IT NO: IT/36/01/2024-25

IT SPECIFICATION FOR CONDUCT OF 7500 HOURS (TOH) ROUTINE OF 02 X MTU MAIN ENGINES NO 1 AND NO 2 - PMSS DASHT.

S No	Description								
1.	Parent Equipment	Ship's Propulsion Plant							
2.	Sub-equipment	Main Diesel Engines MTU							
3.	Assembly equipment	02x Main Engines MTU 16V 4000 M73L							
4.	Make	MTU 16V4000M73L 5. Model 16V4000M73L							
6.	Quantity	Germany Justification 7500HOURS PMS							
. 0.	Guaritity	ROUTINE (TOH)							
		PMS No 3-1118-0001 & 2							
		MOP No 028 Up to 05 9							
9.	Detailed scope of	the day and coord							
3 .	work	operating parameters. Then drain coolant							
	WOIK	Check buffer clearance of resilient mounts and check proper seating of							
		Check buffer clearance of resilient mounts and check proper seating of securing screws.							
	:	m. I will a select steen and preserve test appler inappet it for							
		leaks							
1		The second secon							
		d. Clean air ducting, air intake and exhaust galley clean intercooler and inspect for leakage							
		e Clean engine oil cooler, pressure test and inspect it for leaks							
		f. Clean engine gear box oil cooler, pressure test and inspect it for leaks							
		g. Overhaul engine coolant pumps, Raw water pump, bilge pump and							
1		Turbo charger							
İ		h. Replace Injectors with new injectors.							
		i. Inspect cylinder chambers using endoscope.							
II.		j. Inspect/servicing rocker arms, Valve Bridge for wear and valve							
		adjustment.							
		k. Check operation of diverter valve							
		Fit new seals/sealing materials for all disassembled components							
i	1	m. Visually inspects piston crowns and wears pattern on cylinder liner							
		running surfaces overhaul cylinder heads.							
		n. Replace engine oil, cyclone-type filter element, air filter element.							
		centrifugal, oil filter, fuel pre filter, duplex filter and candles filter							
		o. Check/Repair Engine wiring							
	1	b. Limit switch for start interlock.							
	•	Checking plug connections engine control unit ECU 7.							
		r Engine monitoring unit emu 8 - plug connections check.							
1.	:	s Inspection of lop and connectors and interface module plug connections							
		Check all sensors, safeties, Fit new high-pressure fuel sensor check							
		engine coolant thermostat and fit new thermostat actuator							
		u. Overhaul air starter.							
		v. Inspection of engine mounting and carry out vibration analyzing							
		w. Firm is responsible for All parts and in way accessories removal, Re-							
		installation shifting and safety of men and material during work							
İ		x. Providing of all new spare parts, oil and coolant. (OEM specified only)							
		are responsibility of the firm							
ļ		y. Only OEM recommended spares/ components are to be used by the							
		firm.							
		z. Any growth work during conduct of routines will be soul responsibility of							
		the contractor.							
8.	Work required/	Conduct 7500 hours (TOH) PMS Routine of 02 x Main Engines MTU.							
1	Defect	· · ·							
10.	Technical specs	As per OEM Manual/ Specs							
11.	Eligibility criteria	Reputable local contractor (OEM certified only) with valid certification from							
		MTU.							
12.	FDC	, 15 days							
13.	Warranty	01 year (After Satisfactory report of VA, HATs and SATs).							
13.		7 - 7 - 7 - 7 - 7 - 7 - 7 - 7 - 7 - 7 -							
									
14	Acceptance criteria	nce criteria a. Conducting of complete PMS 7500 hours Routine.							
		b. Satisfactory report VA, HATs & SATs.							
		c. Firm will be onboard during HATs and SATs.							
		d. Complete report of lama profile.							
15.	Any other information								
IJ,	Any other information	Coordinate with Ship staff.							

IT NO : IT/36/02/2024-25 PMSS HINGOL

10 IT SPECITICATION FOR PHURCHASE OF OPEN CIRCUIT DIVING SET WITH COMPLETE ACCESSORIES (NSN 0434-72-000-0001) The diving equipment to be utilized for safe conduct of Diving ops requirements Parent Equipment A robust diving set with proven performance providing the diver with the confidence required to accomplish any diving 2 Sub Equipment operation. The equipment reliable and easy to operate/ maintain. 3 Assembly 02 x Diving Cylinder 9-11 Ltrs, Aluminum Alloy. 01 x Bouncy Compensator with HP Connector Hose. Component 01 x Diving Regulators 2 Stages Octopus Type With Depth Pressure & Compass Gauges Console. 01 x Regulator to cylinder Attachment Valves (Twin-J Valve) with Reserve. 01 x Regulator to cylinder Attachment Valves (Single-J Valve) with Reserve. e. f. 01 x Diver harness configurable for single or double cylinder operation. 01 x 3mm wet suit hood and boots. g. h. 01 x 5mm diver boots. 01 x Diver face mask. j. k. 01 x Diving fins. Complete documentation to include part catalogue operation and maintenance manuals along with software. Draeger Safety AG & Co. Germany/ Aqua-Lung France or Equivalent 4 Make 5 Qty 04 In Sets Procurement of open circuit diving set with complete accessories/ Technical details/ Literature/Brocher. Detailed scope 6 of work A twin compressed air cylinder (02 x 10 Ltrs) with connectors and emergency air supply bailout bottle (with BC) 7 Technical Spec Any Local/ International registered firm with good reputation. 8 Eligibility Having capability w.r.t experience/ expertise etc for said work Criteria b

Genuine OEM Certified Brand New Stores will only be acceptable.

Inspection by end/ Specialist user and after successful trials.

EDC

Warranty

Criteria

Acceptance

10

11

Not Known

02 Years

a.

IT NO: IT/36/03/2024-25

IT SPECIFICATION - RESTORATION REPLACEMENT OF CONTROL AND MONITORING
SYSTEM OF 04 X MAIN ENGINES - PMSS REHMAT

SNo		IT Specification
		·
1	Parent Equipment	Main Engine MTU 16 V 396 TB 93
2	Sub_Equipment	CONTROL AND MONITORING SYSTEM
3	Assembly Component	Throttle control, Semi control and Monitoring panel
4.	Make	MTU Germany
3 4 5 6	Mod <u>el</u>	
6.	Quantity	04 in No in MCR & 04 in No at Bridge (each)
7.	Justification i.e PMS/	Control and Monitoring system observed malfunctioning
	Failure/ FWT etc	during operation due F.W.T/ old vintage
8	Work required/ Defect	Throttle, semi control and monitoring system are to be
		restored/ upgrade for satisfactory operation of min engines
9	Technical Specification	a. 04 X Throttle control lever at MCR
-	,	·
		in the second se
t		d. 04 X Semi control panel at Bridge
		e. 04 X Monitoring panel at MCR
		f 04 X Monitoring panel at Bindge
		g. Calibration/ synchronization of throttle, semi control
		and monitoring system with engine RPM
 10.		Following work is required to be undertaken for the
	Scope of work	restoration/ replacement of control and monitoring system
		 a. Restoration/ replacement of monitoring and
		control system in MCR & Bridge
		 b. Wiring to be checked and replaced as marine;
		version.
		 c Lugs and breakers are to be replaced.
		d. ECM/ RCM to be restored/ replaced.
		e. 08 x RPM meter to be calibrated with control
		and monitoring system.
		f. Alt sensors and switches of main engine are to
		be synchronized with control module.
		g. Engine starting/ stopping_engage/ disengage or clutch_emergency shut down and safeties indication to
		be made available in MCR and Bridge.
		n. All control TBs (Terminal poxes) are to be
		replaced.
		All branded spares (marine version) are to be
	Y	used having Part Ne/ NSN No with complete technical
		specifications for further availability of spares.
		k. Part Catalogue and Technical Manual of
		equipment be provided.
		I Beep/ tone sound including warning and
		shutdown alarm/ buzzer are to be made available
		i m Firm must provide testing/ safety and calibration
		certificate for all panels an supply distribution boxes.
	·	The state of the s
		n. All spares, tool, special equipment/ tools.
r		accessories etc required for said restoration/
		replacement are to be arranged by firm.
	1 1	
		p. Provision of buzzer/ indication of control at
		MCR/ Bridge.
1		q. Any damage/ defect/ wear tear occur during the
1		course of removal, repair and installation of system/
	•	equipment will be repaired/ met by firm.
		,
11.	Eligibility Criteria	a. The firm must visit onboard and carry cut diagnosis/
	Englosity Officeria	inspections to establish the extent of required work.
		b. Firms not undertaking the visit onboardship to see
		extent of work will not technically qualify.
		c. The firm must have sufficient experience of same kind
		of work and experience of control/ monitoring system of MTU.
12.	EDC	30 x Working Days after issuance of work/ confirmation order
13.	Warranty	02 Years for service and 01 year of parts after completion of
	- rai any	work and successful trials
14.	Acceptance criteria	a. 04 X Throttle control lever at MCR
1-1.	, tosopianos ontena	i b. 04 X Semi control panel at MCR
		c. 04 X Throttle control lever at Bridge
		d. 04 X Semi control panel at Bridge
		e. 04 X Monitoring panel at MCR
		f. 04 X Monitoring panel at Bridge
		g Calibration/ synchronization of throttle, sem. control
		and monitoring system with engine RPM
		h. Satisfactory operation of equipment
45	A	j. Acceptance by SS
15	Any other relevant	
	information	· · · · · · · · · · · · · · · · · · ·

IT NO : IT/36/04/2024-25 PMSS KASHMIR

IT SPECIFICATION: DEFECT RECTIFICATION OF OIL MIST DETECTION SYSTEM OF FWD MAIN ENGINE

		- THE MINITER CHIEF					
1.	System	Main Engine					
2.	Sub system	Oil Mist Detection System					
3.	Assembly	Mist Detector and Male/ Female Plug					
4.	Make	HEINZMANN					
5.	Model	TRITON - I					
6.	Quantity	01 (Engine)					
7.	Justification i.e PMS/ Failure/ FWT	FWT					
8. — —	Work Required/ Defect	Defect rectification of malfunctioning of Fwd Main Engine Oil Mist Detection system					
9.	Detailed scope of work	 a. Dismantling of detectors and control board b. Dismantling adopters/ plug connectors (male/female) c. Identification of defective components d. Repair & replacement (defective items only) of OMD sensor and male/female connectors e. Recalibration/ installation of software in Control panel for satisfactory operation of the oil mist detection system f. Installation of detector and control board g. Complete work to be done while keeping Engine in operational state 					
	Technical Specs	As per relevant TPI					
	EDC	60 Days					
	Warranty	02 Years					
13.	Eligibilities	a. Have experience to work onboard ships (preferably PMSA ships) b. Company must be certified with HQ PMSA c. Company must be Income and Sales tax registered					
14. 	Acceptance Criteria	a. Successful HATs and SATs on Fwd main engine. b. Satisfactory trials/ operation of Fwd main engine upto 1000 RPM with normal parameters for various durations during prolonged sea operations. c. Ship staff satisfaction on operation of oil mist detection system. d. Firm must provide following documents: 1). Certificate of Conformity by OEM (CoC). 2). Bills of Landing from abroad (if applicable).					
15.	Any other releva	ant Contact Ship Staff (Cell 0321-3000503)					

IT NO : IT/36/05/2024-25 EASTERN WING

IT SPECIFICATIONS - REPAIR/ REPLACEMENT OF ACCESSORIES/ SPARES FOR CATERPILLAR C-9 MAIN ENGINES INSTALLED ONBAORD FRB-151

1.	Ship's Name	FRB-151						
2.	Parent Equipment	Caterpillar C-9 Main Engines (S No Stbd X9Y00358 & Port X9Y00351)						
3.	Sub Equipment	Intake/ exhaust and cooling system						
4.	Assembly Component	As mentioned below (S No 11)						
5.	Make	Caterpillar, USA						
6.	Model	C-9, US	SA .					
7.	Quantity	As men	tioned below	(S No 11)				
8.	Justification i.e PMS/ Failure/ FWT etc	FWT	Performance of installed C-9 main engines degraded due old vintage/ FWT of associated accessories/ spares. Repair/ replacement considered essential for optimum performance of main engines.					
9.	Work Required/ Defect .	Repair/	Repair/ replacement of accessories/ spares for C-9 main engines as per attach list					
10.	Detail Scope of Work	Repair/ replacement of accessories/ spares for C-9 main engines as per attach list						
11.	Technical Spec	S No	Part Number	Description	Make/ Origin	Qty Recommended for Repair/ replacement		
		a.	353-7979	AUXILIARY WATER PUMP	Caterpillar, USA	02		
		b.	308-9314	AIR CLEANER ELEMENT	//	02		
		C.	331-8905	ENGINE OIL PUMP	//	02		
i l		d.	262-7609 192-3534	TURBO CHARGER COOLER AS OIL	//	02		
12.	Eligibility Criteria	Ψ.				02		
12.	Englishing Official	Any local/ international firm having experience of supplying caterpillar (C-9) engines original accessories/ spares.						
13.	EDC	30 days						
14.	Warranty	01 x year after installation onboard.						
15.	Acceptance Criteria	Inspection by end user & successful onboard trials after installation						
16.	Any other relevant information	 Repair/ replacement of standard/ USA origin parts for C-9 engines may be ensured by contracted firm. Provision of shipment documents or COC by contracted firm. 						

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. **SUMBISSION OF TENDER:**

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

- 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 anddate on the envelop 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 areto be indicated separately. Total price of the items quoted against the tender is to be clearly mentioned. It should also contains a **pay order 2% in the shape of pay order of the offered value** as earnest money. Cross cheque or cash is not acceptable in this case. The offer received without earnest money will be rejected.
- c. **SPECIAL INSTRUCTIONS:** Tender documents and its conditions may please be read point to point and understood properly before quoting. All tender conditions should be responded properly. In case of any deviation due to non-acceptance of tender conditions, the same should be highlighted alongwith changed offer / conditions. Tender may however be liable to be rejected.

PREPARATION OF OUOTATION

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

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

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

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

Without this format quotation will not be accepted.

3. DATE AND TIME FOR RECEIPT OF TENDER:

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

attend tender opening. The tender received through Fax, E-Mail will not be acceptable.

4. <u>TENDER OPENING:</u>

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. **OUOTING OF RATES:**

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

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

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

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

8. RETURN OF EARNEST MONEY:

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

9. TENDER FEE:

Each technical offer must be accompanied with Cash of **Rs.5,000**/- nonrefundable as tender fee (In favour of IT Sale Account DG PMSA).

10. INSPECTION AUTHORITY:

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

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 REOUIRED:**

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".

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. LIOUIDATED DAMAGES (LD):

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

22. RISK PURCHASE:

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

23. PENALTY:

In case of wrong supply of the item by the Supplier, a penalty of 10% of the contract value may 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.
- 27. **DISOUALIFICATION:** 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 thistender.

- d. Taxes and duties, Freight / Transpiration and Insurance charges not indicated separately asper 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 arenot 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.