



**GOVERNMENT OF WEST BENGAL**  
**DIRECTORATE OF AGRICULTURE**  
**OFFICE OF THE AGRICULTURAL CHEMIST, WEST BENGAL**  
**STATE AGRICULTURAL RESEARCH INSTITUTE**  
**230 A, N.S.C. BOSE ROAD, KOLKATA-40**  
Phone: 033-24814947 Email: agrilchemistwb@gmail.com

**Notice Inviting Electronic Tender NleT- 02/ 2023-24/ ACWB/602, TOLLYGUNGE Dated 13.09.2023 of  
Agricultural Chemist, West Bengal.**

Notice inviting e-tender for purchase of Medium and Low value instrument(s)/equipment(s) as mentioned in Annexure I with specifications, for different Soil Testing Laboratories and Fertiliser Control Laboratories of West Bengal ( as per Annexure II), for centrally sponsored scheme "Soil Health &Fertility" under Rastriya Krishi Vikash Yojna (RKVY), during the financial year 2023-24.

**1. Eligibility for participation to e-Tender:**

- i. Original Manufacturer/Authorized Distributor/Accredited Indian Agent /Sole Selling Agent having in this business for a period of at least ten years in this country, in relation to the type of instrument for which quotations are being submitted, are eligible for quoting.
- ii. The distributor/ Selling Agent should preferably be the direct distributor from the principal's.
- iii. The credentials for supplying same/ similar type of items are mandatory.
- iv. The authorization letter from the manufacturer/company (where manufacturer accepts the responsibility for any lapse on the part of the agent wherever applicable) is highly preferred for participation to the e-tender.

**2. Availability of Tender documents:**

Tender may be submitted through NIC e-tender portal. In the event of e-filing, intending bidder may download the tender documents from the website <http://wbtenders.gov.in> directly with the help of Digital Signature Certificate (DSC).

**3. Earnest Money Deposition (EMD):**

- I. Earnest Money of Rs.1,00,000 (Rupees one lakh) only, unless exempted under the existing rules of Govt. of WB, must be deposited by the bidder electronically through his/her net banking (any of the banks listed in the ICICI Bank Payment gateway) in case of payment through ICICI Bank Payment gateway.
- II. Bidders eligible for exemption of EMD as per Govt. rule may avail the same and attested valid documents regarding the exemption of EMD must be uploaded in the EMD folder of Statutory bid documents.
- III. The earnest money of the Bidder will liable to be forfeited if the Bidder withdraws his/her tender as a whole or for any particular item or items at any stage after the opening of the tender or fails/refuses to enter into written agreement for any/all items of his accepted tender, within the specified time, when requested to do so/fails to furnish Performance Bank Deposit within the stipulated time.
- IV. The Earnest Money will be refunded automatically without paying any interest after finalization of the tender.
- V. The Earnest Money of successful bidder shall be returned to them (without paying any interest) on receipt of Performance Security Deposit (PSD) and a written agreement wherever applicable. If the successful bidder fails to furnish the PSD within 21 calendar days of placement of purchase/supply order and/ or fails / refuses to enter into written agreement for any or all of the items of his accepted tender, the EMD shall be liable to be forfeited by the purchaser.

**4. Submission of Bids/ Tenders and Bidding Documents:**

- I. The tender is to be submitted online as on date and time schedule mentioned in clause 5 on page 3 of this NleT in a two Bid System i.e., (A) Technical Bid and (B) Financial Bid. Both the bids must be submitted concurrently duly digitally signed by the Bidder/ Tenderer (through the website <http://wbtenders.gov.in>).
- II. Any revision after submission of tender by the Bidder will not be allowed.

**(A) Technical Bid (BID A):**

Technical Bid should contain two covers (folders), (i) Statutory and (ii) Non- Statutory. Documents under these should be properly indexed and self attested with seal. Illegible documents will not be considered for scrutiny and may lead to rejection of the bid.

- i. Statutory Cover: Single file containing multiple scanned pages (virus scanned copies) of following documents are to be uploaded online.
  - a) Valid documents for exemption of EMD (if applicable).
  - b) Application in the prescribed format given in Annexure III.
  - c) CHECK LIST in the prescribed format given in Annexure IV.



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- d) List of Items quoted.  
e) Technical specifications of each item(s) quoted with make and model/ model no. / catalogue no. (should be typed and signed on separate sheet) along with the technical compliance statement in tabular format.  
f) NIEt.  
g) Authorization letter from concerned Manufacturer (it will get preference).

ii. Non-Statutory Cover: Other important documents comprising of following should be arranged in the given order:

Sl. No.	Category	Sub-Category	Sub-Category Details
(1)	(2)	(3)	(4)
1.	CERTIFICATES	CERTIFICATES	1. GST Registration Certificate & up to date GST Returns 2. PAN in the name of Firm (if PAN is in the name of Proprietor, attested copy of Firm Registration Certificate is mandatory along with PAN). 3. Up to date Professional Tax Certificate.
2.	COMPANY DETAILS	COMPANY DETAILS	1. Business Proof Document as applicable, along with complete Address, Telephones, Fax, e-mail for verification. A) For Proprietorship Firm: Trade Licence. B) For Partnership Firm: Partnership Deed and Trade Licence along with Power of Attorney stating that the authorizing person must have the Power to sign the related papers. Such Power of Attorney is to be uploaded with the Tender. C) For Ltd. Company: Incorporation certificate and Trade Licence along with authorization letter having power to sign the related papers. Such authorization letter is to be uploaded with the Tender. D) For Co-operative Society: Society Registration copy and Trade Licence along with authorization letter having power to sign the related papers. Such authorization letter is to be uploaded with the Tender. 2. Certificate of country of origin for imported items only.
3.	CREDENTIAL	C1. Credential 1 C2. Credential 2	1. Manufacturing License (for each quoted Item), if applicable. 2. Import License with validity (for each quoted Item), if applicable.
4.	FINANCIAL INFO	P/L & BALANCE SHEET	1. Profit and Loss Account with Balance sheet for last three Financial years showing average annual turnover of Rs. 50 lakhs. 2. Income Tax Return for last three Assessment years
5.	DECLARATION	DECLARATION 1 DECLARATION 2 DECLARATION 3 DECLARATION 4	1. Quality assurance certificate like ISO 9000 / CE/ FDA series should be enclosed (for each quoted Item) wherever applicable. 2. Bidder must submit the name and address of local service Centre in West Bengal with Contact No. and e- mail etc. of the authorized personnel for service(s) of the quoted equipment(s)/ instrument(s) in their letter head. Satisfactory Installation Certificates (at least two) of same/ similar type of Instrument/ Equipment/ System supplied to Govt./ Semi Govt./ Reputed Private Institute by the Bidder in the last three (3) years are desirable otherwise the offer may not be considered for evaluation and may lead to rejection of their Bid. 3. Item wise Client/ User List (with complete Address, Contact No. and e- mail etc.) is/are desirable for future verification purpose if needed. 4. Bidder must submit a declaration on a non-judicial stamp paper that the firm has not been blacklisted or convicted in any criminal case in the past by any organization/ Institution (format given in Annexure V).

Intending Bidder(s) is/are instructed to go through the clause 16 on page 5 to avoid rejection of bid.

**(B) Financial Bid (BID B):**

- I. Bill of Quantities (BOQ) for INR shall contain base price inclusive of 1 Year Warranty and the cost of the allied services which are to be undertaken (charges like carrying, demonstration of instruments, cost of insurance, packing, forwarding, freight, clearing, installation, dismantling, incidental etc.) for delivery of each quoted item(s) up to the delivery point/ concerned laboratory.  
II. GST (including other taxes) must be mentioned separately in the appropriate column of the template for Bill of Quantities. Price for extended warranty period (optional) for instrument(s)/ equipment(s), may be mentioned.



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III. The rate should be quoted in Indian Rupees (both in figure and words) on unit (i.e. per Piece.) basis for a particular brand/ make or model / model no. of the offered item(s) only as mentioned in the appropriate column of the template for Bill of Quantities. Alternative offer will not be accepted.

IV. The tender shall be cancelled for quoting of item(s) without its brand/ make name, model/ model no. etc.

V. Rates of Tender shall remain valid for one year from the date of Agreement with the successful Bidders/Tenderers.

VI. If the rates of two or more bidders become identical, the authority shall have the right to reject/accept any of the offers considering other factors like credential etc.

**5. Date and Time schedules of e-Tender:**

The time schedule for obtaining the bid documents, registration with the tendering authorities, the submission of bids and other documents etc. (through the website <http://wbenders.gov.in>) will be as per the list given below.

Sl. No.	Particulars	Date & Time
1.	Date of Publishing (uploading) of NleT Documents online.	14/09/2023 at 01:30 P.M
2.	Date for downloading of Tender Documents.	Start 14/09/2023 at 02.30 P.M.
3.	Date of Submission of Tender.	Start 14/09/2023 at 03.30 P.M
4.	Date of Pre Bid Meeting	21/09/2023 at 12.30 P.M.
5.	Date for downloading of Tender Documents	End 12/10/2023 at 12.30 P.M.
6.	Date of Submission of Tender.	End 12/10/2023 at 12.30 P.M
7.	Date & Time of Opening of Technical Bid.	16/10/2023 at 12.30 P.M.
8.	Date of uploading list for Technically Qualified Bidder (online) (Bid A).	Intimated Later on.
9.	Date of uploading the final list for Technically Qualified Bidder (online) after disposal of appeals, if any.	Intimated Later on.
10.	Date & Place for opening of Financial Proposal (Online) (Bid B).	Intimated Later on.
11.	Date of uploading the list of successful bidders.	Intimated Later on.

**6. Evaluation of Tender:**

I. Technical Bid (Bid A) will be opened first.

II. The Bidder offering the items as being as per the tender specifications (with brand/ make or model / model no.) will be found suitable and only be selected. Such Bidders so identified have been considered technically suitable for other uploaded documents essential for the Tender.

III. Bidders who have uploaded all the properly indexed legible papers/ documents self attested with seal as specified under clause 4 on page 1 of Bid submission will be considered for scrutiny and Technical evaluation. After evaluation if qualified, bidder/s only be accepted for Bid B (Financial Bid), failing which bidders will be rejected and not be considered for Financial Bid. Tender and Purchase committee may impose relaxation if situation demands.

IV. Bidders failing to meet the technical specifications and other requirements of the tender will be rejected. Those who have qualified the Technical evaluation will be identified and only their Bid B (Financial Bid) will be opened.

V. Choice for a particular brand / make or model / model no. is under the purview and discretion of Tender and Purchase committee. No objection from any participant Bidder(s) will be entertained in this regard.

VI. Any valid objection from Bidders end regarding the uploaded documents of other participating bidders must be brought into the notice of the authority within two (2) calendar days from the day of opening of Technical Bid. Beyond that, no objection will be entertained. However, discretion of Tender and Purchase committee will be final and absolute.

VII. The Bidder quoting the lowest rate will be considered as successful Bidder and the list of Qualified Bidders will be uploaded/ displayed in the website after the approval of State Level Purchase cum Tender Committee (SLPTC) of Department of Agriculture, Govt. of West Bengal.



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**7. Order, Supply/ Delivery, Installation and Commissioning:**

- I. Number/ Quantity of items to be ordered / supplied/ delivered may be increased/ decreased as per requirement of the Buyer/Purchaser.
- II. On a tender being accepted, intimation of acceptance will be forwarded to the Bidder.
- III. Supply order for the approved instrument(s)/equipment(s) will be placed to the successful bidder after the execution of the agreement (format given in Annexure VI) with the undersigned if required, which have to be done on non-judicial stamp paper, as deemed fitted, stating that he will abide by the terms and condition of this tender notice. Such agreement must be executed prior to the supply of the instrument(s)/equipment(s), otherwise his/ her quotation will be cancelled and the Earnest Money Deposited (EMD) is liable to be forfeited.
- IV. The successful bidder will have to supply/ deliver the specified item at the purchaser's premises and/or delivery point (respective laboratory as specified in supply order) within 30 days from the issue of supply order unless otherwise mentioned.
- V. The installation, testing and demonstration of the proposed system/ instrument/ equipment shall be completed within this period with prior intimation to the undersigned.
- VI. Further demonstration if required, to run an Instrument/ Equipment has to be arranged at free of cost.
- VII. Any fault noticed in the functioning of the installed Instrument/ Equipment, as a result of any feature, has to be rectified free of cost.

**8. Withdrawal/ Cancellation and Purchase Policy of Tendering Authority:**

- I. The tendering authority reserves the right to withdraw any item from the tender at any stage.
- II. The selection of such item, if already made in favor of any bidder, shall be treated as cancelled.
- III. The tendering authority reserves the right to accept or reject any tender, in part or in full, at any stage or to split any tender without assigning any reason.
- IV. Withdrawal of tender or any revision after submission of tender, by the Bidder, shall not be allowed.
- V. The tendering authority reserves the right to accept/ reject any Bid, in part or in full, without assigning any reason.

*Purchase will, however be made following the existing purchase policy of the Government of West Bengal and its amendment(s) made from time to time. The purchase policy of the State Government as provided in the West Bengal Financial Rules, the policy of price preference in particular incorporated under Notification No. 10500-F dated 19.11.04 and read with 5400-F dated 25-06- 2012 of Finance Department, Government of West Bengal will be observed in considering the tenders.*

**9. Spare Parts**

- I. The Bidder will undertake the authentication from Principal/Manufacturer Firm that supplies of necessary maintenance equipment and spare parts will be made available for equipment (s)/ instrument(s) and the complete system in future on a continuing basis and the bidder has to mention the cost of consumables/spare parts with validity along with the offer.
- II. However, this does not relieve the supplier of any warranty obligations under the contract.

**10. Guarantee / Warranty Period:**

Minimum one (1) year comprehensive guarantee/ warranty of the company from the date of satisfactory installation and commissioning of instrument(s)/ equipment(s) is/are essential. All faults appearing within this period will be intimated to the bidder/ company and the time span of appropriate rectification will be added with the guarantee/ warranty period. Necessary certificate in this regard should be furnished by the selected vendor/ firm/ company for releasing payment.

**11. After Sales Services and Maintenance Contract:**

- I. The supplier has to state that he/ they will provide the after sales services and maintenance during and after guarantee/ warranty period of the equipment(s).
- II. The supplier has to state the Annual Maintenance Charge (AMC) when required after guarantee/warranty, if any.

**12. Penalty Clauses- Penalty for formation of cartel or furnishing of fraudulent / misleading documents:**

- I. If during the tender process or at any stage during the validity of the tender period, it is found that a Bidder(s) has formed a cartel in whatsoever form or name to fix up the rates or suppliers to the detriment of the fairness of the tender process, penal measures shall be initiated.



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II. Similar penal measures shall also be initiated against those bidders who have submitted false/ misleading/ fraudulent documents or made incorrect declarations.

III. The penal measure will be forfeiture of EMD, forfeiture of PSD if enlisted as a supplier.

**13. Performance Security deposit (PSD):**

I. The successful Bidder or the Principal or Manufacturer shall have to pay a Performance Security Deposit (PSD) @ 10% of the total cost of the Instrument/Equipment within 21 calendar days of the placement of purchase/supply order, through Bank Guarantee/ Fixed Deposit pledged in favor of the order provider (office bearer) from any Nationalized Bank/ Scheduled Bank for the items whose ordered value is more than one lakh.

II. This PSD shall be valid during the warranty obligation period and will be released accordingly after completion of all contractual obligation successfully.

III. No interest will be payable to the bidder/ supplier on the PSD. In case supplier fails to provide satisfactory after sales service within the warranty period, the Performance Security Deposit (PSD) submitted by them is liable to be forfeited.

**14. Payment terms:**

I. Payment will be made through e payment system after execution of purchase/ supply order within the specified period as per specification as provided in the tender documents. Proper installation, satisfactory demonstration of instrument(s)/equipment(s) and its running is must to receive payments.

II. After completion of all the processes of supply/ delivery, the vendor will have to submit one application to the Agricultural Chemist, West Bengal, for disbursement of payments stating name of the payee/ recipient, bank account number with IFSC along with a copy of the cancelled cheque for making e- payment. Submitted application will be forwarded to the Director of Agriculture and Ex-Officio Secretary, Govt. of WB for necessary action (payment).

III. Manual payment is not allowed.

IV. Original Invoice in triplicate along with Challans should be raised in favor of the office bearer (order provider).

**15. Custom duty exemption Certificate (CDEC) will be provided by the authority, if required.**

**16. Points to be noted with strict observance to avoid rejection/cancellation of Bid:**

I. Uploaded documents should be properly arranged, indexed and legible. Otherwise it will not be considered for scrutiny and may lead to rejection of the bid.

II. Bidder must submit the item wise name and address of local service Centre and Client/ User list as specified under clause 4 on page 1 and 2 of Technical Bid submission. Failing which entire Bid submission/ Bid submission for a particular item(s) will not be considered for scrutiny and Technical evaluation. Tender and Purchase committee may impose relaxation if situation demands.

III. Choice for a particular brand / make or model / model no./ catalogue no. is under the purview and discretion of Tender and Purchase committee. Discretion of Tender and Purchase committee will be final and absolute. No objection from any participant Bidder(s) will be entertained in this regard.

IV. The intending Bidder/ Tender provider may remain present at the time of opening of the Tender.

V. The Agricultural Chemist, West Bengal may call open bid/ sealed bid after opening of the said bid to obtain the suitable rate further, if it is required. No objection from any bidder either present or absent at the time of opening of Financial Bid will be entertained in this respect. No informal bidder will be entertained in the Bid further.

VI. If the Bidder gives a false statement on any information, the firm/supplier will not be considered and their tender shall be rejected and the EMD and PSD shall be forfeited.

VII. If the dates fall on holidays or on days of bandh or natural calamity, the dates defer to the next working days. In case of server failure or net disruption, the process will be carried out soon after the problem is over.

VIII. The Tender and purchase Committee reserves the right to cancel the NleT or to change the above schedule in case of any exigencies or due to unavoidable circumstances without assigning any reason, whatsoever, to the bidder. In this respect, no objections and no claim will be entertained from any Bidder.



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IX. During the scrutiny, if the tender inviting authority notices that the credential or any other paper to be incorrect/ manufactured/ fabricated, that bidder would not be allowed to participate in the tender and that application will be outrightly rejected without any prejudice.

X. Any disputes or differences whatsoever arising between the supplier and purchaser unless resolved amicably shall be settled by a court of law having jurisdiction over Calcutta High Court only.

*Sd/-*  
*Agricultural Chemist, West Bengal*  
*Govt. of West Bengal*

Memo No. Nlet/ACWB /602(9)

Dated 13.09.2023

Copy forwarded for information with a request for wide circulation to the –

1. Director of Agriculture & Ex-Officio Secretary, Jessop Building, Kolkata-700 001
2. Special Secretary to the Govt. Of W.B, Writer's Building. Kolkata-700 001
3. Additional Director of Agriculture (Audit), Jessop Building, Kolkata-700 001
4. Additional Director of Agriculture (Research), Jessop Building, Kolkata-700 001
5. Joint Director of Agriculture (Research), Jessop Building, Kolkata-700 001
6. Joint Director of Agriculture (Chemistry), 230A, N.S.C. Bose Road, Kolkata-700040
7. Joint Director of Agriculture (PRPI), Jessop Building, Kolkata-700 001
8. CEO, Matir Katha- with a request to upload the NleT for wide circulation.
9. Notice Board.

*Sd/-*  
*Agricultural Chemist, West Bengal*  
*Govt. of West Bengal*



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**ANNEXURE I**

**Technical Specifications of Instruments/ Equipments**

Sl. No.	Instrument	Specifications	Quantity	
1.	Microcontroller Based Flame Photometer	Microcontroller controlled automation with Na, K, Ca filters	17	
		Sensitivity		Na: 1-2ppm, K: 0.5-1 ppm, Ca:25-30 ppm.
		Curve fitting accuracy		2% of full scale
		Reproducibility		1% of fs in low concentration mode and 2% in high concentration mode.
		Instrument body made of aluminium or better quality.		
		Metallic atomiser, with high temperature resistant burner head.		
		Determination up to four elements with single aspiration (Na, K, Li, and Ca)		
		Minimum 5-point calibration facility		
		A flameout protection device for safety should be inbuilt with the system		
		An automatic calculation of correlation co-efficient and pre-selection of flame sizes		
		Auto gas sensor, gas leak sensor with password protection facility		
		Frequently used measurement setups must best be stored and recalled		
		Facility for re-standardization with single standard should be available.		
		Facility for Data processing with line or mode or quadratic curve fitting		
		Results of a measurement taken earlier must be recalled and displayed		
		Flame output in mV must come in the display.		
		20-character, 4-line alphanumeric LCD readout for adequate user interfaces.		
Built-in real time clock for date and time of analysis				
PC connectivity port with the main unit with software				
ISO certified oil free Compressor 0.0 to1.0Kg/cm <sup>2</sup>				
Fluted burner, Locking ring, Nebulizer, Nebulizer inlet, Restrict or screw, Fuel to mixing chamber inlet, Mixing chamber to drain outlet, End cap, Drain trap clip , Drain trap to waste container tubing, Mixing chamber to drain trap tubing, Compressed air one bulizer tubing, Compressed air in put connector, Fuel gas input connector, Adjustable voltage fuse , should be quoted with the system.				

Sl. No.	Instrument	Specifications	Quantity	
2.	Colorimeter	Display	17	
				4 digit LED, display scale 0 to 1000 klett units
		Narrow band glass filters		
		Reading directly in concentration mode		
		Accuracy		+ -0.5%F.S
		Sample volume		must not be higher than 5ml
		Test tube is of 12mm path length		
		At least three numbers low band width glass filters are required		
		Filter must be removable type not in-built.		
		Instrument should make of metal and painted in enamel finish.		
Isometric view of the instrument should be attached.				
Instrument must be an ISO 9001:2015 and CE certified				



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Sl. No.	Instrument	Specifications	Quantity	
3.	Nephalo-Turbidity Meter	Microcontroller based	14	
		Range		0-1000NTU automatic
		User-settable standard facility and on print data calibration		standard details must come
		Repeatability		±1.0 % of FS
		Units		selectable g/l, mg/l, ppm, ppt, %(suspended solids) or NTU or FNU
		Accuracy		±2% of FSD in 0-500 NTU, ±3% of FSD in 500-1000 NTU
		Detector		Photodiode
		Display		16*2 – line LCD
		IR LED light, Photodiode, 2 line LCD display		
		Calibration with Formazine standard solution		
		Response time		approx. 12 Seconds
		Flat bottom test tube (25mm)		
		Recall data facility		
		Error message Facility while placing wrong sample		
Inbuilt printer port with data transfer facility				
Memory for data storage				
Instrument must be an ISO 9001:2015 and CE certified				

Sl.No.	Instrument	Specifications	Quantity
4.	pH Meter	Microcontroller based. Gel-fill epoxy body Gel filled electrode with stand. LCD display 2 lines 20 character. Temp. Co correction 0 to 140°C. Resolution: ±0.001pH. Stability- ±0.002pH/hour and relative accuracy- ± 0.002pH. Electrode slope measurement facility. Real clock time facility with Absolute and relative mV checking facility. mV accuracy- ±0.5mV. Slope control-85% to 115%. Temperature accuracy-±0.5°C. Auto buffer check facility. Calibration – At least 5 point user selectable. Auto and manual temp compensation. Time scan online printing facility, data and graph. Expanded/differential graph printing facility by the side of graph of pH and mV. Standard buffer with user buffer facility. Individual LED for each key. Data storage at least 80 data, inbuilt printer port. Redox potential measuring electrode should come with pH electrode. Buffer: user selectable/standard buffer. System should have a backup facility.	20





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Sl. No.	Instrument	Specifications	Quantity
5.	Digital Bottle Top Dispenser (Fixed Volume 5 ml capacity)	Easy to dismantle for cleaning with replaceable filling valves, autoclavable at 121°C, Preferably should have digital display where dispensing volume can also be set accurately and reproducibly (mechanical counter), Easy calibration, Recirculation valve and safety discharge system, suitable filling tube should be present to adjust easily to different sized bottles. Should preferably have flexible discharge tube.	6
6.	Digital Bottle Top Dispenser (Fixed Volume 10 ml capacity)	Easy to dismantle for cleaning with replaceable filling valves, autoclavable at 121°C, Preferably should have digital display where dispensing volume can also be set accurately and reproducibly (mechanical counter), Easy calibration, Recirculation valve and safety discharge system, suitable filling tube should be present to adjust easily to different sized bottles. Should preferably have flexible discharge tube.	5
7.	Digital Bottle Top Dispenser (Variable Volume 5-50 ml capacity)	Easy to dismantle for cleaning with replaceable filling valves, autoclavable at 121°C, Preferably should have digital display where dispensing volume can also be set accurately and reproducibly (mechanical counter), Easy calibration, Recirculation valve and safety discharge system, suitable filling tube should be present to adjust easily to different sized bottles. Should preferably have flexible discharge tube.	31
8.	Digital Bottle Top Dispenser (Variable Volume 2.5-25 ml capacity)	Easy to dismantle for cleaning with replaceable filling valves, autoclavable at 121°C, Preferably should have digital display where dispensing volume can also be set accurately and reproducibly (mechanical counter), Easy calibration, Recirculation valve and safety discharge system, suitable filling tube should be present to adjust easily to different sized bottles. Should preferably have flexible discharge tube.	18

Sl. No.	Instrument	Specifications	Quantity	
9.	Digital Conductivity TDS Meter	Microcontroller based	18	
		AC voltage source		1KHz or 100Hz automatically selected
		Conductivity range		0.2 to 200 µS with accuracy ± 1% of FS, ± 1 digit
		TDS range		0.2 ppm to 200 ppm with accuracy ± 1% of FS, ± 1 digit
		Cond temp coefficient 0.00 % to 9.99% user selectable		
		LED display with KCL solution indicator		
		Inbuilt printer port		
		Temp range		0-100 degree C
		Conductivity/temperature measurements with pt 100		
		Calibration with 0.001KCl/0.01KCl and 0.1KCl with separate cells		
		Cell with Cell constant 0.001, 0.1, 1.0 and 10CC should be quoted.		
		Range		0.1 to 10 µs cell constant range 0.1 to 5.0
		Glass cell		CC 1.0 ± 10 % & 0.1 ± 10%
		LED display, with conductivity cell of 0.1 and 1.0 cell constant, temp. Probe (PT-100 sensor), stand/clamp, inbuilt printer port		
Should indicate different errors in case of bad electrode, temp probe and if conductivity is out of range.				

Sl. No.	Instrument	Specification	Quantity
10.	Water Distillation unit (Single)	Capacity of the distilled water output should be 4 LPH. Minimum cooling water requirement (Lt/min) should be 2. Heater must be of Quartz. Boiler and Condenser should be of borosilicate 3.3. It should be pyrogen free. It's Conductivity (S/cm) should be <math>3 \times 10^{-6}</math>. Power Consumption should not be below 3.5kW. Voltage should be 230 V. It should enable the user to preset the quantity of distilled water. It should have microprocessor based control panel. Should have built in discaling guide, acid addition funnel, teflon drained stopcock, 4 digit-7 segment led display. Screw threads should be incorporated on all water connections	9



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Sl. No.	Instrument	Specification	Quantity
11.	Water Distillation unit (double)	Capacity of the distilled water output should be 2.5 LPH. Minimum cooling water requirement (Lt/min) should be 1.5. Heater must be of Quartz. Boiler and Condenser should be of borosilicate 3.3 expansion glass. It should be pyrogen free. It's Conductivity (S/cm) should be $<3 \times 10^{-6}$ . Power Consumption should not be below 4.4 kW. Voltage should be 230 V. It should enable the user to preset the quantity of distilled water. It should have microprocessor based control panel. Should have built in discaling guide, acid addition funnel, teflon drained stopcock, 4 digit-7 segment led display. Screw threads should be incorporated on all water connections.	8

Sl. No	Instrument	Specification	Quantity
12.	Hotplate	Rectangular Hot Plate with S.S. 304. To work on 220/230 volts A.C. supply useful for continuous heating up to 350°C. Available in models with S.S. top Size Available: 18" x 24" x 6" (450x600x150mm) Available with Temperature controlling device such as Energy Regulator	20

Sl. No	Instrument	Specification	Quantity
13.	Hot air oven	Capacity 250 Litre. Temp range: 5°C to 250°C. Control accuracy: $\pm 0.5^\circ\text{C}$ . Uniformity: $\pm 2.0$ at 100.0°C. Minimum 3 No. Shelves with height adjustable in 25mm steps. Glass window in-built into the door for easy viewing of samples. Automatic cut off of heater & blower when door opened. Digital PID temperature controller with timer, alarms and auto tuning. Aero dynamic internal design for achieving horizontal air circulation. Solid and plain bottom without electricals. Outer body made of G.I Epoxy Coated. Inner body made of Stainless steel with clear bottom. CE certified.	9

Sl. No	Instrument	Specification	Quantity
14.	Muffle furnace with silica crucible	Even distribution of heat with temp range 100-1100°C, temperature stability $\pm 0.5^\circ\text{C}$ (at 1000°C), temperature uniformity $\pm 0.5^\circ\text{C}$ (at 1000°C), having dimension of 5"x5"x10" with power supply 2500W. It should preferably have the advantage of low surface temperature, prompt heating, cooling and energy saving, over-temperature and over-current protection, leakage protection. It should be provided with 6 numbers Melting Silica Crucible with lid tolerating temperature up to 1000°C - 1100°C of capacity 50ml.	2

Sl. No	Instrument	Specification	Quantity
15.	Pipette controller	One single macro pipette controller should cover the entire range of bulb and graduated pipettes from 0.1 to 200 ml. The conical silicone adapter should offer a secure fit for the different diameters. Hydrophobic membrane filter should protect the system from liquid penetration. It should allow aspiration up to 50 ml with one compression. The valve system should be such that the flow rate does not affect accuracy. Pack should include: spare membrane filter, 3 $\mu\text{m}$ The unit should be fully autoclavable at 121 °C.	22



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Sl. No.	Instrument	Specification	Quantity
16.	Digital Burette, Automatic	Capacity should be 50ml .Accuracy should be +/- 0.06%. Display should be continuous with a display from 0 to 99.99 ml option of 0.001 ml or 0.01 ml. It should allow Zero reset of display by press of a button. Calibration certificate for each individual instrument with identification number should be present. Instrument should be supplied with an operating and maintenance manual with clear pictorial description of all the operations like setting up the instrument, getting started, operational limits and exclusions, user safety, calibration of the instrument and the spare parts with part numbers. Refilling should be allowed without changing the display or pressing any , by just turning the wheel the other way. The whole filling and dispensing system should be allowed to be dismantled for cleaning and maintenance by the user without any change in the accuracy or calibration of the instrument. Safety valve should be built in to each and every instrument for better safety and precaution. All required neck adapters should be provided to fix the burette on top of various kinds of reagent bottles and threaded bottles available in the lab. Provision should be allowed for storing the next calibration date in memory of the instrument. Easy calibration facility, pictorial description should be provided in the manual supplied with the instrument. Programmable auto power off from 1 – 30 minutes facility should be provided, with previous reading display on switching on .Adjustable dispensing tube in both horizontal and vertical directions should be present .Telescopic filling tube to adjust the length depending on the depth of the bottle should be present. It should be Powered by 2 x AAA/ UM4/ LR03 batteries and should be replaced easily without any change in accuracy or calibration. Optional drying tube connection should be provided for hygroscopic reagents.	20

Sl. No	Instrument	Specification	Quantity
17.	Single channel Micropipette (100-1000 $\mu$ L)	It should allow effortless one-handed operation. Setting and locking the volume, pipetting, ejecting – all without shifting hand position. It should preferably have clear visible volume display – 4digits precise setting. It should preferably be always visible, even while pipetting. Completely autoclavable at 121° C. It should allow calibration adjustment without tools.	1

Sl. No	Instrument	Specification	Quantity
18.	Water bath	Normal Capacity should be of 12 L, Working Temperature: Ambient and of the Range: 5 to 99°C, Temperature Accuracy at 37°C should be +0.5°C, Interior Dimension (LxBxH) in mm should be 330x300x150, Exterior Dimension (LxBxH) in mm should be 375x325x300,Power Consumption should be 4A, 230V,900W, Circulation should be by convention only.	5

Sl. No	Instrument	Specification	Quantity
19.	Vacuum pump	Should be a Two stage Direct Drive Rotary Vacuum pump suitable for power drive with $\frac{3}{4}$ H.P. 220 volts, A.C. single phase 2800 rpm electric motor and filled with one charge of vacuum oil, vacuum regulator, vacuum inlet trap.	5



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Sl. No	Instrument	Specification	Quantity
20.	Mechanical Shaker	End to end shaker with wooden platform. D.C. Motor special system shaker Works on 220 Volts A.C. For variable and smooth function speed control by speed regulator . Size: 36" x 18" x 4" with digital timer	17

Sl. No	Instrument	Specification	Quantity
21.	Automatic pipette	Capacity – 5 ml, 10 ml, variable volume	16

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**ANNEXURE II**

SL.. No.	Name of Soil Testing Laboratories
1.	STL, Tollygunge
2.	STL, Burdwan
3.	STL, Bankura
4.	STL, Purulia
5.	STL, Habra
6.	STL, Midnapore
7.	STL, Hooghly
8.	STL, Ranaghat
9.	STL, Berhampore
10.	STL, Malda
11.	STL, Raiganj
12.	STL, Coochbehar
13.	STL, Kalimpong

SL.. No.	Name of Fertiliser Control Laboratories
1.	FQCL, Tollygunge
2.	FCL, Berhampore
3.	FCL, Midnapore

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ANNEXURE III

PRE-QUALIFICATION APPLICATION

(To be copied and furnished in the Company's official letter head with full address, contact no. and e-Mail etc.)

(Strike out /Delete whichever is not applicable)

To

The Agricultural Chemist, West Bengal  
Govt. of West Bengal  
230 A, NSC Bose Road  
Kolkata-700040

Sub: Submission of e-Tender for Medium and Low value Instrument(s)/Equipment(s) for different Soil Testing Laboratories and Fertiliser Control Laboratories of West Bengal for centrally sponsored scheme "Soil Health & Fertility" under Rastriya Krishi Vikash Yojna (RKVY), during the financial year 2023-24.

Ref: Your NleT No. 02/ 2023-24/ ACWB, TOLLYGUNGE Dated 12.09.2023

Sir,

Studying and understanding all the clauses published in the NleT under reference, I /we hereby submit all the necessary information and relevant documents as required for evaluation of my/ our Bid:

(1) That the application is made by me / us directly/ on behalf of..... In the capacity of ..... duly authorized to submit the offer.

(2) The authorization letter from the Company is attached.

(3) I/ We accept the terms and conditions as laid down in the NleT mentioned above and declare that I/ we shall abide by it throughout the tender period.

(4) I/ We am/ are offering rate /s for the item /s as per my/ our enclosed list and assure the supply of quoted item(s) as per Specifications within the stipulated period.

(5) (a) I/ We propose that the Order should be raised in my/ our name.

(b) I/ we have appointed M/S ..... having its office at..... (Address, contact no and e mail address) as C & F Agent /Liaison /Contact person/ others as per clause of the NleT.

OR

(c) I/ We propose that order and bill should be raised in favor of our authorized distributor. For that purpose, I/ we have appointed M/S ..... having its office at..... (Address with contact no and e mail address) as authorized Distributor who will receive order and payment in his name on our behalf.

(6) The agreement between ourselves and the distributor/ C&F and other documents is attached.

(7) I/ We understand that:

i. Tender and Purchase Committee can amend the scope & value of the contract bid under this project.

ii. Tender and Purchase Committee reserve the right to reject any application without assigning any reason.

Yours sincerely,

(Signature of applicant with date)



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**ANNEXURE IV**

**CHECK LIST**

**(To be filled by the Bidder and must be uploaded with document)**

Sl No.	Documents to be submitted/ uploaded for qualifying Technical evaluation	PI mark v			Page No.
		YES	NO	Not Applicable	
1.	EMD submitted.				
2.	Attested copy of valid documents for exemption of EMD as applicable.				
3.	Application in the prescribed format given in Annexure III.				
4.	List of Items quoted.				
5.	Technical specifications of each instrument quoted with make and model.				
6.	Technical compliance statement in tabular format.				
7.	NleT.				
8.	Authorization letter from concerned Manufacturer.				
9.	Copy of GST Registration Certificate and up to date GST Return.				
10.	Copy of PAN card.				
11.	Attested Copy of Firm Registration Certificate if the PAN is in the name of Proprietor.				
12.	Income Tax Returns for the last three Assessment Years.				
13.	Up to date P. Tax Certificate.				
14.	Trade License for current year.				
15.	Partnership Deed with power of attorney/ Incorporation Certificate/ Society Registration Certificate etc. as applicable. (In case of a Partnership Firm, signing person must have the Power of Attorney, authorizing him to do so. Such Power of Attorney is to be submitted with the Tender).				
16.	Certificate of country of origin/ Manufacturing License/ Import License with validity, if applicable for which the tender is/ are being submitted.				
17.	Profit and Loss Account with Balance sheet for the last three Financial Years showing annual turnover of Rs 50 lakh (average).				
18.	Quality assurance certificate, if applicable.				
19.	Name and address with Contact No. and e- mail etc. of local service Centre in WB and authorize personnel for service (It should be provided separately for each quoted equipment(s)/ instrument(s)).				
20.	Client/ User List (It should be provided separately for each quoted item).				
21.	Installation Certificate (at least two within last three years) for the instrument (s)/equipment (s).				
22.	Declaration that the firm has not been blacklisted in the past by any Government/Private Institution or convicted in any criminal case.				

Sd/-  
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Govt. of West Bengal



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ANNEXURE V

AFFIDAVIT FOR NON CONVICTION

**(To be filled by the Bidder in a non-judicial stamp paper and must be uploaded with document)**

I, ..... (Name of the Proprietor/partner/authorized signatory), ..... the undersigned, on behalf of.....(company's name) ..... do hereby solemnly affirm and declare:

1. That I and/or The Principal manufacturer of item/items have never been convicted of any offence under criminal law of India or never been disqualified / blacklisted while supplying such item/items to the Institutions/ organization under the control of Government of West Bengal / any other State Governments/ Government of India / Undertaking of Govt. West Bengal/ Govt. of India or any other institution/ organization/ autonomous body at any time.
2. That no case is pending against me or against my firm in regards to the subject as stated in Para-I.
3. That I do affirm that all the statements made by me are true to the best of my knowledge and belief and all the documents attached to it are genuine.
4. That I declare that if any information is subsequently found incorrect or false, it will automatically render cancellation of the application submitted.

Date:





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**ANNEXURE VI**

**DEED OF AGREEMENT**

THIS DEED OF AGREEMENT made on this ..... between ..... for and on behalf of the Dept. of Agriculture, Govt. of West Bengal hereinafter called **Buyer (First Party)** which expression shall include the successors in the office of the FIRST PART

**AND**

..... Which expression shall include the executors, administrators and legal representative of the SECOND PART.

WHEREAS the tendered rate by the **Seller** ..... having **GSTIN No.** .....for supply and installation for instruments/equipments described in the **Schedule** against the **NleT No.** ..... **Dated**..... (ID No. ....), is accepted as their specifications match the desired specifications and rates found lowest (L-1).

**WHEREAS** the **Seller** hereto agreed to the following terms and conditions:

**Clause 1: Performance Security Deposit:**

- i) The Seller declares that **Performance Security Deposit/ Fixed Deposit drawn/ pledged in favor of** ..... @ 10% of the total cost of the instruments/equipments shall be submitted prior to the supply of the item from any Nationalized Bank/ Scheduled Bank in India.
- ii) The Seller declares that this Performance Security Deposit shall be valid for a period of 1 year beyond the warranty obligation period and will be released accordingly after completion of all contractual obligations successfully.
- iii) The Seller declares that they will not claim any interest from the Government for the Performance Security Deposit.
- iv) The Seller further declares that in case they failed to deliver the instrument/equipment within stipulated period or fail to provide satisfactory after sales service within the warranty period, the Performance Security Deposit submitted by them is liable to be forfeited.

**Clause 2: Warranty:**

The Seller hereby declares that the instrument/ equipment as described in the **SCHEDULE** to be sold to the **Buyer** under this contract shall be of the best quality and shall be strictly in accordance with the specifications and particulars mentioned in the tender and Seller hereby guarantees that the said instrument would continue to conform to the description and quality as mentioned in the Schedule for a period of one year from the date of the installation of the said instrument to the **Buyer**. The Seller further declares that any fault occurring during this period shall be replaced free of cost. All complaints will be attended by the firm within 48 hours of dispatch of complain to their office. The firm shall ensure that in case the instrument/ equipment not being made functional within 7 (seven) days, stiff Penalty equivalent to 0.25% of the cost of instrument/equipment per day shall be levied for the delay at the discretion of authority.

**Clause 3: After Sales Service:**

The Seller hereby declares that the after sales service will be provided free of cost during warranty period. The Seller declares that they must be able to provide **after sales service** of the quoted instrument/equipment after the warranty period.

**Clause 4: Time and date of delivery:**

The Seller declares that the installation of the instrument/equipment as described in the Schedule will be completed within thirty days of placement of purchasing order unless otherwise mentioned. The period of supply is extendable to further thirty days on justification and written request from supplier on the discretion of the **Buyer**.

**Clause 5:**

The Seller declares that the delivery and installation of the instrument must be completed at the destination point i.e..... within stipulated date, which shall be mentioned in purchase order. The



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failure to supply and install the instrument within stipulated date may invite recovery of liquidated damage in terms of 0.25% of total contract value per day. In case of failure of installation of the instrument within the stipulated time without sufficient and reasonable ground, the supply order may be cancelled and the Performance Security Deposit will be liable to be forfeited in terms of clause-1 stated above.

**Clause 6:**

The Seller declares that for any kind of supply that is inferior or late or undelivered, penalty shall be imposed. Any deficiency seen in the above respect shall attract penal measures including black listing for the next three years and legal action against such offenders/defaulters.

**Clause 7:**

The Seller declares that they will raise Invoice or charge the bills in Indian Currency.

**Clause 8:**

The Seller declares that the price mentioned in their Tender Vide **NleT No. .... Dated.....** (ID No. ....) and **E Tender Bid ID No. .... Dated.....** is **Total Rs. .... (In words.....)** **FOR Destination** rate for the supply and installation of the Instrument is inclusive of all charges &. The Seller further declares that they will not claim any extra charge or tax.

**Clause 9:**

It is stated that that in case of any dispute, the legal matter will be settled at Calcutta High Court.

**SCHEDULE**

Item Code	Instrument/Equipment	Make, Model, Capacity, Warranty period, Technical specifications

**WITNESS WHEREOFF** the Parties have signed this Deed on the day, month and year mentioned above.

1. **(Signed, Seal and delivered by the Seller )**

Signature : \_\_\_\_\_  
Name : \_\_\_\_\_  
Seal : \_\_\_\_\_  
Date : \_\_\_\_\_

**(Signed, sealed and delivered by the Buyer)**

2.

Signature : \_\_\_\_\_  
Name : \_\_\_\_\_  
Seal : \_\_\_\_\_  
Date : \_\_\_\_\_