

SEPARATE QUOTATIONS REQUIRED FOR ATTACHED 08 x IT SPECIFICATIONS

IT NO : IT/72/01/2023-24

**PROCUREMENT AND INSTALLATION OF 01 X MAGNETRON OF JMA 5312/6
NAVIGATIONAL RADAR – PMSS KOLACHI**

S No	Description	
1.	Parent Equipment	JMA-5312-6 NAVIGATIONAL RADAR
2.	Sub Equipment	Transmission unit
3.	Assembly Component	Magnetron
4.	Make	Teledyne E2V
5.	Model	JMA-5312-6/6HS
6.	Qty	01
7.	Justification i.e PMS/Failure/FWT etc	FWT, Clocked 4497 Hrs MTBF is 5000 Hrs
8.	Work Required/Defect	JMA-5312-6 Navigational Radar not acquiring targets. Magnetron of the radar needs to be changed for satisfactory operation.
9.	Detailed scope of work	Procurement and installation of magnetron and satisfactory operation of the radar
10.	Technical spec	10 KW X-band
11.	Eligibility Criteria	Any firm having good experience with PMSA. OEM,authorized reps will be given preference.
12.	EDC/EDD	03 Week
13.	Warranty	Service and repair warranty of 01 year/2500 Hrs (which comes first)
14.	Acceptance Criteria inspection	a. Only OEM certified item will be accepted b. Item will be accepted after satisfactory test/trials onboard at sea c. Successful trial by end user along-with factory test/trials sheets duly signed by the firm
15.	Any other relevant information	Nil

IT SPECIFICATIONS FOR REPAIR/ MAINTENANCE OF 02 X CORES (AFTERCOOLER) – FRB-155

1.	Ship's Name	FRB-155			
2.	Parent Equipment	C-9 Caterpillar Main engines USA			
3.	Sub Equipment	Air Inlet and Exhaust System			
4.	Assembly Component	Core AS - Aftercooler (Part Number 241-2850)			
5.	Make	Caterpillar, USA			
6.	Model	C-9			
7.	Quantity	02 in number			
8.	Justification i.e PMS/ Failure/ FWT etc	Performance of main engines has significantly been degraded due poor performance of 02 x Cores (Aftercooler) due old vintage and FWT.			
9.	Work Required/ Defect	Performance of main engines has significantly been degraded due poor performance of 02 x Cores (Aftercooler). Repair/ maintenance required for satisfactory operation.			
10.	Detail Scope of Work	Repair maintenance of 02 x Cores (Aftercooler) including following works: <ul style="list-style-type: none"> • Chemical cleaning. • Pressure testing. • Tube punching/ blocking (if below 10 %) • Inspection/ replacement of gaskets, seal O- Rings, Bolts, Washers, Covers and adaptors. 			
11.	Technical Spec	S No	Part No	Description	Qty
		a.	197-5991	Aftercooler GP- Raw water	02
		b.	241-2850	Core AS-Aftercooler	02
		c.	4P-3871	Gasket	02
		d.	192-1413	Cover	01
		e.	194-9570	Gasket	02
		f.	209-3339	Seal	01
		g.	227-8399	Adapter	02
		h.	238-0982	Base	01
		i.	238-1826	Heater AS – Air Inlet	01
		j.	267-8621	Plate AS	01
		k.	3E-4352	Washer- hard (8.8x20.5x2.5-MM THK)	04
		l.	5K-5959	Seal O-ring	02
		m.	6V-3535	Dowel	02
		n.	6V-4249	Bolt (M10X1.5X50-MM)	14
		p.	6V-5218	Bolt (M8X1.25X35-MM)	04
		q.	6V-5839	Washer (11X21X2.5-MM)	23
		r.	8T-0100	Bolt (M8X1.25X60-MM)	08
		s.	8T-0643	Bolt (M10X1.5X120-MM)	04
		t.	8T-5030	Bolt (M10X1.5X120-MM)	05
u.	9M-1974	Washer-hard (8.8x16x2-mm thk)	08		
v.	1U-8846	Sealant - Gasket	04		
12.	Eligibilities	Any well-known national/ international firm having good experience for repair/ maintenance of Caterpillar engines and associated auxiliaries/ parts.			
13.	EDC	15 days			
14.	Warranty	01 Year after installation and satisfactory trials onboard.			
15.	Acceptance Criteria	➤ Inspection of all replaced parts by end user. ➤ Successful trials by end user after onboard installation upto maximum ERPMs.			
16.	Any other relevant information	➤ Installation/Replacement of Marine Grade spares/ accessories are to be ensured by contracted firm. ➤ Dismantling and re-installation of in-way accessories is responsibility of the firm ➤ Any breakage/material failure during dismantling/installation will be lies with the firm.			

Murugan

IT NO : IT/72/03/2023-24

**IT SPECIFICATION FOR DEFECT RECTIFICATION OF HIGH PRESSURE AIR
COMPRESSOR NO 1 – PMSS DASHT**

S No	Description	
1.	Parent Equipment	High Pressure Air Compressor
2.	Sub Equipment	Air Circuit
3.	Assembly Component	Lube Oil Pressure Alarm, Temperature Sensor, Cooler Stack
4.	Origin	German
5.	Make	Bauer Kompressoren GmbH Munich
6.	Model	I15.1-11-5
7.	Justification	Frequent tripping on Low LO Pressure Alarm and 3 rd Stage High Temperature
8.	Work Required	Defect rectification of HPAC No 1
9.	Scope of work	a. Overhauling/ Servicing of auto drain system. b. Troubleshooting / rectify cause of low LO pressure alarm and 3 rd stage high temperature of HPAC c. Test/ run system to required pressure of 150 bar d. All work including dismantling and installation to be done by the contractor. e. Any other spare part(s) if required, will be provided by contractor as per OEM part list.
10.	Technical specs	As per OEM manual (encl)
11.	Eligibilities	Any registered and security wise cleared local contractor who has working experience on High Pressure Air Compressor.
12.	EDC	03 x Working Day (ASAP)
13.	Warranty	01x year warranty after completion of successful trials.
14.	Acceptance Criteria	a. Satisfactory operation of HPAC No 1 b. Satisfactory running parameters of HPAC no 1
15.	Any other relevant information	Firms are requested to visit onboard prior quoting to understand exact scope of work. Firms who will quote without onboard visit will liable to rejection

**IT SPECIFICATION FOR OVERHAULING OF AUXILIARY SEAWATER COOLING PUMP NO. 01 - PMS5
DASHT**

S No	Description	
1.	Parent Equipment	Seawater Cooling System
2.	Sub Equipment	Auxiliary Sea Water Pump
3.	Assembly Component	Pump alongwith Motor
4.	Model	CLH50-32-4.5(Z)
5.	Make	Jiangsu Zhenhua Pump Industry Co. Ltd.
6.	Quantity/Item Details	01 x Auxiliary Sea Water Pump along with Motor
7.	Justification	Pump repaired number of times at BMG but performance observed low
8.	Work required/Defect	Overhauling of 01 x Auxiliary Sea Water Pump along with Motor
9.	Technical Data	Technical specifications are per OEM
10.	Scope of Work	a. Overhauling of auxiliary pump along with accessories b. Old gauge and adoptions needs to be replaced with new c. Precise alignment of pump with motor d. Corroded/ damaged bolts and nuts to be replaced with new
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	02 x weeks
13.	Warranty	One year after completion of successful trials
14.	Acceptance Criteria	a. Satisfactory discharge pressure of sea water pump b. Precise alignment alongwith vibration analysis report c. Satisfactory operation without sea water leakage e. Satisfactory operation of gauge after
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 SPECIFICATION FOR REPAIR OF POWER SUPPLY MODULES OF CHARGING & DISCHARGING SYSTEM – PMSS DASHT

S No	Description	
1.	Parent System	Radio and 2 GB charging and discharging panel compartment
2.	Serial No	19062104-14 and 19062104-15
3.	Sub Equipment	Batteries
4.	Assembly Equipment	Charging and discharging panel
5.	Make	Zhejiang Yonghong Electrical Appliance Co , Ltd
6.	Model	JKC-B-1
7.	Quantity/ Item details	02 x Switching Power Supply Modules
8.	Justification	28V DC output not producing due to defective PCBs
9.	Work Required	Repair/ replacement of above mentioned items from OEM/ Local Engineering House
10.	Scope of work	<p>a. Repairing of switching power supply modules through trained technicians having experience of PCB repair work</p> <p>b. Functional replacement can be undertaken for non available/ obsolete component</p> <p>c. Onboard test/ trials to be conducted after repair</p> <p>d. Spare(s)/ components required for repair work will be arranged by contractor</p> <p>e. Contractor may inspect switching power supply/ module through onboard visit</p> <p>f. Any growth work during repair work will be borne by the contractor. Ship will not provide any spare part/ additional amount in case of growth work</p> <p>g. Any damage to the system during onboard testing of switching power supply will be borne by contractor</p>
11.	Eligibilities	Suitable contractor having working experience on Electronics/ Electrical equipments with PMSA. OEM authorized reps will be given preference
12.	EDC	2 weeks
13.	Warranty	OEM standard One year service and components warranty after successful trials
14.	Acceptance Criteria	<p>a. Onboard successful test and trails onboard ship</p> <p>b. OEM certified spares to be used. All technical documents will be provided with the item</p>

**IT SPECIFICATION FOR PROCUREMENT OF SWITCHING POWER SUPPLY
MODULE OF GENERAL CHARGING & DISCHARGING PANEL – PMSS ZHOB**

S.No.	Description				
1.	Parent Equipment	General Charging & Discharging Panel			
2.	Sub equipment	Switching Power Supply Module			
3.	Assembly equipment				
4.	Make	Zhejiang Yonghong Electrical Appliance Co., Ltd	5.	Model	JKC-B-1 Part No: 3Φ 380V/20-32VDC (70A) NSN No: 6150PV1020011
6.	Quantity	01	7.	Justification i.e PMS/Failure/FWT	Failure
8.	Work required	Procurement of 01 x switching power supply module of general charging & discharging panel			
9.	Detailed scope of work	a. Procurement of above mentioned module through OEM b. Satisfactory trials onboard ship			
10.	Technical specs	As per OEM Manual/ Specs			
11.	Eligibility criteria	Suitable contractor having working experience on Electronics/Electrical equipment with PMSA			
12.	EDD	15 days			
13.	Warranty	01 year in service warranty after completion of successful test/ trials			
14.	Acceptance criteria	a. OEM Certified Item. b. Items will be accepted after satisfactory test/ trials onboard. c. Onboard Installation is responsibility of Firm and any growth work, if occurs is responsibility of firm. d. OEM technical documents/ warranty certificate of items required. e. Upon scrutiny of items and provided documents f. Items must be genuine and OEM packed. Aftermarket products and loose items will not be accepted. g. Certified spares to be used for avoiding damage to system and ship			
15.	Any other information	a. Firm must visit onboard for clarification of any query and better understanding of requirement before quoting. b. Any growth work due workmanship of firm will be firm responsibility.			

**IT SPECIFICATION FOR REPLACEMENT OF MOUNTING DAMPERS (ISOLATORS)
OF GENSET NO 3 – PMSS DASHT**

S No	Description	
1.	Parent Equipment	Genset No 3
2.	Sub Equipment	Mounting Dampers
3.	Assembly Component	Isolators
4.	Origin	USA
5.	Make	Caterpillar
6.	Model	C9 Sea Water and Air Cooled
7.	Justification	Fair wear and tear due ageing factor
8.	Work Required	Replacement of Mounting Dampers (Isolators) of Engine and Alternator sides
9.	Scope of work	a. Detailed inspection of genset base/ foundation b. Replacement of Isolators c. Satisfactory test/ trials of Genset No 3
10.	Technical specs (if any)	As per OEM manual
11.	Eligibilities	Any security wise clear, reputable local contractor having working experience of C9 Caterpillar
12.	EDC	03 x Working Days (ASAP)
13.	Warranty	01x year warranty of all replaced parts after completion of successful trials.
14.	Acceptance Criteria	a. Satisfactory operation of Genset No 3 b. Satisfactory running parameters of Genset no 3
15.	Any other relevant information	Firms are requested to visit onboard prior quoting to understand exact scope of work. Firms who will quote without onboard visit will liable to rejection

IT SPECIFICATION FOR PROCUREMENT OF C9 GENSET SENSORS- ZHOB

1.	Parent equipment	C9 Caterpillar GENSET				
2.	Sub-equipment	C9 Caterpillar Lube oil, Fuel				
3.	Assembly Component	a. Lube Oil temperature sensor b. Fuel Pressure sensor				
4.	Make	Danfoss	5.	Model/Part No	Description	Qty
				<u>MBS 5150 (P No 060N1072)</u>	Lube oil temperature sensor (0-150 Centigrade)	03
				<u>MBS-3100</u>	Fuel pressure sensor	03
6.	Quantity	06	7.	Justification i.e PMS/ Failure/ FWT	Failure	
8.	Work Required/ Defect	Procurement of 06 x C9 GENSET Sensors (mentioned at S.No 5)				
9.	Detailed Scope of Work	Provision of genuine OEM certified sensors as per required Make, Model, Part Number and Pressure Range in given time.				
10.	Technical Specs	As per OEM Manual/ Specs				
11.	Eligibility Criteria	Reputable contractor having relevant work experience. Moreover, contractor has to contact ship's staff prior quoting to fully understand the scope of work.				
12.	EDD	14 Days				
13.	Warranty	01 year				
14.	Acceptance Criteria	a. OEM Certified spare b. Items will be accepted after onboard fitting and test/ trails c. Technical specifications to be provided by contractor d. Upon scrutiny of items and provided documents i.e. technical specifications				
15.	Any other information	Contractor may Contact SS for further details/ Query				

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 along with the tender No and date on the envelope containing the technical offer.
- b. **COMMERCIAL OFFER:** The price to be quoted in figures as well as in words along with 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 along with 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:

<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.