



WEST BENGAL UNIVERSITY OF ANIMAL AND FISHERY SCIENCES

68, Kshudiram Bose Sarani, Belgachia, Kolkata-700 037
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Prof. Partha Das, Ph.D.
Registrar (Actg.)

Memo No. WBUAFS/Admn/ET(25-26)/2460

Date: 25.09.2025

E-Tender Helpdesk: (033) 2546-9768
Tele-fax: (033) 2556-3123 E-MAIL: drsouravchandra1@gmail.com
Log-on for submission: <http://www.wbtenders.gov.in>
University Website: <http://www.wbuafsc.ac.in>

NOTICE INVITING e-TENDER

e-NIT Reference No - WBUAFS/ADMN/ET-026/2025-2026

The Registrar, West Bengal University Of Animal & Fishery Sciences invites open e-tender for preparing the rate schedule of equipments/ instruments under PMMSY project on “ **Establishment Of Aquatic Referral Laboratory For Quality Testing And Disease Diagnosis**” Faculty of Fishery Sciences, WBUAFS From Manufacturers / Authorized Distributors/ Dealers/ Agencies/ Bidders/ Suppliers having desired prequalification eligibility credential for execution of supply and satisfactory delivery.



West Bengal University of Animal and Fishery Sciences

37 & 68, Kshudiram Bose Sarani, Belgachia, Kolkata 700 037

<https://wbuafsc.ac.in>

Detailed particulars may be obtained from the website <http://www.wbtenders.gov.in> and also be viewed from the University Website <http://wbuafsc.ac.in>.

Last date & time of submission of bid electronically is on 18.10.2025 at 14.00 Hrs IST.

1. ABOUT WBUAFS

The West Bengal University of Animal & Fishery Sciences (WBUAFS) is a state-aided University under the administrative control of Animal Resource Development Department, Govt. of West Bengal. The University began its journey with the heritage of century-old Bengal Veterinary College on 2nd January, 1995 with the enactment of West Bengal University of Animal & Fishery Sciences Act-1995. Though established as full-fledged University in 1995, its heritage status can be traced out to the establishment of Bengal Veterinary College in 1893. The University is imparting teaching, research and extension activities in the field of Veterinary and Animal Sciences, Fishery Sciences and Dairy Technology. The University has three campuses located at Belgachia (Kolkata), Chakgaria (Kolkata) and Mohanpur (district: Nadia).

2. TENDER INVITING AUTHORITY & CONTROLLING OFFICER

The Registrar
West Bengal University of Animal & Fishery Sciences
68, K.B.Sarani, Belgachia, Kolkata- 700 037
West Bengal, India.

1. Name & Address: PMMSY project on **“EstablishmentOf Aquatic Referral Laboratory For Quality Testing And Disease Diagnosis”** Faculty of Fishery Sciences, WBUAFS, Directorate of Research, Extension and Farms, WBUAFS.
2. Principal Investigator: Mr. Sutanu Karmakar, Assistant Professor & Principal Investigator, PMMSY project on **“Establishment of Aquatic Referral Laboratory For Quality Testing And Disease Diagnosis”** Faculty of Fishery Sciences, 5 Budherhat Road, Panchasayar, Kolkata 700 094, WBUAFS, West Bengal.

3. IMPORTANT ACTIVITIES

Sl. No	Activities	Date & Time
1.	e-tender Publishing Date	25.09.2025 at 17.00 Hrs
2.	Document Download start date	26.09.2025 at 15.00 Hrs
3.	Bid submission start date	26.09.2025 at 17.00 Hrs
4.	Last date of submission of Bid	18.10.2025 at 14.00 Hrs
5.	Technical Bid opening date	29.10.2025 at 14.00 Hrs and onwards
6.	Technical Bid opening Summary sheet (TBO) containing Preliminary Technical Bid Evaluation Summary uploading date	To be notify later
7.	Uploading Technical Bid Evaluation Sheet (TBE)	-do-
8.	Financial Bid opening date	-do-
9.	Uploading of Financial Bid evaluation sheet	-do-
10.	Uploading of the Letter of Invitation / Acceptance LOI/LAO	-do-
11.	Uploading of Award of Contract (AOC) (Supply order/ Work Order)	-do-

3.1 The above schedule is fixed; however, the undersigned reserves the right to change the date of activities in case of any exigencies through a notice in the departmental website & Notice Board at above addressed office.

4. Information of the instruments.

Sl No.	Item	Quantity	EMD Cost (Rs.)
1.	Benchtop Multiparameter Water Analyser (pH/EC/Conductivity/Temp/Salinity/DO)	1	15000.00
2.	Benchtop dedicated pH/ORP meter	2	
3.	Multiparameter Portable pH/EC/Turbidity/OPDO Meter	1	
4.	Pocket pH/Conductivity/TDS Tester (High Range)	2	
5.	Digital Thermometer	1	
6.	Turbidity (ISO) Portable Meter	1	
7.	Water Testing Backpack	1	
8.	Soil pH and Moisture Meter	1	

5. Eligible criteria for participation in the bidder

- a. The prospective Bidder must have the credential of satisfactorily completion as a prime agency during the last 3(three) years from the date of issue of this Notice at least one works of similar nature having a magnitude to tender under authority of State /Central Govt. State / Central Govt. undertaking/ Statutory Bodies Constituted under the Statute of the Central / State Govt.
N.B.:- Completion certificate should contain a) Name of work/instruments, (b) Name of Client, (c) Amount put to tender, (d) Schedule month and year of commencement and completion as per work order (e) actual month and year of completion.
- b. Valid PAN Card in the name of bidder/organization
- c. Valid Tread License (up-to-date) in the name of bidder/organization.
- d. Valid GSTIN applicable under GST Acts & Rules.
- e. Income Tax Return copy for last 3 years.
- f. Annual Turn Over: Average Annual Turn Over above Rs 10 lakhs during last three years.
- g. i) An undertaking should be given stating thereby that the firm has not been debarred or penalized for any reasons out of work by any Govt. Department.
ii) Subletting of contract is strictly prohibited.

6. Instruction to the bidders:

- 1.1 Intending bidders may download & upload the tender documents free of cost from the website <http://wbtenders.gov.in> directly with the help of Digital Signature Certificate.
- 1.2 Intending bidder may obtain Digital Signature Certificate from the approved service provider of Govt. of India.
- 1.3 Tenders have to be submitted ON-LINE in two parts i.e. Technical Bid (Part-I) & Financial Bid (Part-II) in e-tender portal <http://wbtenders.gov.in> by using DSC.
- 1.4 All the desired documents have to be uploaded in Technical Bid (Part-I).
- 1.5 Eligibility of opening the Financial Bid (Part-II) for finalization of firms & rates will depend on the outcome of the documents uploaded in the Technical Bid (Part-I).
- 1.6 The Financial Bid shall consist of only the details of rates offered.
- 1.7 The intending bidders may please note that all the columns in the Technical Bid as well as Financial Bid are to be filled meticulously with precision along with documentary evidence wherever necessary.
- 1.8 The offered rates for various items should be quoted in BOQ (Bill of Quantities) i.e. Financial Bid (Part-II) in the dedicated column & to be uploaded separately.

7. TECHNICAL PROPOSAL OF INSTRUMENTS

- Submit Bidder's company profile & other details as per the enclosed format (Annexure-II)
- Uploaded all documents/certificates / Testimonials as applicable.
- All pages are preferred with stamp and signatures.
- Technical Bid documents.

Sl. No.	Particulars	To be uploaded to the site of http://www.wbtenders.gov.in
1.	EMD	Documentary evidence for Payment of earnest money made either by Net Banking through ICICI Bank Payment Gateway OR NIFT / RTGS. If any agency/ Organisation is exempted from payment of EMD, copy of relevant Government Order (only *Registered Labour Co-operative Societies will be exempted from paying the Earnest Money Deposit) is to be furnished i.e. Uploaded without fail.
2.	Tender Form	Original sign copy.
3.	PAN	Valid PAN Card in the name of bidder/organisation
4.	Valid Trade License	Valid Tread License (up-to-date) in the name of bidder/organisation
5.	Labour License if applicable	Valid Labour License in the name of bidder/organisation
6.	Valid GST Registration Certificate	Valid GSTIN applicable under GST Acts & Rules.
7.	Constitution of Company/ Company details	For Proprietorship Firms, Partnership Firms, Registered Company, Registered Co-operative Society, valid Joint Venture or Consortiums (Valid Trade License/ acknowledgement/ Receipt of application for Trade License/ Revalidation applicable under the Rules) OTHER

8.	Credential of work	The prospective Bidder must have the credential of satisfactorily completion as a prime agency during the last 3(three) years from the date of issue of this Notice at least one works of similar nature having a magnitude to tender under authority of State /Central Govt. State / Central Govt. undertaking/ Statutory Bodies Constituted under the Statute of the Central / State Govt.
9.	Income Tax Return copy	Income Tax Return copy for last 3 years
10.	Compliance Certificate (Mandatory)	As given in NIT
11.	Annual Turn Over	1. P/L and audited Balance sheet for 3 year. (Profit & Loss accounts and audited balance sheets along with relevant annexure containing the designated Forms 3CA/ 3CB/3CD, as applicable, under IT Act, having Average Annual Turn Over above Rs 10 lakhs, else only Audited Profit & Loss Accounts for last three years within the zone of preceding five financial years from date of publication of e-NIT is required.)

8. FINANCIAL PROPOSAL OF instruments

- Financial bid will be opened only when technical bid is found to be qualified.
- Financial Proposal must be duly filled as per BOQ.
- Price can be quoted only in INR.
- Validity of tender: Quoted rate shall remain valid for a period of at least 365days.
- All duties, taxes and other levies payable by the Bidders under the contract shall be included in the total price.
- No conditional financial bid shall be entertained / accepted.

9. Earnest Money (EMD): -

In the event of e-filling, intending bidders may download the tender documents from the website: <http://wbtenders.gov.in> directly with the help of Digital Signature Certificate. Completed bids, digitally signed, have to be uploaded in the same website. Payment for earnest money to be made either by Net Banking through ICICI Bank Payment Gateway or through RTGS/NEFT as detailed below:

a) Payment by NET Banking (any listed bank) through ICICI Bank Payment Gateway:

i) On selection of net banking as the payment mode, the bidder will be directed to ICICI Bank Payment Gateway webpage (along with a string containing a Unique ID) where he will select the Bank through which he wants to do the transaction.

ii) Bidder will make the payment after entering his Unique ID and password of the bank to process the transaction.

iii) Bidder will receive a confirmation message regarding success/failure of the transaction.

iv) If the transaction is successful, the amount paid by the bidder will get credited in the respective Pooling account of the State Government/PSU/Autonomous Body/Local Body/PRI, etc maintained with the Focal Point Branch of ICICI Bank at R.N. Mukherjee Road, Kolkata for collection of EMD/Tender Fees.

v) If the transaction is failure, the bidder will again try for payment by going back to the first step.

b) Payment through RTGS/NEFT:

i) On selection of RTGS/ NEFT as the payment mode, the e-Procurement portal will show a pre-filled challan having the details to process RTGS/NEFT transaction.

ii) The bidder will print the challan and use the pre-filled information to make RTGS/NEFT payment using his Bank Account.

10. For availing exemption of EMD:

a. Those who exempted from depositing of earnest money, they will have to upload the ORIGINAL exemption certificate issued by the competent authority.

b. The list of product manufactured & approved by NSIC/SSI/MSME Registration authority will only be considered for exemption from depositing of earnest money and those listed items will only come under zone of consideration of price preference. If any bidder quoted products other than those covered under NSIC/SSI Registration should accompany EMD. Authorized Officers of the undersigned may visit factory.

- c. In no circumstances Cash, G.P. Notes, Account Payee Cheque, Savings Bank Pass Book, Fixed/Term/Special Term Deposit Receipt, Token of RBI etc. will be accepted as EMD.
 - d. The Earnest Money Deposit shall not carry interest and Earnest Money Deposit of previous tender will not be adjusted or considered for this tender. Earnest Money Deposited before the date of issue of this N.I.T. will not be accepted.
 - e. Tender uploaded without earnest money deposit or valid exemption certificate will be summarily rejected.
 - f. Earnest Money of successful bidder will be retained during the tenure of tender and extension, if there be any, and for such retention no interest shall be payable.
 - g. If the validity of SSI registration is going to be expired within tender/contract period, the bidder should produce the certificate to this effect to the undersigned. Registration of SSI unit after the submission of tender will not entitle the bidder to exemption from payment of Earnest Money.
11. **Refund/Settlement Process for EMD:** Online Receipt and Refund of Earnest Money through State Govt. E-bid Portal: Please follow G.O. No. 3975-F(Y) dated 28.07.2016 available in www.wbfin.nic.in.
12. **Additional performance Security:** Additional Performance Security @10% of the tendered amount shall be obtained from the successful bidder in the accepted bid value is 80% or less of the Estimate put to tender followed by the order no 4608-F(Y) dated 18th July, 2018, Finance Department, Government of West Bengal.
13. **Liquidated Damage:** All contracts should have a provision for recovery of liquidated damages for default on the part of the contract or unless any special instructions are issued by the "Competent Authority" as per provision vide order no 10500-F Dated, Kolkata, the 19th November, 2004 issued by Finance Department Govt. of West Bengal.
14. **Acceptance of tender:** Acceptance of Tender will be followed as per Finance Department order No 2320- F(Y) Dated, 7 June, 2022
15. **Ground for Suspension and Debarment:**
- i. Submission of eligibility requirements containing false information or falsified documents.
 - ii. Submission of Bids that contain false information or falsified documents, or the concealment of such information in the Bids in order to influence the outcome of eligibility screening or any other stage of the bidding process.
 - iii. Unauthorised use of one's name/digital signature certified for purpose of bidding process.
 - iv. Any documented unsolicited attempt by a bidder to unduly influence the outcome of the bidding in his favour.
 - v. All other acts that tend to defeat the purpose of the competitive bidding such as lodging false complaints about any bidder, posting baseless allegation about any officer duly authorised by the Department, restraining any interested bidder to participate in the bidding process etc.
 - vi. Refusal to accept an award after issuance of 'Letter of Acceptance' or enter into contract with the Government without justifiable cause.
 - vii. Refusal or failure to post the required performance security/earnest money within the prescribed time without justifiable cause.
 - viii. Subcontracting of the contract or any part thereof without prior written approval of the procuring entity.
 - ix. Failure solely due to fault or negligence of the Contractor, to mobilize and start work within the specified period as mentioned in the 'Letter of Acceptance' / 'Letter of Acceptance cum work Order' / 'Work Order' / 'Notice of Process' / 'Award of Contract' etc. ultimately resulting in rescindment of contract.
 - x. Failure to fully and faithfully comply with the contractual obligations without valid cause, or failure to comply with any written lawful instruction of the procuring entity or his representative(s) pursuant to the implementation of the contract, ultimately resulting in rescindment of contract.
 - xi. For the procurement of goods, unsatisfactory progress in the delivery of the goods by the manufacturer, supplier or distributor arising from his fault or negligence and / or unsatisfactory or inferior quality of goods, vis a vis as laid down in the contract.
 - xii. Refusal or failure to upload a self-declaration in specimen format of Form-4 to the effect of any previous debarment imposed by I&WD, any other Department of State Government and or Central Government.
 - xiii. Wilful or deliberate abandonment or non-performance in a project or contract by the contractor / suppliers resulting to substantial breach thereof without lawful and / or just cause(s).

16. TRADE LICENSE , GSTN REGISTRATION CERTIFICATE & PAN

- a. Each bidder should upload Trade License of their firm. Incorporation certificate issued by the Competent Authority will be accepted if bidder fails to upload Trade License.
- b. Each bidder should upload Valid 15 Digit Goods & Services Taxpayers Identification Number (GSTIN) under GST Act, 2017 obtained from competent authority. If the bidder is exempted from Tax they should upload exemption Certificate obtained from competent authority.
- c. ORIGINAL PAN card issued by competent authority is to be uploaded.

17. IT RETURN

- a. ORIGINAL IT Return for three years AY: 2022-2023, 2023-2024 & 2024-2025 are to be uploaded.

18. Annual Turn over

- a. The minimum average annual financial turnover of the bidder during the last three years, ending on 31st March of the previous financial year, should be as indicated above in the bid document. Documentary evidence in the form of certified Audited Balance Sheets of relevant periods or a certificate from the Chartered Accountant / Cost Accountant indicating the turnover details for the relevant period shall be uploaded with the bid. In case the date of constitution / incorporation of the bidder is less than 3-year-old, the average turnover in respect of the completed financial years after the date of constitution shall be taken into account for this criteria.

19. GENERAL

- a. No Tender/Tender pre-requisites such as Earnest Money Deposit, Sample etc., will be accepted after date & time of scheduled closing.
- b. Conditional Tenders and Tenders not accompanied with the documents shall be summarily rejected without any reference made to the bidder and no correspondence will be entertained.
- c. Submission of hard copy of financial bid (BOQ) is totally prohibited. Disclosure of rate in the technical bid will lead to rejection of bid.
- d. Any addendum/corrigendum/extension of validity period will be notified at our departmental website www.wbuafsc.ac.in.
- e. The uploaded document in the tender without containing necessary enclosures and incomplete or tampered documents shall be rejected at the time of evaluation without any further notice to the bidder.
- f. In case of products with Brand Name, the Tendering Firm is required to mention the Brand Name against each item. In case, I.S.I. Marked products, the Tendering Firm shall have to produce License of manufacturing from B.I.S. ISI/BIS marked items would be preferred and non-ISI/BIS items will be considered only when ISI/BIS marked items are not available.
- g. **The undersigned reserves the right to reject any or the entire tender at any stage without assigning any reason thereof.**
- h. Any dispute/difference arising out of this Tender will be referred to the sole arbitrator to be appointed by WBUAFS and the same will be held at Kolkata high court only. Arbitrator will have the power to pass interim order and will be guided by the Arbitration & Conciliation Act, 1996.
- i. When a Tendering Firm submitted their tender in response to this Notification, they will be deemed to have understood fully the contents, the requirement, term & conditions of this tender. No extra payment will be made on the pretext that the Tendering Firm did not have a clear idea of any particular point. Any offer made in response to this tender when accepted by the Tendering Authority will constitute a contract between the parties.
- j. Firm quoting rates on behalf of its Principal should indicate in tender paper that it is a DIVISION of the principal firm.
- k. All notice intended to be served on the bidder will be deemed to have been duly served, if sent under certificate of posting or Registered post to the address mentioned in the tender or by any other process permissible under civil law.
- l. In the event of delay/non-availability/garbled printout/inconvenience in getting access to the Website for downloading tender documents, the authority will not be held responsible. Every document uploaded by the bidder should be clear, legible otherwise it will not be considered for acceptance.

- m. The offered rate should be valid for 365 days but the period may be extended or curtailed at the discretion of the undersigned/ Appropriate Committee/ Tendering Authority and requirement.

20. PAYMENT

- a. No advance payment (Part or full) will be entertained in any case.
- b. Tax Invoice is to be sent in TRIPLICATE along with relevant Order, Challan etc. bearing completion certificate from competent authority of WBUAFS.

21. Specification of instruments

1. Benchtop Multiparameter Water Analyser (pH/EC/Conductivity/Temp/Salinity/DO)

pH	
Range	-2.0 to 20.0 pH; -2.00 to 20.00 pH; -2.000 to 20.000 pH
Resolution	0.1 pH; 0.01 pH; 0.001 pH
Accuracy	±0.1 pH; ±0.01 pH; ±0.002 pH (±1 last significant digit)
Temperature Compensation	Automatic or manual
mV	
Range	-2000.0 mV to 2000.0 mV
Resolution	1 mV; 0.1 mV
Accuracy	±0.2 mV ±1 last significant digit
ISE	
Range	1 x 10 ⁻⁶ to 9.99 x 10 ¹⁰ concentration
Resolution	1; 0.1; 0.01; 0.001 concentration
Accuracy	±0.5% (monovalent ions); ±1% (divalent ions)
Calibration	Automatic, up to five-point calibration, seven fixed standard solutions available for each measurement unit, and five user defined standards
Temperature	
Range	-20.0 to 120.0 °C; -4.0 to 248.0 °F; 253.0 to 393.0 K
Resolution	0.1 °C / 0.1 °F / 0.1 K
Accuracy	±0.2 °C / ±0.4 °F / ±0.2 K
Relative mV offset range	±2000.0 mV
pH Calibration	
Calibration points	Up to 5
Type	Automatic; Semiautomatic; Manual
Standard buffers	Hanna and NIST - pH 1.68, 3.00, 4.01, 6.86, 7.01, 9.18, 10.01, 12.45
Custom buffers	Up to 5
Custom group	Up to 5
1st calibration point	Offset or Points (user setting)
Temperature	Single point, adjustable; Isopotential point: -2.000 to 20.000pH

User Calibration	
Conductivity	
Range	0.000 to 9.999 $\mu\text{S/cm}$; 10.00 to 99.99 $\mu\text{S/cm}$; 100.0 to 999.9 $\mu\text{S/cm}$; 1.000 to 9.999 mS/cm ; 10.00 to 99.99 mS/cm ; 100.0 to 1000.0 mS/cm
Resolution	0.001 $\mu\text{S/cm}$; 0.01 $\mu\text{S/cm}$; 0.1 $\mu\text{S/cm}$; 0.001 mS/cm ; 0.01 mS/cm ; 0.1 mS/cm
Accuracy	$\pm 1\%$ of reading $\pm 0.010 \mu\text{S/cm}$, whichever is greater
Cell Constant	0.0500 to 200.00 /cm
Calibration Type	Automatic; manual
Calibration points	Single Multiple
Calibration solutions	84.00 $\mu\text{S/cm}$, 1.413 mS/cm , 5.000 mS/cm , 12.88 mS/cm , 80.00 mS/cm , 111.8 mS/cm
Temperature Compensation	Linear, natural, standard, disabled
Reference Temperature	Range: 5.0 to 30.0°C (41.0 to 86.0°C Resolution 0.1°C / 0.1°F
Temperature Coefficient	0.00 to 10.00%/°C
Resistivity	
Range	1.0 to 99.9 $\Omega \cdot \text{cm}$; 100 to 999 $\Omega \cdot \text{cm}$; 1.00 to 9.99 $\text{K}\Omega \cdot \text{cm}$; 10.0 to 99.9 $\text{K}\Omega \cdot \text{cm}$; 100 to 999 $\text{K}\Omega \cdot \text{cm}$; 1.00 to 9.99 $\text{M}\Omega \cdot \text{cm}$; 10.0 to 100.0 $\text{M}\Omega \cdot \text{cm}$
Resolution	0.1 $\Omega \cdot \text{cm}$; 1 $\Omega \cdot \text{cm}$; 0.01 $\text{K}\Omega \cdot \text{cm}$; 0.1 $\text{K}\Omega \cdot \text{cm}$; 1 $\text{K}\Omega \cdot \text{cm}$; 0.01 $\text{M}\Omega \cdot \text{cm}$; 0.1 $\text{M}\Omega \cdot \text{cm}$
Accuracy	$\pm 1\%$ of reading or $\pm 1 \Omega \cdot \text{cm}$, whichever is greater
Total Dissolved Solids (TDS)	
Range	0.000 to 9.999 ppm; 10.00 to 99.99 ppm; 100.0 to 999.9 ppm; 1.000 to 9.999 ppt; 10.00 to 99.99 ppt; 100.0 to 400.0 ppt; actual TDS (with 1.00 factor)
Resolution	0.001 ppm; 0.01 ppm; 0.1 ppm; 0.001 ppt; 0.01 ppt; 0.1 ppt
Accuracy	$\pm 1\%$ of reading or $\pm 0.01 \text{ ppm}$, whichever is greater
Salinity	
Range	0.00 to 42.00 PSU - Practical Scale 0.00 to 80.00 ppt - Natural Sea Water 0.0 to 400.0 % - Percent Scale
Resolution	0.01 for Practical Scale / Natural Sea Water 0.1 % for Percent Scale
Accuracy	$\pm 1\%$ of reading
Calibration	1 point for Percent Scale, using 100% salinity calibration solution
Temperature	
Range	-20.0 to 120.0 °C; -4.0 to 248.0°F; 253.0 to 393.0 K
Resolution	0.1 °C; 0.1 °F; 0.1 K
Accuracy	$\pm 0.2 \text{ °C}$; $\pm 0.4 \text{ °F}$; $\pm 0.2 \text{ K}$
Calibration	Single point, adjustable
Dissolved Oxygen	
Range	0.00 to 90.00 mg/L (ppm) concentration; 0.0 to 600.0 % saturation
Resolution	0.01 mg/L (ppm); 0.1 % saturation
Accuracy	Refer to individual specifications for probe used
DO Probe	

Specification	
Probe Body Material	ABS
Smart Cap™ material	Polypropylene
Cable jacket material	PVC
Cable Length	1m
Probe guard	Stainless steel
Temperature Measurement	Thermistor
Pressure	20m (29 PSI)
Probe Dimensions with guard	174 x 25mm
Response Time	45 seconds or less
probe ingress protection rating	IP68
Sensor type	Optical; luminescence quenching
GLP	Yes
Reading Sampling Rate	1000 ms
Logging Number of Records	50,000 maximum per file and stores at least 1,000,000 data points per user
Calibration reminder	Yes
Connectivity	USB-C, USB-A, Wi-Fi , RS232
Power Supply	DC adapter 100-240 VAC to 24 VDC 2A
Accessory	All probes, pH calibration solutions (3nos.), Conductivity standard, electrode cleaning solutions etc. to be supplied one bottle each.
Warranty	One year or more

2. Benchtop dedicated pH/ORP meter

pH Range	Basic mode: -2.00 to 16.00 pH; standard mode: -2.000 to 16.000 pH
Resolution	Basic mode: 0.01 pH; standard mode: 0.001 pH
Accuracy (@25°C)	Basic mode: ±0.01 pH; standard mode: ±0.002 pH
Calibration	Basic mode: automatic, up to three points calibration, 5 standard buffers available; standard mode: automatic, up to five point calibration, 7 standard buffers available and two custom buffers

pH CAL Check (electrode diagnostics)	Yes
Temperature Compensation	Automatic, -5.0 to 100.0°C (using integral temperature sensor)
Electrode Diagnostics	Standard mode: probe condition, response time and out of calibration range
mV pH Range	±1000 mV
Resolution	0.1 mV
Accuracy (@25°C)	±0.2 mV
ORP Range	±2000 mV
Resolution	0.1 mV
Accuracy (@25°C)	±0.2 mV
Temperature Range	-20.0 to 120.0°C
Resolution	0.1°C
Accuracy	±0.5°C
Probe	Digital glass body pH electrode with 3.5mm connector and 1m cable (included)
Logging	Up to 1000 (400 for basic mode) records organised in: manual log-on demand (max. 200 logs), manual log-on-stability (max. 200 logs), interval logging (max. 600 samples; 100 lots)
Connectivity	1 USB port for storage; 1 micro USB port for charging and PC connectivity
Environment	0 to 50°C; RH max 95% non-condensing
Power Supply	5 VDC adapter (included)
Accessory	pH calibration solutions (3nos) one bottle each.
Warranty	One year or more

3. Multiparameter Portable pH/EC/Turbidity/OPDO Meter

H / mV Range	0.00 to 14.00 pH / ±600.0 mV
pH / mV Resolution	0.01 pH / 0.1 mV
pH / mV Accuracy	±0.02 pH / ±1.2 mV
pH / mV Calibration	<ul style="list-style-type: none"> •One point using HI9828-20 Quick calibration solution •Up to three points using pH 4.01, pH 6.86, pH 7.01, pH 9.18, pH 10.01 standard buffers and one custom buffer
ORP Range	±2000.0 mV
ORP Resolution	0.1 mV
ORP Accuracy	±1.0 mV
ORP Calibration	Automatic at one custom point (relative mV)
Dissolved Oxygen Range	0.0 to 500.0 % saturation 0.00 to 50.00 ppm (mg/L)
Dissolved Oxygen Resolution	0.1 % saturation 0.01 ppm (mg/L)

Dissolved Oxygen Accuracy	<ul style="list-style-type: none"> •±1.5 % of reading from 0.0 to 200.0 % saturation •±5 % of reading from 200.0 to 500.0 % saturation •±1.5 % of reading from 0.00 to 20.00 mg/L •±5 % of reading from 20.00 to 50.00 mg/L
DO calibration	<ul style="list-style-type: none"> •One point, quick calibration in water-saturated air •One or two points, at 100 % and 0 % •One point, using a custom solution (% saturation or mg/L)
Pressure compensation	Automatic 450 to 850 mmHg
EC Range	0 to 200 mS/cm 0 to 400 mS/cm (absolute)
EC Resolution	<ul style="list-style-type: none"> •Manual 1 µS/cm 0.001 mS/cm; 0.01 mS/cm; 0.1 mS/cm; 1 mS/cm •Automatic 1 µS/cm from 0 to 9999 µS/cm 0.01 mS/cm from 10.00 to 99.99 mS/cm 0.1 mS/cm from 100.0 to 400.0 mS/cm •Automatic (mS/cm) 0.001 mS/cm from 0.000 to 9.999 mS/cm 0.01 mS/cm from 10.00 to 99.99 mS/cm 0.1 mS/cm from 100.0 to 400.0 mS/cm
EC Accuracy	±1 % of reading or ±1 µS/cm, whichever is greater
EC Calibration	<ul style="list-style-type: none"> •One point using HI9828-20 Quick calibration solution •One point using 84 µS/cm, 1413 µS/cm, 5.00 mS/cm, 12.88 mS/cm, 80.0 mS/cm, 111.8 mS/cm standard solutions or custom point
Resistivity Range	0 to 999999 Ω·cm 0 to 1000.0 kΩ·cm 0 to 1.0000 MΩ·cm
Resistivity Resolution	1 Ω·cm 0.1 kΩ·cm 0.0001 MΩ·cm
Resistivity Calibration	Based on conductivity calibration
TDS Range	0 to 400000 ppm (mg/L) (the maximum value depends on the TDS factor)
TDS Resolution	<ul style="list-style-type: none"> •Manual 1 ppm (mg/L) 0.001 ppt (g/L); 0.01 ppt (g/L); 0.1 ppt (g/L); 1 ppt (g/L) •Automatic 1 ppm (mg/L) from 0 to 9999 ppm (mg/L) 0.01 ppt (g/L) from 10.00 to 99.99 ppt (g/L) 0.1 ppt (g/L) from 100.0 to 400.0 ppt (g/L) •Automatic: ppt (g/L) 0.001 ppt (g/L) from 0.000 to 9.999 ppt (g/L) 0.01 ppt (g/L) from 10.00 to 99.99 ppt (g/L) 0.1 ppt (g/L) from 100.0 to 400.0 ppt (g/L)
TDS Accuracy	±1 % of reading or ±1 ppm (mg/L), whichever is greater
TDS Calibration	Based on conductivity or salinity calibration
Salinity Range	0.00 to 70.00 PSU
Salinity Resolution	0.01 PSU
Salinity Accuracy	±2% of reading or ±0.01 PSU, whichever is greater
Salinity Calibration	One point, using a custom solution

Seawater Sigma Range	0.0 to 50.0 σ_t , σ_0 , σ_{15}
Seawater Sigma Resolution	0.1 σ_t , σ_0 , σ_{15}
Seawater Sigma Accuracy	$\pm 1.0 \sigma_t$, σ_0 , σ_{15}
Seawater Sigma Calibration	Based on conductivity or salinity calibration
Turbidity Range	0.0 to 99.9 FNU 100 to 1000 FNU
Turbidity Resolution	0.1 FNU from 0.0 to 99.9 FNU 1 FNU from 100 to 1000 FNU
Turbidity Accuracy	± 0.3 FNU or ± 2 % of reading, whichever is greater
Turbidity Calibration/td>	Automatic Up to three points using 0 FNU, 20 FNU, 200 FNU, and a custom
Atmospheric pressure Range	450.0 to 850.0 mmHg 17.72 to 33.46 inHg 600.0 to 1133.2 mbar
Atmospheric pressure Resolution	0.1 mmHg 0.01 inHg 0.1 mbar
Atmospheric pressure Accuracy	± 3.0 mmHg within ± 15 °C from calibration temperature
Atmospheric pressure Calibration	Automatic at one custom point
Temperature Range	-5.00 to 50.00 °C 23.00 to 122.00 °F 268.15 to 323.15 K
Temperature Resolution	0.01 °C 0.01 °F 0.01 K
Temperature Accuracy	± 0.15 °C ± 0.27 °F ± 0.15 K
Temperature Calibration	Automatic at one custom point
Additional specifications – Temperature compensation	Automatic
Additional specifications – Logging memory	<ul style="list-style-type: none"> •Interval logging 50000 records •Log-on-demand (all parameters) 20000 records
Additional specifications – Logging interval	1 second to 3 hours
Additional specifications – USB-C (Host) functions	Mass-storage host
Additional specifications – USB-C (Device) functions	Mass-storage device
Additional specifications – Protection rating	IP67
Additional specifications – Environment	0 to 50 °C (32 to 122 °F); RH 100 %
Additional specifications – Battery type	4 x 1.5 V AA alkaline batteries 1 x internal, Li-ion rechargeable battery
Additional specifications – Battery life	≈ 126 hours 90 hours using alkaline AA batteries 36 hours using Li-ion battery

Warranty	One year or more
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4. Pocket pH/Conductivity/TDS Tester (High Range)

pH Range	0.0 to 14.0 pH
pH Resolution	0.01 pH
pH Accuracy	±0.05 pH
pH Calibration	Automatic, at one or two points with two sets of standard buffers (pH 4.01 / 7.01 / 10.01 or pH 4.01 / 6.86 / 9.18)
pH Temperature Compensation	Automatic
EC Range	0.00 to 20.00 mS/cm
EC Resolution	0.01 mS/cm
EC Accuracy	±2% F.S.
EC Calibration	Automatic, one-point at: 12.88 mS/cm
TDS Range	0.00 to 10.00 ppt (g/L)
TDS Resolution	0.01 ppt (g/L)
TDS Accuracy	±2% F.S.
TDS Calibration	Automatic, one-point at: 6.44 ppt (g/L)
EC/TDS Temperature Compensation	Automatic with β adjustable from 0.0 to 2.4% / °C
EC to TDS Conversion Factor	0.45 to 1.00
Temperature Range	0.0 to 60.0°C / 32.0 to 140.0°F
Temperature Resolution	0.1°C / 0.1°F
Temperature Accuracy	±0.5°C / ±1°F
pH Electrode	Replaceable; included
Battery Type/Life	1.5V (4) / approx. 100 hours of continuous use, auto-off after 8 minutes of non-use
Environment	0 to 50°C (32 to 122°F); RH max 100%
Warranty	One year or more

5. Digital Thermometer

Temperature Range	-50.0 to 150.0 °C / -58.0 to 302 °F
Temperature Resolution	0.1 °C (-50.0 to 150.0 °C) 0.1 °F (-58.0 to 199.9 °F) / 1 °F (above 200 °F)
Temperature Accuracy	±0.2 °C (-30.0 to 120.0 °C) ±0.3 °C (outside: -50.0 to -30.0 °C and 120.0 to 150.0 °C) ±0.5 °F (-22.0 to 199.9 °F) ±1 °F (outside: -58.0 to -22.0 °F and 200 to 302 °F)
Automatic Shut-Off	8 min (default), 60 min or OFF
Battery Type/Life	1 x CR2032; approx. 2000 hours of continuous use
Environment	-30 to 50 °C (-22 to 122 °F)
Warranty	One year or more

6. Turbidity (ISO) Portable Meter

Turbidity Range	0.00 to 9.99; 10.0 to 99.9; 100 to 1000 NTU
Turbidity Resolution	0.01; 0.1; 1 FNU
Turbidity Accuracy	±2% of reading plus 0.1 FNU
Turbidity Repeatability	±1% of reading or 0.01 FNU, whichever is greater
Turbidity Stray Light	< 0.1 FNU
Turbidity Calibration	Two, three, or four-point calibration
Turbidity Measuring Method	Ratio nephelometric method (90° & 180°). Adaptation of ISO 7027
Turbidity Measuring Modes	Normal, average, continuous
Turbidity Light Source	860 nm infrared LED
Turbidity Light Detector	Silicon Photocell
Logging Memory	200 records
Connectivity	USB or RS232
Automatic Shut-Off	Auto-off after 15 minutes of non-use
Display	60 x 90 mm LCD with backlight
Battery Type/Life	4 (1.5V) AA batteries
Power Supply	4 (1.5V) AA batteries / AC adapter
Environment	0 to 50°C (32 to 122°F), RH max 95% non-condensing
Method	ISO 7027
Standard	AMCO-AEPA-1 primary turbidity standards (included)
Warranty	One year or more

7. Water Testing Backpack

pH Range	0.00 to 14.00 pH
pH Resolution	0.01 pH
pH Accuracy	±0.05 pH
pH Calibration	Automatic, one or two-point with two sets of standard buffers (pH 4.01 / 7.01 / 10.01 or 4.01 / 6.86 / 9.18)
EC Range	0 to 3999 µS/cm
EC Resolution	1 µS/cm
EC Accuracy	±2% F.S.
EC Calibration	Automatic, one point at 1413 µS/cm
TDS Range	0 to 2000 mg/L
TDS Resolution	1 mg/L
TDS Accuracy	±2% F.S.
TDS Calibration	Automatic, one point at 1382 mg/L (ppm)
Dissolved Oxygen Measurement Type	Titration
Dissolved Oxygen Range	0.0 to 10.0 mg/L O ₂
Dissolved Oxygen Resolution	0.1 mg/L
Dissolved Oxygen Measurement Method	Modified Winkler
Dissolved Oxygen Number of Test	110
Temperature Range	0.0 to 60.0°C / 32.0 to 140.0°F
Temperature Resolution	0.1°C / 0.1°F
Temperature Accuracy	±0.5°C / 1°F
Acidity Measurement Type	Titration
Acidity Range	0 to 100 mg/L CaCO ₃ ; 0 to 500 mg/L CaCO ₃
Acidity Resolution	1 mg/L ; 5 mg/L
Acidity Method	Methyl orange / phenolphthalein
Acidity Number of Tests	110
Alkalinity Measurement Type	Titration
Alkalinity Range	0 to 100 mg/L CaCO ₃ ; 0 to 300 mg/L CaCO ₃
Alkalinity Resolution	1 mg/L ; 3 mg/L
Alkalinity Method	Phenolphthalein / bromophenol blue
Alkalinity Number of Test	110
Ammonia Measurement Type	Titration
Ammonia Range	0.0 to 2.5 mg/L NH ₃ -N
Ammonia Resolution	0.5 mg/L
Ammonia Method	Colorimetric
Ammonia Number of Tests	110
Carbon Dioxide Measurement Type	Titration
Carbon Dioxide Range	0.0 to 10.0 mg/L CO ₂ ; 0.0 to 50.0 mg/L CO ₂ ; 0 to 100 mg/L CO ₂
Carbon Dioxide Resolution	0.1 mg/L ; 0.5 mg/L ; 1 mg/L
Carbon Dioxide Method	Phenolphthalein
Carbon Dioxide Number of Tests	110
Nitrate Measurement Type	Colorimetric
Nitrate Range	0 to 50 mg/L NO ₃ ⁻ -N
Nitrate Resolution	10 mg/L
Nitrate Method	Cadmium reduction

Nitrate Number of Tests	100
Nitrite Measurement Type	Colorimetric
Nitrite Range	0.0 to 1.0 mg/L NO ₂ ⁻ -N
Nitrite Resolution	0.2 mg/L
Nitrite Method	Chromotropic acid
Nitrite Number of Tests	100
Phosphate Measurement Type	Colorimetric
Phosphate Range	0 to 5 mg/L PO ₄ ³⁻
Phosphate Resolution	1 mg/L
Phosphate Method	Ascorbic acid
Phosphate Number of Test	50
Salinity Measurement Type	Titration
Salinity Range	0.0 to 40.0 g/kg
Salinity Resolution	0.4 g/kg
Salinity Method	Mercuric nitrate
Salinity Number of Tests	110

8. Soil pH and Moisture Meter

- Conical probe type sensor with stainless steel finish
- Analog type with instant reading (equivalent quality portable digital meter may also be considered based on specification and quality)
- Wide working temperature
- Durable finish
- Warranty three years or more

Sd/-
Registrar (Actg.)
Date: 25.09.2025

Memo No. WBUAFS/Admn/ET(25-26)/2460

Copy forwarded for information and wide circulation to:

1. The Principal Investigator, Mr. Sutanu Karmakar, Assistant Professor & Principal Investigator, PMMSY project on **“Establishment of Aquatic Referral Laboratory For Quality Testing And Disease Diagnosis”** Faculty of Fishery Sciences, 5 Budherhat Road, Panchasayar, Kolkata 700 094, WBUAFS, West Bengal.
2. Director of Research, Extension and Farms, 37 K.B Sarani, Belgachia, Kol-37, WBUAFS.
3. Nodal Officer-PMMSY, Fisheries Department, Govt. of West Bengal, Benfish Tower, 31 GN Block, Sector-V, Salt Lake, Kolkata 700 091
4. The Finance Officer, WBUAFS.
5. Vice-Chancellor’s Secretariat, WBUAFS.
6. The In-Charge, WBUAFS with request to upload the notification to the University website portal.
7. Notice Board, Office of the Registrar, WBUAFS.
8. Office Copy.



Registrar (Actg.)

ANNEXURE-I

Application Format

(To be furnished in the Company's Official Letter Head Pad with full Address with contact no. Telephone no. FAX No., e-mail Address, Website etc.)

Ref. No. -----

Dated.....

To

The Registrar,
West Bengal University of Animal & Fishery Sciences
68, K.B. Sarani
Kolkata-700037

Sub: NIT for Supply & Installation of equipments and other related items of WBUAFS, Kolkata

Sir,

With reference to your N.I.T..... dated

.....

1. I/We.....the Proprietor/Authorized Nominee/s of the Firm.....
Address.....are hereby furnishing my/our rates for the item tendered for as per your specification, terms & conditions.

2. I/We hereby agree to abide by & fulfill all the terms & conditions laid down in the online N.I.T. and the particulars available in the Tender Notice & the details given in the specification/ Description or in default thereof to forfeit & pay the Governor of the state of West Bengal, or his successor in office the penalties/sums/or of money that may be imposed by the Registrar, WBUAFS,, Kolkata the earnest money deposited herewith or from other money deposited by me/us or from the bills that will be payable to me/us for the supplies to be made.

3. I/We are offering rate for the item/items in the BOQ and assured supply as per requirements of The Registrar, WBUAFS, Kolkata.

4. I/We also agree that the decision of The Registrar, WBUAFS, Kolkata in all matters in respect of this tender will be final & binding on me.

5. I/We also agree to execute on being called upon to enter into a formal agreement embodying the terms & conditions contained herein &/or on usual terms & conditions & on default on my/our doing so, the Earnest Money deposited by me/us will liable to be forfeited.

I am/We are well acquainted with the facts about the firm and the information provided in the tender is true and correct.

Yours faithfully,

Date:

Signature & office seal:
Name of the Firm:
Contact no.
E-mail Id:
Address with PIN:

ANNEXURE-II
CHECK-LIST
Information about Bidders
(To be furnished online with the Technical bid)

Sl. No.	Particulars	Page No
1.	EMD	
2.	Tender Form	
3.	PAN	
4.	Valid Trade License	
5.	Labour License if applicable	
6.	Valid GST Registration Certificate	
7.	Constitution of Company/ Company details	
8.	Credential of work	
9.	Income Tax Return copy	
10.	Compliance Certificate (Mandatory) <u>(ANNEXURE-IV)</u>	
11.	<u>Annual turnover</u>	
12.	<u>ANNEXURE- I -III&V</u>	

N.B. The above details have been checked by me/us and found correct.

Date:
seal

Signature of the bidder with official

ANNEXURE- III

AFFIDAVIT

D E C L A R A T I O N

1. I/We _____ the Proprietor/Authorized nominee(s) of the Firm M/s. _____ hereby declare that our firm /Products have not been either blacklisted nor debarred to participate in tender by any Government /Authority for the Financial Year 2020- 2021,2021-2022, 2022-2023 and till date.
2. The undersigned is also declaring that our firm M/s is having 3 years manufacturing & marketing experience.
3. The undersigned understands and agrees that further qualifying information may be requested and agrees to furnish any such information at the request of the Registrar, WBUAFS, and Kolkata.
4. Certified that I have applied in the Tender in the capacity of individual/ as a partner of a firm and I have not applied severally for the same job.
5. I, the undersigned do certify that all the statements made in the attached documents are true and correct. If any declaration submitted is found/ ascertain to be incorrect/ fabricated/ misrepresented/fraudulent etc. accordingly tender will be liable to be cancelled/ terminated immediately & I/ my firm/ company shall also be liable to prosecuted under relevant Section of Indian Penal Code, 1860 along with Indian Information & Technology Act 2008 & any other applicable law for the time being in force in addition to forfeiture of Earnest Money/ Security Deposit.

Place:

Date:

Signature of the Bidder with Seal

NB: Declaration is to be uploaded in the form of Affidavit from Class-1 Magistrate / Notary

ANNEXURE-IV

Specification Compliance Sheet

(To be filled up & uploaded by the bidder)

Tender No.....

Tender ID.....

Item No.	Name of the Items	Specification as per NIT	Specification of the quoted item	Brand Name	Manufacturer Name	Remarks (Same / different)

Signature of the bidder with seal

ANNEXURE-V

ANNUAL TURNOVER CERTIFICATE (BIDDER)
 (Certificate from Chartered Accountant Firm in the official pad)

This is to certify that having been examined the audited Balance Sheet & P/L accounts and other records of M/s. _____

Having its office _____ for the past three years are given below and certified that the statement is correct as per the records

Sl. No.	Year (FY)	Turnover (Rs. in lakhs)	Rupees in words
1.			
2.			
3.			

Date:

Signature of the Chartered Firm with Registration No

Seal:

Signature of the authorised signatory (bidder)

Seal: