



**Tender Document (FY2025-26)**

For  
Procurement of Equipment for Laboratory

Under the ADP Project

“Studies on DNA Fingerprinting of Important Pakistani Timbers for their Identification and Illegal Trafficking Control”  
**Pakistan Forest Institute, Peshawar.**

**Climate Change, Forestry, Environment & Wildlife Department  
Government of Khyber Pakhtunkhwa**

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**SECTION-I****TENDER NOTICE**

(For Procurement of Laboratory Equipment)

Pakistan Forest Institute, Peshawar invites e-Bids in accordance with the Khyber Pakhtunkhwa Procurement Authority (KPPRA) Rules 2014, Amendment Act, 2022 for Procurement of Equipment for Laboratory — under the Single Stage – two Envelope Procedure 6(2) (b). Bids are invited from firms duly registered with the Federal Board of Revenue (FBR) for Income Tax and Sales Tax, for supply of Lab. equipment at PFI during the Financial Year 2025–26.

**Terms & Conditions:**

Activity	Date & Time
Bid submission on EPADS	17-06-2026 (11:00 AM)
Opening of Technical Bids	17-06-2026 (11:30 AM)

1. The bidders registered on EPADS platform shall submit their e-Bids through EPADS.
2. Bidding document containing detailed terms and conditions are available free of cost on: EPADS Portal KP; KPPRA, KP, website and <https://www.pfi.gov.pk/>
3. Total Estimated Cost: PKR.13.615 millions.
4. Bid submission shall be lot-wise.

Lot #	Equipment Name	Quantity
1.	i Real-Time PCR System	1
	ii PCR Work Station Horizontal Laminar Airflow Cabinet	1
	iii Class II A2 Biological Safety Cabinet	1
2.	i Mini Bead Ruptor	1
3.	Increment Borer	
	i 300mm	2
	ii 450mm	2
	iii 600mm	2

5. The original CDR of the Bid Security (2%) must be submitted, in favor of The Forest Geneticist, Pakistan Forest Institute, Peshawar, before the e-Bid submission deadline. Failure to do so shall result in rejection of the bid.
6. Only technically qualified bidders will be communicated for financial bids openings.
7. The successful bidder shall deposit a Performance Guarantee equivalent to 10% of the contract value and execute a formal contract agreement prior to the award of contract.
8. All quoted rates shall be in Pakistani Rupees (PKR), inclusive of all applicable duties and taxes. Statutory deductions (if any) shall be made in accordance with Govt. rules.
9. The Competent Authority reserves the right to reject any or all bids at any stage prior to acceptance in accordance with Rule 47 and shall communicate to the bidder(s) the reason for rejection as per Rule 47(1), without being obligated to justify those grounds.

**Project Incharge**

**“Studies on DNA Fingerprinting of Important Pakistani Timbers for Their Identification & Illegal Trafficking Control” Pakistan Forest Institute, Peshawar.**

**091-9221374/0321-7207353**

## SECTION-II

### GENERAL TERMS & CONDITIONS

The following General Terms and Conditions shall govern the submission, evaluation, award, and execution of the contract:

1. Bids shall be submitted through EPADS on or before the closing date and time specified in the Tender Notice.
2. The original Bid Security in the form of a Call Deposit Receipt (CDR) amounting to 2% of the estimated cost, in favor of the Forest Geneticist, Pakistan Forest Institute, Peshawar, must be submitted before the closing date and time of bid submission.
3. Late submissions shall not be entertained.
4. Incomplete, conditional, ambiguous, overwritten, corrected (cut/erased), or bids containing alternate rates shall not be accepted.
5. The bid validity period shall be in accordance with the duration specified in the Tender Documents.
6. The bidder shall accept and fully comply with all terms, conditions, and specifications contained in the Tender Documents.
7. The Competent Authority reserves the right to accept or reject any or all bids at any time prior to award, in accordance with Rule 47 of the KPPRA Rules.
8. Grounds for rejection, upon request, may be communicated to the concerned e-bidder; however, the authority shall not be bound to provide detailed justification.
9. The issuing authority reserves the right to cancel the tender process at any stage without assigning any reason and without incurring any liability.
10. The Bid Security shall be liable to forfeiture if the bidder:
  - i. withdraws, amends, or revises the bid during its validity period;
  - ii. fails to execute the contract in accordance with the agreed terms and conditions;
  - iii. is found at any stage to have submitted false, forged, fabricated, or misleading documents.
11. The successful bidder shall submit a Performance Guarantee in the form of CDR amounting to 10% of the contract value, in favor of the Forest Geneticist, Pakistan Forest Institute, Peshawar, prior to award of the contract.

12. Failure to submit the Performance Guarantee within the stipulated time may result in cancellation of the award and forfeiture of the Bid Security.
13. Payments shall be made upon verification, satisfaction, and acceptance of deliverables by the competent authority.
14. Bidders are advised to quote their best and final prices. No post-bid price negotiations shall be allowed.
15. Submission of quotations in bid should be lot-wise.
16. A penalty of 1% of the contract value per week shall be imposed for delays beyond the agreed timeline, subject to applicable rules and maximum allowable limits.
17. Standard Force Majeure provisions shall apply.
18. Any dispute arising out of or in connection with the contract shall be resolved through arbitration under the laws of Pakistan.
19. Any modification or clarification to the Tender Documents shall be issued through formal corrigendum.
20. The supplier shall deliver all items to Pakistan Forest Institute (PFI), Peshawar at its own expense.
21. The supplier shall install the supplied equipment at the laboratory, conduct sample analysis demonstrations, and provide necessary training (minimum five days) at PFI, Peshawar, as and when required.
22. The equipment must be compatible with the environmental and climatic conditions of Peshawar.
23. Substandard items shall be rejected and returned at the supplier's expense.
24. The firm shall ensure completion of all supplies/tasks as agreed in the Work Order.
25. The supplier warrants that all supplied equipment shall be genuine, new, unused, and of the latest models, with verifiable traceability through serial numbers, production batch certificates, delivery information, and traceable database records.
26. The supplier shall provide free-of-cost repair or replacement of equipment during the warranty period from the date of commissioning, in accordance with standard industry practices applicable to the relevant equipment.

## **SECTION-III**

### **ELIGIBILITY AND MANDATORY DOCUMENTS**

Bidders/Firms/Companies must submit the following:

#### **A. Technical Bid:**

1. Tender Form duly filled, completed, signed & stamped by the bidder must be attached with each bid. All sections/pages must be signed by the bidder.
2. Complete company profile including NTN, Sales Tax Registration, valid Professional Tax, and KPPRA registration, along with verifiable experience references from government/semi-government departments or clients for similar laboratory equipment supplied during the last three (03) years.
3. Affidavit on company letterhead confirming that 2% bid security in the form of CDR has been submitted in the prescribed manner.
4. Proof of financial stability.
5. Affidavit on Rs. 100/- stamp paper declaring that the firm is not blacklisted by any government or semi-government department.
6. The supplier/firm/party must be an authorized dealer of the manufacturer. A copy of authorized dealership/registration/certificate must be attached with the Technical Proposal/Bid.
7. Brochures, operational manuals, and warranty details of all quoted equipment must be attached.
8. Certificate of bid validity for 90 days from the date of opening of tender, submitted on company letterhead duly signed and stamped by the bidder.
9. Suppliers/bidders must submit performance certificates from departments/officers to whom they have supplied similar items in the last five (05) years.
10. Affidavit on stamp paper confirming that the firm is not blacklisted by any government or semi-government department.
11. Duly stamped and signed Undertaking on stamp paper (Annex-A).

#### **B. Financial Bid:**

1. Total bid amount with lot-wise breakdown in PKR, inclusive of all applicable taxes.
2. Bid validity: 90 days from submission.

3. Earnest Money/Bid Security equal to 2% of the quoted bid value in the form of CDR in favor of Forest Geneticist, Pakistan Forest Institute, Peshawar (refundable).
4. Bids without Bid Security shall not be entertained.
5. Quoted price must be the best and final (no negotiations permitted) and shall remain valid until completion of the assignment.

## SECTION-IV

### SUBMISSION OF BIDS

#### 1. Bidding Procedure:

Bids shall be submitted under the Single Stage–Two Envelopes procedure as per KPPRA Rules.

#### 2. Bid Format:

All pages to be submitted in either PDF/ Word documents must be duly signed and stamped. Bidders shall submit their bids in two separate soft (PDF/MS Word) Files as following;

**A. Technical Proposal/e-Bid:** Clearly marked “Technical Proposal/e-Bid” as file/folder name, containing all technical documents, eligibility proofs, and related information.

**B. Financial Proposal/e-Bid** – clearly marked “Financial Proposal/e-Bid” as file/folder name, containing the quoted price and soft copy of CDR of 2% bid security.

Both PDF files shall then be placed in one single folder, clearly marked:

QUOTATIONS

for Procurement of Equipment for Laboratory

Under the ADP Project

“Studies on DNA Fingerprinting of Important Pakistani Timbers for their Identification and Illegal Trafficking Control”

**Pakistan Forest Institute, Peshawar.**

#### 3. Bid Submission Dead-line and Opening

- i. Original CDR of 02% of bid value sealed in an envelope must be reached to the Project Incharge “Studies on DNA Fingerprinting of Important Pakistani Timbers for Their Identification and Illegal Trafficking Control, Pakistan Forest Institute, Peshawar” before the closing of deadline, otherwise bids shall not be entertained.
- ii. Soft Files must be uploaded with the e-Bid on EPADS as prescribed in the Tender Notice positively by 17 JUNE 2026 at 11:00 am. Technical Proposals will be opened on the same date (17 JUNE 2026) at 11:30 am in the presence of bidders or their authorized representatives.
- iii. Bid submitted through channel other than EPADS shall not be considered.

## SECTION-V

### TECHNICAL SPECIFICATIONS OF LAB EQUIPMENT

#### LOT#01

##### 1 Real-Time PCR System

1. PCR instrument should comprise of advanced optical technology with coupled filter wheel and precise temperature control to deliver sensitive, reliable detection using in-built Peltier technology
2. Resolution: should detect as little as 1.5-fold changes and sensitivity to detect one copy
3. ROX dye capability for troubleshooting
4. Fast thermal cycling produces results in <35 min or better
5. Dye compatibility with FAM™, SYBR™ Green, VIC™, TAMRA, Cy®3, JOE™, HEX™, TET™, ABY™, NED™, JUN™, ROX™, Texas Red™ etc.
6. Can perform multiplexing up to 4 targets
7. Must have V Musteri Flex Blocks; three separately controlled alloy blocks (or zones) to enable users to set specific temperatures
8. Data can be accessed online via cloud software
9. 96 Sample wells, 0.2 mL block Sample Capacity, 10–100 µL Sample Volume
10. Should have bright white LED to illuminate entire plate at once
11. 500-640nm Detection range, coupled filter Optical detection
12. 6.5 C/sec Ramp rate, 3.66 C/sec Avg. ramp rate, 0.4 C Temp. Uniformity
13. 450-600nm Excitation range
14. Interactive touch screen Display, Standalone
15. Communication Interface; Cloud-based connect, Ethernet, USB, Wi-Fi
16. System configuration, 5000 or more run storage with 10 GB on board memory including Laptop
17. Must have Mini-Cell Electrophoresis System with Reagents, 8x8cm gel dimension, Gel Handcast Hardware and Reagents, each sufficient to make 500 mL of stacking or resolving buffer
18. The Handcast Bundle A must include all the hardware and reagents need to get started:

- 2 Gel Hand cast Stations
- 1 sets Glass Plates
- 10 Gel Spacers
- 1no. 10-well Multi-Use Tool
- 1no. 12-well Multi-Use Tool
- 1no. 15-well Multi-Use Tool
- 6 Gel Combs (2 each: 10-, 12-, 15-well)
- 1 Stacking Buffer (1L), 2-pack 500ml
- 1 Resolving Buffer (1L), 2-pack 500ml
- 25 g Sure Cast Ammonium Persulfate
- 450 mL Sure Cast Acrylamade Solution
- 30 mL Sure Cast TEMED

Country of Origin: USA, EU, Japan

## **2 PCR Work Station Horizontal Laminar Airflow Cabinet**

### **Specifications:**

1. Inactivates nucleic acids in 5 to 30 minutes
2. Doors fitted with safety switches
3. Complete with powerful, timer-controlled UV bulbs
4. Efficient decontamination of the complete work surface
5. Unit Dimensions (cm): 77 x 58 x 44.0
6. Inside Dimensions (cm): 60 x 52.5 x 41
7. UV Lights: 4 x 15 Watt
8. White Light: 15 Watt
9. Spill Tray: TRUE
10. Input Voltage: 230

Country of Origin: USA, EU, Japan or equal

## **3 Class II A2 Biological Safety Cabinet**

### **Specifications:**

1. Motorized front window.
2. Time reserve function.

3. ULPA filter life and UV life indicator.
4. Automatic air speed adjustable with filter block.
5. With memory function in case of power-failure.
6. Audio and visual alarm (Abnormal airflow velocity; Filter replacement; Front window at unsafe height).
7. Work area surrounded by negative pressure, it can ensure maximum safety in work area.
8. Audio and visual alarm (Filter replacement, window over height, abnormal air flow velocity, etc).
9. Remote control: all functions can be realized with it, making the operation much easier and more convenient.
10. Interlock function: UV lamp and front window; UV lamp and blower, LED lamp; blower and front window.
11. Foot switch: adjust front window height by foot during experiment, to avoid airflow turbulence caused by arm movement.
  
12. Internal size (mm): 940\* 600\*660 mm
13. External size (mm): 1100\*750\*2250mm
14. Tested Opening: Safety Height = 200 mm (8")
15. Max Opening: 420mm (17")
16. Inflow Velocity: 0.53±0.025 m/s
17. Downflow Velocity: 0.33±0.025 m/s
18. ULPA Filter: Two, 99.9995% efficient at 0.12um. Filter life indicator.
19. Front Window: Motorized. Two-layer laminated toughened glass ≥ 5mm.
  - a. Anti UV.
20. Noise: ≤65dB
21. UV Lamp: 30W\* 1
  - a. UV timer, UV life indicator, emission of 253.7 nanometers for most efficient decontamination.
22. Illuminating Lamp: LED Lamp 12W\*2
23. Illumination: ≥1000Lux
24. Consumption: 760W
25. Waterproof Sockets: Two, total load of two sockets: 500W
26. Display: LCD display: exhaust filter and downflow filter pressure, filter and UV

- lamp working time, inflow and downflow velocity, filter life, humidity and temperature, system working time etc.
27. Control System: Microprocessor
  28. Airflow System: 70% air recirculation, 30% air exhaust
  29. Visual and audio alarm: Filter replacement, front window at unsafe height,
    - a. abnormal airflow velocity.
  30. Material: Work Zone: 304 stainless steel
    - a. Main Body: Cold-rolled steel with anti-bacteria powder coating.
  31. Work Surface Height: 770mm
  32. Caster: Foot master caster
  33. Power Supply: AC220V, 50/60Hz; 110V, 60Hz
  34. Standard Accessory: LED lamp, UV lamp\*2, Base stand, Remote control, Foot switch, Drain valve, Waterproof sockets\*2
  35. Optional Accessory: Water and gas tap, Electric height adjustable base stand.

Country of Origin: USA, EU, Japan, Korea or equal

## LOT#02

### Mini Bead Ruptor

#### Specifications:

1. 220v/50Hz
2. Time setting: 1-9999s
3. Speed/Frequency setting: 300-2100 r/min (10-70HZ)
4. Storage of data 50 groups
5. Clamp stroke 34mm(vertical)
6. Sample capacity Should include 2 ml adapter 24-well; 5 ml adapter 12 wells
7. Grinding method Wet grinding, dry grinding,
8. Grinding ball Standard  $\phi$ 3mm stainless steel balls (1000pcs) and  $\phi$ 6mm stainless steel balls
9. Display 4.3-inch TFT Touch Screen
10. Protection Open cover protection, emergency breaking
11. Dimensions: L360\*W320\*H500mm

Country of Origin: USA, EU, Japan, Korea or equal

### **LOT#03**

#### **Increment Borer**

1. The tool must have a grip-friendly plastic handle with a metallic locking mechanism for secure operation.
2. The borer bit must be constructed from hardened steel for durability and long service life.
3. The surface coating must be PTFE-based to ensure reduced friction and corrosion resistance.
4. The standard core diameter must be 5.15 mm (0.200").
5. The thread type must be 3-thread for faster penetration and efficient sampling.
6. The borer tip must be convex arc-shaped and threaded to facilitate easy penetration and efficient wood fiber cutting.
7. The extractor must be made of stainless steel for smooth and easy removal of core samples.
8. The complete set must include a handle, borer bit, and extractor.
9. The system must be available in models with 5.15 mm core diameter and 3-thread configuration.
10. The available lengths must include 300 mm, 450 mm, and 600 mm variants.

Country of Origin: USA, EU, Japan,

## **SECTION-VI**

### **EVALUATION CRITERIA**

Below is a Technical Evaluation Performa (lot-wise) prepared in a clean, procurement-ready format. It is designed so you can directly use it in tender evaluation under KPPRA/PPRA style procedures.

#### **Instructions for Evaluation**

- A. Each requirement shall be evaluated as Compliant (C) / Non-Compliant (NC) / Partial (P).
- B. Technical qualification requires 100% compliance of mandatory items unless otherwise specified.
- C. Documentary proof must be attached for each claimed specification.
- D. Non-compliance in mandatory requirements will lead to disqualification for that item.

The following procedure will be adapted for impartial award of the tender to the most suitable applicant fulfilling both technical and financial criteria.

1. Bids will be evaluated based on 70:30 technical-to-financial ratio.
2. For technical bid evaluation the bidder's score out of total with the highest ranking will be the base line.
3. For financial evaluation the lowest bid shall be based line.
4. First percentages (%) with respect to the base line will be calculated.
5. Respective percentages will be converted to 70:30 technical-to-financial ratio
6. Final score of evaluation shall be determined by sum technical and financial scores.

**(A) Technical Evaluation (70 points):**

S. No.	Parameter	Score (100)
1.	Company profile Registrations with FBR and must be an active tax payer, KPPRA certificates Professional certificates	04
2.	Affidavit confirming of 2% bid security and affidavit stamp paper declaring that the firm is not blacklisted	04
3.	05 years latest experience with proof and 03 references where same instrument has been supplied	04
4.	Authorization letter from the principal provider	04
5.	1. Delivery within financial year 2025-26 2. Approvals: International Quality Standards ISO/CE/RoHS, etc 3. Warranty 01 year 4. Availability of technical staff and engineers.	04
6.	Technical specifications	80

**(B) Financial Evaluation (30 points):**

1. Lowest compliant bid gets full points; others prorated.
2. Only bids scoring > 85% in technical evaluation will proceed to financial opening.
3. The issuing authority reserves the right to reject any bid.

## SECTION-VII

### CONTRACT AWARD & PERFORMANCE REQUIREMENTS

1. The contract will be awarded to the bidder with highest score as per evaluation criteria.
2. The successful bidder shall;
  - i. Sign the contract within three (03) days of intimation; failure will result in assigning

of contract to the next bidder in the list and forfeiture of earnest money.

- ii. Submit 10% security deposit of the contract value (in the form of bank draft/call deposit), refundable after successful completion of contract.
- iii. Provide an undertaking on stamp paper agreeing to all terms and conditions.
- iv. The firm is responsible for completing tasks as per specifications and within 10 (Ten) weeks from the date of issuance of the contract award.
- v. Failure to complete within time or meet specifications will result in forfeiture of security money.

## **SECTION- VIII**

### **PAYMENT TERMS**

1. Payment will be made after successful delivery of all required items, quality/quantity verification and satisfaction by the concerned committee/relevant officer, and issuance of completion certificate.
2. All applicable taxes at the time of payment will be deducted as per government rules.

## **SECTION-IX**

### **REDRESSAL OF GRIEVANCES**

Bidder can approach to redressal of grievances committee in case the bidder wants to raise any objection or has grievances against the decision of the Procurement Committee with in ten days of publication of e-Bid evaluation report.

## ANNEX-A



**Government of Khyber Pakhtunkhwa**  
**Climate Change, Forestry, Environment & Wildlife Department**  
 “Studies on DNA Fingerprinting of Important Pakistani Timbers for their  
 Identification and Illegal Trafficking Control Project”  
**Pakistan Forest Institute, Peshawar.**  
 Ph: 091-9221374, 9221224; email: bilal.zia@pfi.edu.pk



Tender Reference Number:

**TENDER FORM**

for Procurement of Equipment for Tree Molecular Biology Laboratory

Firm Name:

.....

Address:.....

.....Contact Nos: Office.....

Cell..... Phone:.....

email.....NTN:.....GSTNo:.....

CDRNo..... Dated..... Amount.....

Bank.....

**Quoted Price**

Lot #	Equipment Name		Quantity	Total Price in PKR
1.	i	Real-Time PCR System	1	
	ii	PCR Work Station Horizontal Laminar Airflow Cabinet	1	
	iii	Class II A2 Biological Safety Cabinet	1	
2.	i	Mini Bead Ruptor	1	
3.	Increment Borer			
	i	300mm	2	
	ii	450mm	2	
	iii	600mm	2	

Certificate:

It is certified that we have read and understood attached specifications, terms & conditions and shall abide by all specification, terms and conditions.

Signature and Stamp of the Bidder/Firm/Company

## ANNEX-B

**CERTIFICATE/ UNDERTAKING**  
**TO BE SUBMITTED ON THE STAMP PAPER OF Rs.100/-**

1. I/We hereby confirm that we have carefully read and understood the description of the whole genome sequencing services along with the terms, conditions, and special instructions contained in the Tender Document. We unconditionally agree to abide by all such instructions and conditions.
2. I/We further confirm that the quality of the services and data to be provided shall be equal to or better than the standard specifications provided in Section-V of the Tender Document.
3. I/We accept that if the required bid security is not furnished or if our offer is found deficient in any respect as per the requirements of the tender enquiry, our bid may be rejected and not considered for evaluation.
4. I/We further undertake to fully comply with the services delivery procedure, delivery schedule, and all other requirements and conditions mentioned in the Tender Enquiry, which shall form the essence of the contract. In the event of any delay or non-compliance, I/We unconditionally agree to the imposition and recovery of late delivery penalties at the rate prescribed in the Tender Document.
5. I/We certify that the rates quoted in our Financial Bid shall remain valid for a period of 03 months (90 days) from the date of opening of the tender.
6. I/We also confirm that the prices quoted in the Financial Proposal are inclusive of all applicable taxes, and we shall abide by all statutory tax deductions at source in accordance with prevailing tax laws at the time of payment.
7. I/We hereby undertake that, in the event of any ambiguity, dispute, or confusion regarding interpretation of rules, procedures, terms, or conditions, the decision of the Competent authority, Pakistan Forest Institute Peshawar shall be final and binding upon us, and we shall fully accept and comply with such decision.

Name of Firm:

Stamp of Firm: \_\_\_\_\_

Name of Owner

CNIC# of Owner:

Signature of Owner:

Witness Name &amp; CNIC#:

Signature: