

GOVERNMENT OF ASSAM

STATE PROJECT MANAGEMENT UNIT, NEER NIRMAL PARIYOJANA-ASSAM

RWSSP-LIS, World Bank Project, 5th Floor, Redstone Building, G.S. Road, Dispur, Guwahati - 781022

Website: https://phennp.assam.gov.in Phone No. 0361 - 2334345 Email ID: assam_worldbank@rediffmail.com

NATIONAL COMPETITIVE BIDDING

(One-Envelope Bidding Process with e-Procurement)

FOR

Supply, Installation and Testing of Equipment, Chemicals and Glassware for Water Quality Monitoring and Surveillance Laboratory in the Six Project Districts under Neer Nirmal Pariyojana- Assam (Six Lots)

BID REFERENCE

IN-SPMU-ASSAM-75672-GO-RFB

DATE OF COMMENCEMENT OF

SALE OF BIDDING DOCUMENT:

27 December 2018

LAST DATE AND TIME FOR

SALE OF BIDDING DOCUMENT

8 February 2019 – 15.00 hours (IST)

LAST DATE AND TIME FOR

RECEIPT OF BIDS

8 February 2019 – 15.00 hours (IST)

TIME AND DATE OF OPENING

OF BIDS

11 February 2018 – 15.30 hours (IST)

OFFICER INVITING BIDS

Project Director

State Project Management Unit (SPMU)

Neer Nirmal Pariyojana- Assam (NNP-Assam)



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PART 1 – BIDDING PROCEDURES



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SECTION I. INSTRUCTIONS TO BIDDERS

A. General

- 1. Scope of Bid
- 1.1 The Purchaser indicated in the Bidding Data Sheet (BDS), issues these Bidding Documents for the supply of Goods and Related Services incidental thereto as specified in Section VII, Schedule of Requirements. The name, identification and number of lots (contracts) of this National Competitive Bidding (NCB) procurement are specified in the BDS.
- 1.2 Throughout these Bidding Documents:
- (a) the term "in writing" means communicated in written form (e.g. by mail, e-mail, fax, telex, including if **specified in the BDS**, distributed or received through the electronic-procurement system used by the Employer) with proof of receipt;
- (b) if the context so requires, "singular" means "plural" and vice versa; and
- (c) "day" means calendar day.
- 2. Source of Funds
- 2.1 The Government of India (hereinafter called "Borrower") specified in the BDS has applied for or received financing (hereinafter called "funds") from the International Bank for Reconstruction and Development or the International Development Association (hereinafter called "the Bank") in an amount specified in BDS toward the project named in the BDS. The Borrower intends to apply a portion of the funds to eligible payments under the contract for which these Bidding Documents are issued.
- 2.2 Payment by the Bank will be made only at the request of the Borrower and upon approval by the Bank in accordance with the terms and conditions of the Loan (or other financing) Agreement. The Loan (or other financing) Agreement prohibits a withdrawal from the loan or other financing) account for the purpose of any payment to persons or entities, or for any import of goods, if such payment or import, to the knowledge of the Bank, is prohibited by decision of the United Nations Security Council taken under Chapter VII of the Charter of the United Nations. No party other than the Borrower shall derive any rights from the Loan (or other financing) Agreement or have any claim to the funds.
- 3. Corrupt & Fraudulent Practices
- 3.1 The Bank requires compliance with its policy in regard to corrupt and fraudulent practices as set forth in Section VI.
- 3.2 In further pursuance of this policy, Bidders shall permit and shall cause its agents (whether declared or not), sub-contractors, sub-consultants, service providers or suppliers and to permit the Bank to

inspect all accounts, records and other documents relating to the submission of the application, bid submission (in case prequalified), and contract performance (in the case of award), and to have them audited by auditors appointed by the Bank.

- 4. Eligible Bidders 4.1 A Bidder may be a firm that is a private entity, or a government owned entity subject to ITB 4.5.
 - 4.2 A Bidder shall not have a conflict of interest. Any Bidder found to have a conflict of interest shall be disqualified. A Bidder may be considered to have a conflict of interest for the purpose of this bidding process, if the Bidder:
 - a. directly or indirectly controls, is controlled by or is under common control with another Bidder; or
 - b. receives or has received any direct or indirect subsidy from another Bidder; or
 - c. has the same legal representative as another Bidder; or
 - d. has a relationship with another Bidder, directly or through common third parties, that puts it in a position to influence the bid of another Bidder, or influence the decisions of the Purchaser regarding this bidding process; or
 - e. participates in more than one bid in this bidding process. Participation by a Bidder in more than one Bid will result in the disqualification of all Bids in which such Bidder is involved. However, this does not limit the inclusion of the same subcontractor in more than one bid; or
 - f. any of its affiliates participated as a consultant in the preparation of the design or technical specifications of the goods/equipment that are the subject of the bid; or
 - g. any of its affiliates has been hired (or is proposed to be hired) by the Purchaser or Borrower for the Contract implementation; or
 - h. would be providing goods, works, or non-consulting services resulting from or directly related to consulting services for the preparation or implementation of the project specified in the BDS ITB 2.1 that it provided or were provided by any of its affiliate that directly or indirectly controls, is controlled by, or is under common control with that firm; or
 - i. has a close business or family relationship with a professional staff of the Borrower (or of the project implementing agency, or of a recipient of a part of the loan) who: (i) are directly or indirectly involved in the preparation of the bidding documents or specifications of the contract, and/or the bid evaluation process of such contract; or (ii) would be involved in the implementation or supervision of such contract unless the conflict stemming from such relationship has been resolved in a manner acceptable to the Bank throughout the procurement process and execution of the contract.
 - 4.3 A Bidder may have the nationality of any country, subject to the restrictions pursuant to ITB 4.7. A Bidder shall be deemed to have the nationality of a country if the Bidder is constituted, incorporated



or registered in and operates in conformity with the provisions of the laws of that country, as evidenced by its articles of incorporation (or equivalent documents of constitution or association) and its registration documents, as the case may be. This criterion also shall apply to the determination of the nationality of proposed subcontractors or sub-consultants for any part of the Contract including related Services.

- 4.4 A Bidder that has been sanctioned by the Bank in accordance with the above ITB 3.1, including in accordance with the Bank's Guidelines on Preventing and Combating Corruption in Projects Financed by IBRD Loans and IDA Credits and Grants ("Anti-Corruption Guidelines"), shall be ineligible to be prequalified for, bid for, or be awarded a Bank-financed contract or benefit from a Bank-financed contract, financially or otherwise, during such period of time as the Bank shall have determined. The list of debarred firms and individuals is available at the electronic address specified in the BDS.
- 4.5 Bidders that are Government-owned enterprises or institutions in the Purchaser's Country may participate only if they can establish that they (i) are legally and financially autonomous (ii) operate under commercial law, and (iii) are not dependent agencies of the Purchaser. To be eligible, a government-owned enterprise or institution shall establish to the Bank's satisfaction, through all relevant documents, including its Charter and other information the Bank may request, that it: (i) is a legal entity separate from the government (ii) does not currently receive substantial subsidies or budget support; (iii) operates like any commercial enterprise, and. inter alia, is not obliged to pass on its surplus to the government, can acquire rights and liabilities, borrow funds and be liable for repayment of its debts, and can be declared bankrupt; and (iv) is not bidding for a contract to be awarded by the department or agency of the government which under their applicable laws or regulations is the reporting or supervisory authority of the enterprise or has the ability to exercise influence or control over the enterprise or institution.
- 4.6 A Bidder shall not be under suspension from bidding by the Purchaser as the result of the operation of a Bid–Securing Declaration.
- 4.7 Firms and individuals may be ineligible if so indicated in Section V and (a) as a matter of law or official regulations, the Borrower's country prohibits commercial relations with that country, provided that the Bank is satisfied that such exclusion does not preclude effective competition for the supply of goods or the contracting of works or services required; or (b) by an act of compliance with a decision of the United Nations Security Council taken under Chapter VII of the Charter of the United Nations, the Borrower's country prohibits any import of goods or contracting of works or services



- from that country, or any payments to any country, person, or entity in that country.
- 4.8 A bidder shall provide such evidence of eligibility satisfactory to the Purchaser, as the Purchaser shall reasonably request.
- 5. Eligible Goods and Related Services
- 5.1 All the Goods and Related Services to be supplied under the Contract and financed by the Bank may have their origin in any country in accordance with Section V, Eligible Countries.
- 5.2 For purposes of this Clause, the term "goods" includes commodities, raw material, machinery, equipment, and industrial plants; and "related services" includes services such as insurance, installation, training, and initial maintenance.
- 5.3 The term "origin" means the country where the goods have been mined, grown, cultivated, produced, manufactured or processed; or, through manufacture, processing, or assembly, another commercially recognized article results that differs substantially in its basic characteristics from its components.

B. Contents of Bidding Document

6. Sections of Bidding Documents

6.1 The Bidding Documents consist of Parts 1, 2, and 3, which include all the Sections indicated below, and should be read in conjunction with any Addendum issued in accordance with ITB Clause 8.

PART 1 Bidding Procedures

- Section I. Instructions to Bidders (ITB)
- Section II. Bidding Data Sheet (BDS)
- Section III. Evaluation and Qualification Criteria
- Section IV. Bidding Forms
- Section V. Eligible Countries
- Section VI Bank Policy-Corrupt and Fraudulent Practices

PART 2 Supply Requirements

Section VII. Schedule of Requirements

PART 3 Contract

- Section VIII. General Conditions of Contract (GCC)
- Section IX. Special Conditions of Contract (SCC)
- Section X. Contract Forms



- 6.2 The Invitation for Bids issued by the Purchaser is not part of the Bidding Document.
- 6.3 Unless obtained directly from the Purchaser, the Purchaser is not responsible for the completeness of the document, responses to requests for clarification, minutes of pre-bid meeting (if any), or Addenda to the Bidding Document in accordance with ITB 8. In case of any contradiction, documents obtained directly from the Purchaser shall prevail.
- 6.4 The Bidder is expected to examine all instructions, forms, terms, and specifications in the Bidding Documents and to furnish with its Bid all information or documentation as is required by the Bidding Documents.
- 7. Clarification of Bidding Documents
- 7.1 The electronic bidding system specified in the BDS provides for online clarifications. A prospective Bidder requiring any clarification on the Bidding Documents may notify the Purchaser online. Clarifications requested through any other mode shall not be considered by the Purchaser. The Purchaser will respond to any request for clarification, provided that such request is received no later than fifteen (15) days prior to the deadline for submission of Description of clarification sought and the response of the Purchaser shall be uploaded for information of all Bidders without identifying the source of request for clarification. Should the Purchaser deem it necessary to amend the Bidding Documents as a result of a clarification, it shall do so following the procedure under ITB Clause 8 and ITB Sub-Clause 22.2. It is the bidder's responsibility to check on the e-procurement system, for any addendum/ amendment/ corrigendum to the bidding document.
- 8. Amendment of Bidding Documents
- 8.1 At any time prior to the deadline for submission of bids, the Purchaser may amend the Bidding Documents by issuing addendum. The addendum will appear on the e-procurement system under "Latest Corrigendum" and email notification is also automatically sent to those bidders who have started working on the tender, or as otherwise specified in BDS.
- 8.2 Any addendum thus issued shall be part of the Bidding Documents and shall be deemed to have been communicated to all the bidders.
- 8.3 To give prospective Bidders reasonable time in which to take an addendum into account in preparing their bids, the Purchaser may, at its discretion, extend the deadline for the submission of bids, pursuant to ITB Sub-Clause 22.2

C. Preparation of Bids

9. Cost of Bidding 9.1 The Bidder shall bear all costs associated with the preparation and submission of its bid, and the Purchaser shall not be responsible



or liable for those costs, regardless of the conduct or outcome of the bidding process.

10. Language of Bid

10.1 The Bid, as well as all correspondence and documents relating to the bid exchanged by the Bidder and the Purchaser, shall be written in English language. Supporting documents and printed literature that are part of the Bid may be in another language provided they are accompanied by an accurate translation of the relevant passages into English language, in which case, for purposes of interpretation of the Bid, such translation shall govern.

11. Documents Comprising the Bid

11.1 The Bid shall comprise the following:

- (a) Letter of Bid, in accordance with ITB Clause 12;
- (b) Completed schedules, in accordance with ITB 12 and 14
- (c) Bid Security, in accordance with ITB Clause 19.1, if required;
- (d) Alternative bids, if permissible, in accordance with ITB 13;
- (e) written confirmation authorizing the signatory of the Bid to commit the Bidder, in accordance with ITB Clause 20.2;
- (f) documentary evidence in accordance with ITB Clause 17 establishing the Bidder's qualifications to perform the contract if its bid is accepted;
- (g) documentary evidence in accordance with ITB 17 establishing the Bidder's eligibility to bid;
- (h) documentary evidence in accordance with ITB Clause 16, that the Goods and Related Services to be supplied by the Bidder are of eligible origin;
- (i) documentary evidence in accordance with ITB Clauses 16 and 30, that the Goods and Related Services conform to the Bidding Documents:
- (j) Manufacturer's authorization form; and
- (k) any other document required in the BDS.
- 11.2 The Bidder shall furnish in the Letter of Bid, information on commissions and gratuities, if any, paid or to be paid to agents or any other party relating to this Bid.



12. Process of Bid Submission

- 12.1 The Letter of Bid and Price Schedules shall be prepared using the relevant forms furnished in Section IV, Bidding Forms. The forms must be completed without any alterations to the text, and no substitutes shall be accepted except as provided under ITB 20.2. All blank spaces shall be filled in with the information requested.
- 12.2 Entire Bid including the Letter of Bid and filled-up Price Schedules shall be submitted online on e-procurement system specified in ITB 7.1. Details and process of online submission of the tender and relevant documents are given in the website mentioned above. Scanned copies of documents listed in clauses 11 and 12.3 should also be uploaded on this website.
- 12.3 Submission of Original Documents: The bidders are required to separately submit (i) original demand drafts towards the cost of bid document and registration on e-procurement website (if not previously registered) (as per RFB); (ii) original bid security in approved form; and (iii) original affidavit regarding correctness of information furnished with bid document, with the office specified in the BDS, before the opening of the Bid, either by registered/speed post/courier or by hand, failing which the bids will be declared non-responsive and will not be opened. Hard copy of rest of the bid is not to be submitted.

13. Alternative Bids

13.1 Unless otherwise specified in the BDS, alternative bids shall not be considered.

14. Bid Prices and Discounts

- 14.1 The prices and discounts quoted by the Bidder in the Letter of Bid and in the Price Schedules shall conform to the requirements specified below.
- 14.2 All lots (contracts) and items must be listed and priced separately in the Price Schedules.
- 14.3 The price to be quoted in the Letter of Bid, in accordance with ITB 12.1, shall be the total price of the bid, excluding any discounts offered.
- 14.4 The Bidder shall quote any discounts and indicate the methodology for their application in the Letter of Bid in accordance with ITB 12.1.
- 14.5 Prices quoted by the Bidder shall be fixed during the Bidder's performance of the Contract and not subject to variation on any account, unless otherwise specified in the BDS. A bid submitted with an adjustable price quotation shall be treated as nonresponsive and shall be rejected, pursuant to ITB 29. However, if in accordance with the BDS, prices quoted by the Bidder shall be subject to adjustment during the performance of the Contract, a bid submitted with a fixed price quotation shall not be rejected, but the price adjustment shall be treated as zero.

- 14.6 If so specified in ITB 1.1, bids are being invited for individual lots (contracts) or for any combination of lots (packages). Unless otherwise specified in the BDS, prices quoted shall correspond to 100 % of the items specified for each lot and to 100% of the quantities specified for each item of a lot. Bidders wishing to offer discounts for the award of more than one Contract shall specify in their bid the price reductions applicable to each package, or alternatively, to individual Contracts within the package. Discounts shall be submitted in accordance with ITB 14.4 provided the bids for all lots (contracts) are submitted and opened at the same time.
- 14.7 The terms EXW and other similar terms shall be governed by the rules prescribed in the current edition of Incoterms, published by The International Chamber of Commerce, as specified in the BDS.
- 14.8 Prices shall be quoted as specified in the Price Schedule included in Section IV, Bidding Forms. In quoting prices, the Bidder shall be free to use transportation through carriers registered in any eligible country, in accordance with Section V Eligible Countries. Similarly, the Bidder may obtain insurance services from any eligible country in accordance with Section V Eligible Countries. Prices shall be entered in the following manner:

(a) For Goods:

- (i) the price of the Goods quoted EXW (ex-works, exfactory, ex-warehouse, ex-showroom, or off-theshelf, as applicable), including GST as applicable payable on the finished Goods;
- (ii) any other taxes if payable in India on the Goods, if the contract is awarded to the Bidder; and
- (iii) the price for inland transportation, insurance, and other local services required to convey the Goods to their final destination (Project Site) specified in the BDS.
- (b) for the Related Services, other than inland transportation and other services required to convey the Goods to their final destination, whenever such Related Services are specified in the Schedule of Requirements:
 - (i) the price of each item comprising the Related Services (inclusive of any applicable taxes).

14.9 Deemed Export Benefits

Bidders may like to ascertain availability of tax/duty exemption benefits, if any, available for contracts financed under World Bank Credits/ Loans. They are solely responsible for obtaining such



benefits, which they have considered in their bid and in case of failure to receive such benefits for reasons whatsoever, the Purchaser will not compensate the bidder.

Where the bidder has quoted taking into account such benefits, it must give all information required for issue of necessary Certificates in terms of the Government of India's relevant Notification along with its bid as per form stipulated in Section IV Bidding Forms.

If the Bidder has considered the Deemed Export Benefits in its bid, the Bidder shall confirm and certify that the Purchaser will not be required to undertake any responsibilities of the deemed export scheme or the benefits available during contract execution except issuing the required certificates. Bids which do not conform to this provision or any condition by the Bidder which makes the bid subject to availability of deemed export benefits or compensation on withdrawal of or any variations in the deemed export benefits scheme will make the bid non-responsive and hence liable to rejection.

- 15. Currencies of Bid& Payment
- 15.1 The Bidder shall quote the Price in Indian Rupees only.
- 16. Documents
 Establishing the
 Eligibility and
 conformity of
 the Goods and
 Related
 Services
- 16.1 To establish the eligibility of the Goods and Related Services in accordance with ITB Clause 5, Bidders shall complete the country of origin declarations in the Price Schedule Forms, included in Section IV, Bidding Forms.
- 16.2 To establish the conformity of the Goods and Related Services to the Bidding Documents, the Bidder shall furnish as part of its Bid the documentary evidence that the Goods conform to the technical specifications and standards specified in Section VII, Schedule of Requirements.
- 16.3 The documentary evidence may be in the form of literature, drawings or data, and shall consist of a detailed item by item description of the essential technical and performance characteristics of the Goods and Related Services, demonstrating substantial responsiveness of the Goods and Related Services to the technical specification, and if applicable, a statement of deviations and exceptions to the provisions of the Section VII Schedule of Requirements.
- 16.4 The Bidder shall also furnish a list giving full particulars, including available sources and current prices of spare parts, special tools, etc., necessary for the proper and continuing functioning of the Goods during the period specified in the BDS

- following commencement of the use of the goods by the Purchaser.
- 16.5 Standards for workmanship, process, material, and equipment, as well as references to brand names or catalogue numbers specified by the Purchaser in the Schedule of Requirements, are intended to be descriptive only and not restrictive. The Bidder may offer other standards of quality, brand names, and/or catalogue numbers, provided that it demonstrates, to the Purchaser's satisfaction, that the substitutions ensure substantial equivalence or are superior to those specified in the Section VII Schedule of Requirements.
- 17. Documents
 Establishing the
 Eligibility
 &Qualifications
 of the Bidder
- 17.1 To establish Bidder's eligibility in accordance with ITB 4, Bidders shall complete the Letter of Bid, included in Section IV, Bidding Forms.
- 17.2 The documentary evidence of the Bidder's qualifications to perform the contract if its bid is accepted shall establish to the Purchaser's satisfaction:
 - (a) that the Bidder meets each of the qualification criterion Criteria specified in Section III, Evaluation and Qualification;
 - (b) (i) that, if required in the BDS, a Bidder that does not manufacture or produce the Goods it offers to supply shall submit the Manufacturer's Authorization using the form included in Section IV, Bidding Forms to demonstrate that it has been duly authorized by the manufacturer or producer of the Goods to supply these Goods in the Purchaser's Country;
 - (ii) Supplies for any particular item in each schedule of the bid should be from one manufacturer only. Bids from agents offering supplies from different manufacturers for the same item of the schedule in the bid will be treated as nonresponsive.
 - (iii) that, if **required in the BDS**, the Bidder is or will be (if awarded the contract) represented by an Agent in the country equipped and able to carry out the Supplier's maintenance, repair and spare parts-stocking obligations prescribed in the Conditions of Contract and/or Technical Specifications;
 - (c) Bids from Joint Ventures are not acceptable.
- 18 Period of Validity of Bids
- 18.1 Bids shall remain valid for the period specified in the BDS after the bid submission deadline date prescribed by the Purchaser in accordance with ITB 22.1. A bid valid for a shorter period shall be rejected by the Purchaser as non-responsive.



- 18.2 In exceptional circumstances, prior to the expiration of the bid validity period, the Purchaser may request bidders to extend the period of validity of their bids. The request and the responses shall be made in writing. If a Bid Security is requested in accordance with ITB Clause 19, it shall also be extended for a corresponding period. A Bidder may refuse the request without forfeiting its Bid Security. A Bidder granting the request shall not be required or permitted to modify its bid, except as provided in ITB Sub-Clause 18.3.
- 18.3 If the award is delayed by a period exceeding fifty-six (56) days beyond the expiry of the initial bid validity, the Contract price shall be determined as follows:
 - (a) In the case of fixed price contracts, the Contract price shall be the bid price adjusted by the factor **specified in the BDS** for each week or part of the week that has elapsed from the expiration of the initial bid validity to the date of notification of award to the successful bidder.
 - (b) In the case of adjustable price contracts, no adjustment shall be made.
 - (c) In any case, bid evaluation shall be based on the bid Price without taking into consideration the applicable correction from those indicated above.

19 Bid Security

- 19.1 The Bidder shall furnish as part of its bid, a Bid Security, if required, as specified in the BDS.
- 19.2 Not used.
- 19.3 The Bid Security shall be in the amount **specified in the BDS** and denominated in Indian Rupees or a freely convertible currency, and shall:
 - (a) at the bidder's option, be in the form of either a certified check, demand draft, letter of credit, or a bank guarantee from a Nationalized /Scheduled Bank in India, or another security specified in the BDS;
 - (b) be substantially in accordance with one of the forms of Bid Security included in Section IV, Bidding Forms, or other form approved by the Purchaser prior to bid submission;
 - (c) be payable promptly upon written demand by the Purchaser in case the conditions listed in ITB Clause 19.7 are invoked;
 - (d) be submitted in its original form; copies will not be accepted;
 - (e) remain valid for a period of 45 days beyond the original validity period of the bids, or beyond any period of

extension of bid validity, if so requested under ITB Clause 18.2.

- 19.4 If a Bid Security is required in accordance with ITB Sub-Clause 19.1, any bid not accompanied by a substantially responsive Bid Security shall be rejected by the Purchaser as non-responsive.
- 19.5 The Bid Security of unsuccessful Bidders shall be returned as promptly as possible upon the successful Bidder's signing the contract and furnishing the Performance Security pursuant to ITB Clause 42.
- 19.6 The Bid Security of the successful Bidder shall be returned as promptly as possible once the successful Bidder has signed the contract and furnished the required performance security.
- 19.7 The Bid Security may be forfeited:
 - (a) if a Bidder
 - (i) withdraws its bid during the period of bid validity specified by the Bidder in the Letter of Bid, except as provided in ITB Sub-Clause 18.2; or
 - (ii) does not accept the correction of errors in pursuant to ITB 31,

or

- (b) if the successful Bidder fails to:
 - (i) sign the Contract in accordance with ITB Clause 41;
 - (ii) furnish a Performance Security in accordance with ITB Clause 42.
- 19.8 Not used.
- 19.9 If a bid security is not required in the BDS, and
 - (a) if a Bidder withdraws its bid during the period of bid validity specified by the Bidder on the Letter of Bid Form, except as provided in ITB 18.2, or does not accept the correction of errors pursuant to ITB 31; or
 - (b) if the successful Bidder fails to sign the Contract in accordance with ITB 41; or furnish a performance security in accordance with ITB 42;



the Borrower may, if provided for in the BDS, declare the Bidder ineligible to be awarded a contract by the Purchaser for a period of time as stated in the BDS.

20 Format and Signing of Bid

- 20.1 The Bidder shall prepare the Bid as per details given in ITB 21.
- 20.2 The bid shall be signed by a person duly authorized to sign on behalf of the Bidder. The authorization shall consist of a written confirmation as specified in the BDS and shall be uploaded along with the bid.
- 20.3 Not used,
- 20.4 Corrections if any in the bid can be carried out by editing the information before electronic submission on e-procurement portal.

D. Online Submission and Opening of Bids

21 Preparation of Bids

- 21.1 Bids shall be submitted online on the e-procurement system specified in BDS 7.1. Detailed guidelines for viewing bids and submission of online bids are given on the website. The Invitation for Bids under this Project is published on this website. Any citizen or prospective bidder can logon to this website and view the Invitation for Bids and can view the details of goods for which bids are invited. A prospective bidder can submit its bid online: however, the bidder is required to have enrolment/registration in the website, and should have valid Digital Signature Certificate (DSC) in the form of smart card/e-token obtained from any authorised certifying agency of Government of India (for class of DSC specified in BDS). The bidder should register in the website using the relevant option available. Then the Digital Signature registration has to be done with the e-token, after logging into the website. The bidder can then login the website through the secured login by entering the password of the e-token & the user id/ password chosen during registration. After getting the bid schedules, the Bidder should go through them carefully and submit the specified documents, along with the bid, otherwise the bid will be rejected.
- 21.2 The completed bid comprising of documents indicated in ITB 12, should be uploaded on the e-procurement portal along with scanned copies of requisite certificates as are mentioned in different sections in the bidding document and scanned copy of the bid security.
- 21.3 All the documents are required to be signed digitally by the bidder. After electronic on line bid submission, the system generates a unique bid identification number which is time stamped as per server time. This shall be treated as acknowledgement of bid submission.



- 21.4 Physical, Email, Telex, Cable or Facsimile bids will be rejected as non-responsive.
- 22 Deadline for Submission of Bids
- 22.1 Bids must be uploaded online no later than the date and time specified in the BDS. 22.2 The Purchaser may, at its discretion, extend the deadline for the submission of bids by amending the Bidding Documents in accordance with ITB Clause 8, in which case all rights and obligations of the Purchaser and Bidders previously subject to the deadline shall thereafter be subject to the deadline as extended.
- 23 Late Bids
- 23.1 The electronic bidding system would not allow any late submission of bids after due date & time as per server time.
- 24 Withdrawal, Substitution, and Modification of Bids
- 24.1 Bidders may modify their bids by using appropriate option for bid modification on the e-procurement portal, before the deadline for submission of bids. For this the bidder need not make any additional payment towards the cost of bid document. For bid modification and consequential re-submission, the bidder is not required to withdraw his bid submitted earlier. The last modified bid submitted by the bidder within the bid submission time shall be considered as the bid. For this purpose, modification/withdrawal by other means will not be accepted. In online system of bid submission, the modification and consequential re-submission of bids is allowed any number of times. A bidder may withdraw his bid by using appropriate option for bid withdrawal, before the deadline for submission of bids, however, if the bid is withdrawn, re-submission of the bid is not allowed (or allowed if specified in BDS).
- 24.2 Bids requested to be withdrawn in accordance with ITB Sub-Clause 24.1 shall not be opened.
- 24.3 No bid may be withdrawn, substituted, or modified in the interval between the deadline for submission of bids and the expiration of the period of bid validity specified by the Bidder on the Letter of Bid or any extension thereof.
- 25 Bid Opening
- 25.1. The Purchaser shall publicly open all bids received by the deadline, at the date, time and place **specified in the BDS**, in the presence of Bidder's designated representatives and anyone who chooses to attend, and this could also be viewed by the bidders online. In all cases, original documents submitted as specified in ITB 12.3 shall be first scrutinized, and Bids that do not comply with the provisions of ITB 12.3 will be declared non-responsive and will not be opened. The bidder's names, the Bid prices, the total amount of each bid, including any discounts and Alternative Bid, and such other details as the Purchaser may consider appropriate will be notified online by the Purchaser at the time of bid opening.



- In the event of the specified date of bid opening being declared a holiday for the Purchaser, the bids will be opened at the appointed time and location on the next working day.
- 25.2 The electronic summary of the bid opening will be generated and uploaded online. The Purchaser will also prepare minutes of the Bid opening, including the information disclosed and upload the same for viewing online. Only Bids, alternative bids if permitted in ITB 13, and discounts that are opened at Bid opening shall be considered further for evaluation.

E. Evaluation and Comparison of Bids

26 Confidentiality

- 26.1 Information relating to the examination, evaluation, comparison, and post-qualification of bids, and recommendation of contract award, shall not be disclosed to bidders or any other persons not officially concerned with such process until information on Contract Award is communicated to all Bidders in accordance with ITB 40.
- 26.2 Any effort by a Bidder to influence the Purchaser in the examination, evaluation, comparison, and post-qualification of the bids or contract award decisions may result in the rejection of its Bid.
- 26.3 Notwithstanding ITB Sub-Clause 26.2, from the time of bid opening to the time of Contract Award, if any Bidder wishes to contact the Purchaser on any matter related to the bidding process, it should do so in writing.

27 Clarification of 27.1 Bids

- 27.1 To assist in the examination, evaluation, comparison of the bids and post-qualification of the Bidders, the Purchaser may, at its discretion, ask any Bidder for a clarification of its Bid. Any clarification submitted by a Bidder in respect to its Bid, that is not in response to a request by the Purchaser shall not be considered. The Purchaser's request for clarification and the response shall be in writing. No change, including any voluntary increase or decrease, in the prices or substance of the Bid shall be sought, offered, or permitted, except to confirm the correction of arithmetic errors discovered by the Purchaser in the Evaluation of the bids, in accordance with ITB Clause 31.
- 27.2 If a Bidder does not provide clarifications of its bid by the date and time set in the Purchaser's request for clarification, its bid may be rejected.

28 Deviations, Reservations, Omissions

- 28.1 During the evaluation of bids, the following definitions apply:
 - (a) "Deviation" is a departure from the requirements specified in the Bidding Documents;

- (b) "Reservation" is the setting of limiting conditions or withholding from complete acceptance of the requirements specified in the Bidding Documents; and
- (c) "Omission" is the failure to submit part or all of the information or documentation required in the Bidding Documents.

29 Determination of Responsiveness

- 29.1 The Purchaser's determination of a bid's responsiveness is to be based on the contents of the bid itself as defined in ITB 11.
- 29.2 A substantially responsive Bid is one that meets the requirements of the Bidding Documents without material deviation, reservation, or omission. A material deviation, reservation, or omission is one that:
 - (a) If accepted, would
 - (i) affect in any substantial way the scope, quality, or performance of the Goods and Related Services specified in the Contract; or
 - (ii) limit in any substantial way, inconsistent with the Bidding Documents, the Purchaser's rights or the Bidder's obligations under the Contract; or
 - (b) if rectified would unfairly affect the competitive position of other bidders presenting substantially responsive bids.
- 29.2.1 Bids from Agents, without proper authorization from the manufacturer as per Section IV, shall be treated as non-responsive.
- 29.3.1 The Purchaser shall examine the bids to confirm that all documents and technical documentation requested in ITB Clause 11 have been provided, and to determine the completeness of each document submitted.
- 29.3.2 The Purchaser shall examine the bid to confirm that the Bidder has accepted all terms and conditions specified in GCC and the SCC without material deviations or reservations. Deviations from or objections or reservations to critical provisions such as those concerning Performance Security (GCC Clause 18). Warranty (GCC Clause 28), Force Majeure (Clause 32), Limitation of liability (GCC Clause 30), Governing law (GCC Clause 9) and Taxes & Duties (GCC Clause 17) will be deemed to be a material deviation. The Purchaser's determination of a bid's responsiveness is to be based on the contents of the bid itself without recourse to extrinsic evidence.
- 29.4 If a bid is not substantially responsive to the Bidding Documents, it shall be rejected by the Purchaser and may not subsequently be

made responsive by the Bidder by correction of the material deviation, reservation, or omission.

30 Nonconformities, Errors, and Omissions

- 30.1 Provided that a Bid is substantially responsive, the Purchaser may waive any non-conformities or omissions in the Bid that do not constitute a material deviation.
- 30.2 Provided that a bid is substantially responsive, the Purchaser may request that the Bidder submit the necessary information or documentation, within a reasonable period of time, to rectify nonmaterial nonconformities or omissions in the bid related to documentation requirements. Such omission shall not be related to any aspect of the price or substance of the Bid. Failure of the Bidder to comply with the request may result in the rejection of its Bid.
- 30.3 Provided that a bid is substantially responsive, the Purchaser shall rectify quantifiable nonmaterial nonconformities related to the Bid Price. To this effect, the Bid Price shall be adjusted, for comparison purposes only, to reflect the price of a missing or non-conforming item or component.

31 Correction of Arithmetical Errors

- 31.1 The e-procurement system automatically calculates the total amount from unit rates and quantities and the system also automatically populates the amount in words from the amount in figures and therefore there is no scope of discrepancy and need for arithmetic correction.
- 32 Conversion to Single Currency

Not applicable.

33 Margin of Domestic Preference

Not applicable.

34 Evaluation of Bids

34.1 The Purchaser shall evaluate each bid that has been determined, up to this stage of the evaluation, to be substantially responsive.

To evaluate a Bid, the Purchaser shall only use all the factors, methodologies and criteria listed in this Clause. No other criteria or methodology shall be permitted.

- 34.2 To evaluate a Bid, the Purchaser shall consider the following:
- (a) evaluation will be done for Items or Lots (contracts), as **specified** in the BDS; and the Bid Price as quoted in accordance with clause 14;
- (b) not used;
- (c) price adjustment due to discounts offered in accordance with ITB Sub-Clause 14.4;

- (d) not used;
- (e) price adjustment due to quantifiable nonmaterial nonconformities in accordance with ITB 30.3;
- (f) The additional evaluation factors as specified in the BDS as per ITB 34.6 from amongst those set out in Section III, Evaluation and Qualification Criteria;
- 34.3 The estimated effect of the price adjustment provisions of the conditions of contract, applied over the period of execution of the contract, shall not be taken into account in bid evaluation.
- 34.4 If these Bidding Documents allow Bidders to quote separate prices for different lots (contracts), the methodology to determine the lowest evaluated price of the lot (contract) combinations, including any discounts offered in the Letter of Bid Form, is specified in Section III, Evaluation and Qualification Criteria.
- 34.5 The Purchaser's evaluation of a bid shall include (i) price quoted EXW including GST as applicable on the finished goods; (ii) other taxes, if any, payable on finished goods; (iii) price for inland transportation, insurance, and other local services required to convey the Goods to their Final Destination; and (iv) price for Related Services, if any.
- 34.6 The Purchaser's evaluation of a bid may require the consideration of other factors, in addition to the Bid Price quoted in accordance with ITB Clause 14. These factors may be related to the characteristics, performance, and terms and conditions of purchase of the Goods and Related Services. The effect of the factors selected, if any, shall be expressed in monetary terms to facilitate comparison of bids, unless otherwise specified in Section III, Evaluation and Qualification Criteria. The factors, methodologies and criteria to be used shall be as specified in ITB 34.2 (f).
- 35 Comparison of Bids
- 35.1 The Purchaser shall compare all substantially responsive bids to determine the lowest-evaluated bid, in accordance with ITB Clause 34.
- 36 Qualification of the Bidder
- 36.1 The Purchaser shall determine to its satisfaction whether the Bidder that is selected as having submitted the lowest evaluated and substantially responsive bid meets the qualifying criteria specified in Section III evaluation and Qualification Criteria.
- 36.2 The determination shall be based upon an examination of the documentary evidence of the Bidder's qualifications submitted by the Bidder, pursuant to ITB Clause 17.
- 36.3 An affirmative determination shall be a prerequisite for award of the Contract to the Bidder. A negative determination shall result in disqualification of the bid, in which event the Purchaser shall

proceed to the next lowest evaluated bid to make a similar determination of that Bidder's qualifications to perform satisfactorily.

- 37 Purchaser's
 Right to Accept
 Any Bid, and to
 Reject Any or
 All Bids
- 37.1 The Purchaser reserves the right to accept or reject any bid, and to annul the bidding process and reject all bids at any time prior to contract award, without thereby incurring any liability to Bidders. In case of annulment, all documents submitted and specifically, bid securities, shall be promptly returned to the Bidders.

F. Award of Contract

- 38 Award Criteria
- 38.1 Subject to ITB 37.1, the Purchaser shall award the Contract to the Bidder whose bid has been determined to be the lowest evaluated bid and is substantially responsive to the Bidding Documents, provided further that the Bidder is determined to be qualified to perform the Contract satisfactorily.
- 39 Purchaser's
 Right to Vary
 Quantities at
 Time of Award
- 39.1 At the time the Contract is awarded, the Purchaser reserves the right to increase or decrease the quantity of Goods and Related Services originally specified in Section VII, Schedule of Requirements, provided this does not exceed the percentages specified in the BDS, and without any change in the unit prices or other terms and conditions of the bid and the Bidding Documents.
- 40 Notification of Award
- 40.1 Prior to the expiration of the period of bid validity, the Purchaser shall notify the successful Bidder, in writing, that its Bid has been accepted. The notification letter (hereinafter called "Letter of Acceptance") shall specify the sum that the purchaser will pay in consideration of the supply of Goods (hereinafter called "the Contract Price").

Publication of Award

40.2 At the same time the Purchaser shall publish in a National website (GOI web site-https://tenders.gov.in or GoI Central Public Procurement Portal https://eprocure.gov.in/cppp/) or on the Purchaser's website with free access if available, or in the official gazette, the results identifying the bid and lot numbers and the following information: (i) name of each Bidder who submitted a Bid; (ii) bid prices as read out at bid opening; (iii) name and evaluated prices of each Bid that was evaluated; (iv) name of bidders whose bids were rejected and the reasons for their rejection; and (v) name of the successful Bidder, and the price it offered, as well as the duration and summary scope of the contract awarded.

Recourse to Unsuccessful Bidders

- 40.3 The Purchaser shall promptly respond in writing to any unsuccessful Bidder who, after Publication of contract award, requests in writing the grounds on which its bid was not selected.
- 40.4 Until a formal Contract is prepared and executed, the notification of award shall constitute a binding Contract.

- 40.5 Upon the successful Bidder's furnishing of the performance security and signing the Contract Form pursuant to ITB Clause 42, the Purchaser will promptly notify each unsuccessful Bidder and will discharge its bid security, pursuant to ITB Clause 19.5
- 41 Signing of Contract
- 41.1 Promptly after notification, the Purchaser shall send the successful Bidder the Contract Agreement.
- 41.2 Within twenty-one (21) days of receipt of the Contract Agreement, the successful Bidder shall sign, date, and return it to the Purchaser.
- 42 Performance Security
- 42.1 Within twenty-one (21) days of the receipt of notification of award from the Purchaser, the successful Bidder, if required, shall furnish the Performance Security in accordance with the GCC, using for that purpose the Performance Security Form included in Section X Contract forms, or another Form acceptable to the Purchaser. Failure of the successful Bidder to submit the abovementioned Performance Security or sign the Contract shall constitute sufficient grounds for the annulment of the award and forfeiture of the Bid Security. In that event the Purchaser may award the Contract to the next lowest evaluated Bidder, whose bid is substantially responsive and is determined by the Purchaser to be qualified to perform the Contract satisfactorily.



SECTION II - BIDDING DATA SHEET

The following specific data for the goods to be procured shall complement, supplement, or amend the provisions in the Instructions to Bidders (ITB). Whenever there is a conflict, the provisions herein shall prevail over those in ITB.

ITB Clause Reference	A. General	
ITB 1.1	The Purchaser is:	
	State Project Management Unit (SPMU)	
	Neer Nirmal Pariyojana-Assam (NNP-Assam)	
	Represented by:	
	Project Director, SPMU, NNP-Assam	
ITB 1.1	The name of the NCB is:	
	Supply, Installation and Testing of Equipment, Chemicals and Glassware for Water Quality Monitoring and Surveillance Laboratory in the Six Project Districts under Neer Nirmal Pariyojana- Assam (Six Lots)	
	The identification number of the NCB is:	
	IN-SPMU-ASSAM-75672-GO-RFB.	
	The number and identification of lots (contracts) comprising this NCB is: Six Lots.	
	Lot 1: Project District-Jorhat	
	Lot 2: Project District-Morigaon	
	Lot 3: Project District-Bongaigaon	
	Lot 4: Project District-Hailakandi	
	Lot 5: Project District-Sivasagar	
	Lot 6: Project District-Kamrup	
ITB 1.2(a)	The Purchaser shall use the electronic-procurement system specified in BDS 7.1 to manage this Bidding process.	
ITB 2.1	The Borrower is Government of India	
	Loan or Financing Agreement Amount: US\$500.00 million equivalent	
ITB 2.1	The name of the Project is: Neer Nirmal Pariyojana-Assam (Rural Water Supply and Sanitation Project for Low Income States-Assam)	



A list of firms debarred from participating in World Bank projects is available at http://www.worldbank.org/debarr			
B. Conten	ts of Bidding Documents		
Electronic – Procurement System			
The Purchaser shall us this Bidding process:	se the following electronic-procurement system to manage		
Tenders Assam -Assam Government eProcurement System			
https://assamtenders.gov.in			
No Change			
C. Preparation of Bids			
The Bidder shall submit the following additional documents in its bid: Not Applicable			
Note for Bidders: Bidders have to submit the bids on the e-procurement portal along with the relevant required documents. For this purpose, the bidders shall fill up online, the forms that are available for online filling on the e-portal. The rest of the forms shall be download by the bidders and filled up. The filled-up pages shall then be scanned and uploaded on the e-procurement portal along with the scanned copies of the supporting documents.			
For submission of original documents, the Purchaser's address is:			
Attention:	Project Director, SPMU, NNP-Assam		
Address:	Redstone Building, G.S Road, Dispur		
Floor number:	5th Floor		
City:	Guwahati		
PIN Code:	781022		
Country:	India		
Alternative Bids shall not be considered.			
The prices quoted by the Bidder shall not be subject to adjustment during the performance of the Contract.			
The Incoterms edition is INCOTERMS 2010 published by the International Chamber of Commerce.			
"Final destination (Project Site)": Water Quality Monitoring and Surveillance Laboratories of District Project Management Units (DPMU) of Bongaigaon, Hailakandi, Jorhat, Kamrup, and Sivasagar as detailed in Part 2 – Supply Requirements)			
	B. Content Chapera Procure The Purchaser shall use this Bidding process: Tenders Assam - Assam - Assam - Assam - Assam - Assam tenders No Change Note for Bidders: Bid along with the relevant fill up online, the form rest of the forms shall pages shall then be so with the scanned copic for submission of original tenders. For submission of original tenders: Floor number: City: PIN Code: Country: Alternative Bids shall The prices quoted by the performance of the Content of Comme "Final destination (Processes) The Incoterms edition (Processes)		

Section II. Biddin	ig Data Sheet			
ITB 16.4	Period of time the Goods are expected to be functioning (for the purpose of spare parts): 10 years			
ITB 17.2 (b) (i)	Manufacturer's authorization is: Not Required.			
ITB 17.2 (b)iii	After Sales service is Required which shall be provided by the Supplier/Manufacturer's Authorized Service Centre or alternatively by its Agent in case of a foreign bidder.			
ITB 18.1	The bid validity period shall be 120 days from the deadline for bid submission.			
ITB 18.3(a)	The factor will be: Not Applicable			
ITB 19.1	A Bid Security shall be required.			
ITB 19.3	The amount of the Bid Security shall be:			
	Lot 1: Project District-Jorhat: INR36,000.00			
	Lot 2: Project District-Morigaon: INR40,000.00			
	Lot 3: Project District-Bongaigaon: INR39,000.00			
	Lot 4: Project District-Hailakandi: INR39,000.00			
	Lot 5: Project District-Sivasagar: INR39,000.00			
	Lot 6: Project District-Kamrup: INR34,000.00			
ITB 19.3 (a)	Bid security in the form of a demand draft, cashier's or certified cheque is not acceptable.			
	Other types of acceptable securities are:			
	Fixed Deposit/Time Deposit certificate issued by a Nationalized or Scheduled Bank located in India for equivalent or higher values are acceptable provided it is pledged in favour of SWSM (SPMU Acount) (Purchaser) and such pledging has been noted and suitably endorsed by the bank issuing the certificate.			
ITB 19.9	Not Applicable			
ITB 20.2	The written confirmation of authorization to sign on behalf of the Bidder shall consist of:			
	A board resolution or its equivalent, or power of attorney specifying the representative's authority to sign the Bid on behalf of, and to legally bind, the Bidder.			
	D. Online Submission and Opening of Bids			
ITB 21.1	Class of DSC required is: Class 2			
ITB 22.1	The deadline for uploading of bids is:			
	The deadline for uploading of bids is: Date: 8 February 2019			
	(S(

20	Time: 15.00 hours ((IST)	
ITB 24.1	Re-submission of the bid is allowed, if withdrawn.		
ITB 25.1	The online bid opening shall take place at:		
	Address:	Redstone Building, G.S Road, Dispur	
	Floor number:	5th Floor	
	City:	Guwahati	
	ZIP Code:	781022	
	Country:	India	
	Date:	11 February 2019	
	Time:	15.30 hours (IST)	
	E. Evaluation and Comparison of Bids		
ITB 34.2(a)	Evaluation will be done as below:		
	ices shall be assumed to be included in the prices of other t listed in the Price Schedule shall be assumed to be not and provided that the bid is substantially responsive, the eitem quoted by substantially responsive bidders will be ice and the equivalent total cost of the bid so determined ce comparison.		
ITB 34.4	Bidders shall be allowed to quote separate prices for one or more lots.		
ITB 34.6	The adjustments shall be determined using the following criteria, from those set out in Section III, Evaluation and Qualification Criteria:		
	(a) Deviation in I	Delivery schedule: No	
	(b) Deviation in p	payment schedule: No	
	(c) the cost of ma service: No	jor replacement components, mandatory spare parts, and	
	1 ` ′	y in the Purchaser's Country of spare parts and after-sales e equipment offered in the bid: Not Applicable	
	(e) the projected equipment: No	operating and maintenance costs during the life of the ot Applicable	
	(f) the performan Applicable	ce and productivity of the equipment offered: Not	
	F. Award of Contract		
ITB 39.1	The maximum percentage by which quantities may be increased is: 15%		
	The maximum perce	entage by which quantities may be decreased is: 15%	
		/4/	

SECTION III. EVALUATION AND QUALIFICATION CRITERIA

This Section complements the Instructions to Bidders. It contains the criteria that the Purchaser shall use to evaluate a bid and determine whether a Bidder qualifies in accordance with ITB 34 & 36. No other criteria shall be used.

Contents

- 1. Evaluation Criteria (ITB 34)
- 2. Multiple Contracts (ITB 34.4)
- 3. Qualification Requirements (ITB 36)



1. Evaluation Criteria (ITB 34.6)

The Purchaser's evaluation of a bid may take into account, in addition to the Bid Price quoted in accordance with ITB Clause 14.8, one or more of the following factors as specified in ITB Sub-Clause 34.2 (f) and in BDS referring to ITB 34.6, using the following criteria and methodologies.

(a) Delivery schedule. (as per Incoterms specified in the BDS)

The Goods specified in the List of Goods are required to be delivered within the acceptable time range (after the earliest and before the final date, both dates inclusive) specified in Section VII, Schedule of requirements. No credit will be given to deliveries before the earliest date, and bids offering delivery after the final date shall be treated as non-responsive.

(b) Deviation in payment schedule. [insert one of the following]

The SCC stipulates the payment schedule specified by the Purchaser. If a bid deviates from the schedule, the bid shall be treated as nonresponsive.

(c) Cost of major replacement components, mandatory spare parts, and service. [insert one of the following]

The bidder will submit the list of items and quantities of major assemblies, components, and selected spare parts, likely to be required during the initial period of operation specified in the BDS16.4.

(d) Availability in the Purchaser's Country of spare parts and after sales services for equipment offered in the bid.

If the minimum service facilities and parts inventories are not available in the Purchaser's Country, the bid shall be treated as nonresponsive. The bidder shall certify in this regard.

(e) Projected operating and maintenance costs.

Not Applicable.

(f) Performance and productivity of the equipment. [Insert one of the following]

Not applicable.

2. Multiple Contracts (ITB 34.4)

The Purchaser shall award multiple contracts to the Bidder that offers the lowest evaluated combination of bids (one contract per bid) and meets the post-qualification criteria (this Section III, Sub-Section ITB 36.1 Post-Qualification Requirements)

The Purchaser shall:

(a) evaluate only lots or contracts that include at least the percentages of items per lot and quantity per item as specified in ITB Sub Clause 14.6

(b) take into account:

- (i) the lowest-evaluated bid for each lot and
- (ii) the price reduction per lot and the methodology for its application as offered by the Bidder in its bid.

3. Post-qualification Requirements (ITB 36.1)

After determining the lowest-evaluated bid in accordance with ITB Sub-Clause 35.1, the Purchaser shall carry out the post-qualification of the Bidder in accordance with ITB Clause 36, using only the requirements specified. Requirements not included in the text below shall not be used in the evaluation of the Bidder's qualifications.

(i) Financial Capability

The Bidder shall furnish documentary evidence that it meets the following financial requirement(s):

- (a) Submission of audited financial statements or, if not required by the law of the Bidder's country, other financial statements acceptable to the Purchaser, for the last 3 years to demonstrate the current soundness of the Bidder's financial position. As a minimum, the Bidder's net worth for the last year calculated as the difference between total assets and total liabilities should be positive.
- (b) Minimum average annual turnover of over the last 3 years, calculated as total payments received by the Bidder for contracts completed or under execution for the lots as follows:

Lot 1: Project District-Jorhat:

Lot 2: Project District-Morigaon:

Lot 3: Project District-Bongaigaon:

Lot 4: Project District-Hailakandi:

Lot 5: Project District-Sivasagar:

Lot 6: Project District-Kamrup:

INR2.67 million

INR2.96 million

INR2.92 million

INR2.89 million

INR2.49 million

(c) Availability of or access to liquid assets, lines of credit and other finances sufficient to meet cash flow requirement for the lots as follows:

Lot 1: Project District-Jorhat:

Lot 2: Project District-Morigaon:

Lot 3: Project District-Bongaigaon:

Lot 4: Project District-Hailakandi:

Lot 5: Project District-Sivasagar:

Lot 6: Project District-Kamrup:

INR1.80 million

INR2.00 million

INR2.00 million

INR2.00 million

INR2.00 million

INR2.00 million

(ii) Experience and Technical Capacity

The Bidder shall furnish documentary evidence to demonstrate that it has successfully completed at least one contract of similar goods of 0.5 million or more in the past 5 years.

(iii) Documentary Evidence



The Bidder shall furnish documentary evidence to demonstrate that the Goods it offers meet the requirements for use in water quality testing laboratory.



SECTION IV – BIDDING FORMS



1. LETTER OF BID

The Bidder must prepare the Letter of Bid on stationery with its letterhead clearly showing the Bidder's complete name and address.

Note: All italicized text is for use in preparing these forms and shall be deleted from the final products.

No alterations to the text except as provided in ITB 20.2, shall be permitted and no substitutions shall be accepted except as provided in ITB 12.]

Date: [insert date (as day, month and year) of Bid Submission]

NCB No.: IN-SPMU-ASSAM-75672-GO-RFB

Invitation for Bid No.: SPMU/PROC/Lab. Equip./198/2016-17/5963 Dated 26 December 2018

To: Project Director

State Project Management Unit, Neer Nirmal Pariyojana-Assam Redstone Building, G. S. Road, 5th Floor Guwahati, Pin: 781022, Assam, India

We, the undersigned, declare that:

- (a) We have examined and have no reservations to the Bidding Documents, including Addenda No. issued in accordance with ITB 8: [insert the number and issuing date of each Addenda];
- (b) We meet the eligibility requirements and have no conflict of interest in accordance with ITB 4;
- (c) We have not been suspended nor declared ineligible by the Purchaser based on execution of a Bid Securing Declaration in the Purchaser's country in accordance with ITB 4.6;
- (d) We offer to supply in conformity with the Bidding Documents and in accordance with the Delivery Schedules specified in the Schedule of Requirements the following Goods and Related Services

Supply, Installation and Testing of Equipment, Chemicals and Glassware for Water Quality Monitoring and Surveillance Laboratory in the Six Project Districts under Neer Nirmal Pariyojana- Assam (Six Lots)

Lot 1: Project District-Jorhat

Lot 2: Project District-Morigaon

Lot 3: Project District-Bongaigaon

Lot 4: Project District-Hailakandi

Lot 5: Project District-Sivasagar

Lot 6: Project District-Kamrup

[Please tick the lot for which Bid is to be submitted] [insert a brief description of the Goods and Related Services];

(e) The total price of our Bid, excluding any discounts offered in item (f) below, is

Total price of each lot [insert the total price of each lot in words and figures];

Total price of all lots (sum of all lots) [insert the total price of all lots in words and figures];

- (f) The discounts offered and the methodology for their application are:
 - (i) The discounts offered are: [Specify in detail each discount offered.]
 - (ii) The exact method of calculations to determine the net price after application of discounts is shown below: [Specify in detail the method that shall be used to apply the discounts]; Discounts.
- (g) Our bid shall be valid for the period of time specified in ITB Sub-Clause 18.1, from the date fixed for the bid submission deadline in accordance with ITB Sub-Clause 22, and it shall remain binding upon us and may be accepted at any time before the expiration of that period;
- (h) If our bid is accepted, we commit to obtain a performance security in accordance with the Bidding Documents;
- (i) We are not participating, as a Bidder or as a subcontractor, in more than one bid in this bidding process in accordance with ITB 4.2(e), other than alternative bids submitted in accordance with ITB 13;
- (j) We, along with any of our subcontractors, suppliers, consultants, manufacturers, or service providers for any part of the contract, are not subject to, and not controlled by any entity or individual that is subject to, a temporary suspension or a debarment imposed by the World Bank Group or a debarment imposed by the World Bank Group in accordance with the Agreement for Mutual Enforcement of Debarment Decisions between the World Bank and other development banks. Further, we are not ineligible under the Purchaser's Country laws or official regulations or pursuant to a decision of the United Nations Security Council;
- (k) We are not a government owned entity/ We are a government owned entity but meet the requirements of ITB 4.5;¹
- (1) The following commissions, gratuities, or fees have been paid or are to be paid with respect to the bidding process or execution of the Contract: [insert complete name of each Recipient, its full address, the reason for which each commission or gratuity was paid and the amount and currency of each such commission or gratuity]

Name of Recipient	Address	Reason	Amount
	-	*	-
	-	÷	:
		·	



¹Bidder to use as appropriate

(If none has been paid or is to be paid, indicate "none.")

- (m) We understand that this bid, together with your written acceptance thereof included in your notification of award, shall constitute a binding contract between us, until a formal contract is prepared and executed;
- (n) We understand that you are not bound to accept the lowest evaluated bid or any other bid that you may receive;
- (o) We hereby certify that we have taken steps to ensure that no person acting for us or on our behalf will engage in any type of fraud and corruption; and
- (p) We undertake that, in competing for (and, if the award is made to us, in executing) the above contract, we will strictly observe the laws against fraud and corruption in force in India namely, "Prevention of Corruption Act 1988."

Name of the Bidder __insert complete name of person signing the Bid

Name of the person duly authorized to sign the Bid on behalf of the Bidder** [insert complete name of person duly authorized to sign the Bid]

Title of the person signing the Bid [insert complete title of the person signing the Bid]

Signature of the person named above <u>[insert signature of person whose name and capacity are shown above]</u>

Date signed [insert date of signing] day of [insert month], [insert year]

**: Person signing the Bid shall have the power of attorney given by the Bidder to be attached with the Bid Schedules.



2. BIDDER INFORMATION FORM

[The Bidder shall fill in this Form in accordance with the instructions indicated below. No alterations to its format shall be permitted and no substitutions shall be accepted.]

Date: [insert date (as day, month and year) of Bid Submission]

Page of	
1. Bidder's Legal Name [insert Bidder's legal name]	
2. Bidder's actual or intended Country of Registration: [insert actual or intended Country Registration]	of of
3. Bidder's Year of Registration: [insert Bidder's year of registration]	
4. Bidder's Legal Address in Country of Registration: [insert Bidder's legal address in country of registration]	
5. Bidder's Authorized Representative Information	
Name: [insert Authorized Representative's name]	
Address: [insert Authorized Representative's Address]	
Telephone/Fax numbers: [insert Authorized Representative's telephone/fax numbers]	
Email Address: [insert Authorized Representative's email address]	
6. Attached are copies of original documents of: [check the box(es) of the attached original documents]	nal
☐ Articles of Incorporation or Registration of firm named in 1, above, in accordance with ITB Sub-Clauses 4.3.	1
☐ In case of government owned entity from the Purchaser's country, documents establish legal and financial autonomy and compliance with commercial law and not dependent agency of borrower or sub-borrower or purchaser, in accordance with ITB Sub-Clause	
☐ Included are the organizational chart ,a list of Board of Directors, and the beneficial ownership	



Price Schedule Forms

[The Bidder shall fill in these Price Schedule Forms in accordance with the instructions indicated. The list of line items in column 1 of the **Price Schedules** shall coincide with the List of Goods and Related Services specified by the Purchaser in the Schedule of Requirements.]



3. PRICE SCHEDULE FOR SUPPLY AS PER SCHEDULE OF REQUIREMENTS

ASSAM-75672-	10	Total Price per line item (Col. 7+8+9)	finsert total price per item]		
Date: NCB No: IN-SPMU-ASSAM-75672- GO-RFB Page No of	6	Any other taxes payable per item if Contract is awarded (in accordance with ITB 14.8(a)(ii)	[insert any other taxes [it payable per line item it fContract is awarded]		Total Price Rs
	8	Price per line item for inland transportation, insurance and other services required to convey the Goods to their final destination (ITB 14.8 (a)(iii))	[insert the corresponding price per line item]		
N.	7	Total EXW price per line item [including GST as applicable] (Col. 5x6)	finsert total EXW price including GST as applicable, per line item]		
Prices in INR	9	Unit price EXW [including GST as applicable]	finsert EXW unit price including GST as applicable]		
	5	Quantity and physical unit	[insert number of units to be supplied and name of the physical unit]		
	4	Delivery Date	finsers quoted Delivery Date]		
	3	Country of Origin			
	2	Description of Goods	[insert name of Good]		
	1	Line Item No	finsert number of the item]		

Name of Bidder [insert complete name of Bidder] Signature of Bidder [signature of person signing the Bid] Date [insert date]



4. PRICE AND COMPLETION SCHEDULE - RELATED SERVICES

			Prices in Rs		Date: NCB No: IN-SPMI GO-RFB Page N° of	Date: NCB No: IN-SPMU-ASSAM-75672- GO-RFB Page N° of
1	2	3	4	5	9	7
Service N°	Description of Services (excludes inland transportation and other services required in India to convey the goods to their final destination)	Country of Origin	Delivery Date at place of Final destination	Quantity and physical unit	Unit price	Total Price per Service (Col. 5*6)
finsert number of the Service J	finsert name of Services after modifying as appropriate deleting inapplicable items from the following]	[insert country of origin of the Services]	finsert delivery date at place of final destination per Service]	finsert number of units to be supplied and name of the physical unit]	[insert unit price per item]	[insert total price per item]
				Total Bid Price Rs		

Name of Bidder [insert complete name of Bidder] Signature of Bidder [signature of person signing the Bid] Date [insert date]



5. Forms of Bid Security

Form of Bid Security - Bank Guarantee

[Guarantor letterhead or SWIFT identifier code]

Bank Guarante	e No	[insert guarantee reference number]
		[insert date of issue of the guarantee]
		[name of Bidder] ² (hereinafter called "the Applicant") has [date] or will submit his Bid for the supply of [name of Contract] (hereinafter called "the Bid") under [insert number] (hereinafter called "the IFB")
sum of		these presents that We [name of bank] [name of country] having our registered office at (hereinafter called "the Bank") are bound unto [name of Purchaser] (hereinafter called "the Purchaser") in the 3 for which payment well and truly to be made to the said Purchaser the cessors and assigns by these presents.
		non Seal of the said Bank this day of 20 nis obligation are:
(1)	validit	or Bid opening the Applicant (a) withdraws his bid during the period of Bid ty specified in the Letter of Bid; or (b) does not accept the correction of the rice pursuant to ITB 31;
or		
(2)		Applicant having been notified of the acceptance of his bid by the Purchaser the period of Bid validity:
	(a)	fails or refuses to execute the Contract Agreement in accordance with the Instructions to Bidders, if required; or
	(b)	fails or refuses to furnish the Performance Security, in accordance with the Instruction to Bidders.
_	-	e Purchaser up to the above amount upon receipt of his first written demand, ving to substantiate his demand, provided that in his demand the Purchaser

³ The Applicant should insert the amount of the guarantee in words and figures denominated in Indian Rupees. NNP, This figure should be the same as shown in Clause 19.1 of the Instructions to Bidders.

will note that the amount claimed by him is due to him owing to the occurrence of	f one	or any	of the
four conditions, specifying the occurred condition or conditions.			

the deadline for submission of Biobe extended by the Purchaser, not	rce up to and including the date4 day ds as such deadline is stated in the Instructions to Bidders or as tice of which extension(s) to the Bank is hereby waived. Any d d reach the Bank not later than the above date.	
DATE	SIGNATURE OF THE BANK	
WITNESS	SEAL	
[signature, name, and address]		

Note: All italicized text (including footnotes) is for use in preparing this form and shall be deleted from the final product.



⁴ 45 days after the end of the validity period of the Bid.

6. MANUFACTURER'S AUTHORIZATION

[The Bidder shall require the Manufacturer to fill in this Form in accordance with the instructions indicated. This letter of authorization should be on the letterhead of the Manufacturer and should be signed by a person with the proper authority to sign documents that are legally binding on the Manufacturer. The Bidder shall include it in its bid, if so indicated in the **BDS.**]

Date: [insert date (as day, month and year) of Bid Submission]

NCB No.: [insert number of bidding process]

Alternative No.: [insert identification No if this is a Bid for an alternative]

To: [insert complete name of Purchaser]

WHEREAS

We [insert complete name of Manufacturer], who are official manufacturers /[insert type of goods manufactured], having factories at [insert full address of Man (as uper's factories], do hereby authorize [insert complete name of Bidder] to submit a bid be arpose of which is to provide the following Goods, manufactured by us [insert name name brief description of the Goods], and to subsequently negotiate and sign the Contact against the above IFB.

We hereby extend our full guarantee and warranty in a lance with Clause 28 of the General

Conditions of Contract, with respect to the Goods or the by the above firm against this IFB.

No company or firm or individual other than the are authorized to bid, and conclude the contract for the above goods manufactured by us against this specific IFB. [This para should be deleted for imple items where manufacturers normally sell the product through different stockisss].

Signed: [insert signature(s) of authorized representative(s) of the Manufacturer]

Name: [insert complete name(s) of authorized representative(s) of the Manufacturer] Title: [insert title]

Duly authorized to sign this Authorization on behalf of: [insert complete name of Bidder]

Dated on ______ day of ______, ____[insert date of signing]

Note – Modify this format suitably in cases where manufacturer's warranty and guarantee are not applicable for the items for which bids are invited. If the supply consists of number of items, indicate the specific item (s) for which alone the above authorization is required.



7. DECLARATION FOR CLAIMING TAX/ DUTY EXEMPTION⁵

(Name	of the	Project)
-------	--------	----------

		of item to be supplied	

•		for issue of certificate for claiming exemption of Tax/ Duty i of India's relevant notification)	in terms of
(Bidde	er's N	ame and Address):	To (Name of Purchaser)
Dear S	Sir:		
1.	we ha	onfirm that we are solely responsible for obtaining deemed exercise considered in our bid and in case of failure to receive such soever, Purchaser will not compensate us.	-
2.		are furnishing below the information required by the Pursary certificate in terms of Government of India's relevant no	
	(i)	Ex-factory price per unit on which the tax/duty is payable:	*Rs.
	(ii)	No of Units to be supplied:	
	(iii)	Total cost on which the tax/duty is payable	(Rs.)
	Curre	requirements listed above are as per ent notifications. These may be modified, cessarv. in terms of the rules in force)	

⁵ This declaration refers to ITB 14.9 and shall be retained only if ITB 14.9 is retained. The format may be modified as per the latest instructions of Government of India.

(Signature)	
(Printed Name)	
Designation)	
(Common Seal)	



^{*} Please attach details item-wise with cost, if there are more than one items. The figures indicated should tally with what is given in the price schedule.

8. PERFORMA FOR PERFORMANCE STATEMENT

[Please see ITB Clause 36.2 and Section III-Evaluation and Qualification Criteria]

Proforma for Performance Statement (for a period of last three/five years)

Bid No Hours		Date of openi	ng				Time
		Name of the F	irm			<u>-</u>	
Order placed by (full address of Purchaser)	Order No. and date	Description and quantity of ordered equipment	Value of order	Date of co		Remarks indicating reasons for late delivery, if any	Has the equipment been satisfactorily functioning? (Attach a certificate from the Purchaser/Consignee)
				As per contract	Actual		
1	2	3	4	5	6	7	8
Signature and s	seal of the	Bidder				-	



SECTION V. - ELIGIBLE COUNTRIES

Public Information Center

Eligibility for the Provision of Goods, Works and Non Consulting Services in Bank-Financed Procurement

In reference to ITB 4.7 and 5.1, for the information of the Bidders, at the present time firms, goods and services from the following countries are excluded from this bidding process:

Under ITB 4.7(a) and 5.1: None.

Under ITB 4.7(b) and 5.1: None



SECTION VI. BANK POLICY - CORRUPT AND FRAUDULENT PRACTICES

Guidelines for Procurement of Goods, Works, and Non-Consulting Services under IBRD Loans and IDA Credits & Grants by World Bank Borrowers, dated January 2011.

"Fraud and Corruption:

- 1.16 It is the Bank's policy to require that Borrowers (including beneficiaries of Bank loans), bidders, suppliers, contractors and their agents (whether declared or not), sub-contractors, sub-consultants, service providers or suppliers, and any personnel thereof, observe the highest standard of ethics during the procurement and execution of Bank-financed contracts. In pursuance of this policy, the Bank:
 - (a) defines, for the purposes of this provision, the terms set forth below as follows:
 - (i) "corrupt practice" is the offering, giving, receiving, or soliciting, directly or indirectly, of anything of value to influence improperly the actions of another party;⁷;
 - ii) "fraudulent practice" is any act or omission, including a misrepresentation, that knowingly or recklessly misleads, or attempts to mislead, a party to obtain a financial or other benefit or to avoid an obligation;⁸
 - (iii) "collusive practice" is an arrangement between two or more parties designed to achieve an improper purpose, including to influence improperly the actions of another party;⁹
 - (iv) "coercive practice" is impairing or harming, or threatening to impair or harm, directly or indirectly, any party or the property of the party to influence improperly the actions of a party; 10
 - (v) "obstructive practice" is:

In this context, any action to influence the procurement process or contract execution for undue advantage is improper.

For the purpose of this sub-paragraph, "another party" refers to a public official acting in relation to the procurement process or contract execution. In this context, "public official" includes World Bank staff and employees of other organizations taking or reviewing procurement decisions.

For the purpose of this sub-paragraph, "party" refers to a public official; the terms "benefit" and "obligation" relate to the procurement process or contract execution; and the "act or omission" is intended to influence the procurement process or contract execution.

For the purpose of this sub-paragraph, "parties" refers to participants in the procurement process (including public officials) attempting either themselves, or through another person or entity not participating in the procurement or selection process, to simulate competition or to establish bid prices at artificial, non-competitive levels, or are privy to each other's bid prices or other conditions.

For the purpose of this sub-paragraph, "party" refers to a participant in the procurement process or contract execution.

- (aa) deliberately destroying, falsifying, altering, or concealing of evidence material to the investigation or making false statements to investigators in order to materially impede a Bank investigation into allegations of a corrupt, fraudulent, coercive or collusive practice; and/or threatening, harassing or intimidating any party to prevent it from disclosing its knowledge of matters relevant to the investigation or from pursuing the investigation, or
- (bb) acts intended to materially impede the exercise of the Bank's inspection and audit rights provided for under paragraph 1.16(e) below.
- (b) will reject a proposal for award if it determines that the bidder recommended for award, or any of its personnel, or its agents, or its sub-consultants, sub-contractors, service providers, suppliers and/or their employees, has, directly or indirectly, engaged in corrupt, fraudulent, collusive, coercive, or obstructive practices in competing for the contract in question;
- (c) will declare misprocurement and cancel the portion of the loan allocated to a contract if it determines at any time that representatives of the Borrower or of a recipient of any part of the proceeds of the loan engaged in corrupt, fraudulent, collusive, coercive, or obstructive practices during the procurement or the implementation of the contract in question, without the Borrower having taken timely and appropriate action satisfactory to the Bank to address such practices when they occur, including by failing to inform the Bank in a timely manner at the time they knew of the practices;
- (d) will sanction a firm or individual, at any time, in accordance with the prevailing Bank's sanctions procedures, including by publicly declaring such firm or individual ineligible, either indefinitely or for a stated period of time: (i) to be awarded a Bank-financed contract; and (ii) to be a nominated 12;
- (e) will require that a clause be included in bidding documents and in contracts financed by a Bank loan, requiring bidders, suppliers and contractors, and their sub-contractors, agents, personnel, consultants, service providers, or suppliers, to permit the Bank to inspect all accounts, records, and other documents relating to the submission of bids and contract performance, and to have them audited by auditors appointed by the Bank."

A firm or individual may be declared ineligible to be awarded a Bank financed contract upon: (i) completion of the Bank's sanctions proceedings as per its sanctions procedures, including, inter alia, cross-debarment as agreed with other International Financial Institutions, including Multilateral Development Banks, and through the application the World Bank Group corporate administrative procurement sanctions procedures for fraud and corruption; and (ii) as a result of temporary suspension or early temporary suspension in connection with an ongoing sanctions proceeding. See footnote 14 and paragraph 8 of Appendix 1 of these Guidelines.

A nominated sub-contractor, consultant, manufacturer or supplier, or service provider (different names are used depending on the particular bidding document) is one which has either been: (i) included by the bidder in its pre-qualification application or bid because it brings specific and critical experience and know-how that allow the bidder to meet the qualification requirements for the particular bid; or (ii) appointed by the Borrower.

PART 2 - SUPPLY REQUIREMENTS



SECTION VII – SCHEDULE OF REQUIREMENTS



1. List of Goods and Delivery Schedule

Line				Final (Project	Delive (Bid	Delivery (as per Incoterms) Date (Bid Security in INR36,000,00)	rms) Date
No.	Description of Goods	Quantity	Physical unit	Destination as specified in BDS	Earliest Delivery Date	Latest Delivery Date	Bidder's offered Delivery date [to be provided by the hidder]
				Jorhat, Assam, India	30 days from the date of issue of Notice to	60 days from the date of issue of Notice to	
-	Digital pH meter				Proceed	Proceed	
	ational Accreditation Board for						
	Standards & Technology (NIST) guidelines * automatic						
	electrode recognisation * built in GLP function * graphic LCD display of pH ORP readings temperature electrode status						
	calibration points, battery life, date and time * hard & waterproof						
	casing * Help Menu * pH Range: 0-14 pH * resolution: 0.01pH						
	* accuracy: ±0.01 pH * calibration point: Up to 5 * Buffer sets * auto temperature compensation * windows compatible						
	or PC connection* re						
	batteries & battery charger						
	Portable pH meter						
	* Multi-Point Calibration (up to 5 points) with Auto-Buffer Recognition - choice of USA * NIST or pure water buffer						
	Statituates with ±0.01 pH accuracy * Automatic Temperature Compensation (ATC) for the highest accuracy under *	+	Ž				
	fluctuating temperatures * Hold Function momentarily freezes reading for easy viewing and recording * Auto-Power Off saves	-	2				
	battery power after non-use * Self-Diagnostic with message						



- 1		Lot 1: Project District - Jorhat	ect Distri	ct - Jorha	at				The second
	, ,				Final (Project	Delive (Bid	Delivery (as per Incoterms) Date (Bid Security in INR36,000.00)	rms) Date (,000.00)	
	Item No.	Description of Goods	Quantity	Physical unit	Sue) Destination as specified in BDS	Earliest Delivery Date	Latest Delivery Date	Bidder's offered Delivery date [to be provided by the bidder]	
		optimum viewing even at a distance * Protective Rubber Boot shields meter from accidental knocks and features a sturdy built-in stand for easy bench-top operation * Rugged Carrying Case (Optional) provides handy on-site meter calibration and measurement.							
		* pH Range - 0.00 to 14.00 pH * PR Sange - 0.00 to 14.00 pH * Resolution & Accuracy- 0.01 pH & ± 0.01 pH * Temperature Range - 0 to 100.0 °C Resolution & Accuracy-							
		* mV Range -1000 to + 1000 mV * Resolution & Accuracy - 1 mV & ± 1 mV * Temperature Compensation-Automatic / Manual (0 to 100 °C)							
		Buffer Solutions, (iv) Storage Solution & 1 x Deionised (Rinse) Water (60 ml Each), (v) 480 ml each of colour coded standard buffer solution pH 4.01 (red coloured), (vi) pH 7.00 (Yellow coloured) & pH 10.01 (Blue coloured), (vii) operating manual, carrying case.							
1	7	Digital TDS meter							П
(3)		* Conforms to NABL & NIST guidelines * displays Conductivity, TDS and Temperature * automatic electrode recognization * built in GLP function * up to 1000 samples data							
MNP,		set storage * range - 1 µS/cm to 200 mS/cm * windows compatible software * USB cable for PC connection							
ASC	T.C.	Portable Digital TDS meter							

/II. Schedule of Require
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		Lot 1: Project District - Jornat	Ject Distr	ict - Jorn		Delive	Delivery (as per Incoterms) Date	rms) Date
	Line			Dhveical	Final (Project Site)	(Bid	(Bid Security in INR36,000.00)	,000.00)
	No.	Description of Goods	Quantity	unit	Destination as specified in BDS	Earliest Delivery Date	Latest Delivery Date	Delivery date [to be provided by the bidded]
		* Multi-Point Push-button Calibration (up to 5 points) with ±1% full scale accuracy * Automatic or Manual Calibration - for quick, easy calibration; use automatic mode * with pre-set calibration points at most popular values or manually set values in the manual mode for more flexibility * Auto-Ranging for Conductivity/TDS measurements for fast response and best resolution over wide measurement range * Adjustable TDS Factor for more accurate measurement (for TDS 6 model only) * Automatic Temperature Compensation (ATC) for the optimum accuracy under fluctuating temperatures * Hold Function momentarily freezes reading for easy viewing * Auto-Power Off saves battery power after non-use * Self-Diagnostic with message codes for easy troubleshooting * Large Custom LCD provides optimum viewing even at a distance * Electrode with Built-in ATC designed for minimal air bubble entrapment during measurement * Protective Rubber Boot shields meter from drops and features a sturdy built-in stand for easy bench-top operation.	-	Ö				
		Technical specifications: * TDS Range-0.00 - 9.99 ppm / 10.0 - 99.9 ppm/ 100 - 999 ppm / 1.00 - 9.99 ppt / 10.0 - 99.9 ppt * Resolution-0.05 % full scale Accuracy-±1 % of full scale ±1 LSD * TDS Factor-0.30 to 1.00						
OS * Dissi		 * I emperature Kange-U.U to 80.U °C * Resolution-0.1 °C * Accuracy-±0.5 °C * Compensation Automatic/Manual (0 to 80 °C) * Normalization 20.0 or 25.0 °C Operating Temperature-5 to 45 °C 						

line				Final (Project	Delive (Bid	Delivery (as per Incoterms) Date (Bid Security in INR36,000.00)	rms) Date 5,000.00)
No.	Description of Goods	Quantity	Physical unit	Destination as specified in BDS	Earliest Delivery Date	Latest Delivery Date	Bidder's offered Delivery date [to be provided by the bidder]
	* Calibration Points-4 (1 per range) auto, 5(1 per range) manual Temperature Coefficient-0.0 - 10.0 %						
	* CellConstant-0.1, 1.0, 10.0 Auto-Off-20 min after last key						
	pressed						
	* Input-BNC, 2.5 mm phono socket Power-4 x 1.5 V 'AAA'						
	The meter should be supplied with (i) Basic meter with						
	conductivity electrode with cell constant 1.0 (ii) TDS calibration						
	solutions (50 ppm, 300 ppm, 3000 ppm), (iii) Di rinse water (60						
	mL each), (iv) Grip-Clip, (v) batteries in hard carrying case, (vi) operating manual & 480 ml of 300 ppm TDS calibration solution						
က	Refrigerator						
	* Capacity-180 * frost free * 5 star ration * single door *						
		-	o N				
4	Refrigerator						
	* Capacity- 300 L * frost free * 5 star rating * double door *		4				
	freezer type - top freezer * in built inverter	-	NO.				
ည	Water still						
	* Distillation Unit made of Stainless steel * capacity 5 litre/ hour						
	* wall mounting model - equipped with brackets for wall	-	No.				
	mounting * to work on 220- 230 volts AC supply						
တ	Voltage stabilizer						
	* Capacity- 3 KVA * servo stabilizer * 5 star rating	,	No.				
7	Hot plate						
	* Body to be fabricated out of thick mild steel sheet, duly						
	finished in epoxy powder coated * The Hot Plate top to be made						
	of Stainless steel thick sheet & smoothed duly finished should						
	be firmly mounted on the body * Heavy duty heating elements	2	Š.				
	should be securely laid under the plate to operate on 220/230V						
	AC supply * Temperature in controlled by energy regulators fitted with an indicator lamp for the mains * To be supplied with						

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				Final (Project	Delivi	Delivery (as per Incoterms) Date	ıms) Date
Line			Physical	Final (Froject Site)	(Bid	(Bid Security in INR36,000.00)	5,000.00) Biddor's offered
No.		Quantity	unit	Destination as specified in BDS	Earliest Delivery Date	Latest Delivery Date	Delivery date [to be provided by the bidder]
	main cord and plug. Technical Specifications:						
	* Top plate size: 50 x 45cm * Load: 2 KW						
ω	Hot air oven - Standard make						
	* The unit should be of double walled with outer body made of Mild Steel Sheet treated for degreasing & rust proofing duly						
	Steel Sheet (304 Grade) with adjustable Stainless-Steel Wire						
	Mesh shelves ★ Space between inner chamber and outer wall						
	Should be filled with high grade mineral wool as insulation * The Double Walled Door should have synthetic rubber / fibre						
	gasket. Unit should have ventilation slides on two sides to						
	control inner air/ vapour circulation * To be fitted with beaded						
	heating elements placed in ribs, at bottom and sides for uniform heat distribution. To work on 220/230 volts AC supply	-	o N				
	* Temperature control-By capillary type thermostat with			ě			
	arbitrary scale dial for temperature control from +5° C ambient						
	to 250 of 2 of 100 of and with informit crype capinally thermometer & energy regulator to reduce temperature						
	fluctuation in higher temperature.						
	* Working chamber size. 450x450x600 mm (2 trays)-						
	approximately 120 lit						
တ	Bacteriological Incubator						
	* The unit should be double walled with outer body to be made of MS sheet treated for degreesing & rist proofing duly powder						
	coated and inner chamber to be made of Stainless Steel (304						
	Grade) sheet * To be provided with adjustable Stainless Steel		O				
	Wire Mesh / perforated shelves * Space between inner						



		Lot 1: Project District - Jorhat	ect Distri	ct - Jorha	-			
	aci.				Final (Project	Delive (Bid	Delivery (as per Incoterms) Date (Bid Security in INR36,000.00)	rms) Date 5,000.00)
	No.	Description of Goods	Quantity	Physical unit	Destination as specified in BDS	Earliest Delivery Date	Latest Delivery Date	Bidder's offered Delivery date [to be provided by the bidder]
		wool for minimal heat loss * The Double Walled Door to be fitted						
		disturbing the inner temperature and should be of synthetic				4		
		rubber/fibre gasket. Unit should have ventilation slides on two						
		sides to control inner air/ vapour circulation * To be fitted with						
		beaded heating elements placed in ribs, at bottom and sides for						
		and ON / OFF switch * To work on 220/230 volts AC supply						
		Technical Specifications:						
		* Temperature control-By Digital Temperature Indicator-cum-						
		Controller (with display for Set Value and Present Value) from						
		+5° C ambient to 70°C, ± 0.5°C at 50°C. To be fitted with Air						
		Circulating Fan to maintain uniform temperature throughout the						
		* Working chamber size: 459x450x600 mm (2 trays)-						
- "		approximately 120 lit						
	10	Autoclave						
								Ā
		of thick machined high grade Stainless Steel plate * The unit						
		should have Radial Locking arrangement made of high grade						
		Stainless Steel duly polished with paddle lifting mechanism *						
		٠.						
1		Gauge, Pressure Release Valve, water	_	2				
1		Indicator, Drain Valve, Automatic Pressure Control Switch,						
5,1		Automatic Low Water Cut-off Device & automatic interval timer						
11/		* The unit should be hydraulically tested to withstand up to 40						
P,		psi pressure * All internal joints of the unit should be Argon arc						
AS		welded ground and polished to give crevice free internals *						
2		Moulded joint-less Silicon Rubber Gasket has to be provided						
,		for leak proofing * The unit would be electrically heated by						

Schedule of Requirements
ΙΤΛ
Section

		Lot 1: Project District - Jorhat	ect Distric	ct - Jorha	Į.			
3	Line				Final (Project	Delive (Bid	Delivery (as per Incoterms) Date (Bid Security in INR36,000.00)	rms) Date ,000.00)
₹Z	ltem No.	Description of Goods	Quantity	Physical unit	Destination as specified in BDS	Earliest Delivery Date	Latest Delivery Date	Bidder's offered Delivery date [to be provided by the hidder
		flange type/immersion type heaters. To be supplied with Control Box, fitted with Mains & Heating Indicators, ON / OFF Switch, Cord & Plug to work on 220/230V, 50Hz, AC supply * Working chamber size: 300 mm X 500 mm (approximately 35 lit).						
_	11	Magnetic stirrer						
		* The body should be made of mild steel duly finished in epoxy powder coating and to be mounted with a stainless-steel top stirring has to be done by fractional horsepower motor, rotating magnetic field applied below the liquid container * The stirring would be accomplished by a PTFE encapsulated magnetic needle to be placed in the liquid to be stirred * The unit should be supplied with pilot lamp, plug cord and continuously variable speed regulator * Maximum speed 1400 RPM. The unit shall be workable on 220/230V AC single phase. To be supplied with TWO PTFE coated magnetic needle (dia X length):8x15mm & 8x25mm one each Stirring Capacity: Approximately. 2 lit	~	Ö				
_	12	Microscope						
		* Binocular * with LCD display * connectivity with and without CPU	-	No.				
~	13 \	Vacuum pump						
	* 1 ~	* Maximum power 80 watts * maximum vacuum- 670 mm of Hg * maximum flow rate- 34 lit/ min * rotation- 1450 RPM * HP-1/6 HP * noise level- 52 dB	-	No.				
_	14 F	Flame Photometer						
NN	*= 0 0 *	* Microprocessor Flame Photometer (Graphical Display & Inbuilt Printer) having provision for Four Element measurement in a single aspiration (Na, K, Li, Ca and Ba) * Provision for Calibration curve fit routines first order and second order * Data displayed should be in concentration units i.e. ppm & meq/litre * The unit should have provision for automatic filter selection;	7-	o Z				



		Lot 1: Proj	Lot 1: Project District - Jorhat	- Jorhat				
	<u></u>				Final (Project	Delive (Bid	Delivery (as per Incoterms) Date (Bid Security in INR36,000.00)	ms) Date ,000.00)
	ltem No.	Description of Goods	Quantity	Physical unit	Site) Destination as specified in BDS	Earliest Delivery Date	Latest Delivery Date	Bidder's offered Delivery date [to be provided by the bidderl
		auto calibration, auto Gas Cut off (in case of power failure feature) * Printer attachment, PC connecting compatibility, Sample data storage (at least 300 results) * The unit would have alphanimerical key hoard for easy data entry. Granhical						
		should be supplied with Stainless steel burner with Sodium & Potassium Filter, air Compressor, LPG cylinder with valve,						
Tie	-	wire-knitted gas rubber tube, NIST traceable Sodium & Potaccium standard (1000 mg/l etranoth) each of 125 ml nack						
		12 nos. certified volumetric Flask- class A of 100ml capacity, 3						
		nos. Iml & 3 nos. 10 ml certified graduated Mohr's pipette of Class A made of borosilicate glass.						
	15	UV Laminar Air Flow chamber						
		* Working area 91.44cm x 60.96cm x 60.96 cm * blower fitted						
		with the motors * pre-filters made of high grade hylon Net fixed in stainless steel frame for first Stage air purification, through						
		blower system * closed inner chamber fitted with HEPA having	_	No.				
		very accurate performance rate of air filtration, rating 99.99% resulting in ceasing all air borne molecule of particles up to 0.3						
		micron in working Area of Laminar Bench					1	
	16	Filtration assembly						
		* With a Vacuum pump * complete with a glass fitter holder 47	-	N C				
		mm + with funnel, fitted base, cap & clamp	-					
	17	Plate count and colony counter						
195 x V.		* Hand held * micro controller based * 6 digit [999999] LCD						
The Coop		counter * built in buzzer, marker pen, and counters *	_	S S				
	NI	memorizes last count * as per GMP specifications * noid and count correction facility						
לייים	18	(a) Arsenic testing instrument - portable type						
AS/	1							

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	Lot 1: Project District - Jorhat	ject Distri	ct - Jorha	t in			
Line				Final (Project	Delive (Bid	Delivery (as per Incoterms) Date (Bid Security in INR36,000.00)	rms) Date ,000.00)
No.	Description of Goods	Quantity	Physical unit	Destination as specified in BDS	Earliest Delivery Date	Latest Delivery Date	Bidder's offered Delivery date [to be provided by the bidded
	* Digital meter based on colorimetry /densitometry * complete with tri fitter arsenic trap * 100 reaction vessel * destruction fitter holder * detection fitter holder * hydrogen sulphide fitter * reagents for 420 tests * visual comparison chart * forceps * gloves * dilution tubes * cuvette * brush * 9V battery * screwdrivers * instrument manual	-	NO.				
19	(b) Arsenic testing accessories - for spectrophotometer						
	* Reagent for Arsenic Analysis: package of 250 tests - Hydrochloric Acid analytical grade 500 ml X4, Zinc filling (3-5 mm grain size) 500 gmX3, Potassium lodide analytical grade 1X100 gm, Stannous Chloride analytical grade 1X100 gm, Chloroform Morpholine IX500ml, Lead acetate 1X500 gm, Chloroform HPLC/Spectroscopy grade 2X 1 lit, Silver diethyl dithiocarbamate ACS grade 5 mXl, glass wool 250 gmXl, Acetone analytical grade 500 mlXl * Arsine generator complete with natching standard joint, absorber tube with matching standard joint, 5 ml volumetric Flask- package of 12 sets- all made of Borosilicate glass * Volumetric Flask 100 ml - 3 numbers, Mohr's type graduated pipette Iml, 5 ml, 10 ml, 25 ml- 6 nos. each * Glass dropper- 2 nos * Stainless steel forceps- 1 no.	7-	o Z				
20	Dissolved Oxygen Meter						
	* Waterproof Hand-held Meters for the determination of Dissolved oxygen on site. The meter should be of Rugged, water resistant (IP 67) & to be designed for field use. Should have PC interface (USB / serial or analogue) & backlit LCD display. Technical specifications: * Measurement: Oxygen partial pressure, Oxygen Concentration, Oxygen Saturation, Temperature	~	o Z				

NNP, ASSC.

		Lot 1: Project District - Jorhat	ect District	t - Jorha				
	2				Final (Project	Delive (Bid	Delivery (as per Incoterms) Date (Bid Security in INR36,000.00)	ms) Date ,000.00)
	No.	Description of Goods	Quantity	Physical unit	Destination as specified in BDS	Earliest Delivery Date	Latest Delivery Date	Bidder's offered Delivery date [to be provided by the bidder
		measurement, Automatic absolute air pressure measurement Should have Auto Hold Function Alarm Function Data Logger						
		facility & with required Software, Easy calibration against						
		oxygen in air, Salinity correction & shall have Self-polarising						
		* Should have the features for Low battery and battery change						
		indicator, auto off function, Sensor evaluation after calibration in the display & should have Shock-absorbing rubber protective						
		armouning. 02 concentration 0.0 70.0 mg/1						
		 ★ Accuracy 02 concentration 0 25 mg/1 ± 1.5 % ± 0.2 mg/1/ 						
		25 70 mg/1 ±2.5 % ± 0.3 mg/1						
	21	Cool box with icepacks						
		* Material: PC thermoplastic / Non toxic gel well * dimension:	0	S				
		134mm× 92 mm	7	2				
	22	Specific Ion meter - for Fluoride, Chloride and Nitrate etc						
		with large, k						
		graphic LCD display, informative display should show H/mV/RmV//SF results and temperature along with electrode						
		status, time, date, sample ID, user ID and calibration points *						
		Tech specs for lon measurement: Range: 0 to 19999 *						
		Resolution: Up to 3 significant digits * Relative Accuracy: ±0.2						
		mail 9/ was pose + Calibration Doints: The to 5 + Calibration						
		Editing: possible * Calibration Features: Timed end point.	_	Š				
6								
NA CAN	/	concentration range stability						
113	N	Ine unit snall be supplied with phr electrode, ATC probe, stainless steel probe. Star stirrer probe Electrode arm with						
	NP,	holder & Universal power adapter. The unit shall be supplied						
10.		with Fluoride & Nitrate Ion selective electrode with electrode						
2		חוווון סטומוטון, ווסיטין ווסיטין ווסיטין איניין						

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				Final (Project	Delive	Delivery (as per Incoterms) Date	rms) Date
No.	Description of Goods	Quantity	Physical unit	Site) Destination as specified in BDS	(Bid Earliest Delivery Date	(Bid Security in INK36,000.00) Latest Bidde Latest Delivery Date be pr	Bidder's offered Bidder's offered Delivery date [to
	solution for nitrate electrode, NIST traceable Standard solution for 1000 mg/L of Fluoride & Nitrate - 500 ml of each type, variable volume micropipette 1-5 ml with micro-tip (100 nos.) -						ne proder
	1 set & any other consumables required for Fluoride & Nitrate analysis.						
23	Fume cup board						
	* Work table size 91.44cm x 60.96cm x 60.96 cm * exhaust ducting * table material: granite * outer mild steel body	-	No.				
24	Auto Burette (100 ml capacity, Automatic Zero, Accuracy as per Class A IS 1997: 2008 / ISO 385: 2005, With Reservoir, Rubber Bellow, PTFE Stopcock With Certificate)	-	No.				
25	Auto-Pipette						
	 ★ Single channel Variable Volume automatic pipette * air-displacement type * Conformity * Certified with Individual Work Certificate * Range: 500 - 5000 µl * Division: 10 µl * Accuracy R<±%: 0.8 	~	N O				
26	Thermometer						
	 * Range -20°C to 250°C * displays both in Fahrenheit & Centigrade scale/ inter switchable * accuracy - ±0.2°C * resolution-0.1° * water resistant 	-	o N				
27	Single Stage distillation apparatus						
	* Output - 5 litres * auto cut * metallic stand * complete with other accessories * 230 volts	_	O				
28	Quartz Distillation apparatus						
	k) – 5 Ltr/Hr, ter consumpti ity –S/cm-<3 : Distillation Ap	~	o S				
	Supply (DAPS), Quartz boiler, Borosilicate Condenser and Quartz Condenser, Distillation Unit, Single Stage, All Quartz (Boiler & Condenser), with Built-in Quartz Heater. Vertical						

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		Lot 1: Project District - Jorhat	ect Distri	ct - Jorha	ıt			
	į				Final (Project	Delive (Bid	Delivery (as per Incoterms) Date (Bid Security in INR36,000.00)	rms) Date (,000.00)
	No.	Description of Goods	Quantity	Physical unit	Destination as specified in BDS	Earliest Delivery Date	Latest Delivery Date	Bidder's offered Delivery date [to be provided by the bidder]
I.		Panel Mounted to be complete with low water level cut-off device, Conductivity of distilled water should be around 2 us/cm or less.						
	29	Kjeldal distillation apparatus						
		* unit of 6 test mantle type	_	Š				
	30	Pressure Pump						
		욘						
		capacity- 1/6 HP * maximum power- 125 Watt * maximum current- 0.6 Ampere	-	o O				
	31	Membrane filtration	-	No				
	32	Deep Freezer						
		* -20°C * horizontal	-	Š				
	33	Micropipette						
		* variable volume of 0.5 µl to 10µl	-	No.				
	34	Centrifuge machine with rotors						
		* Microprocessor Based * Maximum Speed 5200 rpm * Square						
		MS body duly powder coated * Double walled light weight ABS						
_		Lid. * Fitted with Micro Processor based 2 lines 16 characters	,	Ž				
		LCD panel for 0-59 minute Count-down timer * The unit should						
		be supplied with rotor head of 8X15 mi swing out head & 16 hos * Centrifuce fube						
	35	Portable Chemical Field Test Kit						
		* Capable of testing 30 samples/ GPs	15	Š				
Ц.	36	H2S Vials for Bacteriological testing						
1		* 100 vials/GP for each of the 15 GPs	1500	O				
I,	37	Conical Flasks						
/		*Flat bottom support * Conical body * Cylindrical neck *		30				11
J.N		Graduated * complies with IS 915, ISO 1042 for volumetric flasks						
NF		100 ml capacity	16	No.				
17		150 ml capacity	16	No.				
5								

Line Item No. 250 ml cs 500 ml cs 1000 ml cs * Flat bo precise p 100 ml cs	Description of Goods 250 ml capacity 500 ml capacity				:		
			i	Final (Project Site)	Delive (Bid	Delivery (as per Incoterms) Date (Bid Security in INR36,000.00)	ms) Date ,000.00)
	capacity capacity	Quantity	rnysical	Destination as specified in BDS	Earliest Delivery Date	Latest Delivery Date	Bidder's offered Delivery date [to be provided by
	capacity	30	Š.				lannur aun
		16	Ñ.				
	1000 ml capacity	9	S.				
* Flat by precise 100 ml	S						
100 ml	* Flat bottom * cylindrical shape * small spout for clean and precise pouring * graduated to indicate the exact content						
	100 ml capacity	16	No				
250 ml	250 ml capacity	19	S				
500 ml	500 ml capacity	9	2				
1000m	1000ml capacity	80	Š				
2000m	2000ml capacity	4	N.				
39 Ordina	Ordinary Pipette						
* Larg	* Large bulb with a long narrow portion above with a single						
gradua	graduation mark * Calibrated for a single volume * accurate						
Circles	ineasurement and decanting of liquid * each pipette coded with						
2 m dag	5 ml canacity	o	1				
10 ml c	10 ml capacity	5 5					
20 ml canacity	apacity	7 0	o Z				
25 ml capacity	apacity	0	2 2				
50 ml capacity	apacity	4	S S				
40 Gradua	Graduated Pipette						
* Long	 Long tube with a series of graduations to indicate different calibrated volumes for delivery from zero mark to the last 						
graduat)						
1 ml capacity	pacity	4	Ö				
	pacity	ဖ	Š				
10 ml capacity	apacity	œ	Š				
20 ml capacity	apacity	4	Š				
TO 41 Ordina	Ordinary Burette						

Section VII . Schedule of Requirements

State Page		Lot 1: Project District - Jorhat	ject Distr	ict - Jorh	at			
Straight tube with a graduation of Goods		g			Final (Project	Delive (Bid	ery (as per Incote Security in INR36	rms) Date 3,000.00)
* Straight tube with a graduation scale & a stop cock with loog 385 No. 8 No. 385 25 ml capacity 8 No. 26 ml capacity 100 ml capacity 100 ml capacity 4 with automatic Eurette 100 ml capacity 100 ml capacity 50 ml capacity 100 ml capacity 100 ml capacity 50 ml capacity 4 No. No reasole Desiccators * rize 160 mm * for use with Disposable or Reusable Desiccators * rize 160 mm * for use with Disposable or Reusable Desiccators * rize 160 mm * for use with Disposable or Reusable Desiccators * sterifizable * with clear 4 No. Reagent Bottles * plain narrow mouth * no-drip pour lip * solid glass stopper of the securely * autoclavable & sterifizable * with clear 20 No. 100 ml capacity 250 ml capacity 6 No. No. 550 ml capacity 550 ml capacity <th>显之</th> <th></th> <th>Quantity</th> <th>Physical unit</th> <th>Destination as specified in BDS</th> <th>Earliest Delivery Date</th> <th>Latest Delivery Date</th> <th>Bidder's offered Delivery date [to be provided by the bidder]</th>	显之		Quantity	Physical unit	Destination as specified in BDS	Earliest Delivery Date	Latest Delivery Date	Bidder's offered Delivery date [to be provided by the bidder]
25 ml capacity 50 ml capacity 100 ml capacity 4 utomatic Burette * with automatic zero facility * mounted on a glass reservoir bottle, glass stop cock * rubber bellows * enamel graduations 50 ml capacity * Normal Desiccators * Normal Desiccators * size 160 mm * for use with Disposable or Reusable Desiccator * complies with 18 6128 : specification for desiccators * plain narrow mouth * no-drip pour lip * solid glass stopper to fit securely * autoclavable & sterilizable * with clear graduations 100 ml capacity 250 ml capacity 650 ml capacity 260 ml capacity 260 ml capacity 250 ml c		* Straight tube with a graduation scale & a stop cock with one dispenser tube * No after drainage period * complies with ISO 385						
50 ml capacity Automatic Burette * with automatic zero facility * mounted on a glass reservoir bottle, glass stop cock * rubber bellows * enamel graduations 50 ml capacity * Normal Desiccators * size 160 mm * for use with Disposable or Revagent Bottles * Normal Desiccators * size 160 mm * for use with Disposable or Reagent Bottles * Normal Desiccators * size 160 mm * for use with clear for desiccators Reagent Bottles * plain narrow mouth * no-drip pour lip * solid glass stopper to fit securely * autoclavable & sterilizable * with clear graduations 100 ml capacity 250 ml capacity 250 ml capacity 260 ml capacity 260 ml capacity 270 ml capacity 260 ml capacity 250 ml capacity 260 ml capacity 270 m		25 ml capacity	80	No.				*
Automatic Burette * with automatic Zero facility * mounted on a glass reservoir bottle, glass stop cock * rubber bellows * enamel graduations 50 ml capacity * Normal Desiccators * size 160 mm * for use with Disposable or Reusable Desiccators * complies with IS 6128 : specification for desiccators * Normal Desiccators * size 160 mm * for use with Disposable or Reusable Desiccators * complies with IS 6128 : specification for desiccators * Plain narrow mouth * no-drip pour lip * solid glass stopper to fit securely * autoclavable & sterilizable * with clear graduations 100 ml capacity 250 ml capacity 250 ml capacity 2000ml capacity 2000ml capacity 2000ml capacity 250 ml capacity 355 500 ml capacity 800 ml capacity 250 ml capacity 2		50 ml capacity	00	No.				
Automatic Burette * with automatic zero facility * mounted on a glass reservoir bottle, glass stop cock * rubber bellows * enamel graduations 50 ml capacity 1 A Normal Desiccators * size 160 mm * for use with Disposable or Reusable Desiccant * complies with IS 6128 : specification for desiccators 4 * Normal Desiccators * size 160 mm * for use with Disposable or Reusable Desiccant * complies with IS 6128 : specification for desiccators 4 * Plain narrow mouth * no-drip pour lip * solid glass stopper to fit securely * autoclavable & sterilizable * with clear graduations 20 100 ml capacity 250 ml capacity 35 500 ml capacity 6 200ml capacity 6 Sample Bottles 35 * Of food grade plastic * large labelling field * complete with screw cap and pouring ring 35 550 ml capacity 35 500 ml capacity 35 250 ml capacity 35 2000ml capacity 35 2000ml capacity 35 2000ml capacity 36		100 ml capacity	-	S.				
 * with automatic zero facility * mounted on a glass reservoir bottle, glass stop cock * rubber bellows * enamel graduations 50 ml capacity * Normal Desiccators * size 160 mm * for use with Disposable or Reusable Desiccant * complies with IS 6128 : specification for desiccators * Normal Desiccant * complies with IS 6128 : specification for desiccators * Reagent Bottles * plain narrow mouth * no-drip pour lip * solid glass stopper to fit securely * autoclavable & sterilizable * with clear graduations 100 ml capacity 250 ml capacity 250 ml capacity 66 8 8 100 ml capacity 250 ml capacity 8 100 ml capacity 15 ml capacity 250 ml cap	4	Automatic						
besiccators * Normal Desiccators * size 160 mm * for use with Disposable or Reusable Desiccant * complies with IS 6128 : specification for desiccators * Normal Desiccant * complies with IS 6128 : specification for desiccators * Reagent Bottles * plain narrow mouth * no-drip pour lip * solid glass stopper to fit securely * autoclavable & sterilizable * with clear graduations 100 ml capacity 250 ml capacity 250 ml capacity 2000ml capacity 2000ml capacity 2000ml capacity 250 ml capacity 355 500 ml capacity 356 250 ml capacity 877 1000ml capacity 88 1000ml capacity 155 2000ml capacity 88 Test Tubes	ľ	automatic zero facility glass stop cock * rubbe						
Normal Desiccators * size 160 mm * for use with Disposable or Reusable Desiccant * complies with IS 6128 : specification for desiccators Reagent Bottles * plain narrow mouth * no-drip pour lip * solid glass stopper to fit securely * autoclavable & sterilizable * with clear graduations 100 ml capacity 250 ml capacity 250 ml capacity 250 ml capacity 4000ml capacity 500 ml capacity 500 ml capacity 2000ml capacity 500 ml capacity		50 ml capacity	-	No.				
* Normal Desiccators * size 160 mm * for use with Disposable or Reusable Desiccant * complies with IS 6128 : specification for desiccators *Reagent Bottles** * Plain narrow mouth * no-drip pour lip * solid glass stopper to fit securely * autoclavable & sterilizable * with clear graduations 100 ml capacity 250 ml capacity 200 ml capacity 35	4		4	<u>8</u>				
Reagent Bottles ★ plain narrow mouth ★ no-drip pour lip ★ solid glass stopper to fit securely ★ autoclavable & sterilizable ★ with clear graduations 100 ml capacity 20 250 ml capacity 24 1000ml capacity 24 1000ml capacity 6 2000ml capacity 6 2000ml capacity 6 ★ Of food grade plastic ★ large labelling field ★ complete with screw cap and pouring ring 35 250 ml capacity 35 500 ml capacity 35 250 ml capacity 15 2000ml capacity 8 2000ml capacity 8		⋆ Normal Desiccators ⋆ size 160 mm ⋆ for use with Disposable or Reusable Desiccant ⋆ complies with IS 6128 : specification for desiccators						
 * plain narrow mouth * no-drip pour lip * solid glass stopper to fit securely * autoclavable & sterilizable * with clear graduations 100 ml capacity 500 ml capacity 500 ml capacity 2000ml capacity 2000ml capacity 8 8 1000ml capacity 6 8 8 1000ml capacity 6 8 1000ml capacity 10 2000ml capacity 200 ml capacity 250 ml capacity 8 75 75 76 75 76 77 78 79 70 70	4							
100 ml capacity 250 ml capacity 250 ml capacity 1000ml capacity 2000ml capacity ★ Of food grade plastic ★ large labelling field ★ complete with screw cap and pouring ring 250 ml capacity 500 ml capacity 500 ml capacity 1000ml capacity 250 ml capacity		* plain narrow mouth * no-drip pour lip * solid glass stopper to fit securely * autoclavable & sterilizable * with clear graduations						
250 ml capacity 500 ml capacity 1000ml capacity 24 1000ml capacity 2000ml capacity ★ Of food grade plastic ★ large labelling field ★ complete with screw cap and pouring ring 250 ml capacity 500 ml capacity 1000ml capacity 2600ml capacity 27 28 29 2000ml capacity 29 2000ml capacity		100 ml capacity	20	O				
500 ml capacity 24 1000ml capacity 10 2000ml capacity 6 * Of food grade plastic * large labelling field * complete with screw cap and pouring ring 35 250 ml capacity 35 1000ml capacity 15 2000ml capacity 8 Test Tubes 8		250 ml capacity	35	No.				
1000ml capacity 2000ml capacity Sample Bottles * Of food grade plastic * large labelling field * complete with screw cap and pouring ring 250 ml capacity 1000ml capacity 2000ml capacity 250 ml capacity		500 ml capacity	24	No.				
2000ml capacity Sample Bottles * Of food grade plastic * large labelling field * complete with screw cap and pouring ring 250 ml capacity 500 ml capacity 1000ml capacity 2000ml capacity 8 Test Tubes		1000ml capacity	10	No.				
Sample Bottles ★ Of food grade plastic ★ large labelling field ★ complete with screw cap and pouring ring 35 250 ml capacity 35 500 ml capacity 35 1000ml capacity 8 Test Tubes 8		2000ml capacity	ၑ	No.				
* Of food grade plastic * large labelling field * complete with screw cap and pouring ring 250 ml capacity 500 ml capacity 1000ml capacity 2000ml capacity Test Tubes	4							
250 ml capacity 35 500 ml capacity 35 1000ml capacity 15 2000ml capacity 8 Test Tubes 8								
500 ml capacity 35 1000ml capacity 15 2000ml capacity 8 Test Tubes 8		250 ml capacity	35	No.				
1000ml capacity 15 2000ml capacity 8 Test Tubes 8		500 ml capacity	35	No.				
2000ml capacity 8 Test Tubes		1000ml capacity	15	No.				
\dashv	- >	2000ml capacity	∞	Š.				
	4	\vdash						

Line				Final (Project	Delive (Bid	Delivery (as per Incoterms) Date (Bid Security in INR36,000,00)	
No.		Quantity	Physical unit	Destination as specified in BDS	Earliest Delivery Date	Latest Delivery Date	
	* without rim * flat bottom - Approx O.D. x Length in mm - 12x75	-	No.				
	Packet of 100 -						0.0
47	Durham tubes						
	* Neutral glass * round bottom * autoclavable * very clear & transparent * straight rim	300	No.				
48	Round bottom flasks						-
	* Round bottom support						
	250 ml capacity	80	No				_
49	Measuring cylinders						_
	* graduated * with pour spouts to facilitate pouring without any drips * prominent graduations * broad base for stability						
	10 ml	ဖ	Š				+
	50 ml	မ	Š				+-
	100 ml	ဖ	No.				-
	250 ml	မ	No.				-
	500 ml	မ	No				-
	1000ml	9	No.				-
	2000ml	m	Š				-
20	Measuring flasks						-
	* with inter changeable solid glass stoppers * each flask engraved with individual serial number						
	5 ml	S)	9				-
	10 ml	10	Š.				-
	25 ml	9	Ņ				-
	50 ml	10	Š				_
	100 ml	10	S.				_
	250 ml	10	Š				_
	500 ml	10	No.				_
1/2/	1000 ml	Ŋ	No.				-
5,	Funnels						-

Section VII . Schedule of Requirements

				Final (Project	Deliv	Delivery (as per Incoterms) Date	rms) Date
Line	Description of Goods	Quantity	Physical	Site) Destination as	(Bid	(Bid Security in INR36,000.00) Bidde	5,000.00) Bidder's offered
NO.				specified in BDS	Delivery Date	Delivery Date	be provided by the bidderl
	75 mm diameter	ည	Š.				
	100 mm diameter	ည	No.				
	125 mm diameter	2	Š				
52	Porcelain dish						
	Medium size	10	Š				
L.	Large size	9	Š				
53	Crucibles	∞	8				
54	Wash bottles	ဖ	Š				
22	Standard joints						
	Grouted	24	No.				
	Bends	12	Š				
56	Glass rods		12				
	(Packet of 50)	-	Š				
57	Petri Dishes						
	* Diameter ~ 75 mm	100	No				
58	Nessler Cylinders						
	* Graduated * maximum clarity						
	50 ml capacity	20	No.				
	100 ml capacity	20	No.				
59	Thermometers						
	* accuracy up to ± 0.2 to ±0.5 °C * resolution – 0.1°C * usage of Min/ Max/ Hold buffon *						
	100°C	2	Š				
	200°C	2	Š				
	500°C	-	Š				
09	Separating Flask						
	* Capacity - ml * Stopper at top to fit tightly * Stop cock at bottom to be well sealed	10	No.				
61	Stonner Rottles for dissolved Oxygen						

ā				Final (Project	Delive (Bid	Delivery (as per Incoterms) Date (Bid Security in INR36,000.00)	rms) Date 5,000.00)
No.	Description of Goods	Quantity	Physical unit	Destination as specified in BDS	Earliest Delivery Date	Latest Delivery Date	Bidder's offered Delivery date [to be provided by the bidder]
	* Each bottle and its stopper marked with a unique matching identification number	2	No.				



		Lot 2: Project District - Morigaon	ect Distric	t - Moriga	uou			
	9				Final (Project	Delive (Bid	Delivery (as per Incoterms) Date (Bid Security in INR40,000.00)	rms) Date
	No.	Description of Goods	Quantity	Physical unit	Site) Destination as specified in BDS	Earliest Delivery Date	Latest Delivery Date	Bidder's offered Delivery date [to be provided by the bidder]
					Morigaon, Assam, India	30 days from the date of issue of Notice to	60 days from the date of issue of Notice to	
						Proceed	Proceed	
	_	Digital pH meter						
		to National Accreditation Board for						
		Calibration Laboratories (NABL) & National Institute of Standards & Technology (NIST) quidelines + quidomatic						
		electrode recognisation * built in GLP function * graphic LCD						
		display of pH, ORP readings, temperature, electrode status,						
		calibration points, battery life, date and time * hard & waterproof						
		casing * Help Menu * pH Range: 0-14 pH * resolution: 0.01pH						
		H \star calibration point: Up to 5 \star E						
		compensation						
		software * USB cable for PC connection* rechargeable						
		batteries & battery charger						
		Fortable printerer						
		* Interception calculation water buffer Recognition choice of 1194 + NIST or pure water buffer						
		standards with ±0.01 pH accuracy * Automatic Temperature						
/		unction n						
No.		reading for easy viewing and recording * Auto-Power Off saves	~	Š				
راد		battery power after non-use * Self-Diagnostic with message						
4V		codes for easy troubleshooting * Large Custom LCD provides						
P,		optimum viewing even at a distance * Protective Rubber Boot						
AS		-						
2		built-iii stand for easy bencit-top operation * Kugged Carryllig						

Case (Optional) provides handy on-site meter calibration and measurement. Technical specification: * pH Range - 0.00 to 14.00 pH * Resolution & Accuracy- 0.01 pH & ± 0.01 pH * Resolution & Accuracy- 0.01 pH & ± 0.01 pH * Range - 1000 to 14.00 pH * Resolution & Accuracy- 0.01 pH & ± 0.01 pH * Resolution & Accuracy- 0.01 pH & ± 0.01 pH * Resolution & Accuracy- 0.01 pH & ± 0.01 pH * Resolution & Accuracy- 0.01 pH & ± 0.01 pH * Resolution & Accuracy- 0.01 pH & ± 0.01 pH * Resolution & Accuracy- 0.01 pH & ± 0.01 pH * Resolution & Accuracy- 1 mV & ± 1 mV * Temperature Compensation-Automatic / Manual (0 to 100 * C) * The unit should be supplied with (i) Microprocessor based pH Meter with Single Junction pH = Electrode (ii) ATC Probe & pH Carrying Kit Set (Includes at least 1 x pH 4.01, (iii) pH 7.00 Buffer solution, (iv) Storage Solution & 1 x pH 4.01, (iii) pH 7.00 Buffer solution pH 4.01 (red coloured), (ivi) operating manual, carrying case. Digital TDS meter * Conforms to NABL & NIST guidelines * displays Conductivity, TDS and Temperature * automatic electrode recognization* built in GLP function * up to 1000 samples data set storage * range - 1 µS/cm to 200 mS/cm * windows Compatible software * USB cable for PC connection Lab based Digital TDS meter * Lange screen that displays Conductivity or TDS readings with Temperature in "C * Ready indicator to know when readings are stable * Selectable cell constant * Automatic and putton Conductivity and TDS ranges * Usb of 5-tonit push button	Line				Final (Project	Delive (Bid	Delivery (as per Incoterms) Date (Bid Security in INR40,000.00)	erms) Date 0,000.00)
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* mV Range -1000 to + 1000 mV * Resolution & Accuracy - 1 mV & ± 1 mV * Temperature Compensation-Automatic / Manual (0 to 100 °C) * No. of Calibration Points - Up to 5 points The unit should be supplied with (i) Microprocessor based pH Meter with Single Junction pH Electrode, (ii) ATC Probe & pH Carrying Kit Set (Includes at least 1 x pH 4.01, (iii) pH 7.00 Buffer Solutions, (iv) Storage Solution & 1 x Deionised (Rinse) Water (60 ml Each), (v) 480 ml each of colour coded standard buffer solution pH 4.01 (red coloured), (vi) pH 7.00 (Yellow coloured) & pH 10.01 (Blue coloured), (vii) operating manual, carrying case. Digital TDS meter * Conforms to NABL & NIST guidelines * displays Conductivity, TDS and Temperature * automatic electrode recognization * built in GLP function * up to 1000 samples data set storage * range - 1 µS/cm to 200 mS/cm * windows compatible software * USB cable for PC connection Lab based Digital TDS meter * Large screen that displays Conductivity or TDS readings with Temperature in °C * Ready indicator to know when readings are stable * Selectable cell constant * Auto-ranging across Conductivity and TDS ranges * Up to 5-boint push button		* Temperature Range - 0 to 100.0 °C Resolution & Accuracy-01 °C & + 0.5 °C						
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* Temperature Compensation-Automatic / Manual (0 to 100 °C) * No. of Calibration Points - Up to 5 points The unit should be supplied with (i) Microprocessor based pH Meter with Single Junction pH Electrode, (ii) ATC Probe & pH Carrying Kit Set (Includes at least 1 x pH 4.01, (iii) pH 7.00 Buffer Solutions, (iv) Storage Solution & 1 x Deionised (Rinse) Water (60 ml Each), (v) 480 ml each of colour coded standard buffer solution pH 4.01 (red coloured), (vi) pH 7.00 (Yellow coloured) & pH 10.01 (Blue coloured), (vii) operating manual, carrying case. Digital TDS meter * Conforms to NABL & NIST guidelines * displays Conductivity, TDS and Temperature * automatic electrode recognization * built in GLP function * up to 1000 samples data set storage * range - 1 µS/cm to 200 mS/cm * windows compatible software * USB cable for PC connection Lab based Digital TDS meter * Large screen that displays Conductivity or TDS readings with Temperature in °C * Ready indicator to know when readings are stable * Selectable cell constant * Auto-ranging across Conductivity and TDS ranges * Up to 5-boint push button		* Resolution & Accuracy - 1 mV & ± 1 mV						
* No. of Calibration Points - Up to 5 points The unit should be supplied with (i) Microprocessor based pH Meter with Single Junction pH Electrode, (ii) ATC Probe & pH Carrying Kit Set (Includes at least 1 x pH 4.01, (iii) pH 7.00 Buffer Solutions, (iv) Storage Solution & 1 x Deionised (Rinse) Water (60 ml Each), (v) 480 ml each of colour coded standard buffer solution pH 4.01 (red coloured), (vi) pH 7.00 (Yellow coloured) & pH 10.01 (Blue coloured), (vii) operating manual, carrying case. Digital TDS meter * Conforms to NABL & NIST guidelines * displays Conductivity, TDS and Temperature * automatic electrode recognization * built in GLP function * up to 1000 samples data set storage * range - 1 µS/cm to 200 mS/cm * windows compatible software * USB cable for PC connection Lab based Digital TDS meter * Large screen that displays Conductivity or TDS readings with Temperature in °C * Ready indicator to know when readings are stable * Selectable cell constant * Auto-ranging across Conductivity and TDS ranges * Up to 5-boint push button		* Temperature Compensation-Automatic / Manual (0 to 100 °C)						
The unit should be supplied with (i) Microprocessor based pH Meter with Single Junction pH Electrode, (ii) ATC Probe & pH Carrying Kit Set (Includes at least 1 × pH 4.01, (iii) pH 7.00 Buffer Solutions, (iv) Storage Solution & 1 × Deionised (Rinse) Water (60 ml Each), (v) 480 ml each of colour coded standard buffer solution pH 4.01 (red coloured), (vi) pH 7.00 (Yellow coloured) & pH 10.01 (Blue coloured), (vii) operating manual, carrying case. Digital TDS meter * automatic electrode * Conforms to NABL & NIST guidelines * displays Conductivity, TDS and Temperature * automatic electrode recognization * built in GLP function * up to 1000 samples data set storage * range - 1 µS/cm to 200 mS/cm * windows compatible software * USB cable for PC connection Lab based Digital TDS meter * Large screen that displays Conductivity or TDS readings with Temperature in °C * Ready indicator to know when readings are stable * Selectable cell constant * Auto-ranging across Conductivity and TDS ranges * Up to 5-boint bush button		* No. of Calibration Points - Up to 5 points						
Meter with Single Junction pH Electrode, (ii) ATC Probe & pH Carrying Kit Set (Includes at least 1 × pH 4.01, (iii) pH 7.00 Buffer Solutions, (iv) Storage Solution & 1 × Deionised (Rinse) Water (60 ml Each), (v) 480 ml each of colour coded standard buffer solution pH 4.01 (red coloured), (vi) pH 7.00 (Yellow coloured) & pH 10.01 (Blue coloured), (vii) operating manual, carrying case. Lap meter * Conforms to NABL & NIST guidelines * displays Conductivity, TDS and Temperature * automatic electrode recognization * built in GLP function * up to 1000 samples data set storage * range - 1 µS/cm to 200 mS/cm * windows compatible software * USB cable for PC connection Lab based Digital TDS meter * Large screen that displays Conductivity or TDS readings with Temperature in °C * Ready indicator to know when readings are stable * Selectable cell constant * Auto-ranging across Conductivity and TDS ranges * Up to 5-point push button		The unit should be supplied with (i) Microprocessor based pH						
Carrying Kit Set (Includes at least 1 x pH 4.01, (iii) pH 7.00 Buffer Solutions, (iv) Storage Solution & 1 x Deionised (Rinse) Water (60 ml Each), (v) 480 ml each of colour coded standard buffer solution pH 4.01 (red coloured), (vi) pH 7.00 (Yellow coloured) & pH 10.01 (Blue coloured), (vii) operating manual, carrying case. Digital TDS meter * Conforms to NABL & NIST guidelines * displays Conductivity, TDS and Temperature * automatic electrode recognization * built in GLP function * up to 1000 samples data set storage * range - 1 µS/cm to 200 mS/cm * windows compatible software * USB cable for PC connection Lab based Digital TDS meter * Large screen that displays Conductivity or TDS readings with Temperature in °C * Ready indicator to know when readings are stable * Selectable cell constant * Auto-ranging across Conductivity and TDS ranges * Up to 5-point push button		Meter with Single Junction pH Electrode, (ii) ATC Probe & pH						
Water (60 ml Each), (v) 300 age Solution & 1 x Defonised (Miles) Water (60 ml Each), (v) 480 ml each of colour coded standard buffer solution pH 4.01 (red coloured), (vii) pH 7.00 (Yellow coloured) & pH 10.01 (Blue coloured), (vii) operating manual, carrying case. Digital TDS meter * Conforms to NABL & NIST guidelines * displays Conductivity, TDS and Temperature * automatic electrode recognization * built in GLP function * up to 1000 samples data set storage * range - 1 µS/cm to 200 mS/cm * windows compatible software * USB cable for PC connection Lab based Digital TDS meter * Large screen that displays Conductivity or TDS readings with Temperature in °C * Ready indicator to know when readings are stable * Selectable cell constant * Auto-ranging across Conductivity and TDS ranges * Up to 5-point push button		Carrying Kit Set (includes at least 1 x pH 4.01, (iii) pH 7.00 Buffer Solutions (iv) Storage Solution 8.1 x Delanical (Binca)						
buffer solution pH 4.01 (red coloured), (vi) pH 7.00 (Yellow coloured) & pH 10.01 (Blue coloured), (vii) operating manual, carrying case. Digital TDS meter * Conforms to NABL & NIST guidelines * displays Conductivity, TDS and Temperature * automatic electrode recognization * built in GLP function * up to 1000 samples data set storage * range - 1 µS/cm to 200 mS/cm * windows compatible software * USB cable for PC connection Lab based Digital TDS meter * Large screen that displays Conductivity or TDS readings with Temperature in °C * Ready indicator to know when readings are stable * Selectable cell constant * Auto-ranging across Conductivity and TDS ranges * Up to 5-point push button		Water (60 ml Fach) (v) 480 ml each of colour coded standard						
coloured) & pH 10.01 (Blue coloured), (vii) operating manual, carrying case. Digital TDS meter * Conforms to NABL & NIST guidelines * displays Conductivity, TDS and Temperature * automatic electrode recognization * built in GLP function * up to 1000 samples data set storage * range - 1 µS/cm to 200 mS/cm * windows compatible software * USB cable for PC connection Lab based Digital TDS meter * Large screen that displays Conductivity or TDS readings with Temperature in °C * Ready indicator to know when readings are stable * Selectable cell constant * Auto-ranging across Conductivity and TDS ranges * Up to 5-point push button		buffer solution pH 4.01 (red coloured), (vi) pH 7.00 (Yellow						
carrying case. Digital TDS meter * Conforms to NABL & NIST guidelines * displays Conductivity, TDS and Temperature * automatic electrode recognization * built in GLP function * up to 1000 samples data set storage * range - 1 µS/cm to 200 mS/cm * windows compatible software * USB cable for PC connection Lab based Digital TDS meter * Large screen that displays Conductivity or TDS readings with Temperature in °C * Ready indicator to know when readings are stable * Selectable cell constant * Auto-ranging across Conductivity and TDS ranges * Up to 5-point push button		coloured) & pH 10.01 (Blue coloured), (vii) operating manual,						
* Conforms to NABL & NIST guidelines * displays Conductivity, TDS and Temperature * automatic electrode recognization * built in GLP function * up to 1000 samples data set storage * range - 1 µS/cm to 200 mS/cm * windows compatible software * USB cable for PC connection Lab based Digital TDS meter * Large screen that displays Conductivity or TDS readings with Temperature in °C * Ready indicator to know when readings are stable * Selectable cell constant * Auto-ranging across Conductivity and TDS ranges * Up to 5-point push button	1	carrying case.						
* Conforms to NABL & NIST guidelines * displays Conductivity, TDS and Temperature * automatic electrode recognization * built in GLP function * up to 1000 samples data set storage * range - 1 µS/cm to 200 mS/cm * windows compatible software * USB cable for PC connection Lab based Digital TDS meter * Large screen that displays Conductivity or TDS readings with Temperature in °C * Ready indicator to know when readings are stable * Selectable cell constant * Auto-ranging across Conductivity and TDS ranges * Up to 5-point push button	7							
Conductivity, 1 DS and Temperature * automatic electrode recognization * built in GLP function * up to 1000 samples data set storage * range - 1 µS/cm to 200 mS/cm * windows compatible software * USB cable for PC connection * Lab based Digital TDS meter * Large screen that displays Conductivity or TDS readings with Temperature in °C * Ready indicator to know when readings are stable * Selectable cell constant * Auto-ranging across Conductivity and TDS ranges * Up to 5-point push button		* Conforms to NABL & NIST guidelines * displays						
set storage * range - 1 µS/cm to 200 mS/cm * windows compatible software * USB cable for PC connection Lab based Digital TDS meter * Large screen that displays Conductivity or TDS readings with Temperature in °C * Ready indicator to know when readings are stable * Selectable cell constant * Auto-ranging across Conductivity and TDS ranges * Up to 5-point push button		recognization * built in GI P function * In to 1000 samples data						
compatible software * USB cable for PC connection Lab based Digital TDS meter * Large screen that displays Conductivity or TDS readings with Temperature in °C * Ready indicator to know when readings are stable * Selectable cell constant * Auto-ranging across Conductivity and TDS ranges * Up to 5-point push button		set storage * range - 1 µS/cm to 200 mS/cm * windows						
*Lab based Digital TDS meter * Large screen that displays Conductivity or TDS readings with Temperature in °C * Ready indicator to know when readings are stable * Selectable cell constant * Auto-ranging across Conductivity and TDS ranges * Up to 5-point push button		compatible software * USB cable for PC connection						
-	(a)							
_		* Large screen that displays Conductivity or TDS readings with						
Conductivity and TDS ranges * Up to 5-point push button		temperature in 'C * Ready Indicator to know when readings are stable * Selectable cell constant * Auto-randing across	-	No.				
The state of the s		Conductivity and TDS ranges * Up to 5-point push button						

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		Lot 2: Project District - Morigaon	t District	Moriga	on				
H	Line				Final (Project	Delive (Bid	Delivery (as per Incoterms) Date (Bid Security in INR40,000.00)	ттs) Date ,000.00)	
,	No.	Description of Goods	Quantity	Physical unit	Destination as specified in BDS	Earliest Delivery Date	Latest Delivery Date	Bidder's offered Delivery date [fo be provided by the bidder]	
		calibration * Non-volatile memory holds up to 100 data points * Should have Internal electrode							1
		cal specification:							
		* Conductivity Range-liS to 200.0 mS							
		* Resolution-0.01 / 0.1 / 1 j/S; 0.01 / 0.1 mS							
		* Accuracy- ±1 % full scale * Cal. Points-Up to 5 Cell Constant-0.1, 1.0, 10.0 (selectable)							
		/ 0.1 ppt							
		* Accuracy-± 1 % full scale							
		* Cal. Points-Manual (5 points)							
_		* Temperature Range (Meter)-O.O to 100.0 °C							
		* Resolution-0.1 °C							
		* Accuracy-± 0.5 °C							
		* Compensation Type & Range-Automatic with supplied cell or							
		Harinai 0.0 to 100 C							
		The Instrument should be supplied with (i) Meter with Conductivity/ATC Probe (ii) Integral Flectrode Holder (iii)							
		Power Adapter. (iv) Electrode Holder. (v) Operating Manual 480							
		ml pack of Calibration standard of 1413 µS/cm.							
	(q)	Portable Digital TDS meter							_
		10							
		full scale accuracy * Automatic or Manual Calibration - for							
		quick, easy calibration; use automatic mode * with pre-set							
1		in the manual mode for more flexibility * Auto-Ranging for	-	Ž					
7		ው							
INF		resolution over wide measurement range * Adjustable TDS Eactor for more acquirate measurement (for TDS 6 model only)							
A		* Automatic Temperature Compensation (ATC) for the optimum							
5		accuracy under fluctuating temperatures * Hold Function							7

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Line	40			Final (Project	Deliv (Bid	Delivery (as per Incoterms) Date (Bid Security in INR40,000.00)	erms) Date 10,000.00)	
No.	m Description of Goods	Quantity	Physical unit	Destination as specified in BDS	Earliest Delivery Date	Latest Delivery Date	Bidder's offered Delivery date [to be provided by the hidder]	offered ate [to led by
	momentarily freezes reading for easy viewing * Auto-Power Off saves battery power after non-use * Self-Diagnostic with							
	message codes for easy troubleshooting * Large Custom LCD							
	provides optimum viewing even at a distance * Electrode with Built-in ATC designed for minimal air hubble entranment during							
	measurement * Protective Rubber Boot shields meter from							
	drops and features a sturdy built-in stand for easy bench-top							
	Technical specifications:							
	* TDS Range-0.00 - 9.99 ppm / 10.0 - 99.9 ppm/ 100 - 999							
	* Resolution-0.05 % full scale Accuracy-±1 % of full scale ±1							
	LSD							
	* TDS Factor-0.30 to 1.00							
	* Temperature Range-0.0 to 80.0 °C							
	* Nesoural							
_	* Compensation Automatic/Manual (0 to 80 °C)							
	rmalization 20.0 or 25.0 °C Operating Temperature-							
	45°C							
	* Calibration Points-4 (1 per range) auto, 5(1 per range)							
	* CellConstant-0.1 1.0 10.0 Auto-Off-20 min after last key							
	pressed							
	* Input-BNC, 2.5 mm phono socket Power-4 x 1.5 V 'AAA'							
	alkaline batteries to be included							
	The meter should be supplied with (i) Basic meter with							
<	onductivity electrode with cell constant 1.0, (ii) TDS calibration							
1	solutions (50 ppm, 300 ppm, 3000 ppm), (iii) DI rinse water (60							
NA	mL each), (iv) Grip-Clip, (v) batteries in hard carrying case, (vi)							
5,	operating manuar & 460 mi or 300 ppm 1 DS calibration solution.							

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	9				Final (Project	Delive (Bid	Delivery (as per Incoterms) Date (Bid Security in INR40,000.00)	rms) Date),000.00)
1 = 2	No.	Description of Goods	Quantity	Physical unit	Shery Destination as specified in BDS	Earliest Delivery Date	Latest Delivery Date	Bidder's offered Delivery date [to be provided by the bidder]
	က	Refrigerator						
		* Capacity- 300 L * frost free * 5 star rating * double door * freezer type - top freezer * in built inverter	-	NO.				
	4	Water still						
		* Distillation Unit made of Stainless steel * capacity 5 litre/ hour * wall mounting model – equipped with brackets for wall mounting * to work on 220- 230 volts AC supply	-	No.				
	2	Voltage stabilizer						
		★ Capacity- 3 KVA * servo stabilizer * 5 star rating	_	S.				
Ĺ	ဖ	UPS/ Inverter						
		* capacity- 3 KVA * 5 star rating * 6 hrs backup * with battery	-	No.				
	7	Hot plate						
		* Body to be fabricated out of thick mild steel sheet, duly						
		finished in epoxy powder coated * The Hot Plate top to be made						
		of Stainless steel thick sheet & smoothed duly finished should						
		be firmly mounted on the body * Heavy duty heating elements should be securely laid under the plate to operate on 220/230V						
		AC supply * Temperature in controlled by energy regulators	2	Š.				
		fitted with an indicator lamp for the mains * To be supplied with						
		main cord and plug.						
		Technical Specifications:						
		* Top plate size: 30 x 45cm						
		* Load: 2 KW						
	œ	Laboratory Heating mantel						
		with special Illineral wool × The panel should be provided with						
		provided with joint-less hand knitted heating nets of glass yarn	_	No.				
-		capable of withstanding high temperature up to 400°C.						
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e of Requ
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VII. S
Section

of Goods ith cord & plug to work on made of MS sheet * SS lids ovable concentric rings * The Is should be filled with Special amperature control from +5°C twould be filled with Capillary ale dial for temperature control C ± 1°C (at 50°C). alled with outer body made of greasing & rust proofing duly er is to be made of Stainless Steel Wire inner chamber and outer wall ineral wool as insulation * The ave synthetic rubber / fibre ation slides on two sides to on * To be fitted with beaded to on * To be fitted with in-built L-type capillary with in-built L-type capillary to reduce temperature			Lot 2: Project District - Morigaon	ect Distric	t - Moriga	uo			
* To be supplied complete with cord & plug to work on 220/230V AC supply a Capacity: 500 ml b) Capacity: 500 ml b) Capacity: 500 ml capacity: 500 ml capacity: 500 ml b) Capacity: 1000 ml capacity: 500 ml capaci		Line				Final (Project	Delive (Bid	Delivery (as per Incoterms) Date (Bid Security in INR40,000.00)	rms) Date),000.00)
* To be supplied complete with cord & plug to work on 220/230V AC supply a) Capacity: 500 ml b) Capacity: 1000 ml Water Bath - Thermostatic * The unit should be of double walled construction, argon Welded, and inner & outer wall made of MS sheet * SS lids having 75mm dia. holes with removable concentric rings * The gap between outer and inner walls should be filled with special grade glass wool insulation * Temperature control from +5°C above ambient to 99°C ± 1°C (at 50°C). Hot air oven - Standard make * The unit should be of double walled with outer body made of from +5°C above ambient to 99°C ± 1°C (at 50°C). Hot air oven - Standard make * The unit should be of double walled with outer body made of Mild Steel Sheet (304 Grade) with adjustable Stainless-Steel Wire Mesh shelves * Space between inner chamber and outer wall should be filled with high grade mineral wood as insulation * The Double Walled Door should have synthetic rubber / fibre gasket. Unit should have ventilation slides on two sides to control inner air/ vapour circulation * To be fitted with beaded heating elements placed in ribs, at bottom and sides for uniform heat distribution. To work on 220/230 volts AC supply. Technical Specifications: * Temperature control-By capillary type thermostat with arbitrary scale dial for temperature control from +5°C ambient to 250°C ± 2°C at 100°C and with in-built L-type capillary thermometer & energy regulator to reduce temperature		No.		Quantity	Physical unit	Destination as specified in BDS	Earliest Delivery Date	Latest Delivery Date	Bidder's offered Delivery date [to be provided by the bidder]
Water Bath - Thermostatic * The unit should be of double walled construction, argon Walded, and inner & outer wall made of MS sheet * SS lids having 75mm dia. holes with removable concentric rings * The gap between outer and inner walls should be filled with special grade glass wool insulation * Temperature control from +5°C above ambient to 99°C * The unit would be filled with Capillary type Thermostat with arbitrary scale dial for temperature control from +5°C above ambient to 99°C ± 1°C (at 50°C). Hot air oven - Standard make * The unit should be of double walled with outer body made of Mild Steel Sheet treated for degreasing & rust proofing duly powder coated and inner chamber is to be made of Stainless Steel Sheet (304 Grade) with adjustable Stainless-Steel Wire Mesh shelves * Space between inner chamber and outer wall should be filled with high grade mineral wool as insulation * The Double Walled Door should have synthetic rubber / fibre gasket. Unit should have ventilation * To be fitted with beaded heating elements placed in ribs, at bottom and sides for uniform heat distribution. To work on 220/230 volts AC supply. Technical Specifications: * Temperature control-By capillary type thermostat with arbitrary scale dial for temperature control from +5°C ambient to 250°C ± 2°C at 100°C and with in-built L-type capillary thermometer & energy regulator to reduce temperature			To be supplied complete with cord & plug to work 20/230V AC supply Capacity: 500 ml						
* The unit should be of double walled construction, argon Welded, and inner & outer wall made of MS sheet * SS lids having 75mm dia. holes with removable concentric rings * The gap between outer and inner walls should be filled with special grade glass wool insulation * Temperature control from +5°C above ambient to 99°C * The unit would be fitted with Capillary type Thermostat with arbitrary scale dial for temperature control from +5° C above ambient to 99°C ± 1°C (at 50°C). Hot air oven - Standard make * The unit should be of double walled with outer body made of Mild Steel Sheet treated for degreasing & rust proofing duly powder coated and inner chamber is to be made of Stainless Steel Wire Mesh shelves * Space between inner chamber and outer wall should be filled with high grade mineral wool as insulation * The Double Walled Door should have synthetic rubber / fibre gasket. Unit should have ventilation sides on two sides to control inner air/ vapour circulation * To be fitted with beaded heating elements placed in ribs, at bottom and sides for uniform heat distribution. To work on 220/230 volts AC supply. Technical Specifications: * Temperature control-By capillary type thermostat with arbitrary scale dial for temperature control from +5° C ambient to 250°C ± 2°C at 100°C and with in-built L-type capillary thermometer & energy regulator to reduce temperature	- 1	o	b) Capacity: 1000 ml Water Bath - Thermostatic						
having 75mm dia. holes with removable concentric rings * The gap between outer and inner walls should be filled with special grade glass wool insulation * Temperature control from +5°C above ambient to 99°C * The unit would be fitted with Capillary type Thermostat with arbitrary scale dial for temperature control from +5° C above ambient to 99°C ± 1°C (at 50°C). Hot air oven - Standard make * The unit should be of double walled with outer body made of Mild Steel Sheet treated for degreasing & rust proofing duly powder coated and inner chamber is to be made of Stainless Steel Sheet (304 Grade) with adjustable Stainless-Steel Wire Mesh shelves * Space between inner chamber and outer wall should be filled with high grade mineral wool as insulation * The Double Walled Door should have synthetic rubber / fibre gasket. Unit should have ventilation slides on two sides to control inner air/ vapour circulation * To be fitted with beaded heating elements placed in ribs, at bottom and sides for uniform heat distribution. To work on 220/230 volts AC supply. Technical Specifications: * Temperature control-By capillary type thermostat with arbitrary scale dial for temperature control from +5° C ambient to 250°C ± 2°C at 100°C and with in-built L-type capillary thermometer & energy regulator to reduce temperature	10		* The unit should be of double walled construction, argon Welded, and inner & outer wall made of MS sheet * SS lids						
grade glass wool insulation * Temperature control from +5°C above ambient to 99°C * The unit would be fitted with Capillary type Thermostat with arbitrary scale dial for temperature control from +5°C above ambient to 99°C ± 1°C (at 50°C). Hot air oven - Standard make * The unit should be of double walled with outer body made of Mild Steel Sheet treated for degreasing & rust proofing duly powder coated and inner chamber is to be made of Stainless Steel Sheet (304 Grade) with adjustable Stainless-Steel Wire Mesh shelves * Space between inner chamber and outer wall should be filled with high grade mineral wool as insulation * The Double Walled Door should have synthetic rubber / fibre gasket. Unit should have ventilation sides on two sides to control inner air/ vapour circulation * To be fitted with beaded heating elements placed in ribs, at bottom and sides for uniform heat distribution. To work on 220/230 volts AC supply. Technical Specifications: * Temperature control-By capillary type thermostat with arbitrary scale dial for temperature control from +5°C ambient to 250°C ± 2°C at 100°C and with in-built L-type capillary thermometer & energy regulator to reduce temperature			having 75mm dia. holes with removable concentric rings * The gap between outer and inner walls should be filled with special	7	=				
type Thermostat with arbitrary scale dial for temperature control from +5° C above ambient to 99° C ± 1° C (at 50° C). Hot air oven - Standard make * The unit should be of double walled with outer body made of Mild Steel Sheet treated for degreasing & rust proofing duly powder coated and inner chamber is to be made of Stainless Steel Sheet (304 Grade) with adjustable Stainless-Steel Wire Mesh shelves * Space between inner chamber and outer wall should be filled with high grade mineral wool as insulation * The Double Walled Door should have synthetic rubber / fibre gasket. Unit should have ventilation slides on two sides to control inner air/ vapour circulation * To be fitted with beaded heating elements placed in ribs, at bottom and sides for uniform heat distribution. To work on 220/230 volts AC supply. Technical Specifications: * Temperature control-By capillary type thermostat with arbitrary scale dial for temperature control from +5° C ambient to 250°C ± 2°C at 100°C and with in-built L-type capillary thermometer & energy regulator to reduce temperature			grade glass wool insulation * Temperature control from +5°C	-	o Z				
Hot air oven - Standard make * The unit should be of double walled with outer body made of Mild Steel Sheet treated for degreasing & rust proofing duly powder coated and inner chamber is to be made of Stainless Steel Sheet (304 Grade) with adjustable Stainless-Steel Wire Mesh shelves * Space between inner chamber and outer wall should be filled with high grade mineral wool as insulation * The Double Walled Door should have synthetic rubber / fibre gasket. Unit should have ventilation slides on two sides to control inner air/ vapour circulation * To be fitted with beaded heating elements placed in ribs, at bottom and sides for uniform heat distribution. To work on 220/230 volts AC supply. Technical Specifications: * Temperature control-By capillary type thermostat with arbitrary scale dial for temperature control from +5° C ambient to 250°C ± 2°C at 100°C and with in-built L-type capillary thermometer & energy regulator to reduce temperature			type Thermostat with arbitrary scale dial for temperature control						
er body made of last proofing duly lade of Stainless nless-Steel Wire er and outer wall sinsulation * The cubber / fibre on two sides to tted with beaded sides for uniform is supply. thermostat with themostat with m +5° C ambient L-type capillary ce temperature		19	Hot air oven - Standard make						
ust proofing duly lade of Stainless hless-Steel Wire er and outer wall sinsulation * The contwo sides to tted with beaded sides for uniform supply. Thermostat with thermostat with m +5° C ambient L-type capillary ce temperature			* The unit should be of double walled with outer body made of						
ade of Stainless nless-Steel Wire er and outer wall s insulation * The c rubber / fibre on two sides to tted with beaded sides for uniform supply. thermostat with thermostat with n +5° C ambient L-type capillary ce temperature			Mild Steel Sheet treated for degreasing & rust proofing duly						
er and outer wall sinsulation * The control of the			powder coated and inner chamber is to be made of Stainless Steel Sheet (304 Grade) with adjustable Stainless-Steel Wire						
s insulation * The c rubber / fibre on two sides to tted with beaded sides for uniform supply. thermostat with n +5° C ambient L-type capillary ce temperature			Mesh shelves * Space between inner chamber and outer wall						
on two sides to ted with beaded sides for uniform supply. thermostat with the supply. L-type capillary ce temperature			should be filled with high grade mineral wool as insulation * The						
tted with beaded sides for uniform supply. thermostat with m +5° C ambient L-type capillary ce temperature			Double walled Dool should have synthetic habel / libre qasket. Unit should have ventilation slides on two sides to						
heating elements placed in ribs, at bottom and sides for uniform heat distribution. To work on 220/230 volts AC supply. Technical Specifications: * Temperature control-By capillary type thermostat with arbitrary scale dial for temperature control from +5° C ambient to 250°C ± 2°C at 100°C and with in-built L-type capillary thermometer & energy regulator to reduce temperature				7	No.				
Technical Specifications: * Temperature control-By capillary type thermostat with arbitrary scale dial for temperature control from +5° C ambient to 250°C ± 2°C at 100°C and with in-built L-type capillary thermometer & energy regulator to reduce temperature			heating elements placed in ribs, at bottom and sides for uniform						
* Temperature control-By capillary type thermostat with arbitrary scale dial for temperature control from +5° C ambient to 250°C ± 2°C at 100°C and with in-built L-type capillary thermometer & energy regulator to reduce temperature			Technical Specifications:						
arbitrary scale dial for temperature control from +5° C ambient to 250°C ± 2°C at 100°C and with in-built L-type capillary thermometer & energy regulator to reduce temperature			* Temperature control-By capillary type thermostat with						
			arbitrary scale dial for temperature control from +5° C ambient to 250°C ± 2°C at 100°C and with in-built L-type capillary						
flictiation in higher temperature	_								

		Lot 2: Project District - Morigaon	ect Distri	ct - Moriga	non			
	line				Final (Project	Delive (Bid	Delivery (as per Incoterms) Date (Bid Security in INR40,000.00)	rms) Date ,000.00)
	No.	Description of Goods	Quantity	Physical unit	Destination as specified in BDS	Earliest Delivery Date	Latest Delivery Date	Bidder's offered Delivery date [to be provided by the bidder]
22.000		* Working chamber size: 450x450x600 mm (2 trays)-approximately 120 lit						
-	11	Bacteriological Incubator						
ěl a		* The unit should be double walled with outer body to be made of MS sheet treated for degreasing & rust proofing duly powder coated and inner chamber to be made of Stainless Steel (304 Grade) sheet * To be provided with adjustable Stainless Steel Wire Mesh / perforated shelves * Space between inner chamber and outer wall should be filled with high grade mineral wool for minimal heat loss * The Double Walled Door to be fitted with glass window to facilitate viewing inside chamber without disturbing the inner temperature and should be of synthetic rubber/fibre gasket. Unit should have ventilation slides on two sides to control inner air/ vapour circulation * To be fitted with beaded heating elements placed in ribs, at bottom and sides for uniform heat distribution. Unit has to be fitted with two lamps and ON / OFF switch * To work on 220/230 volts AC supply. * Technical Specifications: * Temperature control-By Digital Temperature Indicator-cum-Controller (with display for Set Value and Present Value) from +5° C ambient to 70°C, ± 0.5°C at 50°C. To be fitted with Air Circulating Fan to maintain uniform temperature throughout the working chamber. * Working chamber size: 459x450x600 mm (2 trays)-approximately 120 life	~	Ö				
	12	Autoclave						
NNP, AS	i Ne	*The outer chamber should be made of heavy gauge Stainless Steel Sheet duly polished * The inner chamber should be made of thick 304 Grade Stainless Steel Sheet. Lid should be made of thick machined high grade Stainless Steel plate * The unit should have Radial Locking arrangement made of high grade	7	o N				

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Line No. Stainless The unit Pressure Indicator, Automatic * The unit psi pressu welded gr Moulded j for leak p flange typ Control Bc Switch, Cc	Stainless Steel duly polished with paddle lifting mechanism * The unit has to be fitted with Spring Loaded Safety Valve, Pressure Gauge, Pressure Release Valve, water Level Indicator, Drain Valve, Automatic Pressure Control Switch, Automatic Low Water Cut-off Device & automatic interval timer * The unit should be hydraulically tested to withstand up to 40 psi pressure * All internal joints of the unit should be Argon arc welded ground and polished to give crevice free internals * Moulded joint-less Silicon Rubber Gasket has to be provided for leak proofing * The unit would be electrically heated by flange type/immersion type heaters. To be supplied with Control Box, fitted with Mains & Heating Indicators, ON / OFF Switch, Cord & Plug to work on 220/230V, 50Hz, AC supply * Morking Chamber size: 300 mm X 500 mm / 200 mm	Quantity	Physical unit	Final (Project Site) Destination as specified in BDS	Earlies Delivery I	Delivery (as per Incoterms) Date (Bid Security in INR40,000.00) State Latest Delivery Date Delivery Date be pro	Bidder's offered Delivery date [to be provided by the bidder]
	s Steel duly polished with paddle lifting mechanism * t has to be fitted with Spring Loaded Safety Valve, e Gauge, Pressure Release Valve, water Level r. Drain Valve, Automatic Pressure Control Switch, itic Low Water Cut-off Device & automatic interval timer hit should be hydraulically tested to withstand up to 40 sure * All internal joints of the unit should be Argon arc ground and polished to give crevice free internals * I joint-less Silicon Rubber Gasket has to be provided proofing * The unit would be electrically heated by spe/immersion type heaters. To be supplied with Box, fitted with Mains & Heating Indicators, ON / OFF Cord & Plug to work on 220/230V, 50Hz, AC supply * Cord & Plug to work on 220/230V, form of Angelogical Planck States and Cond & Plug to work on 220/230V, form of Angelogical Planck States and Cond & Plug to work on 220/230V, form of Angelogical Planck States and Cond & Plug to work on 220/230V, form of Angelogical Planck States and Cond & Plug to work on 220/230V, form of Angelogical Planck States and Cond & Plug to work on 220/230V, form of Angelogical Planck States and Cond & Plug to work on 220/230V, form of Angelogical Planck States and Cond & Plug to work on 220/230V, form of Angelogical Planck States and Cond St	Quantity	Physical unit	Destination as specified in BDS		Latest Delivery Date	Bidder's offere Delivery date [to be provided by the bidder]
Stainless The unit I Pressure Indicator, Automatic * The unit psi pressure welded gr Moulded j for leak p flange tyl Control B Switch, C Working c III).	s Steel duly polished with paddle lifting mechanism * t has to be fitted with Spring Loaded Safety Valve, e Gauge, Pressure Release Valve, water Level, t. Drain Valve, Automatic Pressure Control Switch, lic Low Water Cut-off Device & automatic interval timer nit should be hydraulically tested to withstand up to 40 sure * All internal joints of the unit should be Argon arc ground and polished to give crevice free internals * i joint-less Silicon Rubber Gasket has to be provided proofing * The unit would be electrically heated by ype/immersion type heaters. To be supplied with Box, fitted with Mains & Heating Indicators, ON / OFF Cord & Plug to work on 220/230V, 50Hz, AC supply * Cord & Plug to work on 220/230V,						
Pressure Indicator, Automatic * The unit psi pressu welded gr Moulded j for leak p flange tyl Control & Switch, & Switch, & Working c lift).	Gauge, Pressure Release Valve, water Level Tr. Drain Valve, Automatic Pressure Control Switch, lic Low Water Cut-off Device & automatic interval timer nit should be hydraulically tested to withstand up to 40 sure * All internal joints of the unit should be Argon arc ground and polished to give crevice free internals * I joint-less Silicon Rubber Gasket has to be provided proofing * The unit would be electrically heated by ype/immersion type heaters. To be supplied with Box, fitted with Mains & Heating Indicators, ON / OFF Cord & Plug to work on 220/230V, 50Hz, AC supply * Chan & Supply * Cord & Plug to work on 220/230V, 50Hz, AC supply * Chan & Caupply * Cord & Plug to work on 220/230V, 50Hz, AC supply * Chan & Caupply * Cord & Plug to work on 220/230V, 50Hz, AC supply * Chan & Caupply * Cord & Plug to work on 220/230V, 50Hz, AC supply * Chan & Caupply * Cord & Plug to work on 220/230V, 50Hz, AC supply * Chan & Caupply * Cord & Plug to work on 220/230V, 50Hz, AC supply * Chan & Caupply * Cord & Plug to work on 220/230V, 50Hz, AC supply * Cord & Plug to work on 220/230V, 50Hz, AC supply * Cord & Plug to work on 220/230V, 50Hz, AC supply * Cord & Plug to work on 220/230V, 50Hz, AC supply * Cord & Plug to work on 220/230V, 50Hz, AC supply * Cord & Plug to work on 220/230V, 50Hz, AC supply * Cord & Plug to work on 220/230V, 50Hz, AC supply * Cord & Plug to work on 220/230V, 50Hz, AC supply * Cord & Plug to work on 220/230V, 50Hz, AC supply * Cord & Cord & Plug to work on 220/230V, 50Hz, AC supply * Cord & Plug to work on 220/230V, 50Hz, AC supply * Cord & Plug to work on 220/230V, 50Hz, AC supply * Cord & Plug to work on 220/230V, 50Hz, AC supply * Cord & Plug to work on 220/230V, 50Hz, AC supply * Cord & Plug to work on 220/230V, 50Hz, AC supply * Cord & Plug to work on 220/230V, 50Hz, AC supply * Cord & Plug to work on 220/230V, 50Hz, AC supply * Cord & Plug to work on 220/230V, 50Hz, AC supply * Cord & Plug to work on 220/230V, 50Hz, AC supply * Cord & Plug to work on 220/230V, 50Hz, AC supply * Cord & Plug to w						
Automatic, * The unit psi pressu welded gr Moulded j for leak p flange tyf Control B Switch, C Working c	is Low Water Cut-off Device & automatic interval timer hit should be hydraulically tested to withstand up to 40 sure * All internal joints of the unit should be Argon arc ground and polished to give crevice free internals * I joint-less Silicon Rubber Gasket has to be provided proofing * The unit would be electrically heated by ype/immersion type heaters. To be supplied with Box, fitted with Mains & Heating Indicators, ON / OFF Cord & Plug to work on 220/230V, 50Hz, AC supply * Chamber size: 300 mm × 500 mm / Johanson and Johanney Size: 300 mm × 500 mm / Johanney Size: 300 mm						-
* The unit psi pressu welded gr Moulded j for leak p flange tyt Control Br Switch, Cr Working c lit).	nit should be hydraulically tested to withstand up to 40 sure * All internal joints of the unit should be Argon arc ground and polished to give crevice free internals * I joint-less Silicon Rubber Gasket has to be provided proofing * The unit would be electrically heated by ype/immersion type heaters. To be supplied with Box, fitted with Mains & Heating Indicators, ON / OFF Cord & Plug to work on 220/230V, 50Hz, AC supply * Chamber size: 300 mm × 500 mm / Janacovimetaly, 35						
welded gr Welded gr Moulded j for leak p flange tyl Control Br Switch, Cr Working c	ground and polished to give crevice free internals * I joint-less Silicon Rubber Gasket has to be provided proofing * The unit would be electrically heated by spe/immersion type heaters. To be supplied with Box, fitted with Mains & Heating Indicators, ON / OFF Cord & Plug to work on 220/230V, 50Hz, AC supply * Chamber size: 300 mm Y 500 mm / 200 mm / 2						
Moulded j for leak p flange tyr Control Bo Switch, Co Working c	joint-less Silicon Rubber Gasket has to be provided proofing * The unit would be electrically heated by ype/immersion type heaters. To be supplied with Box, fitted with Mains & Heating Indicators, ON / OFF Cord & Plug to work on 220/230V, 50Hz, AC supply * Chamber size: 300 mm × 500 mm / chamber size: 300 mm × 500 mm × 500 mm / chamber size: 300 mm × 500 mm × 500 mm / chamber size: 300 mm × 500 mm × 500 mm / chamber size: 300 mm × 500 mm × 500 mm / chamber size: 300 mm × 500 mm × 500 mm / chamber size: 300 mm × 500 mm × 500 mm / chamber size: 300 mm × 500 mm × 500 mm × 500 mm / chamber size: 300 mm × 500 mm × 500 mm / chamber size: 300 mm / chamber size: 300 mm × 500 mm / chamber size: 300 mm / cha						
for leak p flange tyk Control Bk Switch, Cr Working c	proofing * The unit would be electrically heated by ype/immersion type heaters. To be supplied with Box, fitted with Mains & Heating Indicators, ON / OFF Cord & Plug to work on 220/230V, 50Hz, AC supply * Chamber size: 300 mm Y 500 mm / 200 mm /						
tiange typ Control Bc Switch, Cc Working c	ype/immersion type heaters. To be supplied with Box, fitted with Mains & Heating Indicators, ON / OFF Cord & Plug to work on 220/230V, 50Hz, AC supply * Chamber size: 300 mm X 500 mm / chamber size: 300 mm / chamber size: 300 mm X 500 mm / chamber size: 300						
Switch, Co Working of	Box, nited with Iviains & Heating Indicators, ON / OFF Cord & Plug to work on 220/230V, 50Hz, AC supply * chamber size: 300 mm X 500 mm /approximately, 35						
Working c	cold a Mug to work on 220/230V, 30HZ, AC supply *						
E							
CONTROL .	diamed size, do mill A do mill (approximately do						
13 Magnetic stirrer	ic stirrer						
* The bod	* The body should be made of mild steel duly finished in epoxy						
powder co	powder coating and to be mounted with a stainless-steel top						
stirring ha	stirring has to be done by tractional horsepower motor, rotating magnetic field applied below the liquid container. The efficien						
would be	would be accomplished by a PTFE encapsulated magnetic						
needle to	needle to be placed in the liquid to be stirred * The unit should	2	Š				
be supplie	be supplied with pilot lamp, plug cord and continuously variable						
speed reg	speed regulator * Maximum speed 1400 RPM. The unit shall						
be workat	be workable on 220/230V AC single phase. To be supplied with						
8x25mm c	1 WO TITE Coated magnetic needle (dia A tengin) ox 13mm & 8x25mm one each Stirring Capacity: Approximately, 2 lit						
14 Microscope	edo						
* Binocula CPU	* Binocular * with LCD display * connectivity with and without CPU	-	No.				
15 Vacuum pump	dwnd						

	Lot 2: Project District - Morigaon	ect Distric	t - Moriga	on				
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No.	Description of Goods	Quantity	Physical unit	Destination as specified in BDS	Earliest Delivery Date	Latest Delivery Date	Bidder's offered Delivery date [to be provided by the bidder]	pa.
	* Maximum power 80 watts * maximum vacuum- 670 mm of Hg * maximum flow rate- 34 lit/ min * rotation- 1450 RPM * HP- 1/6 HP * noise level- 52 dB	+	No.					
16	Flame Photometer							
	* Microprocessor Flame Photometer (Graphical Display & Inbuilt Printer) having provision for Four Element measurement in a single aspiration (Na, K, Li, Ca and Ba) * Provision for Calibration curve fit routines first order and second order * Data displayed should be in concentration units i.e. ppm & meq/litre * The unit should have provision for automatic filter selection; auto calibration, auto Gas Cut off (in case of power failure feature) * Printer attachment, PC connecting compatibility, Sample data storage (at least 300 results) * The unit would have alphanumerical key board for easy data entry, Graphical LCD close and Curve calibration using at least up to 5 standards multiple calibration curve saving facility * The unit should be supplied with Stainless steel burner with Sodium & Potassium Filter, air Compressor, LPG cylinder with valve, wire-knitted gas rubber tube, NIST traceable Sodium & Potassium standard (1000 mg/L strength) each of 125 ml pack, 12 nos. certified volumetric Flask-class A of 100ml capacity, 3 nos. 10 ml certified graduated Mohr's pipette of Class A made of borosilicate plass.	1	o Z					
17	UV Laminar Air Flow chamber							
NNP, A	* Working area 91.44cm x 60.96cm x 60.96 cm * blower fitted with HP motors * pre-filters made of high grade nylon Net fixed in stainless steel frame for first Stage air purification, through blower system * closed inner chamber fitted with HEPA having very accurate performance rate of air filtration, rating 99.99%	-	No.					

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No.	Description of Goads	Quantity	Physical unit	Site) Destination as specified in BDS	Earliest Delivery Date	Latest Delivery Date	Bidder's offered Delivery date [to be provided by the bidder]
	resulting in ceasing all air borne molecule of particles up to 0.3 micron in working Area of Laminar Bench						
18	Filtration assembly						
	* With a Vacuum pump * complete with a glass fitter holder 47 mm * with funnel, fitted base, cap & clamp	-	No.				
13	Plate count and colony counter						
	* Hand held * micro controller based * 6 digit [999999] LCD						
	memorizes last count * as per GMP specifications * hold and count correction facility	~	No.				
20	(a) Arsenic testing instrument - portable type						
	* Digital meter based on colorimetry /densitometry * complete						
	with tri fitter arsenic trap * 100 reaction vessel * destruction				a):		
	fitter holder * detection fitter holder * hydrogen sulphide fitter *	•	2				
	parison chart *	-	į				
	gloves * dilution tubes * cuvette * brush * 9V battery *						
	screwdrivers * instrument manual						
21	(b) Arsenic testing accessories - for spectrophotometer						
	* Reagent for Arsenic Analysis: package of 250 tests -						
	mm grain size) 500 gmX3, Potassium lodide analytical grade						
	_						
	Molpholine IASOUM, Lead acetate IASOU gm, Chloroform HDI C/Spectroscopy, grade 2X 1 iit Silver diathol						
×	S grade 5 mXL glass v		N C				
	Acetone analytical grade 500 mIXI * Arsine generator complete	•	2				
	with 100 ml Erlenmeyer flask with standard joint, glass wool						
	adaptor with matching std joint, absorber tube with matching						
	standard joint, 5 ml volumetric Flask- package of 12 sets- all						
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					Final (Project	Delivi (Bid	Delivery (as per Incoterms) Date (Bid Security in INR40,000.00)	rms) Date
	Item No.		Quantity	Physical unit	Destination as specified in BDS	Earliest Delivery Date	Latest Delivery Date	Bidder's offered Delivery date [to be provided by the bidder]
	6 nos. each * Glass dropper- 2 nos * Stainless steel forceps- 1 no.	eel forceps- 1						
	22 Dissolved Oxygen Meter							
	* Waterproof Hand-held Meters for the determination of Dissolved oxygen on site. The meter should be of Rugged, water resistant (IP 67) & to be designed for field use. Should have PC interface (USB / serial or analogue) & backlit LCD display. Technical specifications: * Measurement. Oxygen partial pressure, Oxygen Concentration, Oxygen Saturation, Temperature measurement, Automatic absolute air pressure measurement Should have Auto Hold Function, Alarm Function, Data Logger facility & with required Software, Easy calibration against oxygen in air, Salinity correction & shall have Self-polarising galvanic oxygen probe which should allow instant measurement after system be switched on. * Should have the features for Low battery and battery change indicator, auto off function, Sensor evaluation after calibration in the display & should have Shock-absorbing rubber protective armouring. 02 concentration 0.0 70.0 mg/1 ± 1.5 % ± 0.2 mg/1/25 70 mg/1 ± 2.5 % ± 0.3 mg/1	for the determination of ter should be of Rugged, gned for field use. Should analogue) & backlit LCD turation, Temperature air pressure measurement arm Function, Data Logger Easy calibration against shall have Self-polarising should allow instant red on. Dattery and battery change evaluation after calibration bastery and battery change book on the contraction of the cont	_	o N		•		
	23 Cool box with icepacks							
/	* Material: PC thermoplastic / Non toxic gel well 134mm* 92 mm	* dimension:	m	No.				
1	ter - for Fluoride, Chloride	and Nitrate etc						
NWP AC	* Microprocessor based pH/ISE meter with large, backlit graphic LCD display, Informative display should show H/mV/RmV/ISE results and temperature along with electrode status, time, date, sample ID, user ID and calibration points *	large, backlit should show with electrode bration points *	~	N _o				

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No.				Final (Project	Delive (Bid	Delivery (as per Incoterms) Date (Bid Security in INR40,000.00)	rms) Date 0,000.00)
	Description of Goods	Quantity	Physical unit	Destination as specified in BDS	Earliest Delivery Date	Latest Delivery Date	Bidder's offered Delivery date [fo be provided by the bidder]
	Tech specs for Ion measurement: Range: 0 to 19999 * Resolution: Up to 3 significant digits * Relative Accuracy: ±0.2						
	mV or ±0.05 % of reading whichever is greater ⋆ Units: ppm, M,						
	윽						
	Editing: possible * Calibration Features: Timed end point, linear point to point, non-linear selectable auto-blank, low						
	concentration range stability						
	The unit shall be supplied with pH electrode, ATC probe,						
	stainless steel probe, Star stirrer probe, Electrode arm with holder & Universal power adapter. The unit shall be supplied.						
	with Fluoride & Nitrate Ion selective electrode with electrode						
	filling solution, TISAB-III for Fluoride, total ionic strength buffer						
	solution for nitrate electrode, NIST traceable Standard solution						
	for 1000 mg/L of Fluoride & Nitrate - 500 ml of each type,						
	variable volume micropipette 1-5 ml with micro-tip (100 nos.) -						
	1 set & any other consumables required for Fluoride & Nitrate						
	analysis.						
25	Fume cup board						
	* Work table size 91.44cm x 60.96cm x 60.96 cm * exhaust	Υ-	S				
	ducting * table material: granite * outer mild steel body						
(Auto Burette (100 ml capacity, Automatic Zero, Accuracy as	•	4				
07	Per Class A to Test, 2008 / 19O 300, 2000, With Reservoir, Rubber Bellow, PTEE Stondock With Certificate)	-	9				
27	Auto-Pipette						
	* Single channel Variable Volume automatic pipette * air-						
	displacement type * Conformity * Certified with Individual Work	_	Z				
	Certificate * Range: 500 - 5000 µl * Division: 10 µl * Accuracy	-	Š				
	R<±%: 0.8						
7/1/28	Quartz Distillation apparatus						
Ni	Dist. Water Output Cap.(Approx) - 5 Ltr/Hr, 230-250 Volts	_	No.				

					Colin	ofood and any and	Doto
No. 33 33 33 33 33 33 33 33 33 33 33 33 33				Final (Project	Delly (Bid	(Bid Security in INR40,000.00)	o,000.00)
36 35 33 32 39 39 39 39 39	Description of Goods	Quantity	Physical unit	Destination as specified in BDS	Earliest Delivery Date	Latest Delivery Date	Bidder's offered Delivery date [to be provided by the bidder]
36 35 33 32 39 39 39 39 39	Pyrogen free, PH 6-7, Conductivity —S/cm-<3 x 10-6, Distillate Temperature 65-7500 with Distillation Apparatus Power						
33 33 33 39 39 39 39 39 39 39	Supply (DAPS), Quartz boiler, Borosilicate Condenser and						
36 35 33 32 39 39 39 39 39							
33 33 33 33 33 33 34 33 35	(Borler & Condenser), with Built-in Quartz Heater, Vertical Basel Mountad to be complete with law water lovel out off						
33 33 33 33 39 39 39 39	device, Conductivity of distilled water should be around 2 us/cm						
33 33 33 33 33 33 33 33 33 33 33 33 33	on processing a						
33 33 33 33 36 38	apparatus						
33 33 33 33 39 39	the type	-	No.				
33 33 33 34 34 34 35							
35 33 33 33 35 34 34 35	ure- 80 psi * rotation- 1400 rpm * Motor						
35 33 33 33 33 35 33 35	capacity- 1/6 HP * maximum power- 125 Watt * maximum	_	Š				
35 33 33 33 33 33 33	ē						
32 33 33 32 34 34 34	on	-	No.				
36 35 33							
35 35 34 33	a	1	No.				
36 35							
36 35	of 0.5 µl to 10µl	-	No.				
36 35	ne with rotors						
36 35	* Microprocessor Based * Maximum Speed 5200 rpm * Square						
36 35	Ms body duly powder coated * Double Walled light weight Abs						
36 35	LCD panel for 0-59 minute Count-down timer * The unit should	τ-	Š				
36	be supplied with rotor head of 8X15 ml swing out head & 16 nos						
36 35							
36	al Field Test Kit						
36	ig 30 samples/ GPs	15	No.				
-	teriological testing						
	each of the 15 GPs	1500	Š				
37 Conical Flasks							

					Dolling	oftend red act in	Part Poto
Line				Final (Project	(Bid	(Bid Security in INR40,000.00)	rms) Date 0,000.00)
No.	Description of Goods	Quantity	Physical unit	Destination as specified in BDS	Earliest Delivery Date	Latest Delivery Date	Bidder's offered Delivery date [10 be provided by the bidderl
	*Flat bottom support * Conical body * Cylindrical neck * Graduated * complies with IS 915, ISO 1042 for volumetric flasks						
	100 ml capacity	16	Š				
	150 ml capacity	16	Š				
	250 ml capacity	30	S.				
	500 ml capacity	16	No.				
	1000 ml capacity	ဖ	Š.				
88	Beakers						
	* Flat bottom * cylindrical shape * small spout for clean and						
	precise pouring * graduated to indicate the exact content						
	100 ml capacity	16	No.				
	250 ml capacity	16	No.				
	500 ml capacity	16	No.				
	1000ml capacity	80	No.				
	2000ml capacity	4	No.				
39	Ordinary Pipette						
	* Large bulb with a long narrow portion above with a single						
	graduation mark * Calibrated for a single volume * accurate						
	measurement and decanting of liquid * each pipette coded with						
	5 ml capacity	00	Š				
	10 ml capacity	12	Š				
	20 ml capacity	œ	S.				
	25 ml capacity	œ	<u>S</u>				
	50 ml capacity	4	No.				
40	Graduated Pipette						
VI	* Long tube with a series of graduations to indicate different						
NNI	calibrated volumes for delivery from zero mark to the last graduation marks						
1							

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1 ml capacity

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		Lot 2: Project District - Morigaon	ect Distric	t - Moriga	no			
	<u></u>				Final (Project	Delive (Bid	Delivery (as per Incoterms) Date (Bid Security in INR40,000.00)	ms) Date ,000.00)
	No.	Description of Goods	Quantity	Physical unit	Destination as specified in BDS	Earliest Delivery Date	Latest Delivery Date	Bidder's offered Delivery date [to be provided by the bidder]
		5 ml capacity	9	No.				
		10 ml capacity	80	No.				
		20 ml capacity	4	No.				
	41	Ordinary Burette						
		* Straight tube with a graduation scale & a stop cock with one dispenser tube * No after drainage period * complies with ISO 385						
		25 ml capacity	œ	S.				
		50 ml capacity	80	No.				
		100 ml capacity	_	Š.				
	42	Automatic Burette						
		* with automatic zero facility * mounted on a glass reservoir bottle, glass stop cock * rubber bellows * enamel graduations						
		50 ml capacity	-	No.				
	43	Desiccators	4	No.				
		* Normal Desiccators * size 160 mm * for use with Disposable or Reusable Desiccant * complies with IS 6128 : specification for desiccators						
	44	Reagent Bottles						
la .		* plain narrow mouth * no-drip pour lip * solid glass stopper to fit securely * autoclavable & sterilizable * with clear graduations						
		100 ml capacity	20	No.				
		250 ml capacity	35	No.				
		500 ml capacity	24	No.				
Sol * Sol		1000ml capacity	10	No.				
200		2000ml capacity	9	No.				
9	45	Sample Bottles						
D.	NP,	*·Of food grade plastic * large labelling field * complete with screw cap and pouring ring						
		250 ml capacity	35	No				

	Lot 2: P	Lot 2: Project District - Morigaon	t - Moriga	uo			
	ine			Final (Project	Delive (Bld	Delivery (as per Incoterms) Date (Bld Security in INR40,000.00)	rms) Date 0,000.00)
	No.	Quantity	Physical unit	Destination as specified in BDS	Earliest Delivery Date	Latest Delivery Date	Bidder's offered Delivery date [to be provided by the bidder]
	500 ml capacity	35	No.				•
	1000ml capacity	15	No.				
	2000ml capacity	ω	No				
	46 Test Tubes						
	* without rim * flat bottom - Approx O.D. x Length in mm 12x75	- u	S _O				
	Packet of 100						
	47 Durham tubes						
	* Neutral glass * round bottom * autoclavable * very clear & transparent * straight rim	300	No				
Ĺ	48 Round bottom flasks						
	* Round bottom support						
	250 ml capacity	00	Š				
L	49 Measuring cylinders						
	* graduated * with pour spouts to facilitate pouring without any drine * prominent graduations * broad base for stability	ny					
		9	Š				
	50 ml	ဖ	Š				
	100 ml	9	Š.				
	250 ml	9	No.				
	500 ml	9	No.				
Ш	1000ml	9	No.				
Ц	2000ml	က	Š				
L	50 Measuring flasks						
(No	* with inter changeable solid glass stoppers * each flask engraved with individual serial number	sk					
_	5 ml	2	No.				
N	10 ml	10	No.				
110	25 ml	10	No.				
A	50 ml	10	No.				
	100 ml	9	Š				

No. 250 ml 500 ml 51 Funnels 75 mm diameter 100 mm diameter 125 mm diameter 125 mm diameter 125 mm diameter 125 mm diameter 52 Porcelain dish Medium size Large size Large size Large size 53 Crucibles 54 Wash bottles 55 Standard joints 67 Grouted Bends	Description of Goods		4	Final (Project	(Bid	(Bid Security in INR40,000.00)	0,000,00
		Quantity	Physical unit	Destination as specified in BDS	Earliest Delivery Date	Latest Delivery Date	Bidder's offered Delivery date [to be provided by the hidder]
		10	S.				
		10	No.			3	
		5	Š				
	Jiameter	5	Š				
	diameter	2	N _O				
	125 mm diameter	2	No				
	in dish						
	size	5	No.				
	Se	9	No.				
	Se	00	N				
	ottles	မ	No.				
Grouted	d joints						
Bends		24	No				
		12	No.				
56 Glass rods	spc						
(Packet of 50)	of 50)	1	No.				
57 Petri Dishes	shes						
* Diamet	* Diameter – 75 mm	100	No.				
58 Nessier	Nessler Cylinders						
* Gradu	 Graduated * maximum clarity 						
50 ml capacity	pacity	20	No				
100 ml capacity	apacity	20	No				
59 Thermometers	meters						
* Digital 1	\star Digital type \star display both in Fahrenheit & Centrigrade scale \star accuracy up to $\pm~0.2$ to ±0.5 °C \star resolution – 0.1 °C \star usage						
ot Min/ N	of Min/ Max/ Hold button *						
100°C		2	Š				
200°C		2	Š.				
200s		-	No.				

