



TENDER DOCUMENT FOR THE PURCHASE OF LABORATORY EQUIPMENTS

CONTENT

1. PART 'A'

- (i) Notice Inviting
- (ii)
- (iii)
- (iv)
- (v)
- (vi)
- (vii)
- (viii)
- (ix)



Notice Inviting Tender (NIT)

IFBNo.:

Date:

BIDDING FOR PURCHASE OF LABORATORY EQUIPMENTS

1. The Uttarakhand Council of Biotechnology invites sealed bids from **Manufacturers/ Authorized Dealers/ Indian Distributors** for the purchase of laboratory Equipments listed below :-

SR. NO.	NAME OF EQUIPMENTS	QTY.	EMD(Rs.)
1	FITR Spectrophotometer	1 Nos	2 % Of Quoted Value
2	Real Time PCR	1 Nos	2 % Of Quoted Value
3	Nanodrop Spectrophotometer	1 Nos	2 % Of Quoted Value
4	Nucleic Acid Extraction Unit	1 Nos	2 % Of Quoted Value

2. The complete bid document can be downloaded from web site www.ucb.ac.in .

a)	Last date and time for physical submission of bids	26 th March 2024 Up to 5 PM
b)	Date and Time of Opening of Technical Bids	28 th March 2024 At 11: 30 AM
c)	Address for Communication	Uttarakhand Council of Biotechnology Haldi (Pantnagar)
d)	EMD	Required in shape of FDR/DemandDraft in favor of Director UCB Haldi Pantnagar
e)	Tender Fee	Required in shape of DemandDraft in favor of Director UCB Haldi Pantnagar



3. Bids must be accompanied by Demand Draft/Fixed Deposit Receipt as per list given below, pledged in favor of **Director UCB Haldi (Pantnagar)**
4. **The bidder has to submit a hard copy of the bid document along with original copies of EMD, Bid document fees, Authorization Letter from OEM / Manufacturer and other relevant desired documents up to 26th March 2024 Up to 5 PM, otherwise bid will not considered for further process.**
5. The Bidder shall have a **minimum turnover of Rs. 90 lakh during the last 3 financial years** ending 31st March 2023 from related supported & evidenced by the audited accounts of the company
6. In the event of the date specified for bid receipt and opening being declared as a holiday for purchaser's office, the due date for submission of bids and opening of bids will be the following working day at the specified time.
7. The Tender Inviting Authority reserves the right to accept or reject any bid, and to the bidding process and reject all bids at any time (without assigning any reason) prior to award of Contract, without there by incurring any liability to the affected Bidder or bidders or any obligation to inform the affected Bidder or bidders of the grounds for the Purchaser' sanction.

(Director)

Director
Uttarakhand Council for Biotechnology
Biotech Bhavan, Haldi
(U.S.Nagar) Uttarakhand



Part'A'

Technical Bid

**To be submitted in a separate envelope
Superscripting 'Technical Bid'**

Item-----



"PLEASE CAREFULLY GO THROUGH THIS DOCUMENT AND ENSURE COMPLIANCE. THE NON-COMPLIANCE OF ANY CONDITION MAY MAKE YOUR OFFER INVALID"

Part (A): Technical Bid

"Please furnish the following information in this part so as to enable the panel to decide about the qualification & the Technical Bid. Necessary documents/certificates from the appropriate authority must be attached in support of statement at serial '1'to'12' below.

Tenderer's reference No. _____		Date _____
1	Items for which Tender applied for	
2	Name of the renderer	
3	Address	
4	Telephone No.	Fax No.: _____ Mobile: _____ e-mail: _____
5	Earnest Money (must be attached with technical bid) a) FDR/Demand Draft	Rs.: _____ A/c M/s _____ No.: _____ Date _____
6	OEM Authorization / Dealership Certificate	
7	Manufacturing license No. & date	
8	<u>GST registration</u> No .& date (Certificate to be enclosed)	
9	Income Tax PAN. No	
10	ISO awarded Certificate for the Quoted Model (In case it is awarded to the firm)	
11	Please indicate if you are on Government e-Market Place (GEM) portal, (if Yes /No)	
12	Annual turnover for the last three years (a) 2020 –2021 (b) 2021 –2022 (c) 2022 –2023 (certificate from CA is required)	Rs.: _ Rs.: _ Rs.: _



14	After sales service available (Especially in Uttarakhand, Details from Manufacturer must be enclosed)	
15	Non Black listed declaration on Company letter head	
18	Technical specifications on company letterhead for the quoted Model & catalog/brochure model should be enclosed	
19	Authorized dealer's name and address, along with for supply & Billing	
20	Technical Compliance Yes/No	

NOTE:

Before sending/submitting the tender, the tenderer should read carefully, the attached terms & conditions, special terms & conditions and instructions to the tenderer etc.

(Signature of tenderer with seal)



GENERAL TERMS & CONDITIONS

1. Sealed tenders are invited by the "Uttarakhand Council of Biotechnology, Pantnagar" for various Lab equipment.
2. (For a two bid tender) Technical Bid & Financial Bid will be received in two separate sealed envelopes. Both the envelopes will then be putting to one big envelope & sealed properly super-scribing "Technical& Financial Bids" for the supply of.....due on.....
3. (a) The envelope containing Technical Bid should be super-scribed "Technical Bid" for the supply of [Name of].....
(b) Thee envelope containing Financial Bid should be super-scribed "Financial Bid" for the supply of [Name of stores].....
4. Supply of the goods is acceptable on bill basis only .**R.R./documents through bank is not acceptable.**
5. Payment shall be made normally within 30 days from the date of receipt of goods in proper/ satisfactory/ working conditions.
6. Tender documents must be submitted consisting of notice inviting tender, tender form (technical and/or financial), general terms & conditions of supply, special conditions if any, schedule of items duly filled, completed & signed by the tenderer. **(Rates for each item must be quoted in Financial Bids)**
7. Tenders should be addressed to the Director, **Uttarakhand Council for Biotechnology, Haldi, Pantnagar-263145**(U.S.Nagar) Uttarakhand, duly sealed properly.
8. Tenders will be received in the office of "Directors Office, UCB Haldi" up to 26th March 2024 Up to 5 PM **at** and Technical Bid/ tender as per tender notice will be opened on dated 28th March 2024 at 11.30 A.M.
9. The tender should be submitted along with a demand draft or fixed deposit receipt in favor of **Uttarakhand Council for Biotechnology, Haldi, Pantnagar** Tender without proper earnest money **shall not be considered**. No Cheque shall be accepted. Earnest Money deposited earlier, if any, shall not be considered towards this tender.
10. In terms of provisions of Uttarakhand Procurement Rules, 2017 (Rule 170 of GPR 2017), Bid Security will be liable to be forfeited, if the tenderer withdraws or amends/ impairs or derogates from the tender in any respect with in the period of validity of this tender.
11. The purchaser has the right to forfeit performance security in case of any breach of contract committed by the supplier.
12. The supplier should quote clearly in figure and words the rate and amount tendered by him. The requisite totals given including all charges F.O.R.destination.
13. The terms & conditions given by the supplier will not be binding on us. Conditional tenders shall be rejected at the sole discretion of the competent authority of the University.
The acceptance of a tender will rest with who does not bind itself to accept the lowest tender and reserves itself the authority to reject or partially accept, any or all the tenders received without assigning any reason.

14. **The tenders may be dropped in the Tender Box kept in the office of UCB, Haldi, Pantnagar by due date & time.** The tender may also be sent / submitted through post/courier. The tenders received after due date & time are liable to be rejection. The University shall not be responsible for receipt of tenders after due date & to be time due to postal delays or any other reason, whatsoever.
15. **Manufacturer can authorize one or more authorize dealer/stockiest for the participation of bids for price competitiveness but should ensure the warranty & services applicable .**
16. The supplier should invariably incorporate guarantee/warranty clauses in his offer wherever applicable. While incorporating Guarantee/Warrantee clause, nature & duration should be specifically mentioned.
17. Supplies will be strictly as per brand and specifications as specified in the supply order. and product must bear the brand name, lot no., batch no.
18. The consignment shall be booked always in favour of consignee only and as per instructions mentioned in the purchase order.
19. In case tender documents are downloaded from Web Site by the firm, then following certificate should also be signed by the tenderer.

“Certified that we have downloaded the tender documents from Council Web Site and for any deference in contents from original document we shall be fully responsible and understand that contract awarded. The tender fee of **Rs. 1,000.00+GST 18% = Rs.1,180.00** is enclosed in shape of Bank Draft No.....date drawn on SBI/PNB/UCO/ Union Bank, Pantnagar only.
20. Tendered must have to enclose along with technical bid, the latest original catalogue showing important feature .
21. The participating firm if required can depute only one authorized representative to deal with their tender, whose signature must be duly verified by the tenderer, no other person will be allowed to deal with tender.
22. **Instrument not complying with the technical specification/shortfall of documents in tender will be rejected by the competent authority.**
23. Tenderer participating for more than one item should submit the EMD as prescribed & tender fee for each items separately therefore separate envelope containing technical & financial bid for each items addressed to **Director UCB Haldi (Pantnagar).**

Signature of issuing authority

I have read the above terms & conditions and the instructions attached herewith and understood them carefully and agree to abide by the same.

FTIR Specifications

High-end advanced PC based system FTIR system with Windows based software for operation on 220V/ 50 Hz. FTIR with Monolithic Diamond ATR and other accessories as mentioned below as standard should be quoted.

Measurement	<p>Spectrum measurement, continuous measurement, atmospheric correction measurement, simple measurement mode</p> <p>Feature compatibility of- Spectrum search, peak search, text search, combination search, setting of search conditions, search of user library and commercial library, creation of user library.</p> <p>Instrument should be capable of- Multi-point calibration curve method, CLS quantitative method, Photometrics, Recalculation function for quantitative and photometric results</p> <p>Compatible with control Functions like- Normalization, baseline correction, smoothing, derivative, X-axis range change, data correction, data points thinning, interpolation, wavenumber-wavelength conversion, X adjust, time-temperature conversion, peak pick, point pick, film thickness calculation, data calculation, degree of coincidence, deconvolution, Fourier transform, Kubelka Munk conversion, ATR correction, advanced ATR correction, KramersKronig transformation, atmosphere correction, degree of coincidence calculation.</p>
ATR (Monolithic quality is must)	FTIR with Monolithic Diamond ATR must be quoted to analyze samples like films, liquids and solids operational for the measurement range of 7,800cm ⁻¹ to 350cm ⁻¹ without compromising the accuracy and resolution.
Features	<ol style="list-style-type: none"> 1. Self-Diagnostic 2. Self-Monitoring function 3. Instrument should offer a total of more than 20 application programs as standard, making it easy for operators with minimal FTIR experience to analyze samples by simply selecting the analysis purpose and accessory. There is no need to set parameters enabling the measurement of 4. multiple samples with only one click. <ol style="list-style-type: none"> a. Includes an identification test program convenient for routine inspections as standard. b. Includes a pass/fail judgment program specialized for contaminant analysis as standard.
Additional Features	Peak split, 3D recalculation, spectrum extraction from 3D data
Wavenumber Range	350 cm ⁻¹ - 7800 cm ⁻¹
Beam Splitter	KBr with high quality Germanium Coating for resistance from humidity
Data Sampling	Temperature-controlled semiconductor laser
Interferometer	Michelson's Interferometer with dynamic alignment with high stability (30° Incident Angle resulting better repeatability of instrument). Sealed Dry Interferometer. Mirror speed of 2.8mm/sec.

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Light Source	Ceramic High Energy
Detector	Highly Sensitive DLATGS detector with temperature control
Wavenumber Precision	0.0005 cm^{-1} or better
Wavenumber Accuracy	0.1 cm^{-1}
Resolution	0.9 cm^{-1} to 16 cm^{-1} or better with minimum 5 steps
S/N Ratio	Mention for DLATGS: 37,000:1 or better (peak-to-peak, 4 cm^{-1} resolution, in a neighborhood of 2,100 cm^{-1} , 1 minute scan)
Warranty	10 years on complete FTIR instrument and its hardware as standard, minimum 12 months on accessories like ATR accessory.
Humidity Resistant Window	FTIR Window should withstand humidity level up to 70% with any condensation.
Connectivity	(HP/ Dell) PC and Printer with below mentioned configuration must be provided along with the instrument- i5 12 th Gen Intel Processor, 8GB RAM, 512GB SSD, 24 Inch Monitor having Win 10 Pro Licensed Operating System with Black and White Compatible Printer
Power	1 KVA Online UPS with 30 minutes backup

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Specification of Nano Drop Spectrophotometer

Sr. No	Description
1	Instrument Control- Built-in touch screen
2	It has provision of pedestal estimation as well as cuvette measurement mode.
3	It has wide spectral range for measuring various sample types such as DNA, RNA, Protein. Colorimetric and Optical Density measurements.
4	Minimum sample volume 1 μ l.
5	Wavelength range of 190-850 nm
6	Wavelength accuracy \sim (+/- 1 nm).
7	Light source Xenon flash lamp
8	Detector type 2048-element CMOS linear image sensor
9	Detection sensitivity range:- Limit of Detection- dsDNA Pedestal: 2.0 ng/ μ l. Cuvette: 0.2 ng/ μ l.
	Maximum Concentration dsDNA Pedestal: 27,500 ng/ μ l. or better.
10	Measurement time : 8 seconds.
11	Pathlength- 0.030 to 1.0 mm auto-ranging with CMOS linear image sensor detector.
12	System internal storage device of 32 GB or more.
13	Software support to identify the containments in the sample and report a corrected concentration
14	Peptide Analysis- The dedicated A205 method for peptide analysis
15	Heating facility of cuvette holder, offer with the accuracy of ± 0.5 $^{\circ}$ C. When selected, the current temperature of the cuvette display at software screen
16	Stirring (cuvette only)- 9 speeds
17	Temperature Control (cuvette only)- 37 $^{\circ}$ C
18	It has certification of ISO or European CE.
19	Two years comprehensive warranty
20	Compatible with lab gloves.
21	The instrument must have external Uninterrupted Power Supplies (UPS) of 3-3.5 KVA with minimum 1 hr backup. For UPS also, two years of warranty must be provided.
22	System should have Multipoint capacitive touch screen as well as must be supplied with PC control software. Both touch screen and PC control must work simultaneously.
24	System should have feature to identify broken columns, bubbles and other anomalies in the column via image analyser.

Real Time PCR Specification

Should have touch screen protocols for fast and easy assay setup for a broad range of applications.
 On-board storage capability with memory capacity of 10GB for storing between 1000-5000 standard absolute quantification run files
 96-well sample block is made up of at least 6 separate Peltier-controlled blocks
 The maximum temperature difference that can be programmed across the block is 25°C. The maximum difference in temperature allowed between adjacent blocks is 5°C
 The instrument can be installed without the need of a computer
 Instrument installation does not require dye calibration
 Factory calibrated with FAM™, SYBR® GreenI, VIC®, NED, ABY, JUN, Mustang Purple, TAMRA, Cy5, and ROX™/Texas Red dyes
 Should have 96 Well 0.1ml block
 Should have maximum block ramp rate of 6.5°C/sec.
 Excitation Source Bright White LED
 Optical Detection 6 Decoupled Filters
 Run Time < 30 Minute runs
 Run FAST/ Standard
 Detect as small as 1.5-fold changes in target
 Excitation/Detection Range 450-680 nm / 500-730 nm
 Number of Copies Detection 1 Copy
 Dynamic Range 10 Logs
 Online Cloud facility
 Communication interface cloud, USB, or Wi-Fi
 System configuration Stand-alone, PC connected, or direct connection to Cloud via LAN or Wi-Fi
 International standards ISO 13485
 Cloud design and analysis software
 Desktop option using Microsoft™ Windows™ 7 operating system
 Web browser-based software option; run on PC or Mac™ computer
 Run programming options Preoptimized protocol templates or ability to customize
 Programmable and manual pause
 Locked workflows
 MIQE compliance Real-time PCR data markup language (RDML) export format
 Features to assist with 21 CFR part 11 compliance
 Security, auditing and e-signature; no additional fees or licenses required
 Single-plate analysis Absolute and relative gene expression, SNP genotyping, presence/absence, high resolution melt
 Multiplate analysis Gene expression studies, SNP genotyping studies
 Should have IEC & CE compliance
 Should be supplied with online 2KVA UPS with 30 min backup (1 Nos)
 Should be supplied with 0.2ml Rnase P plate (1 Nos)
 Should be supplied with TaqMan fast reagent kits (1 Nos)
 Should be supplied with HRM software (1 Nos)
 Should have warranty for one year

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Nucleic Acid Extraction System

Specification :

Sample Capacity 1-16

Process Volume 50 To 1000 μ l

Sample Volume Range 25 To 800 μ l

Elution Volume 50 μ l (Can Be Optimized Up to 25 μ l Based On Assay Suitability)

Consumables Single Sample Cartridge Or 96 Deep Well Plate + Special Magnetic Rod's Tip

Working Principle Magnetic Bead Based Method

Magnetic Rod 4200 Gauss

Purification Accuracy 100 Copy Sample Positive Rate > 95%

Stability CV<3

Magnetic Beads Recycling Rate >95%

Sample Capacity 1-16

Process volume 50 to 1000 μ l

Sample Volume Range 25 to 800 μ l

Elution Volume 50 μ l (can be optimized up to 25 μ l based on assay suitability)

Consumables Single sample cartridge or 96 Deep well plate & Special magnetic rod's tip

Working principle Magnetic bead based method

Magnetic Rod 4200 gauss

Purification accuracy 100 copy sample positive rate > 95%

Stability CV95%

Temperature Range Room temperature to 120°C

Lysis temperature Room temperature to 120°C

Elution temperature Room temperature to 120°C

Mixing ways can be edited

Operation interface 4.3 inch

Built-in protocol 8 groups of preset protocols, 100 groups of protocols can be stored

Protocol management Protocols can be created, edited, deleted or save as templates

Expansion interface Standard USB, Ethernet port and RS 232 available

Lighting Yes

Sterilization UV light

Exhaust way By Exhaust Fan

Data storage Available

Should supplied with 5000Rxn consumables reagents & plates

Warranty One Year





Part'B'

Financial Bid

**To be submitted in a separate envelope
Superscripting 'Financial Bid'**

Item-----



TENDER FOR THE SUPPLY OF.....

"PLEASE CAREFULLY GO THROUGH THIS DOCUMENT AND ENSURE COMPLIANCE.
THE NON-COMPLIANCE OF ANY ONE CONDITION MAY MAKE YOUR OFFER INVALID"

Part(B):Financial Bid

For this refer to Bill of Quantity (BOQ)

Tenderer's reference No. _____ Dated: _____

1. Items/Materials for which rate contract desired/applied for _____

2. Name of the applicant firm _____

3. Address _____

4. Telephone No. _____

Mobile _____

Fax No. _____

e-mail _____

5. Status of the applicant
(Whether manufacturer/Dealer)
Telephone No., _____

6. Financial Offer on company letter head enclosed _____

Yes/No

7. Validity of rates (period) _____

31st March 2024

8. Warranty(applicable) _____



NOTE:

- (i) Over writing in tender will not be accepted. Cutting if any should be properly signed by the tenderer.
- (ii) Council will not make any part payment if full supplies are not made in accordance with the Purchase Order/Later of Intent.
- (iii) The tenderer should enclose required certificates in the same order as mentioned above & serialize them accordingly.
- (iv) Before sending/submitting the application/tender, the applicant should read carefully the attached terms & conditions and instructions sheet.

**Signature of the Tendered
(Applicant) Name & Seal of the Firm**