



**POF 1262-A**  
(INDIGENOUS SUPPLIES)

**GOVERNMENT OF PAKISTAN**  
**PAKISTAN ORDNANCE FACTORIES**  
**TENDER ENQUIRY**

To,

M/s \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Dear Sirs,

Reference: **Tender Enquiry No. 5167-104 -LP-CAPT-SJL Dated 22-02-2025**

You are requested to submit quotations for the item(s) noted in the Schedule to the Tender. Offer should be sent duly sealed in an envelope. Please note the following instructions for filling the tender:-

**1. SUBMISSION OF TENDER**

- 1.1 Tenders will be opened at **1130 Hours 20-05-2025** at Room No. 01, Bid Center near Rabta Hall POF Wah Cantt and must reach this office on or before **1100 Hours** upto due date. The tender received late will not be entertained. You may witness the opening of the tender if you so desire. If a representative is deputed, he should bring a Letter of Authority from you.
- 1.2 Only one tender should be included in one envelope. The outside of the envelope should be inscribed with:-  
Tender Enquiry No.: **5167- 104-LP-CAPT-SJL**  
Tender to be opened on: **20-05-2025**  
Address as follows: - **Room NO. 01, Bid Center Near Rabta Hall POF Wah Cantt.**
- 1.3 If envelope does not indicate reference of TE or received late the same may be returned un-opened.
- 1.4 Tender "By Hand" can be delivered at Bid Centre, Reception Hall, POF Wah Cantt.

**2. GENERAL INSTRUCTIONS REGARDING PREPARATION OF QUOTATIONS:**

- 2.1 For materials, the prices should be filled in column 5 and delivery date in column 6 of the schedule to this Tender Enquiry. The undertaking should be signed at the bottom of the Schedule which shall form the Quotation. You may use a separate sheet if necessary.
- 2.2 As per **PPRA Rule 36(d), two stage - two envelope bidding method** will be adopted for "open competitive bidding." Moreover, technical & commercial evaluation of Bids will be carried out strictly as per PPRA Rules and contract (s) will be awarded to the most advantageous bidders (s).
- 2.3 The quotation must remain valid for, at least **90 days** from the date of revised tender opening (second stage).
- 2.4 The quotation should hold good for any reduced or enhanced quantities without notice.

- 2.5 In the event of non-acceptance of offer, intimation may be given to the tenderers on their request.
- 2.6 Conditional offers or alternative offers are likely to be ignored.
- 2.7 **Quotations should be based on:-**  
F.O.R Station of Dispatch basis, i.e. Delivered Free on Rail, inclusive of packing and forwarding charges. The stores will be booked under Military Credit Note, to be provided by the purchaser.  
and/or  
Free delivery at POF stores at POF Saniwal  
In this case Octroi duty will be payable by the supplier.
- 2.8 Taxes and Duties etc. where applicable, must be shown separately, quoting reference to Registration No. in cases of Sales Tax and relevant authority in the case of others. Offer without these clarifications and inclusive of Taxes and Duties may be ignored.
- 2.9 Taxes and duties levied on or after Tender opening date or on or after the date offer was signed and dispatched will be allowed to include in the offered rates.
- 2.10 "Suppliers will furnish a certificate, issued by Excise & Taxation Deptt, that he has cleared all Professional Tax payable by him" offers received without this certificate will be rejected.
- 2.11 Suppliers will render necessary information regarding hazardous effects on environment, of the materials / products supplied by them, in their quotations and shipping/dispatch documents.
- 2.12 If the requisite information is not furnished on the T.E forms or offer received is not conformity with the requirement of the T.E such offer shall be ignored.
3. **INSPECTION:**
- 3.1 Supplies shall be subject to the inspection and acceptance by the competent inspection authority nominated by the Purchaser, who will arrange it at his own cost.
- 3.2 Inspection facilities such as tool, test equipment, instrument etc will however, be provide by the suppliers in accordance with the relevant specification.
- 3.3 Where considered necessary by the Purchaser, stores may be obtained on Warranty / Guarantee, subject to inspection on receipt. Rejected stores will be removed and replaced with the acceptable stores by the Supplier at his own expense, within a specified time.
4. **TENDER FEE**  
The tender must be accompanied by a non-refundable fee by means of a crossed postal order / pay order for Rs 500/- in favour of Director Admin POFs Wah Cantt.
- 4.1. **TENDER SAMPLE**  
Where required, offer must a company tender sample, strictly according to the description and specification given in Tender Enquiry. Offer not accompanied by tender sample will NOT be entertained excepting the established and reputable firms who have either previously satisfactorily supplied the same or similar stores or have submitted an acceptable sample thereof against previous T.E.
5. **BID MONEY**
- 5.1 A copy of Bid Security should accompany the tender in shape of deposit at call receipt/Pay Order/Banker Cheque from scheduled bank drawn in favour of General Manager concerned purchase.
- 5.2 Bid security instrument in original must be provided on the day/date of tender opening in the Bid Center as under:

- a. Registered/indexed firms including foreign firms - 2% of quoted value subject to the maximum ceiling of Rs. 0.5 Mn.
- b. Registered/un-indexed firms including foreign firms - 3% of quoted value subject to the maximum ceiling of Rs. 0.75 Mn.
- c. Unregistered firms including foreign firms - 5% of quoted value subject to the maximum ceiling of Rs. 1.00 Mn.
- d. Govt organization/production units/state owned enterprises/welfare projects of Svcs HQ - Rs 0.50 M.
- e. Bid money will be returned to unsuccessful (less first three lowest quotee firms) bidders on opening of commercial offers.
- f. Bid money will be returned to successful bidders on submission of performance bond/unconditional B.G.
- g. Quotation accompanied with less bid money will be accepted on provisional basis for 7 x days after opening of bids. However, the firms are bound to provide/furnish the balance bid money within 7 x days after opening of bid otherwise such quotations will be ignored or rejected.
- h. Offers received without Bid Security will not be entertained.  
Bid money will be forfeited in case the quotation is withdrawn before the expiry of its validity date.

## **6. ACCEPTANCE OF OFFERS:**

- 6.1.1 The procuring agency may reject all bids or proposals at any time prior to the acceptance of a bid or proposal. The procuring agency shall upon request communicate to any supplier or contractor who submitted a bid or proposal, the grounds for its rejection of all bids or proposals, but is not required to justify those grounds.
- 6.1.2 Procuring agency shall incur no liability, solely by virtue of its invoking sub-rule (1.1) towards suppliers or contractors who have submitted bids or proposals.
- 6.1.3 Notice of the rejection of all bids or proposals shall be given promptly to all suppliers or contractors that submitted bids or proposals.

## **6.2. PERFORMANCE BOND**

- (a) The successful bidders shall provide performance bond within 30 days after issuance of letter of intent (LOI) at the rate of 10% of the total contract value, in the form of a Deposit at Call Receipt from a scheduled bank; or, an unconditional Bank Guarantee valid for 24 months after installation & commissioning and Final Acceptance Test of the boiler at POFs on a prescribed format. The performance Bond will be in favour of C.M.A POF Wah Cantt. It will be returned on satisfactory completion of the contract.
  - (b) If the Supplier fails to furnish the Performance Bond within the specified time, such failure will constitute a breach of the contract and the Purchaser shall be entitled to make other arrangements for purchase of the stores at the risk and expense of the Supplier.
- 6.3 Performance Bond from State owned organizations may be waived off at the discretion of the Purchaser.

**6.4 FAILURE TO SUPPLY THE STORES:**

All deliveries must be completed by the specified date. If the failure to deliver the stores within the scheduled time should have arisen from "Force Majeure", which the Purchaser may admit as reasonable ground for further time, he will allow such additional time as he may consider to have been required by the circumstances of the case. Otherwise, he will be entitled, at his discretion, to cancel the contract; and / or, claim liquidated damages upto 2% but not less than 1% of the contract price of the items and their quantities for each and every month or part of a month, beyond the specified delivery date, during which these may not be delivered, subject to a maximum of 10% of the total contract value of the particular stores which remained unsupplied either in part or in full: or, to purchase, from elsewhere, the unsupplied stores at the risk and cost of the Supplier.

**6.5 PAYMENT TERMS:**

- a. 100 % payment will be released after installation & commissioning and successful Final Acceptance Test of the boiler at POF site.
- b. Payment of duties / Taxes including professional tax (where applicable) must be supported by proof of having paid these to concerned Govt. Taxation Deptt.
- c. Payment will be made after providing evidence of payment of stamp duty @0.25% of contract value in the shape of stamp paper as per section 3 of Stamp Act 1899.

**7. SECURITY OF INFORMATION:**

The tenderer and his employees must not communicate any information relating to the sale/purchase of stores under this enquiry to any person other than the manufacturer or to any press or agent not authorized in writing by POFs to receive it. Please return the Schedule to the Tender duly signed by the specified date, along with the specifications drawings etc. if any, enclosed herewith - even if you are unable to quote.

**8. WARNING:** In case the firm abstain from making offers or fail to return / acknowledge the tender form by the specified date on three consecutive occasions, no further tender enquiry may be issued to them and their names would be liable to remove from the approved list.

Yours faithfully,

(Sajjad Safdar Khan)  
**Managing Director**  
**For Pakistan Ordnance Factories**  
- -2025.

Tele: 051916627601  
E-mail: [mdsjl@pof.gov.pk](mailto:mdsjl@pof.gov.pk)

Fax:  
Cable:

**PAKISTAN ORDNANCE FACTORIES**

**1262-A**

<b><u>SCHEDULE TO TENDER ENQUIRY NO.</u></b>		<b><u>5167-104-LP-Capt-Sjl</u></b>		<b><u>Dt.</u></b>	<b><u>22-02-2025</u></b>
<b><u>To Be Opened on</u></b>	<b><u>20-05-2025</u></b>				
<b><u>Sr. No.</u></b>	<b><u>Description Of Store</u></b>	<b><u>A/U</u></b>	<b><u>Qty</u></b>	<b><u>Price Per Unit</u></b>	<b><u>Delivery Date/Period</u></b>
1.	<b>Refurbishment / up-gradation of Boiler(Capacity: 25 Ton/hr) As per Annexure-A&amp;B attached</b>	No.	01		

(2) For Plant & Machinery:

Miscellaneous Requirement:-

- a. Rates quoted should clearly indicate Inclusive or Exclusive of sales tax otherwise it will be assumed that rates are Inclusive of Sales Tax.
- b. Amount of Performance Bond and outstanding payment of bill against other contracts shall not be treated as Bid Money etc.
- c. All manufacturers of taxable goods and importer are required to be registered with the sales tax department and to issue tax invoices in respect of all their sales and all the suppliers are advised to provide the sales tax invoices whenever they buy taxable goods from any manufacturer/ importer. The production of these invoices may also be attached when supplies are made by supplier/ contractors. If a supplier claims that he is neither an importer nor a manufacturer and not authorized to issue tax invoices, then he will provide sales tax invoices issued by the concerned registered importer/manufacturer from whom such supplier had procured the goods.
- d. Tender fee should be attached with Technical offer & Bid Money should be attached with commercial offer. However, Certificate should be attached with technical offer that Bid Money of specific amount and format (as per clause 5.1 of 1262-A) has been attached with commercial offer.
- e. Authorization letter: - Firm will provide authorization from OEM.
- f. In case of foreign make units the firm will provide export permit for Pakistan.
- g. The supplier will render warranty/guarantee certificate for 02 x years of free replacement of all parts of the store from the date of final acceptance of the store at POF Sanjwal.
- h. In commercial Bid, cost breakdown should be mentioned separately.
- i. Indicate the model, name of the manufacturer, country of origin and also provide authorization letter from their respective OEM along with technical brochure of the material / product in English language being offered.
- J. Breakdown of rates be given showing price and sales tax separately. Otherwise your quoted rates will be considered inclusive of GST.
- k. Quotation may be submitted if you are registered with sales tax department. Sales tax registration number may also be indicated in your offer.
- l. Only suppliers registered with sales Tax & income Tax Deptt, who are on Active Taxpayers List (ATL) of FBR are eligible to supply goods / services.
- m. The payment to the registered firms may be linked with the active taxpayer status of the suppliers as per FBR database. If any registered supplier is not in ATL, their payment will be stopped till they file their mandatory return and appear on ATL of FBR.

(4) **Undertaking**

Should our offer be accepted, we hereby undertake to supply the stores/render the services contracted on the basis of General Conditions of Contract embodied in Form POF-1281, and to deposit the performance bond within the prescribed time, failing which it will constitute a breach of contract, and POF will have the right to purchase the stores/services elsewhere at our risk and cost.

Place \_\_\_\_\_  
Date \_\_\_\_\_

Signature of the Tenderer \_\_\_\_\_  
Name \_\_\_\_\_  
Position \_\_\_\_\_  
Address \_\_\_\_\_  
Income Tax G.I.R No. \_\_\_\_\_  
Official stamp.

**SCOPE OF WORK**

**1. BOILER # 01 (PB-3846)**

- 1.1) Dismantling and replacing of complete **Boiler tubes (665 Nos.)** Front, Rear, Left & Right side tube wall  $\Phi 50.8 \times 4.5\text{mm}$  and Conv. Tube wall  $\Phi 50.8 \times 3.6\text{mm}$  Material: Seamless Alloy Steel Tubes DIN ST 37.8 I/ 17177, **Super heaters alongwith headers (02 sets)** tube  $\Phi 38 \times 4.5\text{mm}$  [01 set =17 coils, Material: Seamless Alloy Steel Tubes DIN 17175 / 13Cr Mo44] & [01 set =17 coils, Material: Seamless Alloy Steel Tubes DIN 17175 / 10CrMo910], **Economizer alongwith headers** tube  $\Phi 50.8 \times 4.5\text{mm}$ , 01 set = 12 seamless coils Material: Seamless Alloy Steel Tubes DIN ST 37.8 III / 17177.
- 1.2) Provisioning, fabrication & installation of boiler tubes, Super heaters & Economizer along with headers according to flow & material drawing Nos. AZ:107913b, AZ:106551 & AZ:106552b (as per OEM / European manufacturer standard).
- 1.3) Provisioning & installation of refractory and insulation material including cladding & G.I sheets for complete boiler, Super heaters & Economizer as per requirement.
- 1.4) Provisioning, installation & commissioning of complete Boiler Burner Management System (BMS) included gas burners along with control system, Gas trains. Boiler Control System (PLC Based HMI with Alarming & Control System) (as per European manufacturer standard).
  - 1.4.1) Feed Water auto control valve along with Non return valve (01 No.)
  - 1.4.2) Boiler Steam temperature auto control valve (01 No.)
  - 1.4.3) 12 Bar Steam Pressure Reducing Control Valve with controller (01 No)
  - 1.4.4) 1.5 Bar Deaerator auto control valve with controller (01 No.)  
common section
  - 1.4.5) Flue gas analyzer
  - 1.4.6) Drum Level Transmitter (Monitoring & Control)
  - 1.4.7) Low Level & High Level Water indication, alarm & Tripping
  - 1.4.8) Fuel Gas Pressure Indicator
  - 1.4.9) Ignition system indications
  - 1.4.10) Steam and Water Flow control parameters
  - 1.4.11) High Pressure and High Temperature of Steam indication,  
alarm & Tripping
  - 1.4.12) FD Fan tripping High Temp of bearing + Vibration
  - 1.4.13) Air and Fuel ratio Display and control
  - 1.4.14) Natural Gas ( $\text{m}^3$ ), Feed Water ( $\text{m}^3$ ) & Steam Consumption ( $\text{m}^3$ )  
Totalizer.
- 1.5) Provisioning, installation & commissioning of as per existing Forced Draught Fan. Detail is given below.

Blower rpm	: 2560	rpm
Blower Volume	: 31310	$\text{m}^3/\text{h}$
Motor rpm	: 1480	rpm
Motor Power	: 90	Kw, 3 $\phi$
- 1.6) Designing, provisioning and installation of explosion door at appropriate place.
- 1.7) Provisioning, installation & commissioning of visible boiler water level gauge glass and Feed water line.

- 1.8) Provisioning, replacement & installation of expansion joints between economizer & boiler, boiler & FD Fan.
- 1.9) Provisioning, installation & commissioning of Temperature monitoring and tripping system for super heater coils.
- 1.10) Provisioning, installation & commissioning of steam line from outlet of boiler to main stop valve. **(6" Dia of Line Length 40 ft & 5" Dia of Line Length 60 ft)**  
Material: Seamless Alloy Steel DIN 17175 / 13Cr Mo44 along with Main Stop Valve & Non Return Valve.
- 1.11) Provisioning of material chemical & mechanical test reports (boiler tubes, Super heaters & Economizer) by reputable firm / OEM certificate.
- 1.12) Provisioning of all welding works test report after completion of work i.e x-ray, penetration and ultrasonic tests.
- 1.13) Commissioning & capacity testing of required boiler at OEM Parameters in the presence of boiler inspector.
- 1.14) Installation of new Pressure and Temperature Gauges at Boiler drums, super heater & Economizer headers, Feed Water Lines, Process Steam lines & Fuel Gas Lines.
- 1.15) Inspection of boiler at different stages from Govt. Boiler inspector during installation & commissioning.
- 1.16) Safeties of Boiler will be checked at POF's site under firm's supervision.
- 1.17) Firm will provide third party inspection certificate for mechanical design, stage fabrication and hydro testing.
- 1.18) Inspection facilities such as tools, test equipments, instruments e.tc will be arranged by the firm in accordance with relevant specification / requirement.
- 1.19) Pressure test of boiler will be carried out according to requisite pressure vessel act '**Section 8(5) of the boiler and pressure vessel Amendment Act 2013**' governed by '**Directorate of industries, Government of Punjab**' at POF's site in the presence of boiler inspector under firm's & third party inspector supervision, any deficiency / modification pointed out by boiler inspector will be considered in scope of work free of cost



**REFURBISHMENT / UPGRADATION OF BOILER No. 1 (PB-3846)**

**1. PURPOSE:**

Refurbishment / repair of boiler No. 1 (working capacity: 25 ton/hr) and also installation of complete Boiler Burner Management System (BMS) included gas burners along with Gas trains Qty. 02 Nos and boiler Control System (PLC Based HMI with Alarming & Control System) (as per European manufacturer standard). The boiler must fulfill the below mentioned parameters / conditions after execution of scope of work mentioned at “Annex-A”:

- 1.1) Live Steam temperature from Boiler Super Heater must be  $470 \pm 5$  °C no carry over moisture to the super heater should be observed after installation of BMS & PLC Based with HMI Control System.
- 1.2) Boiler must operate at 52 bar.
- 1.3) Boiler must provide at least 75 % steam generation efficiency.

**2. SPECIFICATION FOR BOILER TUBES, SUPER HEATER AND ECONOMIZER TUBES MATERIAL AND BOILER BURNER MANAGEMENT SYSTEM (BMS) INCLUDED GAS BURNERS ALONG WITH GAS TRAINS AND CONTROL SYSTEM (PLC BASED HMI):**

- 2.1) The material should be according to ASME standards, firm will ensure provision of mill trade certificate of boiler tubes, super heater & economizer tubes material. Firm will provide reputable third party quality inspection certificate before delivery of material.
- 2.2) Origin of material : European, USA, Japan
- 2.3) Origin of BMS & Control System : European, USA, Japan
- 2.4) Origin of Valves : European, USA, Japan

**3. SPECIFICATION FOR INSTALLATION & FABRICATION WORK**

- 3.1) All fabrication work (welding, bending and expanding), installation of equipments should be according to requisite ASME standards. Firm will produce the reference (Quality Inspection Certificate) of requisite standard against the fabrication work. Firm should have capability to fulfill ASME standard for execution of boiler refurbishment job. Firm should qualify the following ASME stamps / codes:
  - 3.1.1) A (Assembly of Power Boilers)
  - 3.1.2) PP (Fabrication & Assembly of Pressure Piping)
  - 3.1.3) S (Manufacturing and assembly of Power Boilers)
  - 3.1.4) U (Manufacturing of Pressure Vessels)
  - 3.1.5) U2 (Manufacturing of Pressure Vessels)
- 3.2) Provision of above certification in favor of firm by ASME authorities with tender submission documents is mandatory.
- 3.3) Firm will provide detailed drawing and P&ID diagrams for all scope of work involved.
- 3.4) Firm should have relevant experience / capability for doing the similar refurbishment on boilers of similar capacity.
- 3.5) Firm must have good market reputation and will share the list of similar projects successfully executed in Pakistan

4. **UTILITIES AVAILABLE AT SITE**

The plant must be compatible with the value of following utilities available at site:

- a. Electricity 400 Volts, 50 Hz Three Phases.
- b. Electricity 220 Volts, 50 Hz Single Phases.  $\pm 5\%$  in normal conditions.
- c. Compressed air pressure 6 bar (Max)

5. **CLIMATIC CONDITIONS**

The plant must be able to withstand following climatic conditions

- a. Ambient Temperature: = 1 °C ~ 46 °C
- b. Relative Humidity = 25 ~ 85 %

6. **PRELIMINARY INSPECTION**

Work carried out at firm's premises / workshop shall be inspected jointly by POF and firm's reps before delivery at POF's site.

7. **SOFTWARE**

- 7.1) Complete software back up of PLC and any other electronic item will be provide in soft and hard Form by the firm free of cost.
- 7.2) The software for programming of PLC control system and any other electronic equipment will be provided by firm free of cost.
- 7.3) The firm will provide full access to boiler's Control System & its accessories.

8. **SPARE PARTS**

- 8.1) Firm will provide essential maintenance & operational spares sufficient to run the plant for 02 x years.
- 8.2) List of spares along with specification, model, name of manufacturer to be quoted in technical offer along with service life of each spare. Price of spare will be quoted separately in commercial offer.
- 8.3) Firm will ensure provision of all spares for 10 x years after successful installation.
- 8.4) Provisioning of 01 x PC & large display with redundancy for control system in control room along with UPS, backup operating system.

9. **TRAINING POF PERSONNEL**

- 9.1) Firm will provide free of cost training to POFs personals for operation, troubleshooting and maintenance of the plant and its auxiliaries i.e. PLC system, control system and its software backup upload and download at manufacturer premises for the period of 08 x weeks.
- 9.2) The firm will provide training for calibration of all the equipment installed on the plant and control system access.

10. **TECHNICAL BACK UP SUPPORT**

- 10.1) The supplier / manufacturers should have backup facilities i.e. after sales services, availability of spares, technical staff and proper workshops in Pakistan. Detail of workshop to be provided in technical offer.
- 10.2) The supplier shall confirm that after handing over of the plant, there shall be technical support available for at least 10 years as & when required by the purchaser.

11. **FINAL ACCEPTANCES TEST (FAT)**

- 11.1) Firm will execute the full performance test of plant for 02 x weeks after commissioning at site. During FAT all parameters including capacity quality of performance, output and time cycle will be observed, recorded & ensured as per specifications.
- 11.2) Inspection facilities such as tools, test equipment / testing material etc will be provided by the supplier in accordance with the relevant specification.

12. **DOCUMENTATION**

03x sets of relevant literature / documents in English language, but not limited to the following will be provided by the supplier:

- a) Logic Diagram / electric control / circuit diagram of plant equipment.
- b) Operation and maintenance manual.
- c) List of all spares with complete specifications.

13. **WARRANTY / GUARANTEE**

13.1) 02 x years warranty / guarantee will be provided by the supplier subject to inspection / FAT on receipt. Rejected store will be removed and replaced with new acceptable store by the supplier at his own expense within specified time.

13.2) Any damage or loss to the equipment procured under this contract due to willful faulty design, material workmanship including loss / damage to life and property shall be the responsibility of supplier who shall have to compensate the purchaser according to the consultation and decision of the two parties.

**Recommended Suppliers- PPRA**

- Recommended Manufacturers**
- i. M/s HMC, Taxila
  - ii. M/s industrial Boilers, Gujranwala
  - iii. M/s Descon Engineering, Lahore
  - iv. M/s DDFC (Pvt) Limited, Lahore
  - v. M/s Fabcon Design & Engineering, Lahore
  - vi. M/s Karachi Shipyard Engineering Works, Karachi.