



Environmental Protection Agency  
Environment Department  
Govt. of Khyber Pakhtunkhwa

3<sup>rd</sup> Floor, Old Courts Building, Khyber Road,  
Peshawar Cantt Telephone: 92 (91) 9210263, Fax:  
92 (91) 9210280

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## **Request for Proposals (RFP)**

**for the Purchase of**

**Equipments / Items under the**

**Project**

**“SHIFTING OF EPA LABORATORY TO PAKISTAN FOREST  
INSTITUTE AND ESTABLISHMENT OF 3 REGIONAL  
LABORATORIES AT ABBOTABAD, MINGORA AND D.I  
KHAN”**

**Department  
Govt. of Khyber  
Pakhtunkhwa**

## **TENDER NOTICE**

Sealed tenders for each item (separately) are invited from reputed registered manufacturers/ authorized dealers/firms for the supply of following lab items as per specification/conditions below.

<b>S.No</b>	<b>Description of Item</b>
1	Digital water flow meter.
2	Hallow cathode Lamps for Atomic Absorption Spectrophotometer for Perkin Elmer PinAAcle 900
3	Water Deionization plant for 5 lit/hr.
4	Chemicals/ Reagents/ Culture Media.
5	Gas Assembly for Di OXIN and Furan for Air Cube AMS analitica
6	Purchase of portable incubator for drinking water biological analysis
7	Analytical balance (1mg -100g)

Details Sheet		
1.	Date of commencement of RFP Document (available on KPEPA & KP-PRA website)	17/02/2022
4.	Last date and time for receipt to Proposals	09/03/2022 (10:30 a.m)
5.	Date and Time of Technical Proposal Opening	09/03/2022 (11:00 a.m)
6.	Place of opening of Proposals	3 <sup>rd</sup> Floor, Old Courts Building, Khyber Road, Peshawar Cantt Telephone: 92 (91) 9210263, Fax: 92 (91) 9210280
7.	Address for communication	As Above
8.	Contact to Suppliers	Interested suppliers can contact for any queries to Telephone: 92 (91) 9239462, 92 (91) 9210263 0333-9198705

**Note:** Proposals will be opened in presence of the supplier representative who chooses to attend the events.

## 1. **Introduction**

The Khyber Pakhtunkhwa Environmental Protection Agency, already established under the Pakistan Environmental Protection Act 1997, was devolved to Khyber Pakhtunkhwa province under the 18th amendment 2010. This agency was constituted in 2014.

The main functions of this agency are; to administer and implement the provisions of KP Environmental Protection Act and the rules, to prepare in coordination with appropriate government agency and local council and consultation with the sectorial advisory committees established, environmental policies for approval of the council, take all necessary measures to implement the acts and rules framed by the environmental council, prepare and establish an annual environmental report on the state of the environment of the province, to prepare, review and establish the KP environmental quality standards (NEQS), ensure the implementation of NEQS, establish the standards for the quality of the ambient air, water and land, establish different standards for discharge or emission from different sources and for different areas and conditions, coordinate with other provinces the implementation of national, bilateral and multilateral environmental regimes and standards and to provide, assess ample scientific data to adapt and combat climate change.

## 2. **Procurement Details:**

Complete list of equipment and services required by this agency are listed below. Detailed Specifications with details are attached as Annexure 7.

S No.	Description	Quantity
1.	Digital water flow meter.	04
2.	Hollow cathode Lamps for Atomic Absorption Spectrophotometer for Perkin Elmer PinAAcle 900.	07
3.	Water Deionization plant for 5 liter/hr.	03
4.	Gas Assembly for Di Oxide of Nitrogen and Furan for Air Cube AMS analytica	01
5.	Purchase of portable incubator for drinking water biology	03
6.	Analytical balance (1mg -100g)	2
7.	Chemicals/ Reagents/ Culture Media.	L.S

## 3. **Eligibility of the Supplier**

Following is the eligibility criteria to participate in this RFP. (Refer to Form Annex-1)

- Supplier must have 03years' experience in selling listed equipment.
- Supplier must have successfully provided offered equipment/ solution to at least 3-5 clients in Pakistan.
- Supplier must have at least two certified professionals from OEM of proposed hardware to support the offered equipment.

#### **4. Submission of Proposals:**

Proposals will be accepted and evaluates using **Single Stage–Two Envelop Procedure**, The Technical and Financial proposals shall be submitted on the same day but in a separate sealed envelope clearly mentioned Technical and Financial Proposals marked as:-

**Technical Proposal– Tender# EPA/EQUIPMENT/R-Month-2022**

**Each item should be mentioned separately**

**&**

**Financial Proposal–Tender# EPA/EQUIPMENT/R-Month-2022**

Each item should have separate proposal /rate etc.

The cover letter should also specify the validity date of each offer with point of contact (name, email & contact number) for this tender from supplier side.

##### **A) Technical Proposal**

The technical proposal shall provide/contain the following information/documents:

- a. Mandatory Eligibility Criteria(**Annexure 1**)
- b. Declaration of Eligibility (**Annexure 2**)
- c. Company/ Firm Profile. (**Annexure 3**)
- d. Specific experience for similar assignments (**Annexure 4**)
- e. General experience (**Annexure 5**)
- f. Qualification and Competence of the proposed team for support for this assignment  
(**Annexure 6**)
- g. Proposed equipment with make and model, Specification details, Subscription & Support details. All the relevant literature, catalogs, brochures must be attached showing the technical specifications in details with technical compliance sheet (**Annexure 7**)
- h. Any other document which could be helpful in the technical evaluation.

*The technical proposal shall not include any financial information.*

##### **B) Financial Proposal (**Annexure 8**)**

The financial proposal shall contain the following information:

- i. Bid Security @2% of the total deliverable in the shape of Call deposit/ Pay Order/ Demand Draft/ cashier cheque in the name of EPA.

- ii. Validity of the financial proposal.
- iii. Other terms and conditions (if any).
- C) All the required documents must be attached/ provided.
- D) Once the proposal is submitted in sealed cover by the supplier, EPA will not accept any addition/ alterations/ deletions of the proposal. However, EPA reserves the right to seek clarification or call for supporting documents from any of the suppliers, for which the concerned supplier will need to submit the documentary evidence(s) as required by EPA.
- E) Any Proposal, submitted with incorrect information will be liable for rejection. Further, if any supplier is found to have submitted incorrect information at any time, he may be debarred from participation in the future tendering processes.
- F) The Supplier should take care in submitting the proposals and ensure that enclosed papers are not found loose and should be properly numbered and submitted in a file in proper manner so that the papers do not bulge out and tear during scrutiny.
- G) Last Date of Submission is 09/03/2021 till 10:30 am local time. Opening will be done on same date.
- H) Electronic proposals will not be entertained. Any proposals delivered after due date and time will be considered as non-responsive and disqualified from further consideration.
- I) The Proposals should be marked/ addressed as:

**Request for Proposals (RFP) For the Purchase of Equipments  
/ Items under the Project**

**“SHIFTING OF EPA LABORATORY TO PAKISTAN FOREST  
INSTITUTE AND ESTABLISHMENT OF 3 REGIONAL  
LABORATORIES AT ABBOTABAD, MINGORA AND D.I KHAN”**

Environmental Protection  
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- J) The offer should remain valid for a period of 90 days from the closing/ submission date. Any offer falling short of the validity period is liable for rejection. If a supplier extend proposal validity period then will also extend the security period.
- K) Alternative option, if there is any alternate option then it mentioned separately in proposal. Alternative options benefits should be clearly mentioned.



- L) Clearance of the equipment from Tax Authorities would be the responsibility of the supplier.
- M) Selected supplier must undertake to provide EPA, the consignment note number(s) by which the equipment ordered had been dispatched from their site, so as to have online/ web access to the tracking system of physical movement of the consignments sent

through courier.

- N) The supplier may withdraw its offer after its submission, provided that written notice of withdrawal is received by EPA prior to the closing date and time prescribed for submission of proposals. No offer can be withdrawn by the supplier subsequent to the closing date and time for submission of proposals.

## 5. **Evaluation Criteria**

Final evaluation of the proposal will be carried by using the below combination.

S.NO.	PROPOSAL	WEIGHTAGE
1	Technical	60%
2	Financial	40%
	<b>TOTAL</b>	<b>100%</b>

Following is the scoring criteria for Technical & Financial Evaluation.

### **5.1 Technical Evaluation**

S.No.	Technical Evaluation	Marks	Min Marks to Qualify	Obtained
a.	Firm Profile (Registration status), Location, Offices, Number of employees and financial position)	10	7	
b.	Specific experience for similar assignments	10	7	
c.	General experience	5	3.5	
d.	Qualification and Competence of the proposed team for support for this assignment	15	10.5	
e.	Proposed hardware compliance with required specifications, delivery time, installation/testing/commissioning plan	20	14	
<b>TOTAL POINTS</b>		<b>60</b>	<b>42</b>	
<b>SUB TOTAL</b>		<b>60</b>		

### **5.2 Financial Evaluation**

S.No.	Financial Evaluation	Marks	Obtained
a.	Bid Price	40	
<b>TOTAL POINTS</b>		<b>40</b>	

EPA will scrutinize the proposal to determine whether it is complete, whether errors have been made in the offer, whether required technical documentation has been furnished and whether the documents have been properly signed. Offers within correct information or not supported by documentary evidence, wherever called for, would be summarily rejected by documentary evidence called for, would be summarily rejected. However, EPA at its sole discretion may waive any minor non-conformity or any minor irregularity in an offer. EPA reserves the right for such waivers and this shall be binding on all suppliers. For proper scrutiny, evaluation and comparison of offers, EPA at its discretion, ask some or all suppliers for clarification of their offer. The request for such clarification and the response will necessarily be in writing.

## **6. Selection Process**

A selection committee from EPA will evaluate the technical proposals which are eligible as per clause 4 and assigns core to each technical proposal according to above details. To qualify technically a minimum of 70% score is needed. Financial Proposals will be opened of only those suppliers whose technical proposal is qualified. Financial proposal of those suppliers who are not technically qualified will be returned unopened. Financial proposals will also be opened in the presence of suppliers for which the date will be announced after the technical evaluation. Supplier scoring the highest marks (Technical+ Financial) will be selected for the award of the contract. This process should normally take about 10 days.

## **7. Deliverables**

The Equipment and services are mentioned as per details given section 3.

### **8.1 Bid Security**

All suppliers shall furnish Bid Security Deposit equivalent to **2% of the total Cost of Deliverables** in the form of Call deposit/ Pay Order/ Demand Draft/ cashier cheque in favor of EPA. Cheque will not be accepted in any case. After selection of successful supplier, EPA will return/ release the bid security to the unsuccessful suppliers.

### **8.2 Performance Security**

Performance security will be 5% of the total cost of the equipment only (excluding service) which will be withheld from the final payment for the

period of three years.

After the successful completion of warranty period of three years, performance security will be released.

**9. Fees and Payment Schedule**

- a) No advance will be allowed in any case.
- b) Payment will be made after the complete and satisfactory delivery/ acceptance/ testing/ configuration of the Equipment to the designated delivery site/ destinations within 2-3 weeks through cross cheque.
- c) Taxes will be deducted from all the invoices as per prescribed law of Govt. of Pakistan. If supplier has any of the tax exemption, the details must be attached with the invoice. Tax challans will be provided within 3-4weeks of the payment.

**10. Paying Authority**

The payments as per the Payment Schedule covered here in above shall be paid by EPA. However, Payment of the Bills would be payable on receipt of advice/confirmation for satisfactory delivery/ installation/configuration from the procurement committee.

Following Documents are to be submitted for Payment:

- a. Bill
- b. GST Invoice
- c. Duly acknowledged Delivery Challans/ installation report.
- d. Material Received Note (MRN) if issued by EPA.

**11. Delivery Schedule**

- a) The Selected supplier must undertake to deliver the equipment ordered, to EPA Peshawar within the time offered in the proposals from the date of the Purchase Order/ Contact. However, Delivery schedule may be changed under special circumstances at the discretion of EPA.
- b) EPA reserves right to shift the ordered equipment to any location where it has presence, anywhere in Pakistan, either during the warranty.

**12. Warranty & Maintenance**

The supplier shall be fully responsible for the defected items and will be responsible to replace at his own cost with the same make/ model of the equipment. All the equipment required should have one year warranty from the date of supply/ installation as mentioned in the section 3.

**13. Penalty for Down Time**

In case of delay in the supply of material against the terms indicated in the purchase order/ contract, the supplier will have to pay a fine as per Govt. policy or as decided by the chairman procurement committee. Maximum penalty will be 5% of the total order/ contract.

**14. Penalty on Liquidated Damages for Delayed Supply**

In case the delivery is delayed beyond the stipulated date of delivery, 'Liquidated damage for late delivery @ one half of one percent(0.5%) of the order value for each day of delay or part thereof would be imposed, subject to maximum of 10% if the delay is for 20 days or more. The penalty for late delivery will be deducted from the final invoice amount.

**15. Currency**

All prices shall be expressed in Pakistani Rupees only.

**16. Cost of Process**

The supplier shall bear all the costs associated with the preparation and submission of proposals & samples (if any) and EPA will in no case be responsible or liable for these costs regardless of the conduct or outcome of the bidding process.

**17. Tender Document**

The suppliers expected to examine all instructions, forms, Terms and Conditions and specifications in the Tender Document. Submission of a proposal not responsive to the Tender Document in every respect will be at the suppliers risk and may result in the rejection of its proposal without any further reference to the supplier.

**18. Deadline for Submission of Proposals**

Proposals must be received by EPA at the address specified in the Tender Document not later than the specified date and time as specified in the Tender Document. In the event of the specified date of submission of bids being declared a holiday for EPA, the proposals will be received up to the appointed time on next working day.

EPA may, at its discretion, extend this deadline for submission on proposals by amending the Tender documents.

**19. Confidentiality Statement**

All data and information received from EPA for the purpose of this assignment is to be treated confidentially and is to be used ONLY in connection with the execution of these documents. All intellectual property rights arising from the execution of these documents are assigned to EPA. The contents of written materials obtained and used in this assignment may not be disclosed to any third parties without the expressed advance

written authorization of EPA. EPA may then disclose the draft, final report and/ or any related information to any person and for any purpose they may deem appropriate.

**20. General Terms & Conditions**

- a) EPA does not bind itself to accept the lowest or any proposal and reserves the right to reject any or all proposals at any point of time prior to the issuance of purchase order/ contract without assigning any reasons whatsoever.
- b) The EPA reserves the right to restore – tendering without providing any reason whatsoever. The EPA shall not incur any liability on account of such rejection.
- c) The EPA reserves the right to modify any terms, conditions or specifications for submission of offer and to obtain revised proposals from the suppliers due to such changes, if any.

**21. Rejection of the Proposal**

The proposal is liable to be **rejected** if:

- a. The document doesn't bear signature of authorized person.
- b. It is received through Telegram/ Fax/ E-mail.
- c. If the proposal is submitted without or less or not in required type the bid security deposit.
- d. If the technical bid is submitted without the Technical Compliance Sheet.
- e. If the proposal is received after expiry of the due date and time stipulated for proposal submission.
- f. In complete proposals, partial proposals including non-submission or non-furnishing of requisite documents/ Conditional proposals/ proposals not conforming to the terms and conditions stipulated in this tender document are liable for rejection by the EPA.

**22. Modifications and Withdrawal of Proposals**

Proposals once submitted will be treated, as final and no further correspondence will be entertained on this.

- a. No proposal will be modified after the deadline for submission of proposals.
- b. No supplier shall be allowed to withdraw the proposal, once the first technical proposal is opened.
- c. No supplier shall be allowed to withdraw the proposal, if the supplier happens

to be a successful supplier.

**23. Proposal Opening and Evaluation**

- a. EPA will open the proposals, in the presence of supplier's representative(s) who choose/ authorized to attend, at the time and date mentioned in Tender document at the address mentioned at bidding details.
- b. The supplier's representatives who are present shall sign the sheet evidencing their attendance. In the event of the specified date of proposal opening being declared a holiday for Purchaser, the proposals shall be opened at the appointed time and place on next working days.
- c. Suppliers satisfying the technical requirements as determined by EPA and accepting the Terms and Conditions of this document shall be short-listed.
- d. Decision of EPA in this regard shall be final and binding on the suppliers.
- e. The contract will be awarded only to the successful responsive supplier.
- f. EPA reserves the right to negotiate with Second, third supplier etc. if successful supplier is not able to supply the deliverables and his bid security will be forfeited.

**24. Clarifications of Proposals**

To assist in the examination, evaluation and comparison of proposals EPA may, at its discretion, ask the supplier for clarification. The response shall be in writing and no change in the substance or price of the proposal shall be sought, offered or permitted.

**25. EPA's Right to Accept or Reject Any proposal Or All proposals**

EPA reserves the right to accept or reject at any stage by assigning reason as per the prevailing Law.

**26. Governing Laws and Disputes**

All disputes or differences whatsoever arising between the parties out of or in relation to the meaning and operation or effect of these Tender Documents or breach there of shall be settled amicably. If, however, the parties are not able to solve them amicably, the same shall be settled by arbitration in accordance with the applicable Pakistani Laws, and the award made in pursuance there of shall be binding on the parties. The Arbitrator/ Arbitrators shall give a reasoned award.

**27. Placement of Order and Acceptance**

The supplier shall give acceptance of the order placed within 05 days from the date of order, failing which; EPA shall have the right to cancel the order.

**28. Authorized Signatory**

The supplier should indicate the authorized officials from their organization who can discuss, correspond, sign agreements/ contracts, rise invoice and accept payments and also to correspond. The suppliers should furnish proof of signature of the authorized personnel for above purposes as required by the EPA.



29. **Appeals**

Suppliers believing that they have been harmed by an error or irregularity during the award process may file a complaint to EPA at [complaints@epakp.gov.pk](mailto:complaints@epakp.gov.pk)

# **LIST OF ANNEXURES**

## **Annexure 1**

	<b><u>MANDATORY ELIGIBILITY CRITERIA</u></b>	<b><u>Yes</u></b>	<b><u>No</u></b>
01	Supplier must have at least 3 years' experience in selling proposed equipment.  (Attach documentary evidence in shape or orders/contracts/completion certificates)	<input type="checkbox"/>	<input type="checkbox"/>
02	Supplier must have successfully provided solution to at least 3-5 clients in Pakistan. (completion certificate from client to be provided)	<input type="checkbox"/>	<input type="checkbox"/>
03	Supplier must have at least two certified professionals from OEM of proposed equipment to support the offered equipment.(detailed CV's of the professional to be attached with undertaking that they are still working with the firms/ organization)	<input type="checkbox"/>	<input type="checkbox"/>
04	Affidavit(on Rs.100/-stamp paper) dully signed and attested by Notary public as perma provided in Annexure 2	<input type="checkbox"/>	<input type="checkbox"/>

**Annexure 2**

**DECLARATION OF ELIGIBILITY**

**To Whom It May Concern**

I, the undersigned representative of M/s \_\_\_\_\_ having its registered office at

\_\_\_\_\_

\_\_\_\_\_

Do hereby affirms that our company/ firm/ organization is eligible because we;

- Are registered company/firm/organization.
- Are registered with NTN/ STN.
- Are not bankrupt or in the process of going bankrupt.
- Have not been convicted for an offense concerning professional conduct.
- Have not been guilty of grave professional misconduct (proven by any means which the contracting authorities can justify).
- Have fulfilled obligations related to payment of taxes.
- Are not guilty of serious misinterpretation in supplying information.
- Are not in situations of conflict of interest (with prior relationship to project or family or business relationship to parties in EPA)
- We're not declared at serious fault of implementation owing to a breach of their contractual obligations
- Have no relation, direct or indirect, with any terrorist or banned organizations.
- Are not on any list of sanctioned parties issued by the Pakistan Government, DIFD, US-AID, UN agencies, European Union and others.
- Are not blacklisted/ disqualified/ barred by any Local/ International organization, Government/ semi Government department, NGO, INGO, USAID, and EU or any other company/organization.
- Have not been reported for/ under litigation for child

abuse. Declared By:

\_\_\_\_\_  
(Authorized Signature)

Witness by: \_\_\_\_\_

(Name & Designation)

Signature: -----

Date: \_\_\_\_\_

Name: -----

.....CNIC:-----

### Annexure 3

#### Firm Profile

<b>S#</b>	<b>Criteria</b>	<b>Remarks/Justifications (for evaluators ONLY)</b>
<b>01</b>	<b>Profile of the agency:</b> i. Registration details and age of Company ii. Names of Managers/ Owners/ CEO/ Directors/ Partners	
<b>02</b>	<b>Location of agency office/ sub office</b> i. Number of branches ii. Number of employees	
<b>03</b>	<b>Financial Position</b> i. Name of Bank(s) ii. Certificate of Financial position from bank(s) iii. Copy of last financial year audit report dully signed by the auditor. iv. Tax Registration (NTN & STN)	
	<b>SUBTOTAL:</b>	

**Annexure 4**

**Specific Experience For Similar Assignments**

<b>NAME OF CLIENT(S)</b>	<b>NAME OF ASSIGNMENT/ PROJECT</b>	<b>PERIOD OF ASSIGNMENT/ PROJECT</b>	<b>VALUE OF ASSIGNMENT/ PROJECT</b>	<b>CONTACT DETAILS OF CLIENT</b>

**Annexure 5**

**General Experience of Firm**

<b>NAME OF CLIENT</b>	<b>NAME OF ASSIGNMENT/ PROJECT</b>	<b>PERIOD OF ASSIGNMENT/ PROJECT</b>	<b>VALUE OF ASSIGNMENT/ PROJECT</b>	<b>PRESENT STATUS OF THE ASSIGNMENT/ PROJECT</b>



**C) Education:**

Highest Level of Degree	Relevance of Degree to the Assignment
Ph.D.	
M.Phil.	
Masters	
Other	

**D) Certification:**

Name Of Course/Certificate	Brief description

**E) Undertaking:**

*I, the undersigned, certify that to the best of my knowledge and belief, these data correctly describe me, my qualifications, and my experience.*

\_\_\_\_\_ Date: \_\_\_\_\_

*[Signature of staff member and authorized representative of the firm] Day/Month/Year*

Full name of staff member: \_\_\_\_\_

Full name of authorized representative: \_\_\_\_\_

S No.	Description	Quantity
1.	Digital water flow meter.	04
2.	Hallow cathode Lamps for Atomic Absorption Spectrophotometer for Perkin Elmer PinAAcle 900.	07
3.	Water Deionization plant for 5 liter/hr.	03
4.	Gas Assembly for Di OXIN and Furan for Air Cube AMS analitica	01



5.	Purchase of portable incubator for drinking water biology	03
6.	Analytical balance (1mg -100g)	2
7.	Chemicals/ Reagents/ Culture Media.	L.S

## Annexure 7

### List Of Equipments And Specification

S.No	Description	Required Specifications	Quantity
1.	<b>Analytical Balance</b>	<ul style="list-style-type: none"><li>• Digital</li><li>• Touch Screen</li><li>• Stainless-steel pan 80-90 mm Internal calibration</li><li>• Upper opening for pipetting without having to remove the case Supplied with ISO17025 Certificate of calibration</li><li>• Repeatability (g)0.0002</li><li>• Linearity(g) <math>\pm 0.0002</math></li><li>• Range 1 mg to 100g</li><li>• Min:0 mg</li><li>• Accuracy: 0.1 mg</li><li>• Stabilization time 3-5 second</li><li>• Power: 220 VAC</li></ul>	02
2.	Digital Incubator	<ul style="list-style-type: none"><li>• Temperature Range 0 to 60c</li><li>• Temperature Accuracy 0.1C</li><li>• Temperature Uniformity 1.5 c</li><li>• Temperature Increments 1c</li><li>• Operating Temp 05c to 45c</li><li>• Capacity 20 liter or 25 sample placement</li><li>• Warranty one year</li><li>• Electrical 12vDC and 220</li></ul>	03
3.	Sampling Assembly for Dioxin & Furan for air cube AMS Analitica	<ul style="list-style-type: none"><li>• Easily transportable Compact</li><li>• Must be available with sampling supports of 102 and 55mm</li><li>• Available with standard 60mm sorbent tube with polyurethane foam etc, Magnetic induction motor and electronic flow control with Venturi device in compliance with ISO-5167 regulations</li><li>• Power supply at 220V–ACand 24V–DC with external Power pack battery pack Flow range up to 400 liters per minute with automatic compensation for pressure.</li><li>• Average sampling flow rate Partial sampling volume Ambient temperature</li><li>• Atmospheric barometric pressure</li><li>• Sampling status on a graphic base with automatic calculation of the standard deviation filter holder support conforms to the ISO and EPA standards</li><li>• Flow rate management within the pipe in compliance with ISO-CEN16911regulation</li><li>• Flow rate calculation through pre</li></ul>	01

		<p>selectors for PM<sub>10</sub> in compliance with US-EPA 201A and EN-23210 regulations</p> <ul style="list-style-type: none"> <li>• Stack traverse points calculation in compliance with ISO-CEN 16911 regulation Manual setting with nozzle calculation</li> <li>• Isokinetic suction in compliance with ISO-9096 and EN-13284 regulations</li> <li>• Automatic calculation of turbulence effect(SWIRL) with three axis transducer, angle and flow real-time calculation, no manual data input Automatic calculation of the turbulence effect factor in the proximity of the pipe internal surfaces (EPA 2H)</li> <li>• Selection of the applicable legislation directly on the display menu Setting of the side stream flow value in the event of derivate sampling Setting of the constant value for stack turbulence measurement in compliance with EPA 2H criteria (as provided for by the EN-16911 regulation)</li> <li>• Barometric pressure sensor: - Measurement range(FS):800-1100mbar Resolution:0,05mbar - Precision:+/-1mbar</li> <li>• Static pressure sensor Measurement range(FS):+/-1000 mm/H2O Resolution:0,1mm/H2O</li> <li>• <b>Precision</b></li> <li>• 0.9% on scale (FS) 0.100 mm H<sub>2</sub>O with reading lower than 010mm H<sub>2</sub>O</li> <li>• 0.8% on scale (FS)0.300mm H<sub>2</sub>O with reading lower than 030mm H<sub>2</sub>O</li> <li>• 0.8% on scale(FS)0.700mm H<sub>2</sub>O with reading lower than 070mm H<sub>2</sub>O</li> <li>• Complete set off assembly available including.</li> <li>• Conditions field use operation</li> <li>• 3 days training in Peshawar at the site</li> <li>• Chemicals required for the testing</li> </ul>	
4.	HCL coded Lamps for Perkin Elmer(PinAAcle900F) For use with Flame AAS (each Lamp)	<ul style="list-style-type: none"> <li>• Pb (lead)</li> <li>• Zinc (Zn)</li> <li>• Selenium</li> <li>• Nickel</li> <li>• Iron (Fe)</li> <li>• Barium</li> <li>• Born</li> </ul>	01 each

5.	<b>Digital water flow meter.</b>	<ul style="list-style-type: none"> <li>• units of display GPM (Gallon per minute)</li> <li>• Built-In logger function for manual &amp; auto logging.</li> <li>• Program intervals 5 min recording function.</li> <li>• Auto save in CSV file</li> <li>• Downloadable to PC USB Type</li> </ul> Complete with : <ul style="list-style-type: none"> <li>• Standard batteries</li> <li>• Carrying pouch</li> <li>• Impeller stick</li> <li>• Carrying case</li> </ul>	04
6.	<b>Chemical Name</b>	Chemicals/ Reagents/ Culture media. (H <sub>2</sub> SO <sub>4</sub> , Acetylene gas for atomic absorption, QMB filters for stake emissions, Ferion indicator for COD).	Lump sum
7	<b>De Ionized water plant</b>	<ul style="list-style-type: none"> <li>• Resistivity= 18.2 μs/cm</li> <li>• Conductivity=0.05 μs/cm</li> <li>• Product = type I and II water</li> <li>• Product = 05 ilt/hr</li> </ul>	03

**Annexure**

**8 Financial**

**Proposal**

<b>S. No.</b>	<b>Description</b>	<b>Make/ Model</b>	<b>Qty.</b>	<b>Unit Price</b>	<b>Total Price</b>
01	Digital water flow meter.		04		
02	Lamps for Atomic Absorption Spectrophotometer.		07		
03	Water Deionization plant for 5 liter/hr.		03		
04	Gas Assembly for Di OXIN and Furan.		01		
05	Purchase of portable incubator for drinking water biology		03		
06	Analytical balance (1mg -100g)		2		
07	Chemicals/ Reagents/ Culture Media.		L.S		
Sub Total:					
Taxes:					
Installation, testing, configuration (if any)					
Grand Total: (Including all charge and taxes)					

**Validity:**

**Delivery Time:**

**Any other details or terms & conditions**

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