



POF 1262
(FOREIGN SUPPLIES)

GOVERNMENT OF PAKISTAN
PAKISTAN ORDNANCE FACTORIES
TENDER ENQUIRY

To

Dear Sirs,

Reference: Tender Enquiry NO. **POF-5226-FP-Capt (1)-Pur-Gdl DATED 18.02.2020**. Offers 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 1100 hours on **27.03.2020** and must reach at Bid Centre POF Wah Cantt on or before **10:30 hours** on same 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: **POF-5226-FP-Capt (1)-Pur-Gdl, DATED 18.02.2020**
Tender to be opened on: **27.03.2020 on 1100 hrs**

Address as follows:- **Incharge Bid Centre**
Adjacent to Rabita Hall
POF Wah Cantt

- 1.3 If envelop do not indicate reference of TEs or received late, the same will be returned un opened.

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

- 2.1 **For Plant and Machinery**, you are required to quote in two parts:-

Part-I: "Technical Offer" It should exclusively give technical details and literature / brochures of the offered plant, machinery & equipment, validity date, delivery schedule and signed undertaking given on the schedule to this tender enquiry. It must not indicate price, costs etc. Country of origin should be clearly mentioned.

Part-II: "Commercial Offer" It should indicate the commercial terms e.g. price, terms of payment, mode of payment, mode of supply.

Each part should be placed in a separate sealed cover. The envelopes should be inscribed with Part-I "Technical Quotation without price" & Part-II "Commercial Quotation with price".

- 2.2 The quotation must remain valid for, at least 90 days from the date of opening of tenders.

Contd....P/2

- 2.3 The quotation should hold good for any reduced or enhanced quantities without notice.
- 2.4 In the event of non-acceptance of offer, no intimation will be given to the Tenders.
- 2.5 Conditional offers or alternative offers are likely to be ignored.
- 2.6 Quotations should be based on FOB / C&F / FOR. The freight should be indicated separately. Insurance premium should not be included in the quoted price. However, where insurance is considered necessary, advice to that effect should be given in the quotation.
- 2.7 Submission of the offer through an agent in Pakistan should be avoided. In case it is considered inevitable, the agent's quotation must invariably be accompanied by the original Proforma Invoice from the principals/ manufacturers.
- 2.8 Country of origin and port of shipment to be stated.
- 2.9 Supplier will render necessary information regarding hazardous effects on environment, of the materials/products supplied by them along with shipping/ dispatch documents.
- 2.10 The supplier will furnish a declaration regarding Fees, Commission & Brokerage etc payable by the firm along with shipping documents.
- 2.11 If the requisite information is not furnished on the TE form or offer received is not in conformity with the requirement of the TE each offer should be ignored.

3. **Final Acceptance Test**

- 3.1 The commissioning test will be executed at POF Gadwal site and will be jointly witnessed by POF Gadwal and firm's representative.
- 3.2 Commissioning will be accepted as satisfactory after continuous full capacity run for at least 15 days (180 hrs) maintaining the required temperature as per chiller specs.
- 3.3 Boarding, Lodging, inland transportation and food expenses of the firm's experts / technicians will be at their own cost.

4. **INSTALLATION & COMMISSIONING**

- 4.1 Installation & commissioning of chiller & pumps and connectivity with existing networks including all required materials and accessories i.e., MS Seamless pipe BS 40, Flanges, Fitting, Control Valves and Steam Traps will be responsibility of supplier. Make brand and country of origin of control valves and steam traps has to be mentioned. in POF Gadwal shall be responsibility of the supplier.
- 4.2 Thermal insulation of chiller and chilled water lines inside the building will be responsibility of the supplier.

4.3 The supplier shall provide the time schedule to complete the installation, commissioning and trial run.

5. **Training (Local)**

Supplier will arrange 02 x weeks training (Free of Cost) to 06 x POF Gadwal officials regarding operation and maintenance (including electrical and electronics) of chiller and pumps at POF Gadwal site after commissioning.

6. **DOCUMENTATION**

Supplier will have to provide 04 set of operation and maintenance manuals of Chiller, Pumps, Electric Motor and PLC control in English version.

7. **SPARE PARTS**

7.1 OEM recommended essential Mechanical , Electrical and Electronic spare parts must be included in scope of supply for continuous and smooth functioning of chiller for 02 x years (5000 hrs) running maintenance. Item wise price should be quoted separately.

7.2 Supplier has to provide certificate for availability of spares from OME's of chiller for next 10 years after commissioning.

8. **Warranty / Guaranty Certificate**

8.1 Supplier will provide 01 year warranty / guarantee for satisfactory operation of chiller, pumps, motors, electric panel and all other auxiliary parts.

8.2 Warranty / Guarantee Period will start from the date of successful commissioning of chiller. In case of any breakdown of parts under warranty / guarantee, supplier will arrange replacement of defective parts with new one, free of cost.

9. **ACCEPTANCE OF OFFERS**

The right to accept or reject any offer in full or in part is hereby reserved. However, rejection grounds shall be intimated to the bidder.

10. **Payment**

10.1 **Foreign Supplies**

In case of Foreign Suppliers, payment will be made through irrevocable Letter of Credit in following proportion:-

- i. 80% payment will be released against submission of shipping documents.

- ii. 20% payment will be released after receipt, installation, commissioning, successful trial run at POF Gadwal and issuance of FAT Certificate by the consignee.

All Bank charges incurred in Pakistan in connection with the establishment of L.C. will be borne by the Purchaser, whereas all Bank charges incurred in connection with drawing of payment including charges for confirmation of L.C. by the advising Bank/Foreign Bank will be borne by the Supplier.

10.2 **Local Supplies**

In case of local supplier, quoting on FOR Basis, 100% payment will be released after receipt, installation, commissioning and successful trial run of chiller at POF Gadwal.

- i. **Tender Fee**:- The tender must be accompanied by a non-refundable fee by means of a cross postal order / pay order for Rs 500/- in favor of Director Admin POFs Wah Cantt.
- ii. **Bid Money**
 - a) Bid Money at the rate 2% (for registered firms) and 5% (for un-registered firms) of the quoted value should accompany the tender (commercial offer) in shape of Deposit At Call Receipt / pay order / banker's Cheque, from a schedule bank drawn in favor of GM PP&C POF Gdl.

Tender without Bid Money will be rejected.
 - b) Bid Money of the unsuccessful renderers will be returned as soon as the scrutiny of the tender is completed. Bid Money of the successful renderers will be retained until the contract is finalized. Bid Money will be forfeited in case the quotation is withdrawn before the expiry of its validity date.
 - c) State owned organizations are not required to provide Bid Money.

11. **PERFORMANCE BOND**

- a) The successful bidder will provide Performance Bond at the rate up to 10% F.O.B value of contract in favour of the Controller Military Accounts (CMA) POF, Wah Cantt. The Performance Bond will be furnished in the form of Deposit at Call Receipt (CDR) from any scheduled bank in Pakistan or any unconditional Bank Guarantee on prescribed proforma covered by any scheduled bank in Pakistan. The Performance Bond shall be furnished within 45 days from the date of opening of Letter of Credit. It shall be valid for a period of 12 months after the date of expiry of letter of credit.
- (b) No Performance Bond will be required if the total value of the contract is less than US\$ 50,000 and contract is placed directly on the foreign Supplier.

- (c) Local successful bidder shall provide Performance Bond at the rate, prescribed by POF Board according to the value of contract which shall not exceed 10% of contract value, in the form of Deposit At Call Receipt from a schedule bank or an un-conditional Bank Guarantee valid for 12 months after receipt of store at POFs on prescribed format. Performance Bond will in favor of CMA POF Wah Cantt. It will be returned on satisfactory completion of contract / warranty / guarantee period.
- (d) If the supplier fails to furnish the Performance Bank Guarantee within specified time, such failure will constitute a breach of contract and Purchaser shall be entitled to make other arrangements for purchase of the store at the risk and expense of the supplier.

12. **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 contact price of the items and their quantities for each and every month, beyond the specified delivery date, during which these may not be delivered, subject to a maximum of 10% of the total contract value; or, to purchase from elsewhere, the unsupplied stores at the risk and cost of the Supplier.

13. **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, alongwith the specifications, drawings etc, if any, enclosed herewith even if you are unable to quote.

Warning: In case the firm abstain from making offer or fail to return / acknowledge the tender form by the specified date on three occasions no further tender enquiry be issued to them and their name would be liable to be removed from the approved list

Yours faithfully,

(SHAFIQ AHMAD)
G.M-PP&C POF Gdl
For Pakistan Ordnance Factories
mdgdl@pof.gov.pk

PAKISTAN ORDNANCE FACTORIES

SCHEDULE TO TENDER ENQUIRY NO. POF-5226-FP-Capt (1)-Pur-Gdl DATED 18.02.2020

(1) FOR MATERIALS

(2) FOR PLANT & MACHINERY:

(1)	(2)	(3)	(4)	(5)		(6)
Item no.	Description with specs. etc.	Unit	Qty	Price per Unit FOB/C&F/ FOR		Delivery Date
				In Figures	In Words	
1	Single Effect Absorption Liquid Chiller (Steam Operated) Capacity 330± 20 R Ton Spec: As per attached Annex 'A'.	No	01			Urgent

Specifications: - **Attached as Annexure "A"**

(3) Special Conditions. -

- i) Only registered suppliers (with Sales Tax & Income Tax Deptt) who are on Active Tax Payer List (ATL) of FBR are eligible to supply goods/services to Government Departments.
- ii) The Payment to registered persons shall be linked with the Active Tax Payer status of the suppliers as per FBR database. If any registered supplier is not in ATL his payment should be stopped till he files his mandatory returns and appears on ATL of FBR.
- iii) Fax offers, email offers and offers with less Bid Money and without Tender Fee will not be entertained.
- iv) FOB / C&F / FOR prices should be indicated separately.
- v) Foreign Suppliers will provide Eurovent Certificate of Product (chiller).

(4) Undertaking

Should our offer be accepted, we hereby undertake to supply the stores/render the Services contracted on the basis of Conditions of contract embodied in Form POF 1280 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 Signature of the Tenderer.....
Date Name
Position
Address
Income Tax G.I.R. No.....

SPECIFICATIONS FOR PROCUREMENT OF CHILLER-POF GADWAL1. NOMENCLATURE

Single effect absorption liquid chiller (steam operated) Quantity 01 No.

2. Cooling Capacity = 330 ± 20 R Ton
3. Evaporator Data
 - Chilled Water inlet temp = 54°F (12°C)
 - Chilled Water outlet temp = 44°F (7°C)
 - Chilled Water flow rate = as per chiller design
 - Chilled water inlet connection = as per chiller design
 - Chilled water outlet connection = as per chiller design
 - Chilled water pressure = as per chiller design
 - Evaporator Tubes Material = Copper Nickel (90:10)
4. Condenser / Absorber Data
 - Cooling Water inlet temp = 85°F(30°C)
 - Cooling Water outlet temp = 104°F (40°C)
 - Cooling water flow rate = as per chiller design
 - Cooling water inlet connection = as per chiller design
 - Cooling water outlet connection = as per chiller design
 - Cooling water pressure = as per chiller design
 - Condenser, absorber Tubes = Copper Nickel (90:10)
5. Generator Data
 - Saturated steam pressure = 14 PSI
 - Steam flow rate = as per chiller design
 - Steam inlet connection = as per chiller design
 - Steam drain line connection = as per chiller design
 - Generator Tubes Material = Copper Nickel (90:10)

Supplier has to be mentioned about descaling of generator, absorber, condenser tubes and types of descaler to be used
6. Chilled Water Pumps with Electric Motors (02 Nos)

To be designed and offered by the firm
7. Cooling Water Pumps With Electric Motors (02 Nos)

To be designed and offered by the firm

Climate condition

a: Temperature

- i. Winter = -3 to 25 C°
- ii. summer = 30 to 50 C°

b: Relative Humidity

High Humidity period in year = 02 Months (July, August)

9. Electrical Characteristics

400±5% VAC, 50Hz, 3 Phase, 4- wire system

10. Control System

Latest PLC based control system (Preferably SIEMENS) comprising of safety interlock, capacity control and all indications necessary to operate the chiller, chilled water pumps, cooling water pumps and motors in safe and efficient manner as well as to ensure chiller protection and efficient capacity control. The supplier is also bound to provide the following, as part of control system.

- i. Software with license
- ii. Program Backup
- iii. Communication Cables

11. Steam Valve and Pressure Regulator

To be offered by the Firm as per Chiller design.

12. Training (local)

Supplier will arrange 02 x weeks training (Free of Cost) to 06 x POF Gadwal officials regarding operation and maintenance, (including electrical and electronics) of chiller and pumps at POF Gadwal site after commissioning.

13. Installations and Commissioning

- i. Installation of chiller and pumps and connectivity with the existing networks including all required materials and accessories i.e. (MS Seamless pipe BS 40, Flanges, Fitting, control valves and steam traps) will be responsibility of the supplier. Make brand and country of origin of controls valves and stem traps has to be mentioned.
- ii. Thermal insulation of chiller and chilled water lines inside the building will be responsibility of the supplier.
- iii. The supplier shall provide the time schedule to complete the installation, commissioning and trial run.

Final Acceptance Test

The commissioning test will be executed at POF Gadwal site and will be jointly witnessed by POF Gadwal and firm representative.

- ii. Commissioning will be accepted as satisfactory after continuous full capacity run for at least 15 days(180 hrs.) maintaining the required temp. as per chiller specs.
- iii. The firm will borne the expenditure of boarding, lodging and traveling of his personals at his own end.

15. Available Facilities / Infrastructure

a) Utilities available

- Electro voltage = 440/220 volts
- ~~Saturated steam~~ = up to 60 psi pressure
- Compressed air = up to 70 psi pressure
- Water = raw/soft water

b) Cooling Tower

- Capacity = 560 Ton
- Flow = 2000 usGpm
- Inlet Temp = 40 °C
- Outlet Temp = 32 °C

c) Civil work/ building for plant

- Chiller and pumps will be installed in existing building.
- Layout of the existing building is attached as annex 'C'.

16. Compliance Sheet

Suppliers should / must provide point to point compliance sheet against each item of our tender specification.

17. Documentation

- i. Suppliers will provide 04 set of operation and maintenance manuals of Chiller, Pumps, Electric Motor and PLC control in English version.
- ii. Installation drawings and schematic drawings of electrical/ electronic circuits from OEM.

18. Spares Parts

- i. OEM recommended essential Mechanical, Electrical and Electronic spare parts must be included in scope of supply for continuous and smooth functioning of chiller for 02 years(5000 hrs.) running maintenance. Item wise price should be quoted separately.
- ii. The availability of spare parts in open market for a period of 10x years after supply of the chiller.

19. Technical Backup Services / Support

- i. Suppliers should have authorized backup service setup in Pakistan and should be capable to provide backup spare and backup maintenance services.
- ii. Suppliers will share the list/address of installed chiller of same capacity/Model in Pakistan.

20. Warranty/Guarantee

- i. Suppliers will provide 01 years warranty/ guarantee for satisfactory operation of chiller, pumps, motors, electric panel and all other auxiliary parts.
- ii. Warranty / guarantee will start from the date of successful commissioning of chiller. In case of any breakdown of parts under warranty/guarantee, supplier will arrange to replace the defective parts with new one free of cost.

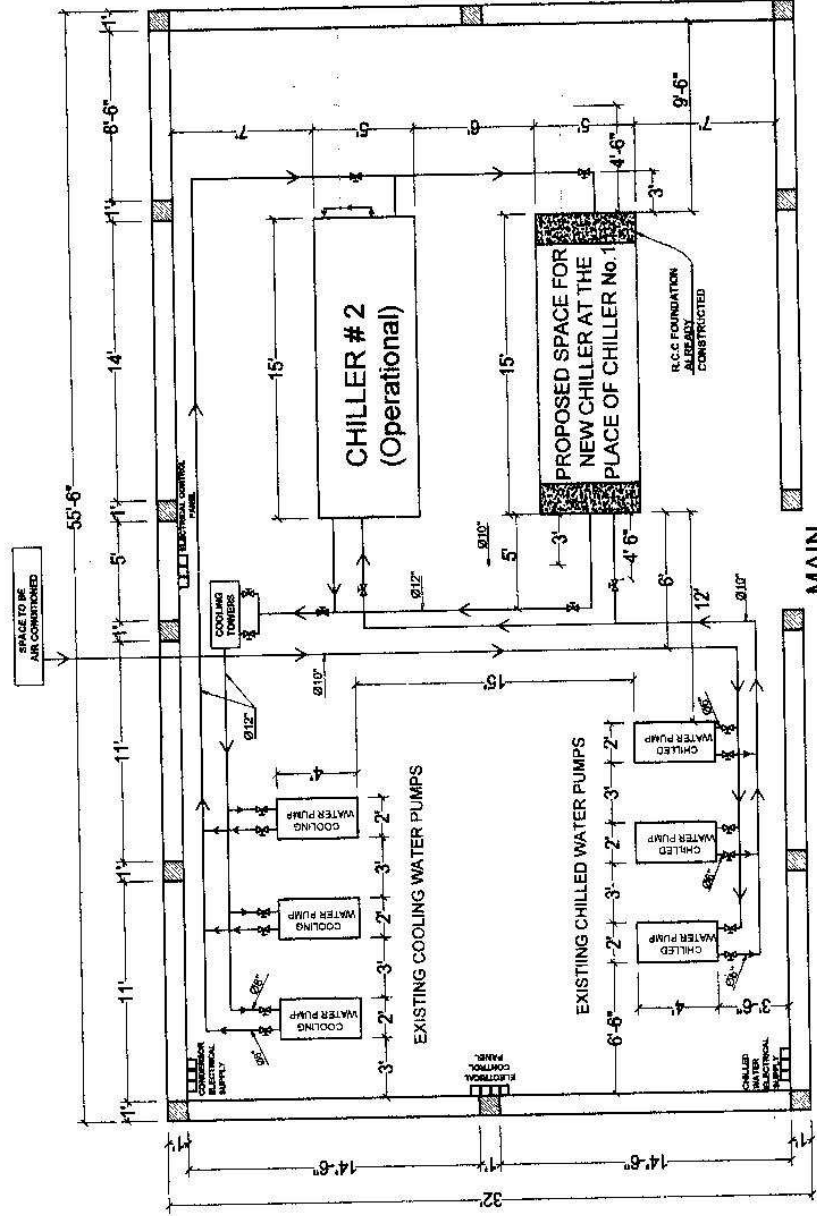
21. Mode of delivery : C & F – Basis

22. Mode of Payment

80% payment against shipping documents.

20% payment after satisfactory performance and successful trial run of the chiller

PROPOSED LAYOUT FOR INSTALLATION OF NEW CHILLER IN AF-16 (CHILLER HOUSE) POF GADWAL



DATE: 05-2018	WEIGHT: POF GADWAL	SCALE: NTS
Prepared By:	Checked By:	Approved By:
TITLE: LAYOUT OF CHILLER HOUSE (AF16)		
DRG. No: GDL/SPR/MISC-666		

EXISTING KEY	
CHILLED WATER SUPPLY LINE	—
COOLING WATER LINE	—
CHILLED WATER RETURN LINE	—
STEAM SUPPLY LINE	—
CONTROL VALVES	⊠