No. F. 27-2/25-PPL Government of Pakistan **CENTRAL DRUGS LABORATORY Drug Regulatory Authority of Pakistan** Ministry of National Health Services, Regulation & Coordination

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4-B, SMCHS, Karachi

<<< >>>

INVITATION TO BID

(For Supply of Laboratory Equipment)

Central Drugs Laboratory a Federal Government Drug Testing Laboratory under Drug Regulatory Authority of Pakistan (DRAP), established under the DRAP Act, 2012, invites sealed bids from authorized distributors/suppliers having office/ warehouse in Karachi, registered with Income Tax and Sales Tax Departments and are on Active Taxpayers List of the FBR for the supply of Laboratory Equipment to meet the requirement of Central Drugs Laboratory, Drug Regulatory Authority of Pakistan (DRAP), Karachi during the financial year 2024-25. Single stage two envelope procedure under the PPRA rules shall be followed for submission of bids. Bidding documents containing schedule of requirements can be downloaded from DRAP's official website www.dra.gov.pk or Public Procurement Regulatory Authority (PPRA)'s Online Portal e-Pak Acquisition and Disposal System (EPADS) i.e. www.eprocure.gov.pk for free download. The bids prepared in accordance with instructions in the bidding documents, must be submitted through EPADS by 31-01-2025. Bids will be opened on the same day at 11.30 AM at DRAP HQ Islamabad.

thursday,

(HAMZA ZUBAID MALIK) Depuy Director (Procurement, Projects & Logistics)



CENTRAL DRUGS LABORATORY Drug Regulatory Authority of Pakistan Ministry of National Health Services, Regulation & Coordination 4-B, SMCHS, Karachi <<<>>> <u>BIDDING DOCUMENTS</u> <u>FOR SUPPLY OF LABORATORY EQUIPMENT</u> DURING FY 2024-25

1. INTRODUCTION

Central Drugs Laboratory, Drug Regulatory Authority of Pakistan, hereinafter referred to as CDL, is a federal drug testing laboratory under DRAP which is an autonomous body of the Federal Government established under the DRAP Act, 2012. The Authority invites sealed bids through EPADS from registered suppliers and authorized distributors for supply of Laboratory Equipment as per annexed Schedule of Requirements/ List of Items during the financial year 2024-25.

Single stage two envelope procedure under the PPRA rules shall be followed for submission of bids. The bidding proposals complete in all respect should be submitted online before the closing date as mentioned in notice on EPAD. Bids will be opened on the same day 30 minutes after closing time at DRAP HQ Islamabad or CDL, DRAP Karachi.

2. <u>TERMS & CONDITIONS.</u>

1. The firm must be well established and having office/ warehouse in Karachi.

10th

- 2. Firm should be registered with the FBR for General Sales Tax and Income Tax.
- 3. Only registered suppliers/authorized distributors, who are on Active Taxpayers List (ATL) of FBR, are eligible to supply goods/ services to Government department.
- 4. Firm shall be required to produce attested copies of its registration with the Sales-Tax and Income-Tax Departments.
- 5. The bidding process of single stage two envelope comprising of 'technical proposal' and 'financial proposal' will be followed. Technical and Financial Bids should only be submitted through PPRA's E-Pads and bids submitted in hard form shall not be entertained.
- 6. Each bid should accompany with the amount of <u>earnest money (refundable) 2.5%</u> of the quoted amount or as per following table against each quoted equipment whichever is higher in the form of bank draft or pay order from any scheduled bank in favor of Drug Regulatory Authority of Pakistan, Islamabad and should reach the office of "Deputy Director (Procurement, Project & Logistics) DRAP HQ

Islamabad" not later than closing time on closing date. Technical bid of any firm whose earnest money is received in the office of Deputy Director (Procurement, Project & Logistics) DRAP Islamabad after closing date and time shall be rejected.

S. No	Equipment	Amount (Figures)	Amount (Words)
		PKR	PKR
01	HPLC with PDA Detector	500,000/-	Five hundred thousand
			only
02	Microbalance	350,000/-	Three hundred and fifty
			thousand only
03	Next Generation Impactor + Dose	750,000/-	Seven Hundred and fifty
	Uniformity Sampling Apparatus		thousand only
04	Thermal Gravimetric Analyzer	500,000/-	Five Hundred thousand
		8 2 Y	only
05	Oven	150,000/-	One hundred and fifty
		3.	thousand only
06	Hot Incubator	200,000/-	Two hundred thousand
	Sis Jo	all of it.	only
07	pH meter with printers	50,000/-	Fifty thousand only
08	Laboratory Refrigerator	75,000/-	Seventy-five thousand
	the second	er 22	only

- 7. Earnest money of unsuccessful bidder will be returned at the end of tender process. However, earnest money of successful bidder and second lowest bidder will be retained until award of contract / purchase order. The successful / lowest bidder will be required to submit performance guarantee amounting to 7.5% of the quoted amount. The same will be returned One year after successful installation (IQ/OQ) and training of relevant staff and shall be subject to deductions, if any, on account of penalty.
- 8. Quoted Rates must be inclusive of all taxes, GST will be paid by the firm itself and not by the end user i.e. DRAP. The rates must be valid for one financial year i.e. 2024-25 and no subsequent changes will be allowed.
- 9. The rates quoted by the firm must include all logistics cost, customs clearance charges, installation costs, any hidden / extra charges and training of DRAP's staff by the firm on the equipment supplied. DRAP will only reimburse rates quoted by the firm against every item.
- 10. Losses sustained by DRAP due to under quality/ poor quality supplies will be charged to the firm.
- 11. Only genuine/ original supplies as per mentioned specifications will be acceptable. Sub-standard supplies will be forfeited and liable to immediate cancellation of

supply order and black listing of the firm.

12. <u>All items must be originally from USA / Europe or Japan only (The items supplied should originally be manufactured in the mentioned areas)</u>

- 13. The bidder shall indicate clearly, make, grade, brand, whether ex-stock or imported and origin of the Laboratory equipment against each item.
- 14. In case the firm is found to be of misstatement, or delayed supply of items beyond the period of 15 days for ex-stock items and 12 weeks for imported items or failed to provide the items of prescribed standard or refuse to supply any items during financial year 2024-25, his bid shall be cancelled without any notice and the earnest money will be forfeited and can be blacklisted.
- 15. DRAP reserves the right to reject all bids or proposals at any time prior to the acceptance of a bid or proposal. The Authority shall complete the tender process through E-pads. Any grievance / clarification of the firm shall be strictly dealt with in accordance with PPRA's E-Pads system.
- 16. Technical and financial evaluation report will be uploaded on PPRA's E-pads for added transparency in due course of time.
- 17. Blacklisted firm(s) shall not be eligible to participate. An affidavit / undertaking to this effect shall be attached with technical proposal.
- 18. Incomplete and conditional bids shall be rejected.
- 19. The quantities mentioned in schedule of requirement are for estimation only and the order quantities can vary subject to requirement of the Authority.
- 20. The bidders must quote against the same specifications mentioned in bidding document and prices must be filled in the schedule of requirement affixed with bidding document.

3. Tender eligibility/ Evaluation of Technical & Financial bids

Technical bids of all bidders shall be evaluated on the basis of fulfilling the following mandatory conditions/requirements. The bidders must attach documentary proof with the technical bid for their qualification as per the given criteria. Firms failing to fulfill any of the given conditions shall be disqualified and their financial bids will be returned / disqualified unopened.

Sr.	Eligibility/ Evaluation Criteria Requirement Supporting Documents to Attached as		Documents to be
1.	Sales Tax Registration (Active Status)	Mandatory	Annex-A
2.	Income Tax Registration (Active Status)	Mandatory	Annex-B

3. Must have minimum 5 years' experience (copies of experience letters of 2 reputed govt. organizations be attached). Mandatory Annex-C 4. Affidavit/ undertaking that the firm has never been blacklisted by any organization/ government on judicial stamp paper. Mandatory Annex-D 5. Certificate of Authorized Dealership for the item quoted where authorized dealers are available in Pakistan <u>or</u> CDL specific rights to sell and provide service for the item where authorized distributor is not available and certificate of training of engineer from manufacturer of equipment. Mandatory Annex-F 6. Certificate of Country of Origin (USA/ Europe/Japan only) Mandatory Annex-F 7. Affidavit / undertaking on stamp paper that the firm has read and agrees to the contents of the tender document. Mandatory Annex-G 8. Detailed Specifications against the equipment (Annex-YII). Evidence from official specification sheet to be attached and highlighted Mandatory Annex-H 9. Earnest Money/ Bid Security as per clause 6 of terms and conditions through bank draft/ pay order (To be submitted with technical as well as financial proposal) Mandatory Hard copy of Bank Draft must be sent before closing date to DRAP HQ Islamabad			[I
been blacklisted by any organization/ government on judicial stamp paper. Mandatory 5. Certificate of Authorized Dealership for the item quoted where authorized dealers are available in Pakistan or CDL specific rights to sell and provide service for the item where authorized distributor is not available and certificate of training of engineer from manufacturer of equipment. Mandatory Annex-E 6. Certificate of Country of Origin (USA/ Europe/Japan only) Mandatory Annex-F 7. Affidavit / undertaking on stamp paper that the firm has read and agrees to the contents of the tender document. Mandatory Annex-G 8. Detailed Specifications against the specification sheet provided for respective equipment (Annex-I to Annex-VIII). Evidence from official specification sheet to be attached and highlighted Mandatory Annex-H 9. Earnest Money/ Bid Security as per clause 6 of terms and conditions through bank draft/ pay order (To be submitted with technical as well as financial proposal) Mandatory Hard copy of Bank Draft must be sent before closing date to DRAP HQ	3.	(copies of experience letters of 2 reputed	Mandatory	Annex-C
 item quoted where authorized dealers are available in Pakistan <u>or</u> CDL specific rights to sell and provide service for the item where authorized distributor is not available and certificate of training of engineer from manufacturer of equipment. 6. Certificate of Country of Origin (USA/ Europe/Japan only) 7. Affidavit / undertaking on stamp paper that the firm has read and agrees to the contents of the tender document. 8. Detailed Specifications against the specification sheet provided for respective equipment (Annex-I to Annex-VIII). Evidence from official specification sheet to be attached and highlighted 9. Earnest Money/ Bid Security as per clause 6 of terms and conditions through bank draft/ pay order (To be submitted with technical as well as financial proposal) Mandatory 	4.	been blacklisted by any organization/	Mandatory	Annex-D
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the firm has read and agrees to the contents of the tender document. Mandatory 8. Detailed Specifications against the specification sheet provided for respective equipment (Annex-I to Annex-VIII). Evidence from official specification sheet to be attached and highlighted Mandatory Annex-H 9. Earnest Money/ Bid Security as per clause 6 of terms and conditions through bank draft/ pay order (To be submitted with technical as well as financial proposal) Mandatory Hard copy of Bank Draft must be sent before closing date to DRAP HQ	6.		Mandatory	Annex-F
 specification sheet provided for respective equipment (Annex-I to Annex-VIII). Evidence from official specification sheet to be attached and highlighted Firm Providing lower specifications will be disqualified. 9. Earnest Money/ Bid Security as per clause 6 of terms and conditions through bank draft/ pay order (To be submitted with technical as well as financial proposal) Mandatory Mandatory Mandatory Mandatory Bank Draft must be sent before closing date to DRAP HQ 	7.	the firm has read and agrees to the contents of	Mandatory	Annex-G
9. Earnest Money/ Bid Security as per clause 6 of terms and conditions through bank draft/ pay order (To be submitted with technical as well as financial proposal) Mandatory Hard copy of Bank Draft must be sent before closing date to DRAP HQ	8.	specification sheet provided for respective equipment (Annex-I to Annex-VIII). Evidence from official specification sheet to be attached and highlighted Firm Providing lower specifications will be	Mandatory	Annex-H
of terms and conditions through bank draft/ pay order (To be submitted with technical as well as financial proposal)Draft must be sent before closing date to DRAP HQ		disqualified.	5	
Islamabad	9.	of terms and conditions through bank draft/ pay order (To be submitted with technical as	Mandatory	Draft must be sent before closing date to
				Islamabad

After technical evaluation, financial Bids of only technically qualified firms shall be opened and evaluated in accordance with PPRA Rules. Financial bids of technically unsuccessful bidders will be returned unopened. Submission of Bank drafts / pay orders as earnest money in respect of all bidders shall be mandatory. In absence of earnest money, the bid shall be rejected. Item-wise rates of items quoted by firms in the Schedule of requirements/ Annexure-IX will be evaluated and comparative statement prepared.

4. Preparation/ Submission of Bids

The bidding process of single stage two envelop comprising 'financial proposal' and the 'technical proposal' will be followed. The technical proposal must be submitted

through E-Pads and should include all the mandatory documents as indicated in the evaluation criteria. Financial proposal shall include the schedule of requirements (list of items) duly filled with rates in Pakistani rupees (including all taxes) and must be signed/ stamped by the bidder. A picture of Pay order/ bank draft for earnest money must be uploaded on E-pads alongwith technical and financial proposal and must be sent to Deputy Director (PPL) DRAP Islamabad.

5. **Award Criteria**

The technical bid of all the bidders who submit their proposal through E-pads will be evaluated in the light of all terms and conditions as mentioned in the tender document. The eligible bidder(s) who are found technically responsive / qualified will be informed through technical evaluation report published on E-pads. Financial bid of only technically responsive firms will be opened on date and time specified through E-pads.

The eligible bidders who comply with the required specifications and offer the lowest rates against each item will be declared as successful bidders and will be offered the contract for supply of specified items during the financial year 2024-25 as per terms and conditions of the tender document.

6.

Penalties The DRAP with the approval of Chief Executive Officer shall award the following penalties to defaulting bidders as follows:

- A bidder can withdraw its bid before opening of bids. However, after opening i. of technical or financial bids, the bidders will not be allowed to withdraw their bids. If any bidder opts to withdraw its bid, his bid money shall be confiscated R in favor of DRAP.
- ii. Addition/ Modification of bids to alter its substance shall not be allowed after opening of bids. If any bidder found to have submitted fake document/ statement in support of his qualification, the bidder shall be disqualified and bid money forfeited in favor of DRAP and blacklisted.
- In case of delay in supplies beyond the prescribed delivery period, a penalty (a) iii. 0.5% per day maximum up to 10% of the total value of work order will be imposed and recovered from the invoice/ bill or performance security of the bidder.
- If a firm fail to comply with bidding document, letter of award, supply orders, iv. specifications of items, DRAP shall award appropriate penalty including cancellation of contract/ forfeiture of bid money or performance security and shall be blacklisted.
- In case of any grievance, the firm may submit it to the grievance committee on v. E-pads which will announce its decision in 15 working days and the decision of the grievance committee will be final.

7. **Payments for supplies**

Pavment to the approved suppliers shall be made within 45 working days of the

receipt of complete invoice/ bills for all such supplies which have been duly approved by the procuring agency and are in accordance with the specifications as per bidding documents. The supplier will submit to the procuring agency separate invoice/ bill for each purchase order along with delivery challan duly signed / verified by the receiving officer.

Requirement of Technical Specifications	quirement of Technical Specific	ations
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S. No	Equipment	Specifications
01	HPLC with PDA Detector	Annex-I
02	Microbalance	Annex-II
03	Next Generation Impactor + Dose Uniformity Sampling Apparatus	Annex-III
04	Thermal Gravimetric Analyzer	Annex-IV
05	Oven	Annex-V
06	Hot Incubator	Annex-VI
07	pH meter with printers	Annex-VII
08	Laboratory Refrigerator	Annov VIII
	Hot Incubator pH meter with printers Laboratory Refrigerator Laboratory Refrigerator Laborat	

Name	HPLC with PDA Detector	1	Quar		01
	red Specifications	Quoted Specification		Complie	
(Follo	wing or better)			Complie	es
Syster	n comprising of followings:				
•	Quaternary Gradient Pump				
•	Vacuum Degasser				
•	Column Oven				
•	Auto-Sampler	S C		Y	
•	PDA Detector	6	Э.		
•	Computer Data System with Windows	83 . (. N.			
	based software including Computer and				
	Laser Printer.		-		
•	HPLC Installation kit / Performance Kit	Gradie and	3		
•	Operating manual				
•	Electrical: 220V 50Hz Single Phase	Nº gh			
Specif	ications:		6		
•	Quaternary Gradient Pump	y pr			
	• Operating principle: Dual-	ality of 5			
	plunger pump, high-pressure	Nº SO Nº			
	gradient, low-pressure				
	quaternary gradient	× 6			
	• Flow range: 0.001ml/min	ent. 2025. A. A. Dolist			
	10ml/min	2			
		0			
		P ⁻¹			
	RSD				
	 Maximum pressure: 11000 psi 	S),0			
	or better at up to 5ml/min	6.10			
	\circ pH range: 1 to 14	XO ICINY.			
	• Line Voltage: 220V				
	 Flow Control Monitoring: 	x0, ~15,			
	Automatic				
•	Vacuum Degasser	<i>KO</i> ,			
	• Number of channel: 5 CHs				
	• Maximum flow rate: 10ml/min				
	per channel				
	• Degassed flow line capacity:				
	350μL/line Ruilt in high efficiency low				
	 Built in high efficiency, low volume, and vacuum degassing 				
	system with separate vacuum				
	chambers for each solvent.				
	chambers for each sorvent.				
Colur	nn Oven				
Colul	• Temperature range: Ambient -				
	10°C to 90°C.				

		1	
0	Temperature precision: ±0.05°C		
0	Temperature accuracy: $\pm 0.5^{\circ}C$		
0	Column capacity: Minimum		
0			
	Three for 300mm Column or		
	Five for 250mm Column		
0	Column switching: Automatic		
Auto sample	-		
	Needle wash system as standard		
0	•		
	that uses fresh solvent with each		
	injection.		
0	Sample capacity: 1.5ml x 160 or	191 B.	
	2ml x 140		
		80	
0	Sample delivery Precision:		
	≤0.25%RSD at 5µL		
0	Injection Accuracy: $\pm 1\%$ at $5\mu L$		
0	Injector Linearity: ≥0.999		
0	Carry Over: < 0.001% with	Malik projects & Logistics	
	programmable needle week	0°	
	programmable needle wash		
	Program	& SPA	
0	Injection volume: 0.1 µL -	x x 5 6 X	
	2000µl with all necessary	all or No	
	accessories.	A OF N	
0	Sample Temp control: 4 to 40		
0	Sample Temp control. 4 to 40		
	°C	and a second	
0	pH Rane: 1 - 14	e or	
	12 0		
Photo Diode	Array Detector:	d'	
0		0-	
_	No. of PDA Channel: 1024.		
0		6	
0	Wavelength: 190 - 800nm	10.20	
0	Optical Resolution: ≤1.5nm	10 N. 19	
0	Path-length: 10mm		
0	Low noise sensitivity = $<5\mu AU$		
0	Drift : $\leq 0.5 \times 10^{-3}$ AU/hr		
_			
0	Wavelength Accuracy: ±1nm		
0	Flow Cell: Temperature		
	Controlled.	stor 2025,	
Computer Sy	ystem:	0	
	*31 -06		
Intel Core i5	14 th generation 14.7GHz or above,		
	256 GB SSD, DVD Rom, Intel		
1	cs, Ethernet LAN, USB Optical		
Mouse, USE	Business Keyboard, 22" LED		
	siness series. Similar or Better		
	th Laser Printer Latest Model with		
-			
	ndows 10 upgradable to Windows		
	e of Central Drugs Laboratory		
Chromatogr	<u>aphy Software:</u>		
L			

Chromatography Software should help entire laboratory operates better and can be upgraded to network solution when required. Software should increase productivity and lower trainee cost.

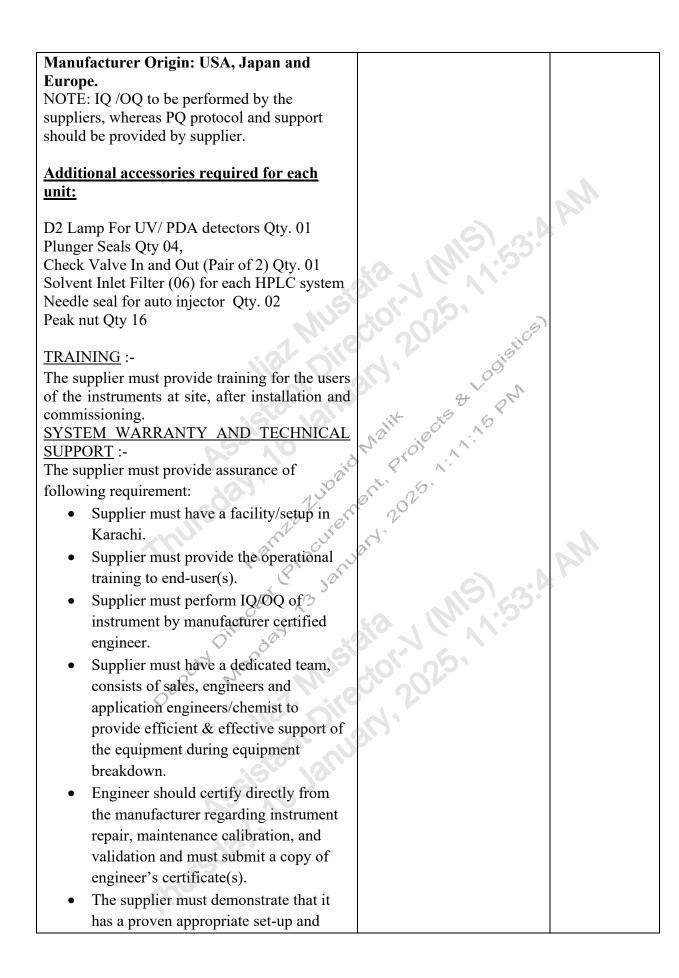
Must have following features:

- Able to control equipment
- Must be able to create instrument processing methods, batch sequence, batch integration runs.

53:A AN

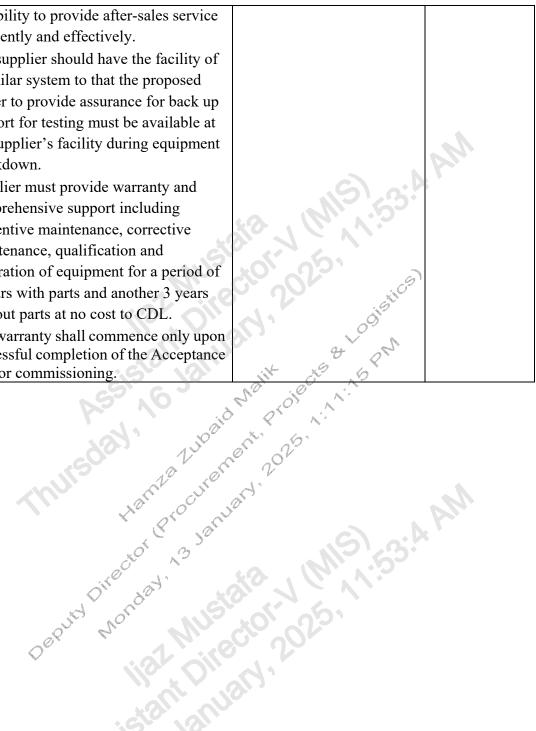
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- Maintain compliance and security requirements.
- Improve information management, storage, and data management capabilities.
- Must Meet FDA CFR 21 Part 11 Compliance requirements.
- Upgradable to Network Solution
- Includes data integrity advance security and audit trail.
- Must be based on MS SQL Software.
- Must be able to support multi-vendor HPLC/UHPLC/UPLC systems
- Software with built in relational database to allow search-ability, traceability & data filtering for all available information.
- The software must have a high security defined by user privilege and provide audit trail & electronic signature capabilities.
- Should be running on Windows 10 and new upgrades.
- Primary system security should be provided by the CDS and not the operating system. Data stored in the database should not be accessible directly by user.
- Calibration: Internal and external standard calculation methods, calibration of groups of peaks and reference peaks method for better identification.
- License to be provided to integrate with existing Lab Solution CS Software.



capability to provide after-sales service efficiently and effectively.

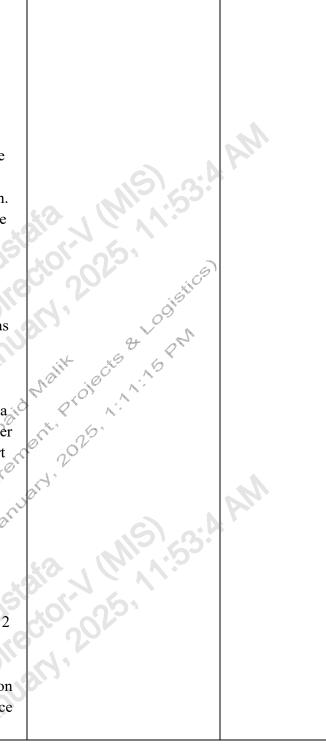
- The supplier should have the facility of a similar system to that the proposed tender to provide assurance for back up support for testing must be available at the supplier's facility during equipment breakdown.
- Supplier must provide warranty and comprehensive support including preventive maintenance, corrective maintenance, qualification and calibration of equipment for a period of 2 years with parts and another 3 years without parts at no cost to CDL.
- The warranty shall commence only upon successful completion of the Acceptance Test or commissioning. Thursday,



Name Microbalance			Quantity 02
Required Specifications		Quoted Specification	Complies/ Not Complies
Technical Specification :-			
Minimum Weighing Capacity (USP):-	0.82mg		
Minimum Weighing Capacity (U=1%, k=2):-	0.082mg		AM
Minimum Load:-	0.1mg	S)	
Readability:-	1µg	.a (N)	
Linearity:-	$\pm 3 \mu g$		
Pan size :-	Ø 90x90	5	
	mm		9
	approx		
Eccentric Load deviation	3 μg	d' our	
Printer :-	Dot		0
	Matrix.	N x S R	
Data Transfer:	PC;	all oct in	
Printer; USB stick	NO ×	R. LOI VV	
Connectors:	LAN	ent. 2025. A. A. S. P.	
USB, R232, Wifi/Bluetooth	1.00	or voi	
Compliance:	21CFR	N	
part 11, User Management with	password,	A.	_
GMP, GLP, Data integrity, Data	e and Time	0	DIA.
stamped	8 301	G	
Anti-Static Ionizer:	Built		5.
In or as an accessory	1.	50 . C. V.	
Originally Made in USA / Euro	ope/Japan/		
Australia	NUS	ctor 2025	
<u>OTHERS</u> :-	N	C ^L O ^L	
Instrument(s) must be GLP/GM	P compliant		
A declaration of Conformity cer	tificate must		
be provided.	SU, 40		
TRAINING :-	191.		
The supplier must provide train			
users of the instruments at	,		
installation and commissioning.			
SYSTEM WARRANTY AND T. SUPPORT :-	EUNIUAL		
The supplier must provide assura	nce of		
following requirement:			
 Supplier must have a facility/ 	setup in		
Karachi.	1		

- 2. Supplier must provide the operational training to end-user(s).
- 3. Supplier must perform IQ/OQ of instrument by manufacturer certified engineer.
- Supplier must have a dedicated team, consists of sales, engineers and application engineers/chemist to provide efficient & effective support of the equipment during equipment breakdown.
- 5. Engineer should certify directly from the manufacturer regarding instrument repair, maintenance calibration, and validation and must submit a copy of engineer's certificate(s).
- 6. The supplier must demonstrate that it has a proven appropriate set-up and capability to provide after-sales service efficiently and effectively.
- 7. The supplier should have the facility of a similar system to that the proposed tender to provide assurance for back up support for testing must be available at the supplier's facility during equipment breakdown.
- 8. Supplier must provide warranty and comprehensive support including preventive maintenance, corrective maintenance, qualification and calibration of equipment for a period of 2 years with parts and another 3 years without parts at no cost to CDL.
- The warranty shall commence only upon successful completion of the Acceptance Test or commissioning.

nursdat



Annex-III

Name	Next Generation Impactor + Dose Un Apparatus	niformity Sampling	Qu	antity	01
	l Specifications ng or better)	Quoted Specification	1	Complies Complies	
	neration Impactor (for both MDI and			compile	5
DPI)	- 、				
Stages: 7					
Flow rate		S	. P		
	size range: 0.24 – 14.1 micron ng upon flow rate)				
× 1	of construction: Anodized Aluminium	So I C. V.			
	tainless Steel				
NGLI 1	MU		B		
	uction Port with mouthpiece adapter				
NGI Pres	licon Rinsing cap for induction port	0 ⁹¹			
	licon Rinsing cap for preseparator	A A			
Filter ho	lder	× 9 6			
-	Collection Cups for APSD	Nall Con A			
NGI Cup	Rack	E NO N			
NGI Wa	sh Rack				
Vacuum	Pump 2	Malik projects & Logie Malik projects & Logie ent. 2025. 1:11:15 pm			
Flow Co	ntroller 10 00	N. V		<u>^</u>	
Flow Rat	te Sensor ece Adapter (for 24 types of inhalers) ne Verification Kit	and.			
Mouthpi	ece Adapter (for 24 types of inhalers))**			
Flow Tin	dapter Kit	S	÷D		
	12 Inlet Filters	6.11	0		
	eter Adapter for Ind				
Port/DU	SA/WSC2/Filter Holder/Child Alberta				
Throat	out no he	40° 2'''			
Custom	Mouthpiece Adapter for Induction				
	SA, WSC2, Filter Holder and Child	2			
-	Idealised Throat	9			
Tooling	Charge for Custom Mouthpiece				
Adapter	Charge for Custom Moumplete				
	Cesting Qualification Kit				
	i d'i				
DUSA fo					
-	Collection Tubes (10 Nos)				
Kinsing	Caps (20 Nos)				
DUSA fo	or DPI				
	Collection Tubes (10 Nos)				
Rinsing	Caps (20 No)				

Inhaler testing workstation Stand for 10 Collection Tubes ITW Holder for DPI DUSA ITW Holder for MDI/DPI Filter Support Cap ITW Holder for FRS

Advanced Report Generator Software.

Indispensable help in APSD tests using ACI, NG or Impingers.

Data entry, User-friendly interface for inputting test data, including equipment types and performance metrics

Automatic validation checks to ensure data integrity and compliance with standard testing protocols FDA 21 CFR (USP, Ph. Eur.) Pre-defined report templates that can be customized to fit specific research needs and formatting requirements

Automatic Calculations: built-in formulas to calculate metrics such as:

Emitted dose (ED), Metered dose (MD), MMAD (Mass Median Aerodynamic Diameter), GSD (Geometric Standard Deviation), FPD (Fine Particle Dose), FPF (Fine Particle Fraction), Recovery, Cumulative percentages

Ability to export reports in various formats (PDF Visualization tools for creating graphs and charts 3 201 to illustrate test results.

TRAINING: -

The supplier must provide training for the users of the instruments at site, after installation and commissioning.

SYSTEM WARRANTY AND TECHNICAL **SUPPORT: -**

The supplier must provide assurance of following requirement:

- 1. Supplier must have a facility/setup in Karachi.
- 2. Supplier must provide the operational training to end-user(s).
- 3. Supplier must perform IQ/OQ of instrument by manufacturer certified engineer.
- 4. Supplier must have a dedicated team, consists of sales, engineers and application

engineers/chemist to provide efficient & effective support of the equipment during equipment breakdown.

- 5. Engineer should certify directly from the manufacturer regarding instrument repair, maintenance calibration, and validation and must submit a copy of engineer's certificate(s).
- 6. The supplier must demonstrate that it has a proven appropriate set-up and capability to provide after-sales service efficiently and effectively.

1:53:4 AM

rojects & Logis 5. 1. A. A. A. B. P.M.

- 7. The supplier should have the facility of a similar system to that the proposed tender to provide assurance for back up support for testing must be available at the supplier's facility during equipment breakdown.
- 8. Supplier must provide warranty and comprehensive support including preventive maintenance, corrective maintenance, qualification and calibration of equipment for a period of 2 years with parts and another 3 years without parts at no cost to CDL.
- 9. The warranty shall commence only upon successful completion of the Acceptance Test or commissioning.

Annex-IV

Name	Thermal Gravimetric Analyze	r	Quar	tity	01
Required Specif		Quoted	-	Compli	es/
(Following or be		Specification		Not	
· -		-		Compli	es
Temperature					
range	Ambient to 1100°C				
Measurable					
range (µV)	± 1 to $\pm 1000 \mu V$				
Measurable		12.3.			
range (mg)	±500mg				
Balance	210				
principle	Parallel guide differential top pan type				
Weight		6			
readability	0.1µg	-KIOT			
	Thermocouple of platinum plus 10%	di ⁹			
Detector	platinum/rhodium (plug-in type)	8 Logist			
Sample	and	8 5			
quantity	1g Max. in gross weight				
Atmosphere	Air and inert gas				
Raise/Lower	The furnace can be raise or lower with the				
furnace	key on the front panel (only when the				
	autosampler is not in operation).				
Interrupt	con to no con				
measurement	Possible Setting at 0.1°C/min or 0.1°C/hour				
	and our and				
Analysis	the pro not				
conditions		C			
Heating rate		12.2.			
	increment/decrement, maximum heating				
	rate 50.0°C /min				
Atmosphere	Air or inert gas (nitrogen, helium, or	2			
	argon) Static or 30 to 50 ml/min				
Sample form	Substance which is solid or liquid qt				
	ambient temperature (A void measuring a				
	sample possibly evolving toxic exhaust or				
	generating corrosive degradation products)				
	191 121				
Cleaning	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~				
condition	Clean an averally of the sets - 6200 to 200				
"Cleaning"	Clean air supply at the rate of 200 to 300				
gas	ml/min required in order to bake and clean				
	up the furnace/detector. On/off control with the built-in solenoid value.				
	with the built-in solehold value.				
Flow	To control the flow rate of atmosphere				
Controller	gases (of two channels)				
	Subob (of two enalitions)				

The gas ON/OFF control must be performed according to a temperature program, the atmosphere should be automatically changed during a measurement.

Sample Pans Platinum pan, $ø6 \times 2.5$ Platinum lid, ø6 Al (Aluminium) crimp pans + lids, $\phi 6 \times$ 1.5 (50/set)

Air	Oil Less Air Compressor capable of
Compressor	delivering
	Clean air supply at the rate of 200 to 300
	ml/min required in order to bake and clean
	up the furnace/detector. On/off control
	with the built-in solenoid value.
	Nitrogen Gas cylinder with Regulator,
Inert Gas	Staibess Steel gas supply pipe
Computer Sys	tem:

Intel Core i5 14th generation 14.7GHz or above, 16GB RAM, 256 GB SSD, DVD Rom, Intel UHD Graphics, Ethernet LAN, USB Optical Mouse, USB Business Keyboard, 22" LED Monitor, Business series. Similar or Better Computer with Laser Printer Latest Model with Licensed Windows 10

upgradable to Windows 11 in the name of Central Drugs

Laboratory Software:

Sample number: Measuring conditions: File name: Number of finish lines: Display items: Sample insert/remove Temperature:

Report format: Automatic analysis:

Sample numbers can be specified Before measurement is started, a s temperature program, and comme sample number.

A file name can be specified for e Automatic naming function is pro 1 to 200 lines (Any number can be Sample number, State, File name, temperature, Lot number, Comme Enable/Disable output.

The temperature at which a sampl be specified.

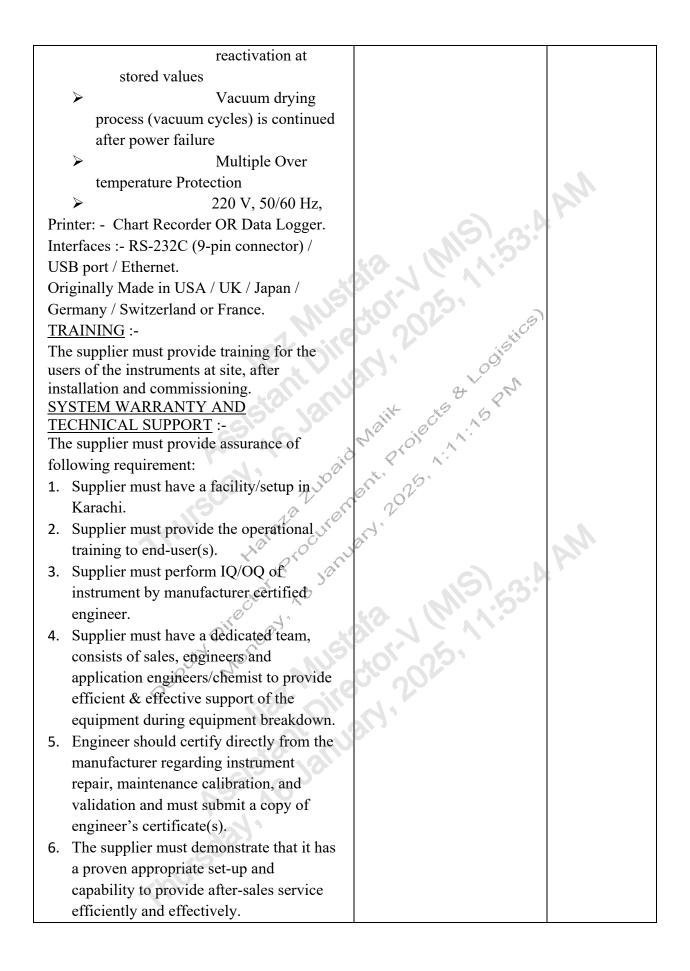
Saved in the same report format a Automatic analysis is performed f according to the analysing conditi Automatic analysis can be perform parameters including Temp./time Peak analysis, Baseline transition transition analysis, Heat analysis a

		1
A	utomatic manipulation:	Automatic manipulation is performed for a measurement data
1		file, according to the manipulating conditions used for the
1		template file. Smoothing. Heat correction, Derivative, and
.	.	Temperature correction can be performed.
A	utomatic output:	Output to a printer and ASCII file is possible.
		The measurement program including file information and
		temperature program, analysis results, data history and
		measurement data are converted into strings and saved in an
		ASCII file.
D	ata Reference	Files stored on the server PC are referred to using existing
		LabSolutions CS data manager.
T	sor mono comont	The user management function should be used of existing LabSolutions CS client server software.
	ser management	
		Policies specific to thermal analysis are specified and
		managed using the system control function of existing LabSolutions CS client server software.
1		Each project is backed up using the backup function of
R	acking up data	existing LabSolutions CS client server software.
	acking up data	existing Laboorations Co chemi surver software.
C	ompliance	21 CFR part 11, Data Integrity, ER/ES, GMP, GLP
	anufacturer Origin: USA	A. Japan and Europe.
		med by the suppliers, whereas PQ
		be provided by supplier.
1		10 00 02
TR	AINING :-	10 00 2
		e training for the users of the
ins	truments at site, after inst	allation and commissioning.
SY	STEM WARRANTY AN	ND TECHNICAL SUPPORT :-
	e supplier must provide a	ssurance of following
rec	uirement:	
1.	Supplier must have a fac	ility/setup in Karachi.
2.	Supplier must provide th	e operational training to end-
	user(s).	er Ne Ce OF
3.	Supplier must perform I	Q/OQ of instrument by
	manufacturer certified en	
4.		dicated team, consists of sales,
		n engineers/chemist to provide
	• •	port of the equipment during
	equipment breakdown.	port of the equipment during
F		directly from the manufacturer
5.	-	directly from the manufacturer
		air, maintenance calibration, and
	validation and must sub	nit a copy of engineer's
	certificate(s).	
6.		nstrate that it has a proven
	appropriate set-up and ca	apability to provide after-sales
	service efficiently and efficiently	ffectively.
	J	- 1

- 7. The supplier should have the facility of a similar system to that the proposed tender to provide assurance for back up support for testing must be available at the supplier's facility during equipment breakdown.
- 8. Supplier must provide warranty and comprehensive support including preventive maintenance, corrective maintenance, qualification and calibration of equipment for a period of 2 years with parts and another 3 years without parts at no cost to CDL.

The warranty shall commence only upon successful completion of the Acceptance Test or commissioning.

completion of the Acceptance	test of commissio	ming.		
	MUST	scior 2025	3)	Annex-V
Name Oven			Quantity	01
Required Specifications		Quoted Specification	-	olies/ Not
(Following or better)		the second secon	Comp	olies
1 .	02 cu. ft. (29 Litre).	Quoted Specification		
1 0	Cabove ambient up	Nº JOIN N'		
to +200°C.	A ⁱ O	R N		
	Fuzzy-supported	and also		
Villti Laval Confra	lling V	200		
microprocessor con	troller adapting its	A		
	performance to	D ^N		
the volume for each thermo	shelf 2			
	emperature	S.S.	+	
measured through 4	-wire Pt100	10 N		
sensor individually	for each thermo			
shelf	Show Show	ctor 025		
	ntegrated timer for			
tempering and press	sure (vacuum)			
profiles	Via On	2		
	Digital electronic	9		
pressure control thr	ough solenoid			
valves	Sis Ja			
	Adjustment range			
from 10 mbar to 11	00 mbar - digital			
(LED)	<u>3</u> .			
	Setting accuracy 1			
mbar				
	apid air intake for			
door opening (door	-			
vacuum) program	me			



- 7. The supplier should have the facility of a similar system to that the proposed tender to provide assurance for back up support for testing must be available at the supplier's facility during equipment breakdown.
- 8. Supplier must provide warranty and comprehensive support including preventive maintenance, corrective maintenance, qualification and calibration of equipment for a period of 2 years with parts and another 3 years without parts at no cost to CDL.
- 9. The warranty shall commence only upon successful completion of the Acceptance Test or commissioning.

Deputy Internally, 12 January, 2025, 1, 1, 1, 5 P

1:53:4 AM

Jame	Hot Incubator		Quantity 01
Required Specifications Following or better)	·	Quoted Specification	Complies/ Not Complies
Specification :-			
Capacity :-	400Litre		
Temperature range :-	Ambient +5 °C to 80 °C.		
Interior	Stainless Steel		
Recovery Time 30 to 37:	10mins	S	>
Power :- 22	20 Volts.		
Printer :- Printer or Data Log	gger for Humidity /Temp.		
Interfaces :- RS-232C (9-pir	n connector) I/O port / USB po	ort / Ethernet.	
Originally Made in USA / U	JK / Japan / Germany / Switze	rland or France	
<u>OTHERS</u> :-		Stit	
	GMP compliant A declaration	of Conformity certi	ficate must be provide
<u>TRAINING</u> :-		4 1	
	training for the users of the	ne instruments at sit	te, after installation
commissioning.	ID TECHNICAL CURDODT	O N	
<u>SYSIEM WAKKANIY A</u> The supplier must provide a	ND TECHNICAL SUPPORT ssurance of following requires	:- ment:	
	ility/setup in Karachi.	nicit.	
	ne operational training to end-	user(s)	
	Q/OQ of instrument by manuf		ineer
	dicated team, consists of sales		
	fective support of the equipme		
-	directly from the manufacture		
	on and must submit a copy of		_
6. The supplier must demo	nstrate that it has a proven ap		
after-sales service efficie	ently and effectively.	stopilate set ap ana t	
	e the facility of a similar syste	m to that the propose	ed tender to provide
=	pport for testing must be avai		-
equipment breakdown.		11	5 0
	varranty and comprehensive su	pport including prev	entive maintenance,
	qualification and calibration of	•••	
	s without parts at no cost to C		5
-	mmence only upon success		he Acceptance Test
commissioning	di	-	
	0.7	I	I
ISU.			

Name	pH Meter		Quar	ntity	01
Required Specifications		Quoted		Comp	lies/
(Following or better)		Specification		Not	
				Comp	lies
pH Range : -2.	0 to 20.000				
pH Accuracy: ± 0 .	002		~		
pH Resolution : 0.0	001				
mV Range : ± 2	2000.0	SA			
mV Accuracy: ± 0	.1				
mV Resolution: 0.	1				
Temperature Range: -30°C	C to +130.0°C				
Temperature Accuracy: ± 0.1	No do di	6			
Temperature Resolution: 0.1	1	CHIO-			
Automatic Temperature Comp	pensation	& Logist			
Electrode: Sta	andard (3 Nos.)	A A			
Electrode Stand with Base: 0		a st			
Calibration Standard solution	(NIST traceable) pH 4, 7, 10 ¢Q	ty min. 100 ml e	each		
Memory: 250	0 analyses (20,000 data points)				
Data Transfer: PC	Printer; USB stick				
Connectors: LA	N, USB, R232				
Compliance: 21C	FR part 11, User Management w	vith password, G	MP, C	GLP, Da	ata integri
Date and Time stamped	all who d'	-			
Printer: Do	t Matrix		2		
Display: Hi	gh Resolution Touchscreen				
	bable of minimum 3 point calibr	ation			
Originally Made in USA / Eur					
TRAINING :-	207 201				
The supplier must provide tr	aining for the users of the ins	struments at site	e, afte	r insta	llation an
commissioning.	Mo do o'h				
SYSTEM WARRANTY AND					
	urance of following requirement	:			
1. Supplier must have a facili					
	operational training to end-user(
	OQ of instrument by manufactu	-			
	cated team, consists of sales, eng				
	de efficient & effective support	of the equipmen	t durii	ng equij	oment
breakdown.					
5. Engineer should certify dir	ectly from the manufacturer reg	arding instrume	nt repa	iir, mai	ntenance
calibration, and validation	and must submit a copy of engin	neer's certificate	e(s).		
6. The supplier must demonst	trate that it has a proven approp	iate set-up and c	capabi	lity to p	orovide
after-sales service efficient	tly and effectively.				

- 7. The supplier should have the facility of a similar system to that the proposed tender to provide assurance for back up support for testing must be available at the supplier's facility during equipment breakdown.
- 8. Supplier must provide warranty and comprehensive support including preventive maintenance, corrective maintenance, qualification and calibration of equipment for a period of 2 years with parts and another 3 years without parts at no cost to CDL.
- 9. The warranty shall commence only upon successful completion of the Acceptance Test or commissioning..



Annex-VIII Laboratory Refrigerator Quantity 01 Complies/ Ouoted Specification Not Complies Digital (1° C increments) 12.0 cu. ft. /340 Litre (Refrigerator) 2.90 cu. Ft. / 82 Litre (Freezing Compartment from -20° to -30°C) Electronic thermostat, alarm & memory Single Phase / 220 V / 50Hz Glass Doors with heat reflective film Cyclical defrosting & evaporator temp. detection System RS-232C (9-pin connector) I/O port / USB port Chart Recorder and Data Logger Originally Made in USA / Europe / Japan 9+ Instrument(s) must be GLP/GMP compliant A declaration of Conformity certificate must be provided.

TRAINING :-

OTHERS :-

Name

Required Specifications

Temperature control :

Freezer Temperature :

Temperature display :

Temperature control :

Defrosting System :

Electric power :

Capacity :

Doors : Refrigerant :

Interface :

Printer :

(Following or better)

The supplier must provide training for the users of the instruments at site, after installation and commissioning.

SYSTEM WARRANTY AND TECHNICAL SUPPORT :-

The supplier must provide assurance of following requirement:

02°- 14°C

(-) 20 °C

HFC

- 1. Supplier must have a facility/setup in a local city where instrument will installed
- 2. Supplier must have a dedicated team, consists of sales, engineers and application engineers/chemist to provide efficient & effective support of the equipment during equipment breakdown.
- 3. Engineer should certify directly from the manufacturer regarding instrument repair, maintenance calibration, and validation and must submit a copy of engineer's certificate(s).
- 4. The supplier must demonstrate that it has a proven appropriate set-up and capability to provide after-sales service efficiently and effectively.
- 5. The supplier should have the facility of a similar system to that the proposed tender to provide assurance for back up support for testing must be available at the supplier's facility during equipment breakdown.
- 6. Supplier must provide warranty and comprehensive support of equipment for a period of 12 months without extra cost.
- 7. Supplier must provide services during warranty period, immediate response on service calls, and bear the cost of Labor and Service Parts used for repairs.
- 8. The warranty shall commence only upon successful completion of the Acceptance Test or commissioning. rhursday

LIST OF LABORATORY EQUIPMENT **TENDER ITEMS FOR FY 2024-25**

Note: i. All bidders are advised in their own interest to quote the price according to the required specification of items, the clarification regarding specification can be sought at the time of obtaining tender documents. After opening of bids and issuance of award letter, the firm will be bound to provide the items with required specification without any change in price.

ii. Only specified items mentioned in list, not any other.

iii. Quoted Rates must be legible and no cutting/overwriting allowed.

iv. The undertaking at the end of financial proposal must be signed and stamped.

Annex-IX

[Letterhead of the Firm Containing Address, Phone Numbers]

SCHEDULE OF REQUIREMENTS "Supply of Laboratory Equipment"

S.	Equipment	Quantity	Price per Unit	GST Amount	Unit Price with	Total Price
No	- In the second		av she 201		GST	
01	HPLC with PDA Detector	01	and when the			
02	Microbalance	02				
03	Next Generation Impactor + Dose	01	1 × 30°			
	Uniformity Sampling Apparatus	Å	P B			
04	Thermal Gravimetric Analyzer	01	1			
05	Oven	01	ð' ⁰	2		
06	Hot Incubator	01,50,00				
07	pH meter with printers	02	S			
08	Laboratory Refrigerator	01				
Tota	ll Amount (Figures) PKR	.2	7611			
Tota	l Amount in Words	S				
Page 2	8 of 29	January January	2012			

<u>Undertaking</u>: It is certified that the rate quoted is according to the specification of all items. Further information furnished here in and the documents submitted; is true and correct and nothing has been concealed or tampered with. We have gone through all the conditions of tender and is liable to any punitive action for furnishing false information / documents.

Dated this day of January 2025	٩
Dated this day of January 2025	
In the capacity of	
Duly authorized to sign bids for and on behalf of:	
Page 29 of 29	
Dept N. MIS 53.4	
liaz Nuscior 2025,	
Page 29 of 29	