

SEPARATE QUOTATIONS REQUIRED FOR ATTACHED 14 x IT SPECIFICATIONS

IT NO : IT/98/01/2023-24

**IT SPECIFICATIONS FOR SERVICING/ CLEANING OF MAIN ENGINE NO 1 & 2 PLATE CORE
HEAT EXCHANGERS – PMSS DASHT**

S No	Description	
1.	Parent Equipment	Marine Light Water Chiller
2.	Sub Equipment	Core Plate Heat Exchanger
3.	Assembly Component	Heat Exchanger
4.	Model	16V4000M73L
5.	Make	MTU Germany
6.	Qty	02
7.	Justification	High lube oil alarm
8.	Work Required	Servicing and Cleaning
9.	Technical Specifications	As per OEM manual
10.	Scope of Work	<ul style="list-style-type: none">a. Isolation of engine coolant circuit/ accumulation of engine coolant in safe storage and addition of coolant to both engines if neededb. Dismantling of all accessories required for cleaning of heat exchangersc. Servicing/ cleaning of plate core heat exchangers by removal of debrisd. Replacement of all gaskets with new gaskets and cleaning of 02 x 80 number platese. Pressure test of heat exchangers after installation of seal at 150% of operating pressure i.e 1.05 bar/ 15 psif. Re-assembling of all accessories removed prior start of workg. Conduct of Harbour and Sea trials at maximum 2050 Engine RPMs
11.	Eligibilities	<ul style="list-style-type: none">a. Must have relevant experienceb. Only OEM recommended spares must be usedc. 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
12.	EDC	07 Days
13.	Warranty	02 x Years
14.	Acceptance Criteria	<ul style="list-style-type: none">a. Pressure test of heat exchangers after installation of seal at 150% of operating pressure i.e. 1.05 bar/ 15 psib. Satisfactory operation of Main Engine no 1 & 2 followed by full power trials.
15.	Any other Info	visit site for understanding exact nature of work/ coordinate MEO/ SS

IT SPECIFICATION OF SRE SYSTEM - PMSS REHMAT

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

IT SPECIFICATIONS FOR REPAIR/ MAINTENANCE OF 3.5KVA SOLAR SYSTEM – PMSA BASE
KETI BANDAR

1.	Ship's Name	PMSA Base Keti Bandar			
2.	Parent Equipment	3.5 KVA Solar System			
3.	Sub Equipment	3.5 KVA Solar System			
4.	Assembly Component	Accessories/ cabling (details mentioned below S.No 11)			
5.	Make	N/A			
6.	Model	N/A			
7.	Quantity	As mentioned below (S.No 11)			
8.	Justification i.e PMS/ Failure/ FWT etc	Performance of 3.5 KVA Solar System degraded due FWT caused by harsh marine environment i.e salt, humidity and strong winds etc.			
9.	Work Required/ Defect	Repair/ maintenance and replacement (if necessary) of various accessories/ cabling of 3.5KVA Solar System installed at Keti bandar is required to restore optimum performance.			
10.	Detail Scope of Work	Repair/ maintenance and replacement (if necessary) of various accessories/ cabling of 3.5KVA Solar System installed at Keti bandar is required to restore optimum performance.			
11.	Technical Spec	S No	Item/ Equipment	Technical Specs	Qty
		a.	INVERTER		01
		(1)	Make/ OEM	Scarlett Axpe	-
		(2)	Capacity	6000 W	-
		(3)	Color	White & Black	-
		(4)	Power Factor	1.0	-
		b.	SOLAR PLATES		18
		(1)	Make/ OEM	Trina Solar	-
		(2)	Maximum Power	335 W	-
		(3)	Maximum Power Voltage	37.6 Volt	-
		(4)	Maximum Power Current	8.91 A	-
		(5)	Open Circuit Voltage	46.0 Volt	-
		c.	BATTRIES		04
		(1)	Lead Acid Battery	AGS 12 Volt 220 AH	-
		d.	DC Cables		
		(1)	Wire	90 Meters	-
e.	DISTRIBUTION BOX		01		
(1)	Breakers	15-40 KVA	03		
12.	Eligibilities	Any well reputed local firm having expertise for repair/ maintenance of solar systems			
13.	EDC	20 days			
14.	Warranty	01 x year after signing of completion certificate.			
15.	Acceptance Criteria	a. Inspection of all replaced accessories/ cabling by end user. b. Successful trials by end user after installation upto specified time duration (as per system capability).			
16.	Any other relevant information	Nil			

IT SPECIFICATION FOR OVERHAULING OF FIRE MAIN PUMP – PMSS BASOL

S No.	Description	
1.	Parent Equipment	Fire main system
2.	Sub Equipment	Fire main pump
3.	Assembly component	Fire main pump
4.	Make	Jiangsu Zhenhua Pump Industry Co. Ltd
5.	Model	CLH80-65-5.5(Z)
6.	Qty	01
7.	Justification	Low discharge pressure.
8.	Work required/ Defect	Replacement of degraded parts.
9.	Detailed scope of Work	a. Replacement of degraded impeller with new impeller. b. Replacement of old mechanical seal with high quality mechanical seal. c. Replacement of degraded seal rings with copper/ phosphorus bronze material seal rings. e. Replacement of degraded pump shaft with Stainless Steel (316L) material pump shaft.(if required) f. Precise alignment of pump with motor. g. Corroded/ damaged bolts and nuts to be replaced with new Stainless steel (316L) bolts and nuts.
10.	Technical Specs (if any)	As per OEM Manual/ Specs.
11.	Eligibilities	Reputable local contractor having working experience of repair/ overhauling of sea water pumps onboard 6HT MPVs.
12.	EDC	15 days
13.	Warranty	1 year warranty for satisfactory operation of pump without following defects: a. Seawater leakage from pump, mechanical seal and discharge valve. b. Increased vibration/ noise/ hard to rotate. c. Decreased discharge pressure.
14.	Acceptance Criteria	a. Satisfactory discharge pressure of 0.6 MPa. b. Satisfactory and smooth operation without high vibration and noise c. Satisfactory operation without sea water leakage.
15.	Any other Information	Dismantling/ assembling/ installation and in way removal work is responsibility of contractor.

IT NO : IT/98/05/2023-24

IT SPECIFICATIONS - REPAIR OF MARINE PACKAGE A/C SEAWATER PUMP

1.	Parent Equipment	Package Air Conditioner	
2.	Sub Equipment	Seawater Pump	
3.	Assembly Component	Mechanical seal, Impeller, shaft bearing and pump body	
4.	Make	Taizhou Hujiang Special Equipment Co. Ltd	
5.	Model	ZH-CLH50-32-4.5(Z)A	
6.	Quantity	01	
7.	Justification i.e PMS/ Failure/ FWT etc	FWT	
8.	Work Required/ Defect	Complete Overhauling	
9.	Detailed scope of work	Installation of new mechanical seal, impeller, pump body & bearings.	
10.	Technical specs	Impeller	Material : Carbon steel Dia : 0.4 inch Width : 0.4 inch
		Bearing	Inner dia : 1.75 inch Outer dia : 2.25 inch
		Pump Body	Material Bronze Dimensions As per sample
		Mechanical Seal	As per sample
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 repair/ maintenance of pumps.	
12.	EDC/ EDD	15 Days after award of contract	
13.	Warranty	1 Year	
14.	Acceptance Criteria	Item will be accepted after onboard inspection and satisfactory trials at discharge pressure of 0.6 MPA for 24 hours.	
15.	Any Other Relevant Information	Visit onboard ship (0321-3000503)	

IT NO : IT/98/06/2023-24

TECHNICAL SPECIFICATION – MATTRESS FOAM SAILORS BUNK

PMSS BARKAT

1.	Items	FIRE RETARDANT SPRING MATTRESS	
2.	Parent Equipment	Mattress for Bed	
3.	Class	Household Furnishing	
4.	Brand	Master Molty Foam	
5.	Make / Country	Pakistan	
6.	Items part	ASTM D 6413	
7.	Item Description	Fire Retardant Spring Mattress	
8.	Quantity	25 in No.	
9.	Technical Specs (If any)	Size	72 x 30 Inches
		Thickness	6 inches:
10.	Eligibilities	Registered Contractor	
11.	EDD	Within 30 days after award LPO	
12.	Warranty	05 Years	
13.	Acceptance Criteria (if any)	Provision of Fire Retardant Spring Mattress as per IT specification	
14.	Any other relevant information	i.. Accept by Ship Staff ii. Mattresses are provide with Cover.	

IT NO : IT/98/07/2023-24

IT SPECIFICATION FOR PURCHASE OF THURAYA SETS

FOR CDR EASTERN WING PMSA

S No	DESCRIPTION	SPECIFICATIONS
a.	System/ Item	THURAYA Set XT LITE
b.	Model/Origin	THURAYA set XT LITE
c.	Quantity	02
d.	Scope of Work	Provision of 02 x THURAYA set XT LITE for Cdr Eastern Wing PMSA
e.	EDD	10 days
f.	Emergency Services	24 Hours
g.	Warranty/ validity	Company warranty (01 Year)
h.	Acceptance	<ul style="list-style-type: none">• Items(THURAYA Sets XT LITE) will be accepted after scrutiny by HQ PMSA team.• Conduct of successful trials onboard activation.
i.	Any Other relevant information	In case of any query please contact 021-48508942 (0345-8101004)

IT NO : IT/98/08/2023-24

IT SPECIFICATION FOR PROCUREMENT OF LIFE BUOY MARKER BATTERIES - PMSS RAFAQAT

S NO	IT SPECIFICATIONS	
1.	System	Life Saving Equipment
2.	Sub System	Life Buoy Marker Batteries
3.	Description	Life Buoy Marker
4.	Brand	Duracell (PC 915 6V)
5.	Out put Voltage	06 Volt (Alkaline Battery)
6.	Quantity	04
7.	Eligibility	The firm should be NTN/GST registered
8.	EDD	07 Days
9.	Warranty	03 Years
10.	Acceptance Criteria	Accepted by Ship Staff

**IT SPECIFICATION OF PROCUREMENT OF NEW LEAD ACID BATTERY 12V 200AH
OF PMSS SABQAT**

1.	Parent Equipment	Propulsion system and power generation system
2.	Sub Equipment	Lead Acid Batteries
3.	Assembly Component	Lead Acid Batteries
4.	Make	AGS or equivalent Lead Acid Batteries
5.	Model	AGS or equivalent Lead Acid Batteries 12 V 200 AH
6.	Qty	08 IN NO
7.	Justification i.e PMS/ Failure/FWT etc	Declared BER and required new Lead Acid Batteries
8.	Work Required/Defect	Required new Lead Acid Batteries 12 V 200 AH
9.	Detailed scope of work	<ol style="list-style-type: none">i. Procurement/ purchase of new Lead Acid Batteries 12 V 200 AH.ii. Required initial charge of batteries along with documents/ certificates.iii. All material, spares, tools, special equipment/ tools, accessories etc required for said work are to be arranged by the contractor/ supplier.iv. Any damage occurs during the course of removal and installation work will be done onboard ship by firm without any liability/responsibility on part of the ship/PMSA.v. Requirement of external services, if any will be responsibility of the firm without any liability on the part of ship.vi. Repair defective items are same hand over to SS
10.	Technical Spaces	AGS or equivalent lead acid batteries 12 V 200 AH
11.	Eligibility Criteria	<ol style="list-style-type: none">i. The firm should visit onboard and carry out inspection to establish the extent of required work.ii. The firm should have experience of the same kind of work.iii. The firm should be NTN/GST registered.
12.	EDD	15 days
13.	Warranty	01 year
14.	Acceptance Criteria	<ol style="list-style-type: none">i. OEM certified materialii. Leakage free.iii. Satisfactory running trials onboard ship carried out.
15.	Any other relevant information	Nil

**IT SPECIFICATIONS – PROCUREMENT OF SHELL SPIRAX S2 D2 ATF OIL–
PMSS NAZIM/ FRBs**

S No	Ship's Name	FRBs								
1.	Parent Equipment	OBM Engine								
2.	Sub Equipment	OBMs								
3.	Assembly Component	300, 90 HP								
4.	Make	Suzuki, Yamaha, Japan								
5.	Model	DF 300AP, DF 90								
6.	Quantity	50 ltrs								
7.	Justification i.e PMS/ Failure/ FWT etc	Critical requirement of ATF oil for PMS routines of OBM.								
8.	Work Required/ Defect	Procurement of ATF oil for OBM.								
9.	Detail Scope of Work	Procurement of ATF oil for OBM.								
10.	Technical Spec	<table border="1"><thead><tr><th>S#</th><th>Part number</th><th>NSN</th><th>Description</th></tr></thead><tbody><tr><td>a.</td><td>Shell Spirax S2 ATF D2 (9150-17-107-6129)</td><td>9150705052100</td><td>GL 5 GEAR OIL</td></tr></tbody></table>	S#	Part number	NSN	Description	a.	Shell Spirax S2 ATF D2 (9150-17-107-6129)	9150705052100	GL 5 GEAR OIL
S#	Part number	NSN	Description							
a.	Shell Spirax S2 ATF D2 (9150-17-107-6129)	9150705052100	GL 5 GEAR OIL							
11.	Eligibilities	Any well-known national/ international firm having good experience for procurement of OBM engines and associated auxiliaries/ parts.								
12.	EDC	15 days								
13.	Warranty	One year after installation onboard.								
14.	Acceptance Criteria	Inspection by end user for international standard company.								
15.	Any other relevant information	Nil								

IT SPEC FOR CHEMICAL CLEANING AND PRESSURE TESTING OF OIL COOLERS AND HEAT EXCHANGERS OF MAIN ENGINES -PMSS BARKAT

1.	Ship's Name	PMSS BARKAT				
2.	Parent Equipment/ System	Main Propulsion				
3.	Sub Equipment/ system	Sea Water cooling System				
4.	Assembly/Equipment	04 x G/Box Oil coolers, 03 x Inter coolers and 03 x Heat Exchangers				
5.	Make	MTU				
6.	Model	16V396 TB-93				
7.	Qty	10				
8.	Justification	Cooling and pressure testing of coolers and heat exchangers is required to increase performance/ efficiency and prevent engine from overheating, damage and failure.				
9.	Work Required	Chemical cleaning and pressure testing of oil coolers, inter coolers and heat exchangers of main engines				
10.	Detailed Scope of Works	<p><u>Heat exchanges and intercoolers.</u></p> <p>a. Remove heat exchangers and inter coolers of ASME, APME and FSME.</p> <p>b. Clean (chemical) and pressure test the heat exchangers and inter coolers. Clean the sight glass.</p> <p>c. Repair the leak tube, if required.</p> <p>d. Clean sealing surface of all heat exchangers and intercoolers</p> <p>e. Install the heat exchangers and inter coolers.</p> <p>f. Check 02 x cooling water temperature sensors (03 x engines) for correct operation. Repair/ replace if required.</p> <p><u>G/Box Oil cooler</u></p> <p>g. Remove gear box oil coolers of ASME, APME, FPME and FSME.</p> <p>h. Clean (chemical) and pressure test the oil coolers.</p> <p>j. Clean sealing surface of oil coolers.</p> <p>k. Install the oil coolers.</p> <p>l. New gasket, nuts and bolts (Stainless steel) to be used for installation.</p> <p>m. Any bolt broken in the body is to be removed.</p> <p>n. The firm will be arranged all spares, tools, accessories etc required for said job.</p> <p>p. The firm will be responsible for any damage, defect and wear tear occur during the removal and installation.</p> <p>q. The firm will be responsible for requirement of external services and removal of all associated accessories.</p> <p>r. The firm will be responsible for removal, repair and installation work as per standard SOPs/ OEM Manual.</p>				
11.	Technical Specs	<table border="0"> <tr> <td><u>Heat Exchanger</u> Flat tube core type cooler Test pressure 7.5 bar</td> <td><u>Inter Cooler</u> Ribbed Tube system Test Pressure water side 8.5 bar Test Pressure Air side 0.5 bar</td> </tr> <tr> <td colspan="2"><u>G/Box Oil Cooler</u> Plate type core Test Pressure oil side 15 bar</td> </tr> </table>	<u>Heat Exchanger</u> Flat tube core type cooler Test pressure 7.5 bar	<u>Inter Cooler</u> Ribbed Tube system Test Pressure water side 8.5 bar Test Pressure Air side 0.5 bar	<u>G/Box Oil Cooler</u> Plate type core Test Pressure oil side 15 bar	
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<u>G/Box Oil Cooler</u> Plate type core Test Pressure oil side 15 bar						
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 experience of same kind of work.</p> <p>c. The firm should be NTN /GST registered</p>				
13.	EDC	07x working days after issuance of work order				
14.	Warranty	01 Year				
15.	Acceptance criteria	<p>a. Satisfactory work done by the firm as per IT Specs.</p> <p>b. Engine coolant temperature should be below 82 C° at 1400 ERPMs.</p> <p>c. G/Box oil temperature should be below 60 C° at 1400 ERPMs.</p> <p>d. No oil/ water leakage from heat exchanger, intercooler and G/Box oil cooler.</p>				
16.	Any other Information	-				

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

S No	Description																																							
1.	Parent Equipment	Messes, Cabins and ASP																																						
2.	Sub Equipment	Exhaust and Ventilation																																						
3.	Assembly Equipment	Trunking and Fans																																						
4.	Make	China																																						
5.	Model	Chinese/ Locally Manufactured Marine Version																																						
6.	Justification	Deteriorated/ degraded (ageing factor) trunking																																						
7.	Work required	Fabrication and replacement of trunking and fans																																						
8.	Technical Specs	<p>Fabrication of ventilation ducts (aluminum material) with following dimensions:</p> <table border="1"> <thead> <tr> <th>Compartment</th> <th>Width x Height (Inches)</th> <th>Length (Feet)</th> <th>Duct Fan</th> </tr> </thead> <tbody> <tr> <td>CO's Cabin</td> <td>6 x 9</td> <td>16</td> <td>01</td> </tr> <tr> <td>J/R Mess 2 (Ops)</td> <td>8 x 6</td> <td>10</td> <td>01</td> </tr> <tr> <td>J/R Mess 3 (WE)</td> <td>8 x 6</td> <td>08</td> <td>01</td> </tr> <tr> <td>Wardroom</td> <td>6 x 8</td> <td>26</td> <td>01</td> </tr> <tr> <td>Galley</td> <td>8 x 6</td> <td>10</td> <td>02</td> </tr> </tbody> </table> <p align="center">06x 7</p> <p>Installation of ^{06x 7} Ventilation Fans with following technical specifications are required:</p> <table border="1"> <thead> <tr> <th>Description</th> <th>Technical Specifications</th> </tr> </thead> <tbody> <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> </tbody> </table>	Compartment	Width x Height (Inches)	Length (Feet)	Duct Fan	CO's Cabin	6 x 9	16	01	J/R Mess 2 (Ops)	8 x 6	10	01	J/R Mess 3 (WE)	8 x 6	08	01	Wardroom	6 x 8	26	01	Galley	8 x 6	10	02	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
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9.	Scope of work	<p>a. Removal of deteriorated ducts and fans</p> <p>b. Fabrication of new ducts by the firm with Aluminum grade material</p> <p>c. Installation of new locally manufactured marine version ventilation fans in ducts</p> <p>d. Pressure test of ducts be undertaken for leakages and new ducts to be installed with new gaskets on every joint</p> <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>
10.	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>
11.	EDC	01 x Week
12.	Warranty	02 x Years
13.	Acceptance Criteria	Satisfactory fabrication, installation and operation of exhaust and ventilation fans without any leakage from the ventilation ducts
14.	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/98/13/2023-24

IT SPECS FOR PROCUREMENT OF FRESH WATER SERVICE PUMP -PMSS BARKAT

1.	Ship's Name	PMSS BARKAT
2.	Parent Equipment/ System	Fresh Water System
3.	Sub Equipment/ system	Fresh Water Pumps
4.	Assembly/Equipment	Fresh Water Pump No.1 a/w Motor
5.	Make	China
6.	Model/ Type	15CWX-2
7.	Qty	01
8.	Justification	Fresh Water Pump declared BER and has been surveyed.
9.	Work Required	Procurement of fresh water pump a/w motor as per IT Specs
10.	Detailed Scope of Works	<p>a. Procurement and installation of Fresh water pump as per Technical Specs.</p> <p>b. Adjustment of Pressure Cut In/Out (1.5-3.5 bar).</p> <p>b. The firm will be arranged all spares, tools, accessories etc required for installation of pump.</p> <p>c. The firm will be responsible for any damage, defect and wear tear occur during installation.</p> <p>d. New gasket/ seals will be fitted.</p> <p>e. The firm will be responsible for requirement of external services and removal of all associated accessories.</p> <p>f. The firm will be responsible for installation work as per standard SOPs/ OEM Manual.</p>
11.	Technical Specs	<p>Type: 15CWX-2</p> <p>Capacity: 3m³/h</p> <p>Total head: 40m H₂O</p> <p>Speed: 2900 RPMs</p> <p>Motor power: 2.2 KW, 2.9hp, 5.5 Amp</p>
12.	Eligibilities	<p>a. The firm must visit onboard to check the scope of work for installation of pump.</p> <p>b. The Firm must have experience of same kind of work.</p> <p>c. The firm should be NTN /GST registered</p>
13.	EDC	10 x working days after issuance of work order
14.	Warranty	01 Year
15.	Acceptance criteria	<p>a. Satisfactory work done by the firm as per IT Specs.</p> <p>b. No fresh water leakage during running.</p> <p>c. No abnormal noise during running.</p> <p>d. Cut in/out as per specified limit</p>
16.	Any other Information	-

IT SPECIFICATIONS FOR DEFECT RECTIFICATION OF COMPRESSOR UNIT NO 1 & 5
PMSS KOLACHI

S.No	Description				
1.	Parent Equipment	Chilled Water Plant			
2.	Sub Equipment	Compressor Unit			
3.	Assembly Equipment	a. Compressor b. Double tube condenser c. Expansion valve			
4.	Make	Jiangsu Josun Air Conditioner Co.			
5.	Model	JTLS-230(VI)			
6.	Required Quantity	S.No	Part Number/Model	Description	Quantity
a.		06.01.081/	ZB114KQE-TFD	Hermetically sealed Compressor	02
b.		11.01.35.GZ	15210-01-004/ ZS-50.5kW	Double tube heat exchanger	02
c.		03.06.01.108/	TER14SC	Expansion valve	02
7.	Justification	Replacement of above mentioned items is required for Chilled Water Plant			
8.	Detailed scope of work	1. Replacement of following parts: a. Compressor b. Double tube condenser c. Expansion valve 2. Gas leak detection and vacuum test of defective system followed by successful trials			
9.	Technical specifications	As per OEM specifications/ Manual			
10.	Eligibility Criteria	Reputable local/ international contractor having working experience with PMSA			
11.	EDD/ EDC	15 Days after award of contract			
12.	Warranty	OEM specified.			
13.	Acceptance Criteria (if any)	a. OEM Certified item b. Technical specifications should be mentioned c. Upon scrutiny of items and provided documents along with production certificate by OEM			
14.	Any other relevant information	Contact MEO (0336-2490044)			

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 contain 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 @ 13%:

<u>S.NO</u>	<u>Description</u>	<u>Unit Price</u>	<u>Qty</u>	<u>Total</u>	<u>GST @ 18% or SST @ 13%.</u>	<u>T/Price</u>

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

S.NO	Description	Unit Price	Qty	Total	T/Price

Without this format quotation will not be accepted.

3. DATE AND TIME FOR RECEIPT OF TENDER:

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

4. TENDER OPENING:

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

5. 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:

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

9. TENDER FEE:

Each technical offer must be accompanied with 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:

- 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 i.a.w technically acceptable 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. Details of taxes are as under:
 - (i). **SST 13%:** SST @ 13% will be implemented on Repair/ Maintenance/ Overhauling and Fabrication cases.
 - (ii). **GST 18%:** GST @ 18% will be implemented on Procurement and supplies.
- 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.