. Pressure testing at 8 bar (for leakage free verification). g. All spares, tools and material is to be arranged by the firm. h. Any growth work/ damage will be soul responsibility of the firm.					
10.	Technical specs	As per OEM Manual/ Specs			
11.	Eligibility criteria	Reputable local contractor having relevant working experience in PMSA			
12.	EDC	15 days			
13.	Warranty	One year after satisfactory repair/ replacement work without leakage or defects			
14.	Acceptance criteria	Smooth/ obstruction free and leakage free operation of lines			
	Any other information	Firms are to visit site before quoting to fully understand scope of work			

IT NO : IT/46/05/2024-25

IT SPECS FOR REPAIR/ REPLACEMENT OF SSDG NO 1 CONTROL MODULE		
PMSS BARKAT		
1	Ship's Name	PMSS BARKAT
2	Parent equipment/system	Power Generation and Distribution
3	Sub equipment	SSDG No 1
4	Assembly/ equipment	Monitoring & Control Module
5	Make	MEBAY
6	Model	DC 70D Version 12.38
7	Qty	01
8	Justification	Monitoring & control module malfunctioning during no operation showing erratic reading of parameters, switch not functioning properly.
9	Work required	Repair/ replacement of Control module.
10	Detailed scope of work	a. Repair/ replacement of control module. b. Feed all safeties, alarms and trips limit. c. Repair/ renewal of wires, lugs switches to be carried out.
11	Technical spec	a. 380VAC Main supply b. 24VDC Control Supply
12	Eligibilities	a. The firm must visit onboard and carry diagnoses/inspections to establish the extent of required work. b. The firm must have sufficient experience of such kind of work and experienced. c. The firm should be NTN /GST registered.
13	EDC	07 x days after issuance of work/confirmation order
14	Warranty	01 Year
15	Acceptance criteria	a. Satisfactory work done by the firm. b. Satisfactory trials. c. Acceptance by the end user.

IT NO : IT/46/06/2024-25

PMSS KASHMIR

IT SPECIFICATION: CALIBRATION AND REPAIR/ REPLACEMENT OF METER & GAUGES		
1	System	Propulsion and Auxiliary Machinery
2	Sub system	Misc
3	Assembly Compartment	Meters & Gauges
4	Make	Misc
5	Model	Misc
6	Quantity	227
7	Justification	PMS Routine
8	Work Required/ Defect	Calibration and repair/ replacement of Meter & Gauges
9	Scope of Work	Following work to be carried out: a. Dismantling of all gauges and meters as per provided parameters. b. Calibration of 85 meters. c. Calibration of 105 gauges. d. Repair/ replacement of 20 x meters. e. Repair/ replacement of 17 x gauges. f. Installation of all meter & gauges. g. Spare to be provided by firm. h. Any growth work will be bear by firm.
10	Technical Specs	As per installed items
11	Eligibilities	a. Have experience to work for ships (preferably PMSA ships) b. Company must be certified with HQ PMSA. c. Company must be Income and Sales tax. d. Calibration certification of any reputable firm to be provided by firm.
12	EDC	01 x month after award of contract
13	Warranty	02 x years
14	Acceptance Criteria (if any)	Item will be accepted after satisfactory performance of for 15 days at sea.
15	Any other relevant information	Contact Ship staff (Cell # 0321-3000503)

IT NO : IT/46/07/2024-25

IT SPECIFICATION - REPAIR/ REPLACEMENT OF NIGHT VISION SYSTEM OUTBOARD DIRECTION INDICATOR UNIT - PMSS KASHMIR		
S No.	Description	
1.	Parent Equipment	Night Vision System (NVS)
2.	Sub Equipment	Outboard direction indicator (PTZ & Thermal IR Camera)
3.	Make	China
4.	Model	GHGD-60 Night Vision System
5.	Qty	01
6.	Justification PMS/Failure/FWT	Failure: NVS is degraded i.e IR and PTZ Cameras are defective and repairs required to be repaired.
7.	Work required/ Defect	NVS is degraded i.e IR and PTZ Cameras are defective. Both cameras are unable to show any video/ picture. Therefore repair of IR & PTZ Camera is required.
8.	Detailed Scope of Work	Repairing of defective PTZ and IR Camera is required for operationalization of Night Vision System onboard.
9.	Technical specs	a. Lens: Focal length: 10mm-200mm manually adjustable b. Infrared Thermal Imager: Focal length: 125mm Aperture: F1.0 c. System parameters: MTBF (mean time before failure) 500hrs Range of Movement: horizontal 360 continuous rotation, vertical -90 to 90 degree d. Laser Illuminator: Power: 10W Wave length: 810nm+-10nm e. Daylight cameras: high sensitivity color/black and white video camera f. Imaging device: CCD Signal to Noise Ratio: 48Db g. Power Supply: AC 220 60/50 h. System power consumption: 600W
10.	Eligibility Criteria	Reputable local contractor having working experience with PMSA/ OEM authorized reps will be given preference.
11.	EDC/ EDD	10 x days
12.	Warranty	12 x Months
13.	Acceptance Criteria	a. Item will be accepted after satisfactory test/ trials onboard. b. OEM Technical documents/ warranty certificate of items required.
14.	Any other relevant Information	Firm must visit onboard for clarification of any query and understanding of requirement before quoting.

IT SPECIFICATION FOR REPAIR/ REPLACEMENT OF IC-M802 HF MARINE TRANSCEIVER - PMSS NUSRAT

S No	IT Specification	
1.	Parent Equipment/ System	IC-M802 HF Marine Transceiver
2.	Sub Equipment/ system	IC-M802 HF Marine Transceiver
3.	Assembly/Equipment	-
4.	Make	ICOM JAPAN
5.	Model	IC-M802 HF Marine Transceiver
6.	Qty	01
7.	Justification	Item is required for ship's operational communication requirement
8.	Work Required	Repair/ Replacement of IC-M802 HF Marine Transceiver
9.	Detailed Scope of Works	Following Scope of work: a. Repair/ replacement of IC-M802 HF Marine Transceiver b. Ensuring satisfactory operation of IC-M802 HF Marine Transceiver c. Provision of all necessary accessories for SAT Ops d. Complete onboard trials/ set to work in TX/RX Mode e. Growth work will be sole responsibility of the firm f. Cable rigging to be made concealed with aid of appropriate measures
10.	Technical Spec	IC-M802 HF Marine Transceiver: a. Max Power output 150 watt b. Frequency Range 0.5 to 30 MHz c. Power supply 13.6VDC±15 30Amp with input voltage 230VAC d. Operating Temperature: -20 - 55C
11.	Eligibilities	a. As per TSR b. The firm should visit onboard and assess the extent of required work. c. The firm should be having good experience in repair/maintenance of such system/ equipment. d. The firm should be NTN /GST registered
12.	EDC	07 x working days after issuance of work order.
13.	Warranty	01 Year
14.	Acceptance criteria	Satisfactory Harbor/Sea trials upon completion of work

IT SPECIFICATION FOR REPAIR/ REPLACEMENT OF DIESEL GENERATORS SPARES - PMSS KOLACHI

1.	Parent Equipment	Power Generation and Distribution			
2.	Sub Equipment	Diesel Generator			
3.	Assembly Component	Filters			
4.	Make	Cummins China			
5.	Model	KTA-19			
6.	Required Quantity	As mentioned in scope of work			
7.	Justification	Repair/ replacement of filters to conduct PMS routine			
8.	Work Required	Repair/ replacement of filters of Diesel Generators installed onboard			
9.	Detailed scope of work	Repair/ replacement of filters are as per following requirements:			
		S No.	Part number	Description	Qty required
		a.	3315843/ F51212	Cummins fuel filter	16
		b.	3889310/ L F870	Cummins lube oil filter element	16
		c.	3889311/ L F777	Cummins lube oil filter	08
		d.	CCFJ400J-KC080T/ 2020PM-QR	Cummins duplex water separator filters	16
10.	Technical Specification	Filters should be original Cummins OEM			
11.	Eligibilities	Any local contractor affiliated with PMSA			
12.	EDC/ EDDs	02 x weeks after confirmation of order			
13.	Warranty	01 Year Shelf life			
14.	Acceptance Criteria (if	Specification should be as per requirement			
15.	Any other relevant info	Contact MEO (Cell No 03338948563)			

IT SPECS FOR REPAIR/REPLACEMENT OF CONTROL MODULE OF FSME PMSS BARKAT

1.	Ship's Name	PMSS BARKAT
2.	Parent equipment/system	FWD STBD MAIN ENGINE
3.	Sub equipment	Engine Control System
4.	Assembly/ equipment	Control Module ✓
5.	Make	Mebay
6.	Model	DC 40D MKII
7.	Qty	01 X Control Module
8.	Justification	Forward STBD Main engine control module found observed malfunctioning during SOC's Main engine failed to start/ stop.
9.	Work required	FSME control module defect to be rectified by repairing/ replacing for SAT operation of the system.
10.	Detailed scope of work	Following work is required to be undertaken for the repair/ replacement of control system. a. Repair/ Replacement of control module. b. Feed all safeties, alarms and trip limit. c. Repair/ replacement of wires, lugs, switches, to be carried out. d. All cables should be marked properly w.r.t control diagram. e. All associated cable of engine control system and supplies should be properly secured as per marine standard. f. Any work during warranty/ guarantee period required will the responsibility of the firm. g. The firm will be arranged all spares, tools, accessories etc required for said job. h. The firm will be responsible for any damage/ defect/wear tear occurred during the repair/ replacement. i. Requirement of external services, if required will be responsibility of firm. j. The firm will be responsible for repair and replacement work as per standard SOPs/ OEM Manual.
11.	Technical spec	27V DC
12.	Eligibilities	a. The firm must visit onboard and carry out diagnoses/inspections to establish the extent of required work. b. The firm must have sufficient experience of same kind of work and experienced. c. The firm should be NTN /GST registered
13.	EDC	07 x days after issuance of work/confirmation order
14.	Warranty	01 Year after acceptance.
15.	Acceptance criteria	Acceptance by the ship staff

IT NO : IT/46/11/2024-25**ITEM SPECIFICATIONS OF SENTRY POST (MR) – PMSS INDUS**

S No	Description	Provision of material for re-construction of roof of security tower																		
13.	Requirement/ Scope of Work	<table> <tr> <th>S No</th><th>Items</th><th>Qty</th></tr> <tr> <td>d.</td><td>SR Cement</td><td>36 bag</td></tr> <tr> <td>e.</td><td>Sand</td><td>550 SFT</td></tr> <tr> <td>f.</td><td>Crush</td><td>400 SFT</td></tr> <tr> <td>g.</td><td>Steel ½ & ¼</td><td>120 Kg</td></tr> <tr> <td>h.</td><td>Binding Wire</td><td>3 Kg</td></tr> </table>	S No	Items	Qty	d.	SR Cement	36 bag	e.	Sand	550 SFT	f.	Crush	400 SFT	g.	Steel ½ & ¼	120 Kg	h.	Binding Wire	3 Kg
S No	Items	Qty																		
d.	SR Cement	36 bag																		
e.	Sand	550 SFT																		
f.	Crush	400 SFT																		
g.	Steel ½ & ¼	120 Kg																		
h.	Binding Wire	3 Kg																		
14.	Eligibilities	All reputable ISSI registered firms/ contractors/ suppliers.																		
15.	EDC	05 Days																		
16.	Acceptance Criteria	Inspection by end user																		
17.	Any other relevant information	In case of any query, contact EXO PMSS INDUS 021-48505456																		
18.	Terms of payment	100% After work Completion																		

IT NO : IT/46/12/2024-25**IT SPECIFICATIONS – REPAIR/ REPLACEMENT OF PORTABLE FUEL TANKS FOR 02 X SSBs (241 & 243) – EASTERN WING**

1.	Ship's Name	SSBs (241 & 243)																														
2.	Parent Equipment	Fuel System																														
3.	Sub Equipment	Portable Fuel Tank																														
4.	Assembly Component	As Above																														
5.	Make	AJ Marine Engineering and Services																														
6.	Model	N/A																														
7.	Qty	02																														
8.	Justification i.e PMS/ Failure/ FWT etc	Repair/ replacement of 02 x portable fuel tanks of SSBs (241 & 243)																														
9.	Work Required/ Defect	Repair/ replacement of portable fuel tanks for 02 x SSBs (241 & 243) (As mentioned in S No 11 below)																														
10.	Detailed scope of work	Repair/ replacement of portable fuel tanks for 02 x SSBs (241 & 243) (As mentioned in S No 11 below)																														
11.	Technical Spec	<table> <tr> <th>S No</th><th>Description</th><th>Req Qty</th></tr> <tr> <td>a.</td><td>Fuel Tank SS-316, 200 Ltrs</td><td>01</td></tr> <tr> <td>b.</td><td>Air Vent</td><td>01</td></tr> <tr> <td>c.</td><td>Fuel Filling Cap</td><td>01</td></tr> <tr> <td>d.</td><td>Drain valve</td><td>01</td></tr> <tr> <td>e.</td><td>PVC Pipe Fitting</td><td>07ft</td></tr> <tr> <td>f.</td><td>GRP Setting with Top Caution</td><td>01 Unit</td></tr> <tr> <td>g.</td><td>Suction Pipe</td><td>(01)7ft</td></tr> <tr> <td>h.</td><td>Jubilee Clamp</td><td>08</td></tr> <tr> <td>i.</td><td>Socket</td><td>04</td></tr> </table>	S No	Description	Req Qty	a.	Fuel Tank SS-316, 200 Ltrs	01	b.	Air Vent	01	c.	Fuel Filling Cap	01	d.	Drain valve	01	e.	PVC Pipe Fitting	07ft	f.	GRP Setting with Top Caution	01 Unit	g.	Suction Pipe	(01)7ft	h.	Jubilee Clamp	08	i.	Socket	04
S No	Description	Req Qty																														
a.	Fuel Tank SS-316, 200 Ltrs	01																														
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g.	Suction Pipe	(01)7ft																														
h.	Jubilee Clamp	08																														
i.	Socket	04																														
12.	Eligibility Criteria	Any well reputed local/ international firm having experience for repair though replacement of Portable fuel Tanks for small boats																														
13.	EDC	15 Days																														
14.	Warranty	01 x Year after completion of work.																														
15.	Acceptance Criteria	<ul style="list-style-type: none"> > Inspection of all replaced parts by end user. > Successful trials by end user after onboard installation. 																														
16.	Any other relevant information	Contracted firm is to ensure replacement of marine grade Portable fuel Tanks.																														

IT NO : IT/46/13/2024-25**CALIBRATION OF 170 X GAUGES & METERS – PMSS BASOL**

S No	Description
1.	Parent Equipment
2.	Sub Equipment
3.	Assembly Component
4.	Make
5.	Model
6.	Quantity
7.	Justification
8.	Work required
9.	Technical Specs
10.	Detailed scope of Work
11.	Eligibilities
12.	EDC
13.	Warranty

Pressure/ temperature gauges & electrical meters

China

NA

170 x gauges and meters mentioned as per attached list need to be calibrated.

Calibration required for SAT ops

As above

As per OEM technical manual.

- a. Removal/ installation and isolation of system whose gauges are being removed for calibration.
- b. All gauges/ meters are to be tested prior removal. All operational gauges/ meters are to be returned in operational state.
- c. Calibration/ repair of defective gauges is responsibility of contractor.
- d. Any gauge/ meters which becomes defective during calibration is to be replaced by contractor.
- e. Brazing work of associated gauges/ meter lines where required is responsibility of contractor.
- f. Zoning of gauges as per the requirement of SS.
- g. Provision of calibration certificate of every gauge/ meter.
- h. Conduct of harbour and sea trials.

- a. Contractor is to visit the ship prior participation in job to quantify the number of gauges/ meters, repair/ brazing work (if required).
- b. Contractor is to mention/ verify the testing facility being utilized for calibration of gauges.

14 Days

01 year warranty for leakages from associated fittings/ lines of gauges/ meters. Contractor is to rectify any leakage defect from gauge upon reporting of defect by ship staff.

Upon completion of work and successful HATs & SATs

Visit onboard for detailed understanding of work.

IT NO : IT/46/14/2024-25

IT SPECIFICATIONS - REPAIR/ REPLACEMENT OF PID MODULEs OF MAIN SWITCHBOARD - PMSS KASHMIR													
1.	Parent Equipment	Ships Power Distribution System											
2.	Sub Equipment	Switchboards											
3.	Assembly Component	PID Modules											
4.	Make	SACE ABB											
5.	Model	LSI R630											
6.	Quantity	02											
7.	Justification i.e PMS/ Failure/ FWT etc	FWT											
8.	Work Required/ Defect	Repair/ replacement of 02 x PID modules of switchboard											
9.	Detailed scope of work	Repair/ replacement of 02 x PID modules of switchboard											
10.	Technical specs	<table><tr><td>Part No/Patt No</td><td>2040PV3040016</td></tr><tr><td>Ampere rating</td><td>630 Amp</td></tr><tr><td>Rated voltage</td><td>AC 400 V</td></tr><tr><td>No of Poles</td><td>03</td></tr><tr><td>MTBF</td><td>≥5000h</td></tr></table>		Part No/Patt No	2040PV3040016	Ampere rating	630 Amp	Rated voltage	AC 400 V	No of Poles	03	MTBF	≥5000h
Part No/Patt No	2040PV3040016												
Ampere rating	630 Amp												
Rated voltage	AC 400 V												
No of Poles	03												
MTBF	≥5000h												
11.	Eligibility Criteria	(i). Have experience to work for ships (preferably PMSA ships). (ii). Company must be certified with HQ PMSA. (iii). Company must be Income and Sales tax registered. (iv). Company must have good experience of procurement of electrical components											
12.	EDC/ EDD	10 Days after award of contract											
13.	Warranty	1 Year											
14.	Acceptance Criteria	Item will be accepted after onboard inspection and satisfactory trials for 48 hours											
15.	Any Other Relevant Information	SS contact (0321-3000503)											

IT NO : IT/46/15/2024-25

PMSS KASHMIR

IT SPECIFICATIONS: EXTRACTION AND INSTALLATION OF ENGINES' CONTROLLER / SOFTWARE			
1.	Parent Equipment	Propulsion Control System	
2.	Sub Equipment	Main Engines	
3.	Assembly Component	Engines' Controller Software	
4.	Make	German	
5.	Model	Europa Regulator	
6.	Quantity	02	
7.	Justification i.e PMS/ Failure/ FWT etc	FWT	
8.	Work Required	Extraction and installation of engines' controller software	
9.	Detailed scope of work	<ul style="list-style-type: none">a. Dismantling of PCBsb. Extraction of softwarec. Installation of PCBsd. Adjustment of parameters in softwaree. Provision of separate tool to connect PCB with laptopf. All spares, tools and test equipment are to be arranged by firmg. Any damage/ defect, wear & tear occurred during the course of removal and installation work will be repaired by firm	
10.	Technical specifications	As Per Sample	
11.	Eligibility Criteria	<ul style="list-style-type: none">a. Company must be certified with HQ PMSA.b. Company must be Income and Sales tax registered.	
12.	EDC/ EDD	10 Days after award of contract	
13.	Warranty	01 Years	
14.	Acceptance Criteria	Satisfactory Trials at sea for 15 x days	
15.	Any Other Relevant Information	Contractor must visit onboard to exact scope of work before providing quotation	

IT NO : IT/46/16/2024-25

IT SPECIFICATION FOR REPAIR/ REPLACEMENT OF JSS 2150 MF HF TX/RX SET - PMSS NUSRAT

S No	IT Specification	
1.	Ship's Name	PMSS NUSRAT
2.	Parent Equipment/ System	JSS 2150 MF HF TX/RX SET
3.	Sub Equipment/ system	JSS 2150 MF HF TX/RX SET
4.	Assembly/Equipment	-
5.	Make	JAPAN RADIO CO
6.	Model	JSS 2150
7.	Qty	01
8.	Justification	Item is critical required for operational requirement of equipment onboard ship
9.	Work Required	Repair/ Replacement of JSS 2150 MF HF TX/RX set
10.	Detailed Scope of Works	Following Scope of work: a. Repair/ replacement of JSS 2150 HF TX/RX set b. Ensuring satisfactory operation of JSS 2150 HF TX/RX set c. Provision of all necessary accessories for SAT Ops d. Complete onboard trials/ set to work in TX/RX Mode e. Growth work will be sole responsibility of the firm
11.	Technical Spec	JSS 2150 HF TX/RX set: a. Max Power output 150 watt b. Frequency Range 1.6 to 30 MHz c. Power supply 24VDC 30Amp with input voltage 180 – 260 VAC d. Operating Temperature: -15 - 55C e. Including battery bank with UPS min backup 30 minutes and max 2 hours
12.	Eligibilities	a. As per TSR b. The firm should visit onboard and assess the extent of required work. c. The firm should be having good experience in repair/maintenance of such system/ equipment. d. The firm should be NTN /GST registered
13.	EDC	14 x working days after issuance of work order.
14.	Warranty	01 Year
15.	Acceptance criteria	Satisfactory Harbor/Sea trials after completion of work

IT NO : IT/46/17/2024-25

IT SPECS FOR DANGER TAGS, HIGH VOLTAGE WARNING & STANDARDIZED SERVICE TO SOURCE TALLIES – PMSS BARKAT

1.	Ship's Name	PMSS BARKAT
2.	Parent equipment/system	POWER GENERATION AND DISTRIBUTION
3.	Sub equipment	Electrical Distribution Panels
4.	Assembly/ equipment	Switches Sockets
5.	Make	-
6.	Model	-
7.	Qty	750 in no acrylic/metallic tallies. a. Danger 380 Volt Panel Tags 30mm x 60mm in Red color 80 in No b. Danger 380 Volt Warning Tags 90mm x 120mm in Red color 10 in No c. Danger "DO NOT SWITCH ON" tags 90mm x 120mm 10 in No d. Danger 220 Volt Tags 20mm x 50mm in Yellow color 370 in No e. Panel Tallies 30mm x 60mm in Black Color 280 in No
8.	Justification	Coated paper service to source tallies pasted on panels switches and sockets
9.	Work required	Standardized Danger Tags, High Voltage Warning and service to source tallies on acrylic/metallic sheet in black, red and yellow colors are required for safety concern *
10.	Detailed scope of work	a. Replacement of 380V acrylic/metallic tallies in red color b. Replacement of 220V acrylic/metallic tallies in yellow color c. Replacement of switch board tallies in black color
11.	Technical spec	750 in no tallies on acrylic sheet are to be made new
12.	Eligibilities	a. The firm must visit onboard and carry out diagnoses/inspections to establish the extent of required work. b. The firm must have sufficient experience of same kind of work and experienced. c. The firm should be NTN /GST registered
13.	EDC	07 x days after issuance of work/confirmation order.
14.	Warranty	01 Year
15.	Acceptance criteria	a. Satisfactory work done by the firm. b. Successful completion and acceptance by the end user.

IT NO : IT/46/18/2024-25**IT SPECIFICATION FOR REPAIR/ REPLACEMENT OF WARNING BELLS AND CABLES FOR 37MM AND 02 x 14.5MM GUNS – PMSS BARKAT**

S.NO	IT SPECIFICATION	
1.	Ship Name	PMSS BARKAT
2.	Parent equipment	Warning/ alarm bells, cables and switches for 37mm and 02 x 14.5mm guns
3.	Sub equipment	Warning bells and power cables.
4.	Assembly component	03 x alarm bells
5.	Make	PAKISTAN
6.	Model	793446
7.	Quantity	03 x warning bells, power cable x 200m & 03x switches.
8.	Justification i.e PMS/ Failure/ FWT etc	FWT
9.	Work require/ defect	Repair/ replacement of warning/ alarm bells and power cables for guns
10.	Detail scope of work	a. Replacement of warning/ alarm bells and power cables for guns. b. Successful operations of warning/ alarm bells. c. All spare tools, special equipment/ tools accessories etc for fabrication/ installation of warning/ alarm are to be arranged by the firm. d. Dismantling, assembling transportation will be responsibility of the firm. e. Any other work required to ensure good quality and optimum performance of the warning/ alarm bells. f. All in way work will be undertaken by the firm. g. The firm will be responsible to undertake any work not covered above for repair/ replacement of warning alarm/ bells.
11.	Technical specification (if any)	a. Marine version alarm bells. b. Power requirement 220V AC. c. Power cable marine version. d. Marine version switches
12.	Eligibility criteria	a. As per TSR. b. The firm should visit onboard and access the extend of required work and understand exact nature of defect before quotation. c. The firm should having good experience to repair/ maintenance/ replacement of such system/ equipment. d. The firm should be NTN/ GST registered.
13.	EDC	02 x week after issuance of work order
14.	Warranty	01 Year.
15.	Acceptance criteria (if any)	Satisfactory trials after installation in at harbor and at sea.

IT NO : IT/46/19/2024-25**INSTALLATION OF STAG HORNS CLEATS AND DECK EYES DURING EMP – PMSS BASOL**

S No	Description	
1.	Description	Staghorns, Cleats And Deck Eyes
2.	Location	Port & Stbd Alleyways
3.	Make	-
4.	Colour	-
5.	Quantity	a. 4 x Staghorns b. 4 x Cleats c. 6 x Deck eyes
6.	Justification i.e Failure/ FWT	Installation of 4 x staghorns, 4 x cleats and 6 x deck eyes are required on Boat Deck/ Stbd & Port Alleyways to secure RHIB/ FVs/ dhows alongside.
7.	Work Required/ Defect	Installation of 4 x staghorns, 4 x cleats and 6 x deck eyes are required on Boat Deck/ Stbd & Port Alleyways to secure RHIB/ FVs/ dhows alongside.
8.	Detailed Scope of Work	a. Strengthening of deck where said items are to be installed. b. Welding of 4 x staghorns, 4 x cleats and 6 x deck eyes on strengthened deck. c. Load test/ NDT of newly installed items.
9.	Technical Specs	As per OEM Manual
10.	Eligibility Criteria	Reputable contractor having experience of paint work.
11.	EDC/ EDD	02 Weeks
12.	Warranty	5 Year
13.	Acceptance Criteria	Visual inspection
14.	Any other information	a. All accessories required for installation are to be arranged by contractor. b. Contractor may visit onboard prior installation. c. Job will have to be completed while ship is at SLTS.

IT NO : IT/46/20/2024-25**IT SPECIFICATION OF 04X DISH TV RECEIVERS, DISH AND CABLE PMSS BARKAT**

S.NO	IT SPECIFICATION	
1.	Ship's Name	PMSS BARKAT
2.	Parent equipment	DISH TV SYSTEM
3.	Sub equipment	Dish Receiver , Dish And Cable
4.	Assembly component	-
5.	Make	CHINA
6.	Model	Echo Link Receiver, RG6 Cable and
7.	Quantity	04 X Receiver ,01 X Dish And 300 Meters Cable
8.	Justification i.e PMS/ Failure/ FWT etc	FWT
9.	Work require/ defect	Installation of complete DISH TV system.
10.	Detail scope of work	a. Replacement of Complete DISH TV System as per IT spec. b. All spare tools, special equipment/ tools accessories etc for installation of Dish system are to be arranged by the firm. c. Dismantling, assembling transportation will be responsibility of the firm. d. Any other work required to ensure good quality and optimum performance of the DISH TV System. e. All in way work will be undertaken by the firm. f. The firm will be responsible to undertake any work not covered above for installation of DISH TV System.
11.	Technical specification (if any)	a. Echo link dish receivers(M-5000) b. RG6 coaxial cable c. Dish
12.	Eligibility criteria	a. As per TSR b. The firm should visit onboard and access the extend of required work and understand exact nature of defect before quotation. c. The firm should having good experience to repair/ maintenance/ replacement of such system/ equipment. d. The firm should be NTN/ GST registered.
13.	EDC	02 X week after issuance of work order.
14.	Warranty	01 Year.
15.	Acceptance criteria (if any)	Satisfactory trials after installation in at harbor.

**IT SPECIFICATIONS FOR REQUIREMENT OF COMPLETE SERVICING/ OVERHAULING OF
SSDG NO 1 ALTERNATOR: PMSS BARKAT**

1.	Ship's Name	PMSS BARKAT
2.	Parent equipment/system	SSDG No 1
3.	Sub equipment	Alternator with all associated accessories
4.	Assembly/ equipment	Exciter Assembly
5.	Make	CUMMINS
6.	Model	6CTA8-3
7.	Qty	01
8.	Justification	To improve working efficiency of SSDG No 1 alternator.
9.	Work required	Servicing & overhauling of complete alternator.
10.	Detailed scope of work	<p>Scope of work is as under:</p> <p>a. Remove the alternator and unshipped if required.</p> <p>b. Servicing & overhauling of exciter rotor of SSDG No 1.</p> <p>c. Inspect and measure insulation/ field balancing of main stator and rotor of the alternator and carry out appropriate repair works if required.</p> <p>d. Replace bridge diodes assembly (Spare diode assembly to be provided).</p> <p>e. Install the alternator.</p> <p>f. Replace AVR card.</p> <p>g. Old/ defective parts/ components are to be handed over to SS for survey.</p> <p>h. Requirement of external services, if required will be responsibility of firm.</p> <p>i. All spares (must be genuine) tools special equipment /accessories required for said work are to be arranged by the firm.</p> <p>k. Any damage/ defect/wear tear occurred during course of removal; repair and installation of system/equipment will be repaired /met by firm.</p> <p>l. The firm will be responsible for all removal, transportation and installation work during warranty/ grantee periods claims in case of any rework.</p> <p>m. All tools and accessories required for said work are to be arranged by the firm</p>
11.	Technical spec	<p>Output: 380V, 50Hz, 3 Phase</p> <p>Capacity: 110 KW</p>
12.	Eligibilities	<p>a. The firm must visit onboard and carry out diagnoses/inspections to establish the extent of required work.</p> <p>b. The firm must have sufficient experience of same kind of work and experienced.</p> <p>c. The firm should be NTN /GST registered.</p> <p>d. Any damage/defect/wear tear occurred during course of removal, repair and installation of system/ equipment will be repaired/ met by firm.</p>
13.	EDC	05 x days after issuance of work/confirmation order.
14.	Warranty	01 Year
15.	Acceptance criteria	<p>a. Satisfactory work done by the firm.</p> <p>b. Full load trials.</p>
		<p>c. Physical inspection and suitability for spares by end user</p> <p>d. Satisfactory trials (HATs/ SATs).</p>

**IT SPECIFICATION FOR REPAIR/ MAINTENANCE OF STBD MDE JACKET WATER
COOLER - PMSS SABQAT**

1.	Parent Equipment	Main diesel engine (MDE)
2.	Sub Equipment	Jacket water cooler (MDE)
3.	Assembly Component	Jacket water cooler
4.	Make	Caterpillar
5.	Model	Main Diesel Engine (MDE) 3516
6.	Qty	01
7.	Justification	Jacket water cooler suspected leaky
8.	Work required/ defect	Repair/ maintenance of jacket water cooler
9.	Detailed scope of work	<p>Scope of work includes following works</p> <p>a. Dismantling and fitting of jacket water cooler along with assembly components</p> <p>b. Chemical cleaning of jacket water cooler</p> <p>c. After chemical cleaning of cooler pressure test is to be carried out up to 10 Bar.</p> <p>d. After pressure testing repair work of leaky tubes are to be carried out by the firm.</p> <p>e. Any damage occurs during the course of inspection work will be done by firm without any liability/ responsibility on part of the ship/PMSA.</p> <p>f. Requirement of external services if any will be responsibility of the firm without any liability on the part of ship.</p> <p>g. Re install cooler after chemical cleaning and pressure test with new seals and gaskets.</p> <p>h. Prove system for any leakages and satisfactory operation.</p> <p>j. All material, spares, tools, special equipment / tools accessories etc required for said work are to be arranged by the contractor.</p> <p>k. Defective items are to be handover to ship staff.</p>
10.	Technical Specification	Caterpillar
11.	Eligibilities	<p>a. The firm should visit onboard and carry out inspection to establish the extent of required work.</p> <p>b. The firm should have experience of the same kind of work.</p> <p>c. The firm should be NTN/GST registered.</p>
12.	EDC/EDD	07 working days
13.	Warranty	01 year
14.	Acceptance Criteria (if any)	<p>a. OEM certified material</p> <p>b. Satisfactory running trials</p>

IT SPECIFICATIONS FOR REPAIR/ OVERHAULING OF MAIN BILGE PUMP - PMSS DASHT

S No	Description	
1	Parent Equipment	Bilges System
2	Sub Equipment	Main Bilge Pump
3	Assembly Component	Pump alongwith Motor
4	Model	80CLZ-5A
5	Make	Hebei Hengsheng Pumps Co., Ltd..
6	Quantity	01
7	Justification	Degraded performance and low suction/ discharge pressure
8	Work required	Overhauling of Bilge pump required for satisfactory operation
9	Technical Data	Technical specifications are per OEM
10	Scope of Work	a. Replacement of degraded pump impeller with nickel bronze/ phosphorus bronze material pump impeller b. Replacement of old mechanical seal with high quality mechanical seal c. Replacement of degraded seal ring with nickel bronze/ phosphorus bronze seal ring d. Replacement of impeller keys with nickel bronze/ phosphorus bronze material impeller keys e. Precise alignment of pump with motor f. Replacement of motor bearing with new g. Any growth work will be responsibility of firm
11	Eligibilities	a. Reputable local contractor having working experience onboard b. Firm must visit site for understanding exact nature of work/ hindrances involved in job prior quoting to avoid inconvenience on later stage after award of work order
12	EDC	01 x week
13	Warranty	One year after completion of successful trials
14	Acceptance Criteria	a. Satisfactory suction/ discharge pressure of pump b. Precise alignment alongwith vibration analysis report c. Satisfactory operation without leakage d. Satisfactory operation of gauge after installation
15	Any other Information	a. Firms are requested to visit site before quoting b. Damage to system during work is responsibility of contractor. c. Dismantling/ assembling work is responsibility of contractor.

IT SPECIFICATIONS FOR REPLACEMENT/ FABRICATION OF VENTILATION DUCTS AND FANS - PMSS DASHT

S No	Description																																											
1.	Parent Equipment	Messes, Cabins and AER																																										
2.	Sub Equipment	Exhaust and Ventilation																																										
3.	Assembly Equipment	Trunking and Fans																																										
4.	Make	China																																										
5.	Model	Chinese/ Locally Manufactured Marine Version																																										
6.	Quantity	06 Compartments																																										
7.	Justification	Deteriorated/ degraded (ageing factor) trunking																																										
8.	Work required	Fabrication and replacement of trunking and fans																																										
9.	Technical Specs	<div>Fabrication of ventilation ducts (1.3 thickness MS/ SS Galvanized material) with following dimensions:</div> <table><tr><th>Compartment</th><th>Width x Height (Inches)</th><th>Length (Feet)</th><th>Duct Fan</th></tr><tr><td>Sewage</td><td>12 x 9</td><td>15</td><td>0</td></tr><tr><td>Ops Mess</td><td>5 x 10</td><td>25</td><td>2</td></tr><tr><td>L & M Mess</td><td>6 x 10</td><td>11</td><td>1</td></tr><tr><td>Laundry</td><td>10 x 12</td><td>14</td><td>0</td></tr><tr><td>AER</td><td>6 x 10</td><td>12</td><td>2</td></tr><tr><td>CO Washroom</td><td>6 x 9</td><td>06</td><td>0</td></tr></table> <div>Installation of Ventilation Fans with following technical specifications are required:</div> <table><tr><th>Description</th><th>Technical Specifications</th></tr><tr><td>Manufacture</td><td>K Sileo</td></tr><tr><td>Size</td><td>160 XL</td></tr><tr><td>Input</td><td>230 V AC</td></tr><tr><td>Frequency</td><td>50/60 Hz</td></tr><tr><td>Current</td><td>0.45/ 0.60 A</td></tr><tr><td>Power</td><td>102/ 137 W</td></tr></table>	Compartment	Width x Height (Inches)	Length (Feet)	Duct Fan	Sewage	12 x 9	15	0	Ops Mess	5 x 10	25	2	L & M Mess	6 x 10	11	1	Laundry	10 x 12	14	0	AER	6 x 10	12	2	CO Washroom	6 x 9	06	0	Description	Technical Specifications	Manufacture	K Sileo	Size	160 XL	Input	230 V AC	Frequency	50/60 Hz	Current	0.45/ 0.60 A	Power	102/ 137 W
Compartment	Width x Height (Inches)	Length (Feet)	Duct Fan																																									
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Ops Mess	5 x 10	25	2																																									
L & M Mess	6 x 10	11	1																																									
Laundry	10 x 12	14	0																																									
AER	6 x 10	12	2																																									
CO Washroom	6 x 9	06	0																																									
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Frequency	50/60 Hz																																											
Current	0.45/ 0.60 A																																											
Power	102/ 137 W																																											
10.	Scope of work	<div>a. Removal of deteriorated ducts and fans</div> <div>b. Fabrication of new ducts by the firm with MS Galvanized material</div> <div>c. Installation of new locally manufactured marine version ventilation fans in ducts</div> <div>d. Pressure test of ducts be undertaken for leakages and new ducts to be installed with new gaskets on every joint</div>																																										

		<p>e. New studs/ Nut bolts be used for Stainless Steel material</p> <p>f. After installation of ducts, successful onboard trials on running ventilation fans without any leakage from the ducts</p> <p>g. All in-way accessories be removed by the firm and fitted back</p> <p>h. Growth work will be sole responsibility of the firm. To avoid complications on later stage, firm is directed to visit the ship before quoting for understanding removal/installation and defect rectification scope</p> <p>j. Firm quoting without visiting will be liable for rejection in TSR</p>
11.	Eligibilities	<p>a. Any registered and security wise cleared local contractor having good experience in above mentioned scope of work</p> <p>b. Firm must visit site for understanding exact nature of defect/hindrances involved in job prior quoting to avoid inconvenience on later stage after reward of Work Order.</p>
12.	EDC	01 x Week
13.	Warranty	01 x Year
14.	Acceptance Criteria	Satisfactory fabrication, installation and operation of exhaust and ventilation fans without any leakage from the ventilation ducts
15.	Any other relevant information	Damage/ defect occurred to system during work is responsibility of contractor. Contractor must visit site and inspect scope of work prior quoting otherwise will be liable to rejection.

IT NO : IT/46/25/2024-25

IT SPECIFICATIONS FOR REPAIR/ REPLACEMENT OF 04 X SHAFT BRAKE PADS - PMSS DASHT		
S No	Description	
1.	Parent Equipment	Shafts
2.	Sub Equipment	Brake
3.	Assembly Component	Pads
4.	Quantity	04
5.	Make	China
6.	Model	N/A
7.	Justification	Degraded performance during Pre PED trials
8.	Work Required	Repair/ replacement of all 04 x Shaft Brake Pads
9.	Scope of work	<p>a. Detailed inspection of 04 x Shafts</p> <p>b. Removal of complete accessories of shafts brake pads.</p> <p>c. Replacement of all brake pads.</p> <p>d. Replacement of all defective fittings.</p> <p>e. Replacement of nuts/ bolts with SS.</p> <p>f. All tools and equipments be arranged by the firm</p> <p>g. All spares/ parts provided must be OEM specified only</p> <p>h. Repair/ replacement of the brake pads with SAT running all 04 x shafts at 2050 rpms and stopping.</p>
10.	Technical specs	As per OEM manual
11.	Eligibilities	Any security wise clear, reputable local contractor having relevant working experience
12.	EDC	07 x Days
13.	Warranty	01 x year complete warranty of replaced part after completion of successful trials
14.	Acceptance Criteria	Satisfactory running and stopping of 04 x Shafts at 2050 rpms
15.	Any other relevant information	Firms are requested to visit onboard prior quoting to understand exact scope of work.

IT NO : IT/46/26/2024-25

IT SPECIFICATION FOR CONDUCT OF 6000 HRS PMS ROUTINE OF GENSET # 1 PMSS KASHMIR		
1.	Parent Equipment	Power Generation and Distribution System
2.	Sub Equipment	SSDG # 1
3.	Assembly Component	Misc
4.	Make	CUMMINS
5.	Model	K19-DMMARINE GENSETS
6.	Quantity	01
7.	Justification i.e PMS/ Failure/ FWT etc	6000 Hrs PMS Routine
8.	Work Required/ Defect	As per para 7 & 9
9.	Scope of work	<p>Conduct of 6000 Hrs routine of GENSET # 1</p> <p>Include following tasks:</p> <p>1. Replacement of requisite spares</p> <p>2. Undertake following works:</p> <p>a. Adjust the valve clearance and nozzle stroke.</p> <p>b. Check crankshaft axial clearance.</p> <p>c. Tighten all bolts on the mounting bracket and check the seawater and fresh water cooler.</p> <p>d. Clean and verify the fuel injector pump.</p> <p>e. Check the turbocharger / Vibration isolators / pump, clean and flush the cooling system.</p> <p>f. Verify the diesel engine protection system.</p> <p>g. Replace the thermostat and seals.</p> <p>h. Check the throttle stroke (adjust the connecting rod of variable speed throttle).</p> <p>j. Replace oil and fuel filters (including full flow and bypass oil filter.)</p> <p>k. Check the concentration and level of the diesel engine coolant DCA, if necessary, add/ replace DCA.</p> <p>l. Repair/ replace water pump</p> <p>m. Check or rebuild turbocharge and vibration damper</p> <p>3. Additional work regarding inspection of flywheel and servicing of air stator may also be carried out</p>

10.	Technical Specs	4. Any growth work during conduct of routine As per para 9 and Technical Manual of Cummins (TPI: 3-3703-450-001)
11.	Eligibility Criteria	(i). Company must be certified with HQ PMSA (preferably M/s Orient Energy Systems Pvt Ltd) (ii). Company must be Income and Sales tax registered (iii). Company must have good experience of procurement of marine equipment
12.	EDC	15 x Working days after issuance of work order
13.	Warranty	1 year.
14.	Acceptance Criteria (if any)	(i). Satisfactory operation of GENSETs upto 100% load trials with zero leakage (ii). Power Quality Analysis (PQA) by firm (iii). Functional testing of safeties (iv). Firm will be responsible for any growth work during conduct of routine
15.	Any other relevant information	SS Contact (0321-3000503)

IT NO : IT/46/27/2024-25

IT SPECIFICATIONS OF REPAIR/ REPLACEMENT OF THERMAL IMAGER CAMERA OF 30MM NAVAL GUN – PMSS HINGOL

S No	Description									
1.	Parent Equipment	CS/ AN3 type 30mm naval gun								
2.	Sub Equipment	Thermal infrared imager								
3.	Assembly Component	Photoelectric detection assembly								
4.	Model	CS/ AN3								
5.	Make	CHANGAN INDUSTRY (GROUP) CO., LTD CHINA								
6.	Quantity/Item Details	<table><tr><th>S. No</th><th>Part Number</th><th>Description</th><th>Required Quantity</th></tr><tr><td>a.</td><td>14-5-2</td><td>Thermal infrared imager</td><td>01</td></tr></table>	S. No	Part Number	Description	Required Quantity	a.	14-5-2	Thermal infrared imager	01
S. No	Part Number	Description	Required Quantity							
a.	14-5-2	Thermal infrared imager	01							
7.	Justification	Repair/ Replacement of suspected defective thermal infrared imager of 30mm naval gun								
8.	Work required/Defect	<div>a. Defect diagnosis/ rectification in respect of thermal infrared imager of 30mm naval gun.</div> <div>b. Satisfactory installation of Sub-Equipment/ components as diagnosed/ required.</div> <div>c. Complete onboard trials.</div> <div>d. Growth work will be sole responsibility of the firm.</div>								
9.	Scope of work	<div>a. Defect diagnosis in respect of thermal infrared imager of 30mm naval gun.</div> <div>b. Repair/ replacement of Thermal Imager (IR) Camera along with revitalization of Gun control panel</div> <div>c. Subsequent alignment of the IR camera with telescopic eye piece</div> <div>d. Satisfactory re-installation of Sub-Equipment/ components as diagnosed/ required.</div> <div>e. Complete onboard trials.</div> <div>f. Growth work will be sole responsibility of the firm.</div>								
10.	Technical Specifications	Power Input –AC 380V 50HZ and DC 27V Infrared band- 8µm~12 µm Viewing field(horizontal vertical): 7° x 5° Operating distance (visibility 20km, temperature difference between environment and target more then 6°, 10x15m target): ≥3000m								
11.	Eligibility Criteria	Any registered and security wise cleared local contractor who has working experience onboard MPVs								
12.	EDD	01 x Month								
13.	Warranty	01 Year Warranty								
14.	Acceptance Criteria	<div>a. OEM certified item</div> <div>b. Technical Specifications to be provided</div> <div>c. Upon scrutiny of items and provided documents i.e. technical specifications along with production certificates by OEM</div> <div>d. Satisfactory trials onboard ship.</div>								
15.	Any Other Relevant Information	SS may be contacted for any requirement/query								

IT NO : IT/46/28/2024-25

IT SPECIFICATIONS FOR REPAIR/ REPLACEMENT OF MAIN ENGINE THERMO REGULATING VALVES (TRVs) - PMSS KOLACHI

S No	Description	
1.	Parent Equipment	DALIAN CRCC MAN Diesel Engines
2.	Sub Equipment	Coolant circuit
3.	Assembly Equipment	Thermo regulating Valves
4.	Make	AMOT
5.	Model	Series B – nom 82°C (MAN B&W part No.80.100.06572.206)
6.	Required Quantity	As mentioned in detail scope of work
7.	Justification	Repair/ Replacement of Thermo regulating valves of both main engines due to intermittent response at sea
8.	Work Required	Repair/ Replacement of 04 x Thermo regulating valves of (02 x LT and 02 x HT) coolant circuit of both main engines
9.	Detailed scope of work	Repair/ Replacement of following items of TRVs: a. TRV Element b. O-rings c. Gasket
10.	Technical specifications	As per OEM specifications/ Manual
11.	Eligibility Criteria	Reputable local/ international contractor having working experience with PMSA
12.	EDD/EDC	30 Days after award of contract
13.	Warranty	01 Year warranty at acceptance criteria
14.	Acceptance Criteria (if any)	a. OEM Certified item b. TRV should start operate at 79 °C and fully operate at 83 °C c. Successful Trials.
15.	Any other relevant information	Firm/ contractor Rep should visit/ consult MEO i.o.t understand scope of work (Contact no 03338948563)

IT SPECIFICATIONS FOR REPAIR/ REPLACEMENT OF FREQUENCY VARIABLE SEA WATER SUPPLY UNIT - PMSS KOLACHI				
S.No	Description			
1.	Parent Equipment	Frequency Variable Sea Water Supply Unit		
2.	Sub Equipment	Sea water flushing unit		
3.	Assembly Equipment	Sea Water Pump		
4.	Make	Nantong Huameng Ship Machinery Factory		
5.	Model	CBGS044-25A-00		
6.	Required Quantity	S No	Part Number	Description
		a.	BNG6/18-2	Impeller
		b.	---	Motor winding
		c.	BNG6/18-4	Mechanical seal
		d.	HMYLG24-00-10	Neoprene airbag
		e.	0.2~0.4Mpa	Pressure Switch
		f.	CBGS044-25A-00-B	Safety valve
7.	Justification	Repair/ replacement of above mentioned items of frequency variable sea water flushing plant for SAT operation of system		
8.	Work required	Repair/ replacement of defective/ degraded parts of frequency variable sea water flushing plant.		
9.	Detailed scope of work	Repair/ replacement of following items is required: a. Impeller b. Motor bearing c. Motor winding d. Pump bearing e. Mechanical seal f. Pressure switch g. Safety valve		
10.	Technical specifications	As per OEM specifications/Manual		
11.	Eligibilities	Reputable local contractor having working experience with PMSA		
12.	EDD/EDC	20 days		
13.	Warranty	1 year for Pump and motor as per acceptance criteria		
14.	Acceptance Criteria (if any)	a. Sea water pump pressure should be above 4 bar b. Motor current and temperature should be within working range limit c. Pump should be running without any abnormal noise d. Successful harbor trials		
15.	Any other relevant Info	Firm Rep must visit/ consult MEO prior quoting on PEPR (Contact No 03338948563)		

IT SPECIFICATION REPAIRING/REPLACEMENT AND POLISHING OF OFFICE FURNITURE MCW DIRECTORATE				
S.No	IT Specification			
1.	Parent Equipment	Office Furniture		
2.	Sub Equipment	N/A		
3.	Make	N/A		
4.	Model	N/A		
5.	Qty	As mentioned against each		
6.	Justification	Office furniture are deteriorated due to fair, wear and tear		
7.	Work required	Repairing/Polishing Work		
8.	Detail scope of work	Repairing/Polishing of work stations and replacement of Formica Sheets	03	
		Repairing/Polishing and replacement of Formica sheets of office table and side table	02	
		Replacement of Drawers of work stations and office table	08	
		Re-Cushioning of Sofa Set	01	
		Repair of officer Revolving chair	01	
		Repair/Polishing of cabinets	13	
		Repair/Replacement of locks	11	
		Replacement of Door Door Stopper/Closer	02	
		Replacement of Door Locks	02	
9.	Technical Specs	N/A		
10.	Eligible Criteria	Any reputed firm having good experience of furniture		
11.	EDC	05 x Days		
12.	Warranty	01 x Year		
13.	Acceptance Criteria	Work will be inspected and accepted by end user		

REPAIR/ MAINTENANCE OF SYNCHRONIZING UNIT OF SSDGs : PMSS BARKAT				
S.No	PMSS BARKAT			
1.	Ship's Name	Power Generation and Distribution		
2.	Parent equipment/system	Switchboard		
3.	Sub equipment	Synchro scope unit and load shedding module in parallel		
4.	Assembly/ equipment	N/A		
5.	Make	N/A		
6.	Model	N/A		
7.	Qty	01		
8.	Justification	Synchro scope unit in parallel is observed defective due to PWT/ Old vintage.		
9.	Work required	Synchro scope unit in parallel is required to be repair/ maintenance.		
10.	Detailed scope of work	Following work is required to be undertaken for repair/ maintenance of synchro scope unit for operating SSDGs in parallel. a. Synchro scope unit/ method is to be repaired/ maintenance. b. 03 x mechanical governors of SSDGs to be replaced with electronic control governors for operation in synchronizing method. c. Parallel system for frequency and voltage meters to be ensured. d. Synchronizing AVR card to be replaced. e. KVV meters are to be repaired/ replaced. f. Current transformers (CTs) are to be repaired/ replaced for SAT ops. g. Load shedding module and auto synchronizing to be replaced for safe operation of SSDGs. h. Control cables and wiring to repair/ replaced. i. Repair/ maintenance of 3 Phase bus bar for phase sequence to be carried. j. Voltage magnitude for operation of SSDGs in parallel to be ensured. k. Frequency of putting on load SSDGs must watch with bus bar frequency to be ensured. l. All spares (must be genuine) tools special equipment /accessories required for said Repair/ Maintenance are to be arranged by the firm. m. Any damage/ defect/wear tear occurred during course of removal, repair and installation of system/equipment will be repaired /met by firm. n. The firm will be responsible for all removal, transportation and installation work during warranty/ guarantee periods claims in case of any rework. o. Requirement of external services, if required will be responsibility of firm.		
11.	Technical spec	a. 360VAC Main supply b. 50Hz c. 3 Phase d. 220V-240VAC e. 24VDC Control Supply		
12.	Eligibilities	a. The firm must visit onboard and carry out diagnoses/inspections to establish the extent of required work. b. The firm must have sufficient experience of same kind of work and experienced. c. The firm should be NTN /GST registered		
13.	EDC	07 x days after issuance of work/confirmation order		

14.	Warranty	01 Year
15.	Acceptance criteria	a. 380VAC Main supply b. 50Hz c. 3 Phase d. 220V-240VAC e. 24VDC Control Supply

IT NO : IT/46/32/2024-25

IT SPECIFICATION FOR REPAIR/ REPLACEMENT OF DIRTY LUBE OIL SYSTEM – PMSS REHMAT

S No	IT Specifications	
1.	Parent Equipment	Main engines, SSDGs and gear boxes
2.	Sub Equipment	Dirty lube oil system
3.	Assembly Component	Dirty lube oil tank and pump with associated piping
4.	Make	China
5.	Model	-
6.	Quantity	01 x Dirty lube oil tank 01 x Lube oil pump (Electric) 01 x lube oil hand pump Associated piping with main machinery
7.	Justification i.e PMS/ Failure/ FWT etc	Dirty lube oil system is observed degraded due FWT.
8.	Work required/ Defect	Dirty oil system is observed degraded due FWT and same is required to be replaced for satisfactory operation.
9.	Technical Specification	a. Dirty lube oil tank (500 Ltrs) b. Lube oil pump (220VAC 3Phase) c. Associated lube oil piping.
10.	Scope of Work	Following works are required to be undertaken for repair/ replacement of dirty lube oil system of main machinery: a. Dirty lube oil pump is to be overhauled/ replaced. b. Dirty lube oil tank to be opened, cleaned and fitted back after necessary paint work. c. All associated suction piping of lube oil pump (1 inch dia, 20 meters length FER and 15 meters length AER) to be repaired/ replaced with main machinery (04 x main engines, 03 x SSDGs and 04 x gear boxes). d. Lube oil pump discharge pipe to weather deck to be repaired/ replaced. e. All lines valves, elbows, and connectors for suction and discharge piping to be repaired/ replaced. f. All marine version line valves and accessories to be fitted for satisfactory operation. g. 01 x dirty lube oil hand pump to be overhauled/ replaced. h. All spares, special equipment / tools, accessories etc for repair/ replacement for said work to be arranged by the contractor. j. Any damage /in way removal/ defect / wear tear occur during the course of removal and installation of lube oil system is to be repaired/ met by contractor.

11.	Eligibility Criteria	a. The firm must visit onboard and carry out diagnosis/ inspections to establish the extent of required work. b. Firms not undertaking the visit onboard ship to see extent of work will not technically qualify. c. The firm must have sufficient experience of same kind of work of lube oil system onboard ship. d. NTN/ GST registered.
12.	EDC	30 Working days
13.	Warranty	01 year
14.	Acceptance criteria	a. Dirty lube oil tank (500 Ltrs) b. Lube oil pump (220VAC 3Phase) c. Associated lube oil piping d. HATS/ SATs by SS.

IT NO : IT/46/33/2024-25

IT SPECIFICATIONS FOR REPAIR/ REPLACEMENT OF SMOKE, HEAT & OPTICAL SMOKE DETECTORS AND MANUAL CALL POINTS – PMSS BASOL

S No	Description		
1.	Parent Equipment	Fire Alarm System	
2.	Sub Equipment		
3.	Assembly Component	Smoke, Heat & Optical Smoke Detectors And Manual Call Points	
4.	Make	Syncro ASM China	
5.	Model	MA80161M2	
6.	Quantity/ Item Details	Part No.	Qty
		58000-400	Heat Detector
		ORB-OP-52028-APO	IS Optical Smoke Detector
		58000-600	Optical Smoke Detector
		58100-971/ 58000-920	Manual Call Point
7.	Justification	FWT	
8.	Work Required/ Defect	Smoke Detector, Heat Detector, Optical Smoke Detector and Manual Call points are malfunctioning. Same are required to be repaired/ replaced for satisfactory operation of the system.	
9.	Scope of work	a. Replacement of all detectors through trained technicians. b. Functional replacement can be undertaken for non-available/ obsolete component. c. Onboard test/ trials to be conducted after replacement. d. Spare(s)/ components required for repair work will be arranged by contractor. e. Contractor may inspect switching power supply/ module through onboard visit. f. Any growth work during replacement will be borne by the contractor. Ship will not provide any spare part/ additional amount in case of growth work. g. Any damage to the system during onboard testing of switching power supply will be borne by contractor.	
10.	Technical specs (If any)	As per OEM manual/ Specs	
11.	Eligibility Criteria	Suitable contractor having working experience on Electronics/ Electrical equipments with PMSA.	
12.	EDC	2 weeks	
13.	Warranty	One year service and components warranty after successful trials.	
14.	Acceptance Criteria	a. Successful test and trials onboard ship. b. Certified spares to be used for avoiding damage to ship systems.	
15.	Any other relevant Information	SS may be contacted for any further query/ requirement.	

IT SPECIFICATION – REPLACEMENT OF ENGINE OF SSDG NO-1 - PMSS NUSRAT

S No	IT Specifications	
1.	Ship's Name	PMSS NUSRAT
2.	Parent Equipment	Power Generator
3.	Sub Equipment/ System	SSG No 1 (110 KW)
4.	Assembly/ Equipment	Engine
5.	Make	DEUTZ
6.	Model	O234V8
7.	Qty	01
8.	Justification	Performance degraded
9.	Work Required	Dismantling/ removal of existing engine from SSDG No 1 and Installation/ commissioning of compatible CUMMINS engine on SSDG No 1
10.	Technical Spec	110 KW 50 hz 380 V
11.	Detailed Scope of works	<p>Scope of work is as under:</p> <p>a. Decouple and remove existing Deutz engine from SSG No 1 and unship.</p> <p>b. Install and commission refurbished CUMMINS (6CTA 8.3) engine on SSDG No 1, as per technical specifications.</p> <p>c. Alignments of CUMMINS engine is the responsibility of firm.</p> <p>d. Any additional piping for S/W, Lub oil, fuel is the responsibility of firm.</p> <p>e. Installation/ provision of start/ stop and engine parameters at remote and local position.</p> <p>f. Marine version engine is to be installed.</p> <p>g. Any additional/ essential accessories i.e S/W cooling pump, Heat exchanger, after cooler etc are to be arranged installed by the firm.</p> <p>h. Safeties of newly installed engine are to be tested and certificate is to be provided.</p> <p>i. Technical manual of newly installed engine is to be provided.</p> <p>k. Tools, special equipment/ accessories required for said repair/ maintenance are to arranged by the firm.</p> <p>l. Any damage/ defect/ were tear occurred during course of removal, repair and installation will repair by firm.</p> <p>m. Requirement of external services will be responsibility of firm.</p> <p>n. Install 25/50 hrs routine is to be carried out by the firm and spares required for initial 25/50 hrs routine are to be provided by the firm.</p> <p>p. NSN/ part numbers of essential spares including list of spares required for TOH and MOH are to be provided by the firm.</p> <p>q. 02 days training of SS w.r.t PMS routines will be arranged by the firm at ship premises.</p> <p>r. The firm must have experienced of same kind of work.</p> <p>s. The firm should be NTN/ GST registered.</p>
12.	EDC	10 x working days
13.	Warranty	01 x year
14.	Acceptance Criteria	<p>a. Satisfactory work done by the firm.</p> <p>b. Satisfactory VA Report by FMG(ME).</p> <p>c. Satisfactory conducted PQA test FMG(WE).</p> <p>d. No leakage/ unusual noise at full load trials:</p> <p>(1) 30% load for ½ hr.</p> <p>(2) 50% load for ½ hr.</p> <p>(3) 75% load for 1 hr.</p> <p>(4) 100% load for 4 hr.</p>
15.	Any other relevant information	d. Satisfactory sea trials

IT SPECIFICATION – TOP OVERHAUL ROUTINES OF SSDG NO 1 – PMSS REHMAT

S No	IT Specifications	
1.	Parent Equipment	Power Generation and Distribution
2.	Sub Equipment	SSDG-1
3.	Assembly Component	All components/ Parts of SSDG
4.	Make	CUMMINS (USA)
5.	Model	6CT 8.3C
6.	Quantity	01 in No
7.	Justification i.e PMS/ Failure/ FWT etc	TOH routine is due at 6000Hrs
8.	Work required/ Defect	Complete TOH to be carried out for safe operation of SSDG
9.	Technical Specification	a. 110KW b. 380VAC 3 phase 50Hz c. 6 cylinders alongwith heat exchanger
10.	Scope of Work	<p>Repair/ maintenance (TOH/ PMS routine) work of SSDG No 1 is required with provisioning of parts/ spares on firm arrangement. Details is appended below:</p> <p>Cylinder spaces: Inspect cylinder space for work/ scratches and decarburize piston crown and cylinder TDC area (Endo scope combustion chamber to be carried out)</p> <p>Cylinder heads: a. Check valve guides and cam/ cam shaft and replace if required. b. Replace valve stem seals. c. Decarburizing and reseating of valve to be carried out and tested for leak after fitting in cylinder heads. d. Inspect/ overhaul cylinder heads and liner and replace cylinder head gaskets alongwith piston rings. e. Repair/ replace water and oil transfer pipes and seals. f. Carry out compression test after completion of TOH.</p> <p>Valve gear: Inspect/ check valve gear (Tappet, rocker arm and adjusting screw for wearing out / replace if unsatisfactory) and tappet clearance to be adjusted as per OEM limits.</p> <p>Connecting rod bearing: a. Inspect/ measure connecting rod and big end bearing and replace for safe operation.</p> <p>Vibration damper: Check condition of damper/ fly wheel and its securing mechanism alongwith seal for safe operation and replace seal if required.</p>

	<p>Governor: Inspection/ clean fuel governor and set to work be carried out for SAT operation.</p> <p>Turbo charger: Remove, disassemble, decarburizing and clean turbo charger. Check components, measure cleanness and renew bearing. Check axial clearness of wheels and also pressure test at 10 bars before fitting on engine (New turbo overhauling kit to be used)</p> <p>Air ducting: Inspect/ clean air intake ducting for SAT operation.</p> <p>Air Inter cooler: Renew, disassemble and clean (chemical cleaning) of air inter cooler for SAT operation and pressure test before installations for leaks and replace seals.</p> <p>Exhaust system: a. Clean exhaust manifold / galleries, pressure test and chemically clean. b. Inspect/ check exhaust piping thoroughly for any exhaust leakages and gaskets to be replaced. c. Lagging/ cladding to be carried out after completion of work.</p> <p>Fuel injection system: a. Check and adjust fuel injection time for proper function. b. Check and overhaul fuel injection pump for commencement of fuel delivery (phasing and calibration to be carried out). c. Pressure test of injectors for good spray pattern, replace injector nozzle. d. Defective injector sleeve to be replaced with new. e. Fuel injection and return lines to be verified for safe operation and replace if required. f. 02 x fuel filters to be replaced.</p> <p>Raw water pump: Repair/ maintenance and disassemble, inspect shaft, impeller, seals and bearing of sea water pump to be carried out.</p> <p>Coolant pump: Disassemble/ inspect of water body for SAT operation. Replace if any parts found unsatisfactory.</p>
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		<p>Coolant cooler (Heat exchanger): a. Repair/ maintenance and disassemble, chemical clean and pressure test for leaks. Replace seals/ gaskets and defective nut/ bolts. b. Replace all zinc anodes.</p> <p>Starter and dynamo: Repair/ maintenance remove, disassemble and overhaul with replacement of defective parts component (Apply marine version varnish/ cloth and paper) Renew contacts point of armature power supply.</p> <p>Engine mounting: Check engine mounts and alignment of engine with alternator. New foundation/ coupling bolts to be used.</p> <p>Monitoring and control: a. Replace defective meter/ gauges of SSDG at local panel. b. Functional test of all safeties alongwith wiring to be carried out for safe operation and replace if required.</p> <p>Lubrication system: a. Replace O seals/ gaskets of oil pipes attached with sump lub oil cooler and filter assembly. b. Fit new lub oil filters prior & after initial running of SSDG (TOH work) c. Coolant is to be added after successful testing of cooling system. d. TOH standard kit is required to be arranged/ provided by the firm and the same will be inspected by the ship's staff in presence of the firm rep. f. OEM certified spares/ parts of TOH routines to be ensured. g. Instrument colour coding paint of mechanical system to be carried out. h. Provide complete list of replaced/ repaired items. Replaced items to be handed over to SS for survey. j. All spares, tools, special equipment / tools, accessories etc for repair and cleaning work are to be arranged by the contractor. k. Any damage / defect / wear tear occur during the course of removal and installation of SSDG is the responsibility of the concerned firm</p>
11.	Eligibility Criteria	a. The firm must visit onboard and carry out diagnosis/ inspections to establish the extent of required work. b. Firms not undertaking the visit onboard ship to see extent of work will not technically qualify. c. The firm must have sufficient experience of same kind of work onboard corvette.

		d. Successful HATs and SATs at 1500 RPM and maximum load e. NTN/ GST registered.
12.	EDC	30 Working days
13.	Warranty	01 year after completion of successful full load trials
14.	Acceptance criteria	a. SATs at full load for 04 hours i.e (1) 30% load for ½ hrs (2) 50% load for ½ hrs (3) 75% load for 1 hrs (4) 100% load for 4 hrs b. Acceptance by SS
15.	Any other relevant information	Load van to be arranged by the firm for full load trials.

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.
- c. **BID SECURITY:** All registered firms are exempted from provision of bid security upto Rs.500,000/- and unregistered firms have to provide bid security equals to 02% for bids amounting upto Rs.500,000/- in the shape of Pay Order in favor of "IT Sale Account DG PMSA". Furthermore, firms are required to deposit bid security not exceeding 05% of the bid price for bid value amounting more than Rs.500,000/-. Moreover, following guidelines will be followed:
 - i. 2% from registered firms.
 - ii. 5% from un-registered firms.
- d. Total price of the items quoted against the tender is to be clearly mentioned. It should also contains a **pay order 2% or 5% in the shape of pay order of the offered value** as earnest money. Cross cheque or cash is not acceptable in this case. The offer received without earnest money will be rejected.
- e. **SPECIAL INSTRUCTIONS:** Tender documents and its conditions may please be read point to point and understood properly before quoting. All tender conditions should be responded properly. In case of any deviation due to non-acceptance of tender conditions, the same should be highlighted alongwith changed offer / conditions. Tender may however be liable to be rejected.

PREPARATION OF QUOTATION

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

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

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

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

Without this format quotation will not be accepted.

3. DATE AND TIME FOR RECEIPT OF TENDER:

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

4. TENDER OPENING:

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

5. VALIDITY OFFER:

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

6. QUOTING OF RATES:

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

S No	Description	Qty	U/Price	GST/SST/Taxes	Total Price
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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. RETURN OF EARNEST MONEY:

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

9. TENDER FEE:

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

10. 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.

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 quotes where applicable:

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

13. SECURITY DEPOSIT / BANK GUARANTEE:

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

14. CURRENT BANK STATEMENT:

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

15. 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 IT or made subject to confirmation late.