



GOVERNMENT OF PAKISTAN PAKISTAN ORDNANCE FACTORIES TENDER ENQUIRY

To,
M/s. _____

Dear Sirs,

Reference: **TENDER ENQUIRY NO. 0027-HVN-FP-CAPT** **DATED: 15-08-2024**

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 **01-10-2024 extended upto 15-10-2024** 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: **0027-HVN-FP-CAPT** **DATED: 15-08-2024**

Tender to be opened on: **01-10-2024 extended upto 15-10-2024**

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.

The commercial offer shall include;

- Price of Diethyl Ether Production Unit:
- Price of Adsorption Unit for Ether & Alcohol Vapors Recovery:
- Price of Alcohol Rectification Unit:
- Price of Spares.
- Price of documentation.

- Item wise price of the spares.
- Price of Pre-Shipment Inspection.
- Total Price.

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 **120 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 The PSI team comprising of 04 officers/officials will perform Pre-Shipment Inspection of the store for a period of 02 weeks. Moreover, supplier will also train 08 officers/officials of buyer on the plant of similar production at the supplier's premises for the period of 03 weeks. Air Tickets, Boarding, Lodging and Inland Travelling expenses will be borne by supplier.
- 5.2. During the stay of supplier engineers at Buyer's work site they will be required to train the concerned maintenance, instrument and production personnel of the purchaser.
- 5.3. **Scope of PSI:** The team will inspect the unit in respect of material of construction, electrical & instrumentation specifications, spares quality / quantity. Test certificates of items integrated in the unit. Shipment of store shall be undertaken after acceptance / authorization by PSI team.
- 5.4 Cost of PSI & Training will be borne by purchaser.
- 5.5 In case PSI is not concluded due to any reason on part of supplier, the PSI will again be carried out on risk and cost of supplier.

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. With PSI

- i. 80% Payment will be released against presentation of shipping documents and acceptance certificate issued by PSI team.
- ii. Balance 20% payment will be released against the final acceptance certificate, duly signed by the buyer.

b. Without PSI

- i. 50% Payment will be released against presentation of shipping documents and verification of 3rd party certificates and acceptance accordingly.
- ii. 30% payment will be released on receipt / inspection of complete store in buyer premises.
- iii. 20% 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
Fax: +92-992-810318, E-mail: mdhvn@pof.gov.pk

PAKISTAN ORDNANCE FACTORIES
Schedule to T.E No.0027-HVN-FP-CAPT, Dated: 15-08-2024

(1) For Plant and Machinery.

Sr.#	Description with Spec etc.	A/U	Qty	Price Rs.		Delivery Date
				In Figures	In Words	
1.	➤ Price of Diethyl Ether Production Unit:	Complete Unit				
	➤ Price of Adsorption Unit for Ether & Alcohol Vapors Recovery:					
	➤ Price of Alcohol Rectification Unit:					
	Price of documentation.					
	Item wise price of the spares.					
	Price of Pre-Shipment Inspection.					
	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** : Diethyl Ether manufacturing plant along with Alcohol Rectification & Adsorption unit for Diethyl Ether & Ethyl Alcohol vapors recovery.
(Qty: Complete Unit)

2. **Main Equipment:**

2a. **Diethyl Ether Production Unit:**

The plant will be used for manufacturing of Diethyl Ether from Ethyl Alcohol and for treating recovered Diethyl Ether supplied from Recovery Unit (Adsorbers).

- Required Plant Capacity : 3,000 Liters / day
- Feed : Ethyl Alcohol (96% V/V)
- Product Specification limits:
 - Specific Gravity 15/15 °C : 0.720 to 0.725
 - Aldehyde : No reaction up to 60 Minutes
 - Peroxide : No reaction up to 15 Minutes
 - Acidity : Max 0.006% (calculated as Acetic Acid)
 - Water : 01% Max by weight
 - Sulphur content : No reaction with Hg
 - Appearance : Clear, colorless, free from mechanical impurities

2b. **Adsorption Unit for Ether & Alcohol Vapors Recovery:**

- i. Unit will be used for the recovery of Diethyl Ether and Ethyl Alcohol vapors evacuated from different process buildings.
- ii. Feed: Max 80 kg/hr of solvent (Ethyl Alcohol & Diethyl Ether vapors).

2c. **Alcohol Rectification Unit:**

- i. The unit will be used for rectification / concentration of weak alcohol received from different process buildings.
 - Feed : Weak Alcohol (45% Approx.) containing water, traces of dispersed NC & 2-3% Diethyl Ether.
 - Capacity output: 250-350 Liters / hour of Rectified Alcohol.
 - Product Specification limits
 - Sp.Gr @ 20 °C : 0.81173 max
 - Color : 15 Hazen units
 - Appearance : Must be clear
 - Strength by volume : Min 95 %
 - Acidity : Max 50 ppm
 - Aldehydes & Ketones : Max 0.10%
 - Residue on evaporation : Max 100 ppm
 - Miscibility with H₂O : No opalescence

3. **SCOPE OF SUPPLY:**

Hardware (Mechanical, Electrical & Civil):

The following hardware should be included in the supply: -

- 3.1 Plant should have acid resistant & corrosion resistant material where required.

- 3.2 All the electrical motors should be intrinsically safe, flame proof and conform to IP65 rating in explosive area.
- 3.3 Process, utilities and safety equipment for installation, commissioning and smooth production within the battery limit.
- 3.4 All transfer & feed pumps should be two in numbers (one operational and one installed standby) with motor starter (soft starter system or VFD) along with necessary protection.
- 3.5 Control panel including stop & start stations with Ampere meter for all motors to operate separately.
- 3.6 Suitable cable trays for power and instrumentation and mounting accessories.
- 3.7 Erection material e.g. all prefabricated supporting steel structure for plant equipment, and machinery including pipe line for services such as steam, air, water, electrical equipment, within battery limit.
- 3.8 All valves, interconnecting pipe, fitting, gas kits, couplings, nut, bolts and flanges for input and output within the battery limit.
- 3.9 All reducing and relief valves within the battery limit.
- 3.10 General civil works of the building will be carried out by the buyer according to the civil engineering design provided by the supplier. However, unit supports structure will be provided by the supplier. The supplier should provide structural & architectural design along with complete civil working drawings ready for construction within 45 days of placing the contract.
- 3.11 Instruments air filter, dryers, oil and moisture separators of suitable capacity to supply quality air for instruments if required. Air compressor unit along with relevant accessories be included in case of pneumatic operation of equipment.
- 3.12 Refrigeration unit along with necessary fittings for the plants be provided in the scope of supply
- 3.13 Consumables required during installation and commissioning of plants.
- 3.14 Any other special mechanical, electrical & instrument items which are not mentioned in the TE but essential for successful installation, commissioning and trial run must be included in the scope of supply.
- 3.15 Cables for electrical and instrument installation.
- 3.16 The supplier is required to supply soft copy and hard copy of software. Supplier shall also provide schematics of interface module.
- 3.17 Complete flame proof illumination system along with all accessories e.g. conduits, saddles, junction boxes, lights, wiring cables, switch boards, DBs etc.
- 3.18 Lighting arrestor & earthing material along with complete accessories for inside /outside the building.
- 3.19 Controlling & indicating instruments for the temperature and level control of storage tanks.
- 3.20 Suitable fire protection system if required.
- 3.21 Overhead Crane, Hoist along with accessories shall be provided for installation and future maintenance.
- 3.22 ID fan, FD fan or Blower for fume suction should be two in numbers (one operational and one installed standby) with motor along with necessary protection.

4. INSTRUMENTATION AND CONTROL SYSTEM

- 4.1 The plant should be equipped with latest PLC system along with redundant CPU to allow remote process control with record of all essential process parameters. PLC & HMI shall be duly programmed according to final approved configurations for successful plant operation.
- 4.2 The plant should also be equipped with manual controls for emergency use.

- 4.3 All instruments to be installed should be supplied with relevant OEM (original equipment manufacturer) documents in English language.
- 4.4 All programs, passwords and configurations fed to any programmable PLC, HMI, field sensors and transmitters will be handed over to purchaser with life time subscription.
- 4.5 Special Tools required for the erection and commissioning of the automation and control equipment must be included in supply and their cost should be quoted separately.

5. SPARES

- 5.1 02 years necessary mechanical, electrical and instruments spares should be included with item wise price.

6. GENERAL CONDITIONS

- 6.1 All components/parts of entire unit should conform safe operation in hazardous /explosive environment.
- 6.2 For emergency shutdown of machine/unit, a suitable emergency shutdown system shall be provided to switch off machine/unit immediately without affecting any other operation.
- 6.3 Power cut off emergency switches at exit doors of unit/Electrical Panel room and Central Control room.
- 6.4 List of similar equipment installed by firm in Pakistan / abroad must be endorsed for reference.
- 6.5 Supplier should provide detailed technical specifications and technical brochure of manufacturer with complete details and other relevant performance curves drawings etc. along with technical offer.

7. CLIMATIC CONDITIONS

Temperature Range	=	-3 °C to 50°C
Atmospheric relative humidity	=	25 to 100 %

8. AVAILABLE UTILITIES:

Following utilities are available at site;
Electricity 400V ± 5% 50 Hz, Three Phase
Electricity 220V ± 5%, 50 Hz, Single Phase
Raw Water at 3 bar (g)
Steam at 6 bar (g) pressure

9. DOCUMENTATION:

The supplier will provide relative technical data (4 copies each in English language) including the following:

- 9.1 Detailed drawing and specification of the equipment.
- 9.2 Equipment layout and schematic diagram.
- 9.3 Detailed civil engineering design and drawing of the building ready for construction (workshop drawing).
- 9.4 Foundation plans, with load values for the equipment to be installed.
- 9.5 Detailed erection drawings.
- 9.6 Detailed Electrical and Instrument connection diagram along-with electrical load detail of all equipment.
- 9.7 Maintenance, services and troubleshooting manual of the plant.
- 9.8 Complete safety manual for all operations and production process.

- 9.9 Production process instruction manuals for sequence wise startup & shutdown of the equipment and process.
- 9.10 Operator manual for all equipment.
- 9.11 Configuration, programming and calibration manual.
- 9.12 All engineering details, data table involved in calibration process/ calculation should be provided.
- 9.13 All the programs, configuration, set points, Spans fed / programmed to PLC and any programmable or other instrument & equipment will be handed over to buyer in hard and soft copies.
- 9.14 Detailed Mass & Energy Balance manual.
- 9.15 P & I drawings.
- 9.16 List of plant machinery and equipment with description of construction material.
- 9.17 List of measuring and control instruments.
- 9.18 List of consumables required during installation and commissioning of plant.

10. INSTALLATION, COMMISSIONING, TRIAL RUN & FINAL ACCEPTANCE TEST

- 10.1 After successful installation of equipment commissioning will be carried out by supplier engineers. Purchaser shall provide the required number of operators & technicians for the installation, commissioning & trial run.
- 10.2 The purchaser personnel under the working supervision of the supplier's engineer & technicians shall erect the unit and all other equipment.
- 10.3 The machinery will be commissioned and trial production will be carried out by supplier's engineers. Purchaser shall provide the required number of operators & technicians for the installation, commissioning & trial production.
- 10.4 The supplier should indicate the total man-weeks of his engineers / technicians required for the installation, commissioning and trial run of the machinery. The supplier will also indicate required number of operators and technicians from buyer. All expenses including boarding, lodging, traveling & daily allowances of the supplier's engineers / technicians are to be borne by the supplier. However local transport will be arranged by the purchaser.
- 10.5 It shall be guaranteed that spares shall be available for at least 15 years after FAT of the plant.
- 10.6 The supplier shall provide the time schedule for completion of the project. The completion of the project may not exceed 15 months after opening of letter of credit.
- 10.7 **FINAL ACCEPTANCE TEST (FAT):** Trial run (Quantitative & Qualitative) of the Diethyl Ether manufacturing plant along with Alcohol Rectification & Adsorption unit for Ether/Alcohol vapors recovery will be based on successful operation of continuous 10 working days. In case of any deficiency and discrepancy in term of quantity & quality of products (Mentioned in specification), all related expenditures to fulfill the contracted commitment shall be borne by the supplier.

11. BATTERY LIMIT:

Battery limit means one meter outside the wall of the building at ground level up to which the purchaser will provide the required utilities / services.

12. TRAINING (ON SITE):

During the stay of supplier engineers at purchaser work site, they will be required to train the concerned maintenance, instrument and production personnel of the purchaser. Air Tickets, Boarding, Lodging, Daily allowance and Inland Travelling expenses will be borne by supplier

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_____