



GOVERNMENT OF PAKISTAN PAKISTAN ORDNANCE FACTORIES TENDER ENQUIRY

To,
M/s. _____

Dear Sirs,

Reference: **TENDER ENQUIRY NO. 0040-HVN-FP-55-CAPT** **DATED: 26-02-2026**

You are requested to submit quotations for the item (s) noted in the Schedule to the Tender. 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 **07-04-2026** and must reach as per address given below on or before **1030** 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: **0040-HVN-FP-55-CAPT** **DATED: 26-02-2026**

Tender to be opened on: **07-04-2026**

Address as follows: - **INCHARGE BID CENTER (Adjacent to Rabta Hall)
PAKISTAN ORDNANCE FACTORIES
WAH CANTT (PAKISTAN)**

1.3 The bids received in factories may not be entertained.

1.4 If envelope does not indicate reference of T.E or received late the same may be returned un-opened by I/C Bid Center.

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

2.1 Case will be processed exactly as per **PPRA Rules 36(b)** in favour of most advantageous bid and single stage two envelope procedure will be utilized for open competitive bidding. The price should be filled in column 4 and delivery date in column 5 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 For Plant and Machinery, you are required to quote in two parts:-

Part I "**TECHNICAL OFFER**" It should exclusively give technical details and literatures / brochures/OEM (Name, Make, Model, etc.) of the offered store, validity date, delivery schedule and signed undertaking given of the schedule to this Tender Enquiry. It must not indicate price, costs etc. Only confirmation regarding submission of Bid Money may be notified with technical proposal.

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**" and Part II "**Commercial Quotation with Price.**"

2.3 The quotation must remain valid for, at least **180 days** from the date of opening of tenders.

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** or **F.O.B**:
- A) **In case of F.O.R Basis Supply:**
- i. 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 HAVELIAN CANTT**
In this case Octori duty will be payable by the supplier.
 - ii. Taxes and Duties etc. where applicable, must be shown separately, quoting reference to Registration No. in case of Sales Tax and relevant authority in the case of others. Offer without these clarifications and inclusive of Taxes and Duties may be ignored.
 - iii. 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.
 - iv. 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.
 - v. Suppliers will render necessary information regarding hazardous effects on environment, of the materials/products supplied by them, in their quotations and shipping/dispatch documents.
 - vi. 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.
 - vii. Payment of duties/Taxes including professional tax (where applicable) must be supported by proof of having paid these to concerned Govt. Taxation Deptt:
 - viii. Date and Stamp of the Postal Order must be visible.
 - xi. The payment to the registered supplier will be linked with the active taxpayer status of the supplier as per FBR database. If any registered supplier is not in ATL his payment would be stopped till he files his mandatory returns and appears on ATL of FBR.
 - x. Status of your firm with POF (Registered/Un-Registered) should be mentioned in your offer.
 - xi. Registered firms are required to provide copy of valid registration letter with POF.
 - xii. a. Only registered suppliers (with Sales Tax & Income Tax deptt) who are on Active Taxpayers List (**ATL**) of FBR are eligible to supply goods/services to Govt. Deptts.
b. The payment to registered persons may be linked with the active taxpayer status of the suppliers as per **FBR** database. If any registered supplier is not in ATL his payment should be stopped till his mandatory returns and appears on **ATL of FBR**.
 - xiii. **TENDER FEE**
The tender must be accompanied by a non-refundable fee by means of a crossed postal order/pay order of **Rs 500/-** in favour of **MD-POF Havelian Cantt**.
- B) **In case of F.O.B Basis Supply:**
- i. The consignment will be shipped through Pakistan National Shipping Corporation (PNSC). In case there is no PNSC service in the country of shipping, please quote on C & F basis. 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.
 - ii. 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.
 - iii. Country of origin and port of shipment to be stated.
 - iv. The offer of principal must clearly indicate whether the rate quoted is inclusive of agent's commission, and if inclusive rate of commission included be specified.
- 2.8. Suppliers will render necessary information regarding hazardous effects on environment, of the materials/products supplied by them, in their quotations and shipping / Dispatch documents.
- 2.9. If the requisite information is not furnished on the T.E form or offer received is not in conformity with the requirement of the T.E such offer shall be ignored.

3. BID MONEY

- 3.1 Registered / indexed firms including foreign firms -2% of quoted value subject to max ceiling of Rs. 0.50 Million.
- 3.2 Registered / un-indexed firms including foreign firms – 3% of quoted value subject to max ceiling of Rs.0.75 Million.
- 3.3 Unregistered firms including foreign firms – 5% of quoted value subject to max ceiling of Rs1.00 million.
- 3.4 Bid Money should accompany the tender in the shape of Call at Deposit Receipt, from a scheduled Bank drawn in favour of:-

M.D. POF HAVELIAN CANTT

- 3.5 Govt. organizations / production units / state owned enterprises / welfare projects of services head quarter – Rs.0.5 Mn can be waived off on request by DG (C)
- 3.6 Tenders received without Bid Money will be rejected.
- 3.7 Bid money will be returned to un-successful (less first three lowest) bidders after opening of commercial offers and approval of competent authority.
- 3.8 Bid money will be returned to successful bidders on submission of performance bond / unconditional B.G.
- 3.9 Bids will be conditionally accepted if Bid Money deposited by firms is less than the given amount. However, the firms will be required to deposit additional amount within 10 x days of opening of Bids.
- 3.10 Offers received without Bid Security shall be ignored.
- 3.11 Bid Money will be forfeited in case the quotation is withdrawn before the expiry of validity.
- 3.12 Bid Money should be attached with Part-II Commercial Quotation, however, **as a proof only CDR No. & date (without indicating value) may be mentioned in Part-I Technical quotation.**

4. INSPECTION

- 4.1 Supplies shall be subject to the inspection and acceptance by the competent inspection authority nominated by the Purchaser. Inspection facilities such as tools, test equipment, instruments etc. will be provided by the Suppliers in accordance with the relevant specifications.
- 4.2. 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.

5. PRE-SHIPMENT INSPECTION (PSI):

- 5.1 PSI will be carried out by 04 x officers/officials (Electrical / Mechanical / Chemical / Instrument) of Buyer's team for a period of 02 weeks.
- 5.2 Supplier is responsible to train 10 x officers / officials (Electrical / Mechanical / Chemical / Instrument) of Buyer's team for a period of 02 weeks.
- 5.3 The supplier shall provide training to POF officials on similar nature of plant at the supplier premises.
- 5.4 All expenditures of the PSI and training teams i.e. boarding, lodging, internal travelling & return air tickets will be borne by the buyer.
- 5.5 Inspection Criteria:
 - a. Inspection of equipment in respect of material of construction, electrical & instrumentation specifications.
 - b. Spares quality and quantity.
 - c. Verification that the equipment conforms to the ordered specifications. The Buyer's team will check the bill of details, assembly protocols and test certificates of the relevant items.
 - d. Examination and testing would be carried out where feasible.
 - e. Certificate of quality and material specification will be provided during inspection of equipment.
 - f. Inspection facilities such as tools, test equipment, instruments etc. will be provided by the supplier in accordance with the relevant specifications.

6. **WARRANTY / GUARANTEE**

- 6.1 The supplier will have to provide warranty / guarantee for a period of one year for the smooth functioning of the unit, including free of cost supply of spare parts as and when required
- 6.2 In case the stores on checking / test after receipt at Consignee's warehouse are found not conforming strictly to the relevant specification and other particulars are found damaged during transit, the Supplier shall Immediately replace the rejected/damaged stores by acceptable stores, free of cost, and without any obligation to the Purchaser. Rejected / damaged stores shall be disposed off by the Supplier under his own arrangements.
- 6.3 The supplier shall warrant the good quality of all equipment supplied against all defects or failures due to faulty design, material, or workmanship
- 6.4 The supplier shall also provide Guarantee for meeting the requisite quality and quantity of products. In case of any deficiency in term of quality or quantity of products, all related expenditure to fulfill commitment shall be borne by the supplier
- 6.5 One-Year Warranty / Guarantee period will be started from the date of satisfactory conclusion of FAT.

7. **ACCEPTANCE OF OFFERS**

- 7.1 The purchaser may reject all bids or proposals at any time prior to the acceptance of a bid or proposals, but is not required to justify grounds for its rejection. The purchaser shall incur no liability towards suppliers or contractors who have submitted bids or proposals.

8. **PERFORMANCE BOND**

8.1 **On F.O.R Basis**

- 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 un-conditional Bank Guarantee **valid for a period of 12 months after the successful final acceptance test of the store** in POFs. 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.
- c) In the event of unsatisfactory performance or any breach of the Contract, Bank Guarantee / Deposit at Call Receipt shall be forfeited by the BUYER. The Bank Guarantee / Deposit at Call Receipt will be returned to the SELLER by M.D-POF Havelian on request after its expiry or after satisfactory performance of the contract whichever is earlier.

8.2 **On F.O.B Basis**

- a) The SELLER will provide a Bank Guarantee to the tune of 10% of FOB value of the contract for satisfactory execution of the order. It shall be covered by any Scheduled Bank in Pakistan. The Bank Guarantee shall be endorsed in favour of CMA POFs Wah Cantt. The Bank Guarantee shall be furnished by the SELLER within **45 days** from the date of opening of letter of credit. The Bank Guarantee will be **valid for a period of 12 months after the successful final acceptance test (trial run) of the store**. If the successful trial run is delayed, the SELLER shall arrange the extension of **Bank Guarantee within 30 days from the date** of amendment of L.C. If the Guarantee is not revalidated, the same is liable to be encashed by the CMA (POFs) Wah Cantt.
- b) If the SELLER fails to furnish the Bank Guarantee within specified period, the BUYER reserves the right to cancel the contract and has the right to purchase the stores at the risk and expenses of the SELLER.

- c) In the event of unsatisfactory performance or any breach of the Contract, Bank Guarantee shall be forfeited by the BUYER. The Bank Guarantee will be returned to the SELLER by M.D-POF-Havelian, on request after its expiry or after satisfactory performance of the contract whichever is earlier.

9. **FAILURE TO SUPPLY STORES**

9.1 The specified delivery period (time and date of delivery / dispatch of stores) is the essence of the contract. All deliveries must be completed by the specified date(s). In failure to deliver stores within the scheduled time shall have arisen from "Force Majeure" which the Purchaser may admit as reasonable ground for further time, he will allow such additional time (without imposing liquidated demurrage) as he may consider to have been required by the circumstances of the case, of which he will be the sole judge and his decision will be final, otherwise he will be entitled at his option:

- a. "In case of unsupplied portion of the contract and unsatisfactory performance, the contract shall be rescinded by forfeiture of security and guarantee by the authority which approved award of the contract".
- b. "To recover liquidated damages when the government competent purchase officers on behalf of the government is satisfied that the failure to supply the stores within the scheduled delivery period has been for reason within the control of the suppliers and or if the government has suffered loss for reasons of belated delivery these liquidated damages if imposed will be recovered up to the rate of 2% but not less than 1% of the value of unsupplied quantity of the items per month or a part of a month for the period exceeding the original delivery period subject to the provision that the total liquidated damages thus leviable will be not exceed 10% of the total contract value of the particular stores which remained unsupplied either in part or in full."

OR

- c. To withhold any payment due to the supplier until the whole of the stores have been supplied and/ or to direct deduction or recover, where considered necessary.

OR

- d. To repurchase from elsewhere, at the risk and expense of the supplier, other articles of the same or similar description as he thinks fit to make good this default to the extent necessary, by canceling the contract, either wholly or for the unsupplied balance and with/ or without intimation to the supplier who shall be liable for any loss which the purchaser may sustain due to repurchase but shall not be entitled to any gain on repurchase.

10. **"FORCE MAJEURE"**

10.1 "Force Majeure" shall mean any event, Act / or other circumstances, not being an event, act or circumstances, under the control of the purchaser or of the supplier. The Supplier shall notify the Purchaser in writing of any such event within 15 days by Fax / Telex / Telegram of its commencement, which is relied upon by the supplier for its failure to comply with its obligation. The Purchaser shall have the right to conduct investigations to satisfy itself about the genuineness of the "Force Majeure" event. Non-availability of raw materials for the manufacture of stores, or of export permit for the export of the contracted stores from the country of its origin, shall not constitute "Force Majeure".

10.2 **FRUSTRATION**

If by reason of "Force Majeure" any consignment shall not be delivered by the due date, then the delivery period may be extended appropriately for the purpose provided the said consignment shall be ready within four calendar months of the stipulated delivery date. If the said consignment shall not be ready after the lapse of four calendar months as aforementioned, then the Purchaser shall have the right to cancel the contract informing the Supplier of the cancellation in writing. This, however, will not apply to consignments already accepted and delivered according to the terms of this contract. The Supplier will not be entitled to any compensation whatsoever as a result of this cancellation.

11. **PAYMENT**

Payment will be made as per following;

11.1 **On F.O.R Basis Supply**

100% payment will be made by the C.M.A (POF) through crossed cheque on receipt, commissioning and Final Acceptance Test of the store on our prescribed bill form supported by receipt voucher on full supply basis.

11.2 **On F.O.B Basis Supply**

- a) 70% Payment will be released against presentation of shipping documents and acceptance certificate issued by PSI team.
- b) Balance 30% payment will be released against the final acceptance certificate, duly signed by the buyer.

12. **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.

13. **ARBITRATION**

All matters of dispute or difference, except regarding rejection of stores by the inspector and/ or cancellation of the contract be the purchaser arising out of this agreement between the parties hereto, the settlement of which is not otherwise specially provided for in the agreement, shall be referred for adjudication to two arbitrators, one to be nominated by each party, who before entering upon the reference shall appoint an umpire by mutual agreement and if they do not agree a judge of the superior Court shall appoint the umpire, the arbitration proceedings shall be held in Pakistan and under Pakistan law. The arbitration award shall be un-spoken.

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 liable to be removed from the approved list.

Yours Faithfully

MANAGING – DIRECTOR
PAKISTAN ORDNANCE FACTORIES

Tel: +92-992-810001,3 Ext. 28257, 28614

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PAKISTAN ORDNANCE FACTORIES**Schedule to T.E No.0040-HVN-FP-55-CAPT, Dated: 26-02-2026****(1) For Plant and Machinery.**

Sr.#	Description with Spec etc.	A/U	Qty	Price Rs.		Delivery Date
				In Figures	In Words	
1.	➤ Price of De-Nitration Plant	Complete Unit				
	➤ Price of Absorption unit					
	➤ Price of Related auxiliary units					
	Price of documentation.					
	Item wise price of the spares.					
	Price of Installation / Commissioning + FAT					
	Freight Charges					
	Total Price.					

Technical Evaluation Criteria

- The offered product will be technically evaluated on the basis of attached Annex-A.
- Technical quotation may be supported with literature/brochure.
- Attached Annex-B may be filled and signed/stamped.

2) For Plant & Machinery Specification} **Annex-A (Attached)****3) Special Conditions:**

- Quotation submitted on Schedule to T.E must be signed / stamped.
- Quotation Strictly according to our requirement, specification and TE term and conditions. Quote all parameter of specification and the bid being technically deviated from any parameter of the specification shall be out-rightly rejected.
- Store will be supplied in standard packing.
- Basic Price and Sales Tax should be quoted separately.
- Offer should only be forwarded if the supplier has authorization / Export permit for export of store.
- All Chinese and Hong Kong based firms must quote rates in RMB (Chinese Yuan) and rates in other currency will not be entertained.
- Suppliers are required to sign **Annexure-C** attached to this TE document regarding Declaration of Fees, Commissions, and Brokerage etc, paid or intended to be paid by them of Goods, Services and Works in case of exceeding more than US\$ 50,000 (or its equivalent in other foreign currencies) in value
- Fax/E-Mail offer will not be entertained.

ix. Compliance sheet (point-to-point comparison) to T.E is also essentially required as per following format:

Sr. No.	POF Specification (Annex-A)	Firm's Remarks/Offer
1.		

(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 Tenderer _____

Name _____

Position _____

Address _____

Income Tax G.I.R. No _____

Official Stamp _____

Specifications of Required Store**1. NOMENCLATURE**

- a. Continuous De-Nitration Plant for processing of Spent acid (generated from Nitrocellulose and Nitroglycerine Production Plants) along with facility for concentration of Nitric Acid and Sulfuric Acid.
- b. Absorption unit for treatment of gaseous emissions.
- c. Related auxiliary units i.e. instrument air unit, water softening unit, cooling water & chilled water unit.

2. FEED SPECIFICATIONS:

Feed rate= 25 M.Ton/day (250 working days/year)

Spent Acid from Propellant cycle with composition as per following:

Sr #	Description	Range
i.	H ₂ SO ₄	50-70 %
ii.	HNO ₃	10-25 %
iii.	Nitro Glycerin (NG)	Up to 3%
iv.	Nitro Cellulose (NC)	Up to 3%
v.	H ₂ O	Balance

3. PRODUCT SPECIFICATIONS:**a. Nitric Acid Concentration (NAC): ≥ 4 M.Ton / Day**

Sr#	Description	Range
i.	Concentrated Nitric acid	98.5% Minimum
ii.	Nitrous acid	0.01% Maximum
iii.	Water	Balance

b. Sulphuric acid Concentration Unit (SAC Unit): ≥ 13 M.Ton / Day

Sr#	Description	Range
i.	Sulphuric acid	96% Minimum
ii.	Nitric acid / Nitrous acid	0.01% Maximum
iii.	Nitro bodies	100 ppm Maximum
iv.	Water	Balance

4. ABSORPTION SYSTEM:

- i. Separate absorption system with following specification:
 - a. Nitric Acid Concentration = 50% Minimum
 - b. Temperature = 40 °C Maximum
- ii. Effluent Gas:
 - a. NO_x : ≤ 350ppm
 - b. SO_x : ≤ 100ppm
 - c. Air : Balance
 - d. Temperature : ≤ 50 C

5. INSIDE WORKING AREA

(NO_x / SO_x limit) : ≤ 30 ppm

6. SCOPE OF SUPPLY:**6.1 HARDWARE (MECHANICAL, ELECTRICAL):**

- i. All process equipment along with accessories to obtain products in the quantity and quality as mentioned at clause # 3 & 4 and to ensure gaseous emissions as per limits mentioned in clause # 4 & 5, by using the feed as mentioned at clause #2.
- ii. Necessary equipment for removal of Nitro bodies present in the feed.
- iii. All pumps and blowers (one installed standby against each) complete with electric motor, soft starter, VFD & thermal protection of motors (wherever required) along with all other necessary protections.
- iv. All utilities and safety equipment for smooth and safe production activities in an environmental friendly manner.
- v. Complete Instrument air system including air compressors, oil & moisture separators, chillers and dryers (one standby against each installed) with accumulator to supply quality air to instruments as per ISA standards and minimum dew point of -30 °C (minimum). SS Piping for Instrument Air to be supplied.
- vi. Soft water unit, Chilled and Cooling water system of suitable capacity fulfilling the process requirement.

- vii. Supply of all Electrical and Instrument cables (compatible with acidic environment), cable trays along-with covers and mounting accessories.
- viii. Cables should be in proper conduit where required to avoid any damage due to acidic environment.
- ix. Start / stop stations with volt & ampere meters for motors.
- x. Compatible erection materials including all pre-fabricated supporting steel structure with ladders for plant equipment.
- xi. All mounting and assembly materials, pipelines and services such as steam, air, water, electrical equipment and trenches.
- xii. All accessories for Control room & Motor Control Circuit cabinets.
- xiii. All types of valves (including reducing, relief and safety valves), interconnecting piping network, fittings, gaskets, couplings, nuts/ bolts and flanges etc. for all inputs and outputs required for erection of complete plant and related auxiliary unit.
- xiv. All Electrical Motors / equipment to be installed in hazardous area shall be conforming to Rating IP-65.
- xv. All consumable items including welding electrodes & gases required during installation and commissioning of plant. Furthermore, all Oils, Lubricants and gases for first fill and sufficient for one year. Brands available in Pakistan market to be used.
- xvi. Environment friendly Insulation of Pipes, fittings and equipment.
- xvii. For emergency shutdown of machine/unit, a suitable emergency shutdown system shall be provided to switch off machine/unit immediately without effecting any other operation.
- xviii. Illumination system compatible with acid environment for all buildings inside battery limit.
- xix. Complete Earthing system, Lightning arrestors & static charge protection equipment for buildings, plant & machinery.
- xx. Air-Conditioning system for control panel.
- xxi. Overhead crane for equipment installation and future maintenance as per requirement.
- xxii. Material of construction of all the equipment, machines and items shall be compatible with the relevant media and working environment.
- xxiii. Wireless communication system for control room and plant.

6.2 INSTRUMENTATION AND CONTROL SYSTEM:

- i. Plant shall be equipped with complete PLC system along-with redundancy at the level of Controller, Power Supply and Communication for control & monitoring to allow remote process control.
- ii. Monitoring & recording of all process parameters to be provided at central station.
- iii. All field instruments and electrical equipment shall be IP-65.
- iv. Auto & manual control system shall be provided for all processes in the production line.
- v. Complete support in Professional version software and hardware interfaces required at any level of application for field development, programming, troubleshooting of PLC, VFDs, soft starters, controllers, sensors & calibration of all instruments, etc. to be included in the supply along with CD Keys & all level passwords. Life time license for POFs and software up-gradation facility in CD / DVD formats with activation.
- vi. All measuring instruments span values, alarm points and any correction factor if applied will be documented and handed over to Buyer.
- vii. All initial parameters for setting of all control devices will be documented and handed over to Buyer.
- viii. The PLC shall be programmed in Ladder or FBD in English language at all levels.
- ix. All Software (English language) provided by the firm shall be fully supported (life time) for online up-gradation, maintenance and trouble shooting.
- x. Safety interlocks as per safe process requirement.

6.3 SPARES:

- i. 02 years' spares recommended by the OEM shall be supplied.
- ii. In addition, following spares shall also be included in scope of supply:
 - a) **Mechanical:**
 - Valves
 - 01 against each 04 installed and 01 against each type in case installed quantity is less than 04 shall be included.
 - Bearings and Gaskets:
 - 01 against each 04 installed and 01 against each type in case installed quantity is less than 04 shall be included
 - Pumps and Blowers:

- 01 Impeller, 01 set of bearings and 01 set of mechanical seals against each 02 installed.
- b) **Electrical:**
- Starters VFDs, Soft starters, Encoders, Sensors,
 - 01 against 04 installed and 01 against each type in case installed quantity is less than 04 shall be included
- c) **Instruments:**
- At least one against each installed and for multiple similar equipment of same type minimum one against every 04 installed
- d) **PLC:**
- At least one against each installed type of I/O modules, Power Supply Units and all communication modules etc. and for multiple similar equipment of same type minimum one against every 04 installed.
- e) **Services:**
- Recommended spares for instrument air unit, soft water unit, chiller unit & utility pumps.

6.4 INSTALLATION TOOLS:

- i. 02 x Tool Kits comprising of all essential tools required for installation and maintenance of mechanical equipment.
- ii. 02 x Tool Kits comprising of all essential tools, master calibration and test equipment required for erection, maintenance, calibration and programming of electrical and instruments equipment.

7. BUYER RESPONSIBILITY

- i. Execution of civil works according to workshops drawings provided by supplier.
- ii. Provisioning of raw materials (as per clause # 2) for commissioning and FAT of the plant.
- iii. Provisioning of Steam and Raw Water up to battery limit. However, electricity will be provided by buyer up to main electrical panel supplied and installed by the supplier.

8. BATTERY LIMIT:

Battery limit means one meter outside the wall of the building up to which the buyer will provide the required utilities / services. The buyer will ensure to terminate all pipes with flanges at Zero level of each building.

9. TECHNICAL SUPPORT

Provision of all spares must be guaranteed by the supplier against payment for period of 15 years after successful trial run of the plant on as & when required by the buyer.

10. DOCUMENTATION:

The supplier shall provide following documents (04x sets each in English language) in hard and soft form:

- i. Detailed Drawings & Specifications of Plant & Equipment and utilities unit.
- ii. P & I Drawings, Equipment Layout and Schematic Diagrams.
- iii. Complete layout showing safety installations, electrical installations, utilities and temperature controlling system.
- iv. Detailed Erection drawings.
- v. Production process instruction manuals for sequence wise start up and shut down of the equipment and processes.
- vi. Maintenance, services and troubleshooting manuals.
- vii. Complete safety manuals for all operations and production processes including process flow sheet with material and energy balance.
- viii. Manufacturing drawing for the fast wearing parts.
- ix. Assembling/disassembling drawings.
- x. The supplier shall indicate clearly, the consumption of raw materials, labour and utilities per M. Ton of finished product.
- xi. List of spares and fast wearing parts along with ordering codes and detail of Manufacturer / supplier.
- xii. Configuration, programming and calibration manuals.
- xiii. All programs and configurations fed to any instrument, VFD / soft starter and PLC will be supplied in soft and hard copy on Flash Drive/ DVD with no restrictions / passwords.
- xiv. All engineering details, data and tables involved in calibration and process calculations should be provided.

- xv. OEM documents and calibration certificates should be provided for all instruments.
- xvi. Detailed Civil Engineering Design and final civil construction drawings (workshop Drawings) of the buildings including Foundation Plans with Load Values for the equipment to be installed.
- xvii. Specifications of materials not included in the supplies but necessary for integration of the offered plant/ equipment.
- xviii. Utilities consumption per M.Ton of spent acid processed.
- xix. Supplier shall provide the total area required for plant and related auxiliary units in its technical offer.
- xx. Total electrical load detail of entire plant shall be provided by supplier in technical offer.
- xxi. List of similar equipment installed by firm in Pakistan / abroad must be endorsed for reference.

11. INSTALLATION AND COMMISSIONING:

- i. Buyer’s personnel shall install the plant and related auxiliary units under the supervision of Seller’s experts. Buyer will provide required work force (maximum 20 x officials of different trades) on as and when required basis for project execution. supplier will share the plan and requirement of workforce on monthly basis in advance.
- ii. The plant will be commissioned by supplier’s engineers. Buyer shall provide the required number of operators / technicians for the commissioning. Maximum 20 x officials / operators of POF of different trade may be available for project commissioning / trial run according to mutually agreed plan.
- iii. All expenses including boarding, lodging, traveling and daily allowance of the supplier’s engineers / technicians shall be borne by the supplier.
- iv. The supplier shall provide the time schedule for completion of the project indicating each activity vis-à-vis time. The project completion time shall be 18 months after establishment of letter of credit.
- v. Supplier shall provide complete civil workshop drawings along with BOQs within 45 days after opening of letter of credit.
- vi. The supplier shall provide the consumables required for installation and commissioning. The supplier will provide details / list of all required consumables.
- vii. The supplier shall replenish the quantity of spares used during installation, commissioning and FAT and till completion of Warranty/Guarantee period.

12. CLIMATIC CONDITIONS AT SITE

• Ambient Temperature	=	-2°C ~ 46° C
• Relative Humidity	=	25 ~ 85 %
• Earthquake value	=	7.5 Richter scale

13. UTILITIES AVAILABLE AT SITE:

- Following utilities are available at site:
- Electricity 400 Volts ±5%, 50 Hz Three Phases.
 - Electricity 230 Volts ±5%, 50 Hz Single Phases.
 - Raw water (with 2bar pressure).
 - Saturated Steam 6 bar.

14. FINAL ACCEPTANCE TEST (FAT):

- i. On successful installation and commissioning of the Plant, supplier will ensure to achieve product in quantity and quality as per details given at clause# 3,4 & 5 of the specifications by using the feed as mentioned at clause #2. Final acceptance test of the plant shall be based on continuous plant operation for a period of 10 working days uninterrupted.
- ii. In case of any deficiency in term of quantity & quality of products (Mentioned in specification), all related expenditures to fulfill the commitment shall be borne by the supplier.

Note: Kindly mention total covered area of proposed plant in offered technical proposal.

SUPPLIER'S CAPABILITY

1. NAME OF THE FIRM: _____
ADDRESS: _____

1.1 - TELE:NO: _____
1.2- FAX NO: _____
1.3- E.MAIL ADDRESS: _____

2. WHETHER PUBLIC LTD, PRIVATE LTD, PARTNERSHIP
OR SOLE PROPRIETORSHIP: _____

3. ESTABLISHED SINCE: _____

4. CAPACITY: (Manufacturer / Stockist/Agent to foreign Firm): _____

5. IF MANUFACTURER, PROVIDE FOLLOWING DETAILS:

5.1- RANGE OF PRODUCTS MANUFACTURED: _____

5.2- DETAIL OF PLANTS, MACHINERY AND MAJOR EQUIPMENTS:
(Attach separate sheet if required):

6. INSPECTION/QUALITY ASSURANCE FACILITIES: _____

7. ISO-9000 CERTIFIED IF SO ATTACH NECESSARY DOCUMENTS

8. IF STOCKIST, PROVIDE FOLLOWING:-

8.1- DETAILS OF STOCKS HELD: - _____

8.2- APPROX. STOCK VALUE _____

8.3- LOCATION OF STOCKS: _____

ORGANISATIONAL DETAILS.

9. WHETHER THE FIRM IS REGISTERED WITH THE FOLLOWING DEPTTS.
(Give registration No., Date and attach copies of the necessary documents).

9.1 DP/ARMY OR ANY GOVT./SEMI GOVT. DEPTT: _____

9.2- IMPORT TRADE CONTROL DEPTT: _____

9.3- SALES TAX DEPTT: _____

9.4- INCOME TAX DEPTT: _____

FINANCIAL STATUS: _____

(Bank certificate to be attached)

Signature _____

Name: _____

Position: _____

Stamp



**DECLARATION OF FEES, COMMISSIONS AND BROKERAGE ETC;
PAYABLE BY THE SUPPLIERS OF GOODS, SERVICE AND WORKS**

1. M/s. ----- [The Seller /Supplier) I hereby declares its intention not to obtain or induce the procurement of any contract, right, interest, privilege or other obligation or benefit from Government of Pakistan or any administrative subdivision or agency thereof or any other entity owned or controlled by it (GoP) through any corrupt business practice.
2. Without limiting the generality of the foregoing,[the Seller/Supplier] represents and warrants that it has fully declared the brokerage, commission, fees etc. paid or payable to anyone and not given or agreed to give and shall not agree to give to anyone within or outside Pakistan either directly or indirectly through any natural or juridical person, including its affiliate, agent, associate, broker, consultant, director, promoter, shareholder, sponsor or subsidiary, any commission gratification, bribe, finder's fee or kickback, whether described as consultation fee or otherwise, with the object of obtaining or inducing the procurement of a contract, right, interest, privilege or other obligation or benefit in whatsoever from GoP, except that which has been expressly declared pursuant hereto.
3. [The Seller/Supplier] certified that it has made and will make full disclosure of all agreements and arrangements with all persons in respect of or related to the transaction with GoP and has not taken any action or will not take any action to circumvent the above declaration, representation or warranty.
4. [The Seller/Supplier] accepts full responsibility and strict liability for making any false declaration, not making full disclosure, misrepresenting facts or taking any action likely to defeat the purpose of this declaration, representation and warranty. It agrees that any contract, right, interest, privilege or other obligation or benefit obtained or procured as aforesaid shall, without prejudice to any other rights and remedies available to GoP under any law, contract or other instrument, be voidable at the option of GoP.
5. Not with standing any rights and remedies exercised by GoP in this regard, [the Seller/Supplier] agrees to indemnify GoP for any loss or damage incurred by it on account of its corrupt business practices and further pay compensation to GoP in an amount equivalent to ten times the sum of any commission, gratification, bribe, finder's fee or kickback given by [the Seller/Supplier] as aforesaid for the purpose of obtaining or inducing the procurement of any contract, right, interest, privilege or other obligation or benefit in whatsoever from GOP.

SIGN_____

SEAL_____