

**SEPARATE QUOTATIONS REQUIRED FOR ATTACHED 03 x IT SPECIFICATIONS**

**IT NO: IT/41/01/2024-25**

<b>IT SPECIFICATION – TOP OVERHAUL ROUTINES OF SSDG NO 2 – PMSS REHMAT</b>		
<b>S No</b>	<b>IT Specifications</b>	
1.	Parent Equipment	Power Generation and Distribution
2.	Sub Equipment	SSDG-2
3.	Assembly Component	All components/ Parts of SSDG
4.	Make	CUMMINS (USA)
5.	Model	6CTA 8.3
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 2 is required with provisioning of parts/ spares on firm arrangement. Details is appended below:</p> <ol style="list-style-type: none"> <li>Remove cylinder heads.</li> <li>Remove intake and exhaust manifolds.</li> <li>Disconnect fuel lines from injectors.</li> <li>Loosen bolts and remove cylinder heads.</li> <li>Clean and inspect cylinder head for crack wear etc</li> <li>Check condition of valve springs.</li> <li>Valves to be inspected and seats to be prepared.</li> <li>Replace valve seats if required.</li> <li>Injectors to be tested and calibrated for proper spray.</li> <li>Replace injectors if required.</li> <li>Rocker arm push rods to be examined against wear tear.</li> <li>Replace worn out valve guides and seals if required.</li> <li>After decarbonising and cleaning assemble and refit cylinder heads with new gaskets.</li> <li>Refit the manifolds using new seals, packing and joints required.</li> <li>Adjust valve clearances as specified.</li> <li>Adjust and set injector timing.</li> <li>Refill fresh oil and coolant in engine.</li> </ol> <p><b>REPAIR/ MAINTENANCE OF KNOWN DEFECTS DURING TOH</b></p> <ol style="list-style-type: none"> <li>Fresh water pump/ water body is observed deteriorated.</li> <li>Engine mounts are observed deteriorated and same are to be replaced due to excessive vibration.</li> <li>Air intake cooler is observed choked and same is required to be replaced.</li> <li>Lub oil pressure dropped after 60% load and same is required to be rectified.</li> <li>Fuel injection pump to be overhauled due to leakages.</li> <li>Turbo charger is to be overhauled due to exhaust leakages.</li> <li>Heat exchanger to be chemically cleaned and zinc anodes are to be replaced.</li> <li>OEM certified spares/ parts of TOH routines to be ensured.</li> <li>Instrument colour coding paint of mechanical system to be carried out.</li> <li>Provide complete list of replaced/ repaired items. Replaced items to be handed over to SS for survey.</li> <li>All spares, tools, special equipment / tools, accessories etc for repair and cleaning work are to be arranged by the contractor.</li> <li>Any damage / defect / wear tear occur during the course of removal and installation of SSDG is the responsibility of the concerned firm</li> </ol>
11.	Eligibility Criteria	<ol style="list-style-type: none"> <li>The firm must visit onboard and carry out diagnosis/ inspections to establish the extent of required work.</li> <li>Firms not undertaking the visit onboard ship to see extent of work will not technically qualify.</li> <li>The firm must have sufficient experience of same kind of work onboard corvette.</li> <li>Successful HATs and SATs at 1500 RPM and maximum load</li> <li>NTN/ GST registered.</li> </ol>
12.	EDC	30 Working days
13.	Warranty	01 year after completion of successful full load trials
14.	Acceptance criteria	<ol style="list-style-type: none"> <li>SATs at full load for 04 hours i.e                             <ol style="list-style-type: none"> <li>30% load for ½ hrs</li> <li>50% load for ½ hrs</li> <li>75% load for 1 hrs</li> <li>100% load for 4 hrs</li> </ol> </li> <li>Acceptance by SS</li> </ol>
15.	Any other relevant information	-

**IT NO: IT/41/02/2024-25****IT SPECIFICATION OF PORT MAIN DIESEL ENGINE 5000 HRs PMS ROUTINE  
(TOP OVERHAUL)- PMSS RAFAQAT**

1	Parent Equipment	Main propulsion
2	Sub Equipment	Port Main Diesel Engine
3	Make	Catterpillar USA
4	Model	3516 DITA V Type
5.	Output	2730 BHP@1910 RPM
6	Qty	01
7	Engine Serial No	5MJ00024
8	Work Required/Defect	Top Overhaul of Port Main Engine
9	Detailed scope of work	<ul style="list-style-type: none"><li>i. Cylinder head cleaning, testing and inspection.</li><li>ii. Exhaust manifold cleaning &amp; inspection.</li><li>iii. Air cooler cleaning and inspection</li><li>iv. Sea water cooler cleaning, testing and inspection.</li><li>v. Turbocharger cleaning and inspection.</li><li>vi. Fuel injector testing.</li><li>vii. Governor calibration.</li><li>viii. Repair/ Maintenance of any item other than TOH Kit found defective.</li><li>ix. Complete report defining the magnitude of work including all the measurement and new tolerances.</li><li>x. Provide complete list of items replaced/repaired items. Replaced to be handed over to ship staff for survey process.</li><li>xi. Lube oil filters, fuel filters, air filters are to be replaced by firm in TOH.</li><li>xii. Lube oil of Port engine to be changed by firm after TOH.(CAT DEO 15 W 40.)</li></ul>
10	Technical specification	2730 BHP @ 1910 RPM
11	Eligibility Criteria	<ul style="list-style-type: none"><li>(i). The firm should visit onboard and carry out inspection to establish the extent of required work.</li><li>(ii). The firm should have experience of the same kind of work.</li><li>(iii). The firm should be NTN/GST registered.</li></ul>
12	EDC	30 days
13	Warranty	1 year
14	Acceptance Criteria	After completion of satisfactory trials by SS.
15	Any other relevant information	Nil

**IT NO: IT/41/03/2024-25**

**IT SPECIFICATION OF STBD MAIN ENGINE 10,000 HOURS PMS ROUTINE  
(MAJOR OVER HAUL) – PMSS RAFAQAT**

1.	Parent Equipment	Propulsion
2.	Sub Equipment	Stbd Main Diesel Engine
3.	Make	Caterpillar USA
4.	Model	3516 DITA V Type
5.	Output	2730 BHP @ 1910 RPM
6.	Qty	01
7.	Engine Serial No	5MJ00029
8.	Work required/ Defect	Major Overhaul
9.	Detailed scope of work	<ol style="list-style-type: none"> <li>1. MOH of Stbd MDE as per caterpillar USA manual.</li> <li>2. Complete overhauling of Stbd MDE as per caterpillar USA manual including local control and local monitoring system and governor unit.</li> <li>3. Inspection of renewal of 16 in no cylinder liner of Stbd MDE if repair/replacement required.</li> <li>4. Repair/replacement of exhaust system.</li> <li>5. Replacement and calibration of all defective electrical and electronics equipment associated with Stbd MDE.</li> <li>6. Engine lubrication system to be overhauled and cleaned.</li> <li>7. Engine fuel system including pumps overhauling and cleaning.</li> <li>8. Inspection and overhauling of turbochargers and fuel system linkage.</li> <li>9. Inspect and cleaned oil sump.</li> <li>10. All coolers/heat exchangers to be chemically cleaned and pressure tested.</li> <li>11. Engine air inlet system to be inspected, cleaned, and overhauled.</li> <li>12. Engine coolant system to be flushed and overhauled.</li> <li>13. Inspect/ rebuild or exchange jacket water pump and auxiliary water pump.</li> <li>14. Inspect/cleaned sump breathers.</li> <li>15. Inspect/cleaned vibration dampers.</li> <li>16. Check / inspect engine valves lash, injector, timing and rotators.</li> <li>17. Check and flush cooling system.</li> <li>18. Inspect/replace thermostat gasket and seals</li> <li>19. Inspect/ rebuild or exchange starter motor.</li> <li>20. Inspect/replace engine shock mounts.</li> <li>21. Calibrate all meters.</li> <li>22. Replacement/ calibration of all fuel injectors.</li> <li>23. Overhauling/ service of cylinder head, connecting rods, cylinder liners, pistons, turbochargers, oil pump, spacer plate, cam followers and governor.</li> <li>24. Install new piston rings, main and big end bearings, Valve rotators and crankshaft seals.</li> <li>25. Inspect/replacement of crankshaft main and big end bearings.</li> <li>26. Repair/ maintenance of any item other than MOH kit found defective.</li> <li>27. Complete report of defining the magnitude of work including all the measurement and new tolerances.</li> <li>28. Provide complete list of items replace/repaired. Items replaced to be handed over to ship staff for survey process.</li> <li>29. NDT test to be carried out of all pistons, connecting rods, crankshaft, camshaft and cylinder block.</li> <li>30. Replacement of lube oil filters, fuel filters, air filters by firm after MOH.</li> <li>31. Stbd MDE Gear box with pump overhauling routine to be carried out.</li> <li>32. Lube oil Stbd MDE to be changed by the firm after MOH (CAT DEO or DAE 15W40).</li> <li>33. Inspect/ rebuild or exchange jacket water pump and auxiliary water pump.</li> <li>34. Stbd MDE gear box lube oil filters to be repaired/ replaced.</li> <li>35. All tools/ spares for conduct of above mentioned activities will be used by contractor during conduct of MOH routine.</li> <li>36. Spares are required to be genuine and OEM specified</li> </ol>
10.	Technical specifications	2730 BHP @ 1910 RPM
11.	Eligibilities	<ol style="list-style-type: none"> <li>a. The firm should have experience of the same kind of work.</li> <li>b. The firm should be NTN/GST registered.</li> </ol>
12.	EDC	45 Days
13.	Warrant	01 Years
14.	Acceptance Criteria (if any)	Satisfactory Operation. Satisfactory trails required by the firm and ship staff.
15.	Any other relevant information.	Nil.

**Note: 100% Payment after completion by CNA**

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## **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%:

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

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

### **3. DATE AND TIME FOR RECEIPT OF TENDER:**

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

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

### **4. TENDER OPENING:**

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

### **5. VALIDITY OFFER:**

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

### **6. QUOTING OF RATES:**

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

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

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

### **8. 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(l).

**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.