



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- 01/ 2023-24/ ACWB/601, TOLLYGUNGE Dated 13.09.2023 of
Agricultural Chemist, West Bengal.**

Notice inviting e-tender for purchase of high 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.
 - d) List of Items quoted.



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

- 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) NleT.
- 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 & upto 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. Upto date Professional Tax Certificate.
2.	COMPANY DETAILS	COMPANY DETAILS	1. Business Proof Document as applicable, along with complete Address, Telephones, 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. 1 crore. 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.



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

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://wbtenders.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.



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

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.

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.



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

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.
- 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.



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

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 NIeT 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.

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. NIeT/ ACWB /601(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 Buildings. 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 NIeT for wide circulation.
9. Notice Board.

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



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

ANNEXURE I

Technical specifications of Instruments/Equipment

Sl. No.	Instrument	Specification		Quantity
1.	Atomic Absorption Spectrophotometer (AAS)	Monochromator	Should have Littrow or better design with motorized drive for automatic wavelength selection and peaking. Mirror free fiber optics light transmission for maximum light throughput and best detection limit preferred.	2
		Wavelength Range	185 – 900 nm or higher.	
		Diffraction grating	1800 lines/mm blazed at 236 nm and 597 nm Reciprocal Linear Dispersion: 1.6 nm/mm or better.	
		Background Correction	Should have built-in continuum source double-beam background correction using high-intensity deuterium arc lamp.	
		Spectral Bandwidths	User selectable automatic slit widths of 0.2, 0.7 and 2.0 nm at their optimized slit height.	
		Detector	Wide-range segmented solid-state detector, including a built-in low-noise. CMOS charge amplifier array preferred.	
		Lamp	Minimum 8-lamp turret with built-in power supplies slot for EDL/Super lamp should be quoted.	
		Single or Multi-element Lamps	Multi lamp for Cu, Zn, Fe, Mn and Single lamp for Pb, Cd, Cr.	
		Gas Controls	Should have fully computer-controlled with oxidant and fuel monitoring. Keyboard-activated remote ignition system with air-acetylene. Acetylene flow should be automatically adjusted prior to the oxidant change when switching to or from nitrous oxide-acetylene operation.	
		Safety Functions	Interlocks to prevent ignition in absence of proper burner head, the nebulizer/end cap, or the burner drain system preferred.	
		Sample Introduction System	Modular sample introduction system consisting of the quick-change spray chamber, burner head and nebulizer units. Alignment of the flame in the light beam is fully automatic, using a motorized burner mount for vertical and horizontal burner adjustment and automatic software-controlled self-optimization of the burner position. The optimization of the operating flame condition is also fully automatic and software controlled.	
		Data Control System	Complete PC control using Windows based software operating under the Microsoft® Windows® 10 with complete control of the instrument and its major accessories plus data handling and storage should be quoted.	
Local Items to be quoted	(A) i5 PC. (B) 3 KVA online UPS with 30mins back-up.			
Warranty with AMC	One year warranty with additional three years of AMC.			
Installation/Demonstration	Free of Cost.			



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

Sl. No.	Instrument	Specification	Quantity
2.	Hydride generating system for Atomic Absorption Spectrophotometer (AAS)	Hydride generating system for analysis of As and Se. Fully PC controlled Hydride Generation Assembly for analysis of hydride forming elements. Required Inert Gas: Argon – Ultra High Pure grade Argon gas cylinder with double stage regulator; Oil free Air Compressor should be offered directly from the manufacturer of the AAS (local Air compressor will not serve the purpose.) Water coolant should be present with circulatory cooling system. Coded Single Element Hollow Cathode Lamps for the elements As, Hg, Ni, Ca & Mg, Na, K, or Multi element lamp for Ca + Mg along with 1000 ppm 100 ml AAS standard solutions.	2

Sl. No.	Instrument	Specification	Quantity		
3.	UV-Visible Spectro - photometer	Double beam	(1800 lines/mm grating)	12	
		Monochromator	Czerny turner		
		Wave length	190-1100 nm with 0.1 nm step, band width : 1nm or better		
		Wave length accuracy	±0.1 nm (at D2peak656.1nm), ± 0.3nm (whole range)		
		Wave length reproducibility	±0.1 nm		
		Photometric Accuracy	±0.2 % T (0~100%T), ± 0.002 Abs (0-0.5 Abs), ±0.004 Abs (0.5-1Abs)		
		Photometric Reproducibility	±0.15% T (0~100%T), ± 0.001 Abs(0-0.5 Abs) ±0.002 Abs (0.5-1Abs)		
		Transmittance Range	0-400%, Abs range-- 4to + 4abs		
		Stray Light	≤0.02% T at 220nm NaI, 340nm NaNO ₂ ≤1% T at 198 nm KCl		
		Baseline Stability	±0.0003 Abs/hat 500nm		
		Baseline Flatness	±0.0006 Abs		
		Noise (at500nm)	≤0.0001A (Peak to Peak) ≤0.00005A (RMS)		
		Work mode	%T, Abs, Conc., E		
		In-built Display	Touch screen colour display		
		Light Source	Deuterium & Tungsten lamp or Xenon		
		Scan speed	At least 3600 nm/min		
		Sample holder	at least 8 position automatic with temperature control facility		
		Instrument Self-test, Communication port inspection, File system check, Filter positioning, Light positioning, Printer check, lamp examination, Signal detector check, Dark current correction, System parameters check control facility directly through instrument by in-built software			
		At least 25 Multi wavelength analysis facility at a time with separate mode for DNA and RNA analysis			
		Separate control for UV and Visible lamps			
		In-built USB to saved at and PC controlling software			
		In built program for System Self-test, Photometry, Quantitation, Time Scan, Wavelength Scan, Multi - wavelength Test, Protein/DNA Test, System Setup			
10 mm path length Quartz cuvette 2pair, 1ml quartz cuvette, 100 mm long path cell holder with cuvette for estimation of all kind of samples					
Instruments would have the option to connect integrated sphere for diffuse and specular reflectance					
Built in hardware and software validation and reporting wave length, wave length repeatability, resolution, stray light, noise level etc					
Software should be GLP/GMP Compliance IQ, OQ, PQ documentation					
Free onsite installation and training for support					



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

Sl. No.	Instrument	Specification	Quantity
4.	Atomic Absorption Spectrophotometer (AAS)	<p>True Double beam spectrophotometer for multi-element measurements. To be fitted with high speed deuterium background correction with automated monochromator and slits. The ability to air purge the complete interior of the instrument is mandatory. Hardware: Optics: Narrow beam optics. Optics should be fully sealed and mirrors quartz over coated. Wavelength range: 185-900 nm. Monochromator: Automated 0.25 meter focal length or more. Czerny-Turner or equivalent monochromator with computer controlled wavelength selection and peaking. Slits: Automated slit selection. Settings: 0.2, 0.5 and 1.0 nm plus one reduced height slit of 0.5 nm. Grating : Holographic diffraction grating with line density of 1200 lines/mm or more .Detector- PMT/Solid state. Background corrector High intensity deuterium background corrector. Range 185-425 nm to 2.3 Abs. 2 ms response. Electronic modulation with automatic attenuation. Easily aligned and replaced by the user. Lamp System : 4 or more lamp positions . Automatic operation. Lamps should automatically switch off at the end of analysis. Gas control: Fully Programmable gas control system with automatic setting of gas flows. Automatic oxidant changeover. Should have fast response solenoid valve for rapid regulation and setting of selected gas flow. Safety system: There should be adequate safety measurement such as separate ignite/flame-off buttons, internal gas connections made automatically, flame shields and protection against heat and UV radiation. External adjustment of all burner and spray chamber controls. Violation of any safety interlock should prevent flame ignition or should extinguish existing flame .Spray chamber should be fluorinated high-density polyethylene for aqueous and organic solutions. Impact beads should be externally adjustable. Nebulizer: Adjustable nebulizer with inert platinum/iridium capillary and PEEK venturi for corrosion resistance. Burners should be incoloy or equivalent material, air/acetylene burner with Teflon corrosion shield. Should provide external burner rotation. Typical performance >0.9 absorbance with precision of <0.5% RSD from ten 5 sec. integrations for 5 mg/L Cu solution. Software: Windows 10/11 based external PC controlled multi tasking software. Measurement modes: Absorption or flame emission using PROMT, Pre-read delay variable from 0-999 secs. Up to 20 replicates with read time from 0.1-30 secs. Minimum Signal Facility skips to the next sample if the first measurement is less than the specified minimum reading. Different number of replicates can be selected for samples and standards. On-line cookbook: Analytical methods 'cookbook' information should display for each method in the Method window. Should include typical calibration graph and list of alternative wavelengths with comparative sensitivities and any other analytical recommendations. Data handling: All raw data, signals (when selected), method and sequence parameters stored in the worksheet database. Furnace data should be stored in both height and area. Editing of results by masking replicate or solution results and post run modification of peak measurement mode with automatic recalculation of edited result. Calibration data can also be edited by masking standards. Post-run application of alternative algorithm .Help system: Context sensitive help with extensive index, graphics, videos and cross referencing should be available. Warranty: 3 Years for AAS System and 3 Years also for PC-Printer UPS. Accessories: Hollow cathode lamps: Coded single hollow cathode lamps for analysis of Fe, Cu, Mn & Zn. The lamps should have guaranteed 5000 mA hour of usage time. Computer & Printer: i5 Pentium based processor, Laser jet (B/W) printer, necessary UPS (minimum 30 min backup) . Necessary Laboratory Table, Acetylene gas cylinder , regulators, exhaust hood, compressor, etc.</p>	3



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

Sl. No.	Instrument	Specification	Quantity
5.	Automatic Kjeldahl Digestion with scrubber and Distillation unit	<p>Automatic Macro Block Digestion System: Eight Place 250 ml capacity PC Compatible Block Digestion System with all essential accessories, Touch Screen Display/ LCD Display, Icons to represent output of heating process in display, PC software performs with live graphical display of time /temperature gradient with more than 25 programs & more than 10 ramps, Direct USB Port for PC Connectivity with live process view display of various stages with print options.</p> <p>Scrubber System: Minimum three stage acid neutralization scrubber with Containers for Alkali and Water, Non corrosive centrifugal inbuilt suction pump for water recirculation with FRP Tank.</p> <p>Automatic Distillation System: Auto sequencing Programmable Microprocessor based distillation with inbuilt software, Colour Touch Screen high resolution TFT Display/ LCD Display. It should exhibit Auto Intelligent run of programmable steps, Addition of Boric Acid, Dilution, KMNO₄ Addition for Available Nitrogen, Alkali Addition, Steam Processing, Process over indication with inbuilt delay time features,. It should preferably have single press precise addition of alkali anytime during the distillation cycle. It should preferably have Auto Titration Connectivity feature for future up gradation with inbuilt mini printer for instantaneous results on input of titre value with inbuilt formula for Nitrogen, Available Nitrogen, Ammonical Nitrogen etc. without connecting to PC, Complete Automatic safety features, Facility to program and control distillate volume for determination of available nitrogen. Voltage stabilizer should have to be provided befitting this machine additionally</p>	14

Sl. No.	Instrument	Specification	Quantity
6.	Precession Balance	<p>Microprocessor based with full tare facility, Weighing capacity -120g, Readability: 0.1 mg Tarring facility: entire range, Reproducibility: 0.03mg/ 0.08 mg, Linearity: 0.15 mg/0.02 mg, Stabilization time: ≤ 4sec/ 8sec, Calibration: Fully automatic time and temperature control internal calibration (FACT), Power supply: 230± 10 V/ 50 Hz AC, Weighing pan: 80 mm, Display: LCD display, Quick and accurate weighing, Portable compact size, light weight hanger for below balance weighing, overload protection, leveling feel, level indicator, lug for anti-theft locking device, AC adaptor, Glass draft shield, chemical resistant body GLP GMP Complaint print out of weighing result, Protective cover: sealed key panel protection against dust spills and from stains and scratches, Quick and error free data transfer: RS232 port for direct connection to PC, printer or bar code reader, USB Port for connection to PC, Self diagnostics features: Easy running of balance diagnostic test e.g. key pad test, repeatability test, Smart Track: Shows how much of the entire weighing range has been used/ left, Ergo Door: Easy access door of the draft shield e.g The right door can be opened from the left side and vice versa (Single side operation), HRT weighing cell with two built in weights for calibration, 3 programmable smart keys in the key pad for different access to preferred applications, Quick lock: Fast and convenient dismantling of the draft shield for cleaning, Different weighing units.</p>	16



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

Sl. No.	Instrument	Specification	Quantity
7.	Halogen moisture analyser	<p>It should be integrated heater and balance with an included assistant function to find the parameters giving comparability to the standard method. The moisture analyser should be able to find the right method parameters in 3 easy steps through any Assistant in built function. Repeatability: + 0.2% for initial weight >1g & for > 5 g + 0.05%, Temperature Range: 40 – 200^o C, Stand-by temperature selectable from 40 – 100^oC in increments of 1^oC Temperature. Increments: Adjustable in 1^o C, Timer Settings: 1 x 0.1 x 99 minutes, Heat Source: Infrared radiation by an AURI heater of 600 W/ Halogen/ Organic heater, Heating Modes: Standard, Gentle & any other drying. Number of Program Memories: about 100 methods saved in non-volatile memory data mini USB / RS232, Display mode for results: in %M and g dry matter in %S and g ATRO in %M/S, Data transfer: SD card, method import and export function Memory for capable to save the last 999 measurements. Should have LED-illuminated sample chamber, The status light indicating the process status and the menu function "Performance Test" simplifies tests for repeatability. Should be able to have Direct data transfer to Microsoft[®] Windows programs Should have programmable interval for data output. Heating element should be fast, extremely rugged and durable. Compared to glass heating lamps, e.g. infrared lamps or halogen heaters should be resistant to dirt and vibrations. Intuitive user interface, including touch screen and easy-to-understand menu guidance Access to the sample chamber. via hinged flip – up cover. Removable hood with wide opening angle, Soft close mechanism. Analysis mode / Shut – off parameter: Fully automatic, Semi automatic and timer mode. User-friendly operation. Should be supplied with accessories like disposable Aluminum sample dishes 50 – 80 nos, glass fiber pads for liquid samples, sample pan, power cord and operating manual. Warranty for one year. Installation & training should be provided by trained Company Engineers</p>	1

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



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

ANNEXURE II

S.L. 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

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

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



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

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 High 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. 01/ 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)



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

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.	NieT.				
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 Year showing annual turnover of Rs1 crore (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/-
Agricultural Chemist, West Bengal
Govt. of West Bengal



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:



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

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



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

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 **NieT 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 : _____

2. (Signed, sealed and delivered by the Buyer)

Signature : _____

Name : _____

Seal : _____

Date : _____