

**IT SPECIFICATIONS – PROCUREMENT OF 10 KVA DIESEL GENERATOR FOR  
PMSA BASE SADAQAT**

1.	Parent Equipment	Electrical Power Generation and Distribution System of PMSA Base SADAQAT
2.	Sub Equipment	10 KVA Shore Diesel Generator
3.	Assembly Component	--
4.	Make	Western Origin OR equivalent with canopy
5.	Model	Suitable To sustain at harsh and rusty environment near sea
6.	Qty	01 in number
7.	Justification i.e PMS/ Failure/ FWT etc	<ul style="list-style-type: none"><li>➤ Performance of Old vintage Diesel Generator (5 KVA) extremely degraded due FWT and said DG unable to fulfill emergency electrical power requirements of PMSA Base SADAQAT during prolonged load shedding intervals.</li><li>➤ New DG essentially required fulfilling electrical power requirements of PMSA Base SADAQAT during prolonged load shedding.</li></ul>
8.	Work Required/ Defect	Procurement of 10 KVA Diesel Generator with sound proof canopy alongwith spares supportability upto 500 hours for Level-I/II maintenance.
9.	Detailed scope of work	Procurement of 10 KVA Diesel Generator with sound proof canopy alongwith spares supportability upto 500 hours for Level-I/II maintenance. Installation of distribution panel.
10.	Technical Spec	Maximum Rating : 13.5 KVA Minimum Rating : 10 KVA Voltage : 440 Volts Frequency : 50 Hz Duty Cycle : Standby, Prime
11.	Eligibility Criteria	<ul style="list-style-type: none"><li>a. Any local/ international registered firm with good reputation.</li><li>b. Having capability w.r.t technical experience and expertise etc for said work.</li><li>c. Successful installation at site and satisfactory trials.</li></ul>
12.	EDD	03 Months
13.	Warranty	02 Years or 2000 service hours (whichever is later) after successful load trials at site.
14.	Acceptance Criteria	<ul style="list-style-type: none"><li>➤ Inspection by end user and after successful load trials.</li><li>➤ Delivery of spares/consumables</li><li>➤ Provision of technical manuals (owner manual, operation manual, maintenance and IPC).</li></ul>
15.	Any other relevant information	<ul style="list-style-type: none"><li>➤ Following are to arranged/ prepared by firm for load trials:<ul style="list-style-type: none"><li>• All consumables.</li><li>• Dummy load OR load van (if required).</li><li>• Installation of change over or distribution panel.</li></ul></li></ul>



**IT SPECIFICATIONS OF REPLACEMENT OF EXISTING NON MARINE VERSION PLC AND ASSOCIATED I/O's WITH MARINE VERSION ON 02 X FORWARD MAIN ENGINE FPME & FSME**

S No	IT Specifications	
1.	Parent Equipment	Main Engine's Monitoring, Protection And Control System
2.	Sub Equipment	PLC based monitoring and control system
3.	Assembly Component	PLC and associated I/O's
4.	Make	Mitsubishi Brand PLC
5.	Model	<del>PM557</del> <b>FX3U</b> TP ETH Programmable Logic Controller
6.	Qty	02 x Main Engine PLC's and associated I/O's
7.	Justification i.e PMS/ Failure/ FWT etc	Old PLC's and associated I/O's are non-marine version resulting in recurrent defects and subsequently affecting ship's operational capability.
8.	Work Required/ Defect	Replacement of existing PLC's and associated I/O's with marine version.
9.	Detailed Scope of work	<p>Scope of work is as under:</p> <p>a. Replacement of existing monitoring, protection, control system PLC's and associated I/O's with marine version PLC's and associated I/O's of 02 x Main Engines (FSME and FPME).</p> <p>b. Complete functionality as in present system to be provided as enumerated below.</p> <p>c. HMI Software to display following parameters/ indications.</p> <ul style="list-style-type: none"><li>i. Lube oil pressure</li><li>ii. Lube oil temperature</li><li>iii. Gear box lube oil temperature</li><li>iv. Gear box lube oil pressure</li><li>v. Exhaust temperature A bank</li><li>vi. Exhaust temperature B bank</li><li>vii. Combine Exhaust Temperature</li><li>viii. Exhaust Flap open/close</li><li>ix. Engine RPM</li><li>x. Coolant water temperature</li><li>xi. Coolant low water warning/ trip switch</li><li>xii. Charge Air temperature</li><li>xiii. Sea water pump discharge pressure</li><li>xiv. Shaft RPM</li></ul> <p>d. Incorporation of following warning in case of any abnormality:</p> <ul style="list-style-type: none"><li>i. High Engine lube oil temperature (95 C<sup>0</sup>)</li><li>ii. High coolant temperature (85 C<sup>0</sup>)</li><li>iii. Low Main Engine lube oil pressure (2.5 bar)</li><li>iv. High gear lube oil temperature (100 C<sup>0</sup>)</li><li>v. Low gear box lube oil pressure (2.5 bar)</li><li>vi. Low sea water pressure (0.2 Bar)</li></ul>

10

5. TO be designed on following parameters iot operate safeties resulting in ME trips/ shutdown:

- i. Low engine lube oil pressure (1.5 Bar)
- ii. High Coolant Temperature (95 C0)
- iii. High engine lube oil temperature (105 C0)
- iv. Engine over speed (2000 RPM)
- v. Low gear box lube oil pressure (1.5 Bar)

6. Parameters logging and print out option to be provided alongwith facility of system recording for 04 x weeks as well as engine order recording for 04 x hours to be provided.

7. PLC programming and backup software to be included in deliverables. Further, SS training for software installation to be provided.

8. Cable marking.

9. Operator manual Technical Manual, Maintenance Manual along with Illustrated parts Catalogue to be provided

10. Auto cut in/ cut out of fuel pumps should be available.

11. Fixed heater is to be installed for dehumidification.

12. Compatibility of governor and governor control unit with new control system is the responsibility of the firm.

13. The firm will also provide complete system diagrams/ fault finding procedure/ troubleshooting procedures on laminated hard and soft copy.

14. Training is to be provided to SS to operate the system and level 1 and maintenance.

15. The firm will provide all documents/ operating and maintenance manual and drawing (02 set) in hard and soft copy.

16. The firm will be responsible to undertake any work not covered above to ensure good quality of work.

17. Growth work if any, will be undertaken by the firm with mutual discussion with SS.

18. The firm will be responsible for welding/ cutting, if required.

19. The firm will arrange all spares, tools and accessories etc required for the same work.

20. The firm will be responsible for requirement of external services.

21. The firm will be responsible for all removal, transportation.

		and installation work during warranty/ guarantee period claims and in case of any re-work. 22. The system should be supportable for next 15 years. .
10.	Technical Spec	As per IT Spec.
11.	Eligibility Criteria	a. The firm must visit onboard and carry out inspection to establish the extent of required work. b. The firm must have good experience of same kind of work required onboard. c. The firm must be NTN/ GST registered.
12.	EDC	After issuance of work/ confirmation order.
13.	Warranty	1 year/ 2000 hrs, whichever is earlier after acceptance. Firm will also provide a Guarantee certificate for provision of spares/ part for next 15 year successful installation of system.
14.	Acceptance Criteria	HATs/ SATs
15.	Any other relevant information	Nil.

**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](mailto: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. Total price of the items quoted against the tender is to be clearly mentioned. It should also contain 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 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:

<b>S No</b>	<b>Description Qty</b>	<b>U/Price</b>	<b>GST/SST/Taxes</b>	<b>Total Price</b>
-------------	------------------------	----------------	----------------------	--------------------

**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.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 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“.

**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.

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. Manufacturer'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 later.