No. DHS/MCH& FW/NHM/LAB/93/2022/DHS/MCH& FW/NHM/LAB/93/2022/ (XII)
01.10.2022

NOTICE INVITING TENDER

CATTEORY-I: MEDICAL ITEMS

Objective:

Providing Diagnostic services with affordable and accessible to everyone is one of the initiative and effort put by the Health dept. Govt. of Meghalaya. To provides adequate and more efficient diagnostic services and particularly to strengthen the existing lab and operate in-house model diagnostic services more effectively at the earliest possible time hence, a turnkey work is invited through this Tender

Meghalaya is located in the hilly areas, with many challenges to reach to those areas, due to bad road conditions/poor connectivity, scattered locations, lack of public transport, lack of accommodations etc. which may result a challenged or delay, if suppliers are asked to supply with one or two items, and if the same items then need to be delivered, installed, etc. in the respective health centre that are dispersed and difficult to access, and moreover with providing 5years comprehensive maintenance as one of the major requirements.

The intent to invite a Turnkey work are to ensure that the aforementioned points are addressed from the outset and prevent any disruption during supply and interruption in implementing the diagnostic services in the State and particularly when it comes to comprehensive maintenance period.

Considering the above reasons and the urgency of the requirement for implementing the inhouse Diagnostic services effectively in the State, the Tender is invited from the eligible bidders who comply to the Terms and Condition listed below.

Mission Director, NHM
Meghalaya, Shillong.

Sealed Tenders in a Two Bid System affix a court fee stamp of Rs. 25/- is invited by the Mission Director, National Health Mission, NHM, Meghalaya from registered firms "for Supply of lab consumable items and equipments"

Technical & Financial Evaluation of the Tender Documents would be evaluated by a Tender Committee duly constituted by the Mission Director,NHM Meghalaya.

Sl. no.	Name of Items	"Tender for Supply of lab equipments and consumable items"
1	Cost of Tender Documents	Rs.2000/- in demand draft in favor of Mission Director, National Health Mission, payable at Shillong, if tender document is obtained from the office of the undersigned. No tender fee required if bidder download the tender document from the NHM website
2	Earnest Money Deposit	Rs. 5,00,000/-
3	Tender Documents	Can be obtained from the O/O Mission Director, National Health Mission, Health Complex Laitumkhrah, Shillong or downloaded from www.nhmmeghalaya.nic.in
4	Date for downloading/obtaining the Tender Documents	06th/Oct/2022
5	Last date and time for submission of Tender Document	28th /Oct/2022 at 11:00am
6	Tender opening date and time	28th /Oct/2022 at 1:00pm

Copy of Tender documents may please be obtained from the Office of Mission Director, National Health Mission, Health Complex Laitumkhrah, Shilong or download from our website www.nhmmeghalaya.nic.in and the EMD mentioned above may please be deposited in the form of 'demand draft' / 'pay order'/ Receipt in favor of Mission Director, National Health Mission, payable at Shillong. Please write the name of company/firm on the reverse side of the 'Demand Draft'/ 'Pay order'/ Receipt. Please note that the downloaded tender documents are subject to verification with the original documents as given in the Website.

Mission Director, NHM reserves the right to reject any or all the tenders without assigning any reason.
Note: Any changes or any further notification in respect to the above Tender documents shall be made available only at the above mentioned website. Hence respective bidders are advised to visit the website regularly for the above purpose.

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Tender Guidelines

1. Definitions

P.O – Purchase Order
Contract – Terms informed in the PO
EMD - Earnest Money Deposit
DD – Demand Draft
PBG – Performance Bank Guarantee
BC – Banker's Cheque
Purchaser – Mission Director, National Health Mission, Meghalaya
Tenderer – Bidders who have submitted Valid Tender Documents
Supplier = Successful Bidder (s), to whom, the tender quantity is distributed to
Sample – One sample manufactured /Supplied by the bidder/Catalogue as applicable
Bidder – MANUFACTURER or Authorized Trading partner such as dealers/distributors/suppliers

The Prices quoted and quantities offered for supply in the tender shall remain open for acceptance – 180 days from the date of bid opening.

2. PRICE SCHEDULE:

a. Price shall be quoted as mentioned in Annexure-III. Price will remain firm and fixed for all supply orders placed during the period of Rate contract i.e. of minimum 1 year

3. TERMS OF DELIVERY:

a. Delivery for all orders shall be required to be made to the **State warehouse, NHM Shillong, Meghalaya, District laboratory centres, Districts warehouse** or any other locations within the state capital as instructed by the authority from time to time and shall be inclusive in the rate quoted for by the bidder. If any delivery asked to be made outside the state capital may be charged additional, to the specified rate keeping in mind the location and situation of delivery.
b. The Tenderer shall be responsible to arrange safe delivery of goods, by rail/road at the delivery address given above. The rates quoted by the tenderer should include all costs for free delivery to consignee's site.

4. ELIGIBILITY CRITERIA:

a. Annexure I, II, III, IV, V, VI & VII should be duly filled and complete in all respects.
b. Submission of EMD amount as per page no.1 and sl.no.2 in the form of Demand Draft /BG/FDR in favor "Mission Director, National Health Mission, Meghalaya, Shillong. EMD should be valid for a minimum period of 180 days as per Annexure –V from date of Tender opening.
c. In case of dealer the bidder should submit Dealership certificate from the Company and failing to meet the requirement shall be rejected.
d. Valid Authorization letters (Tender specific) mentioning the above Tender no. from the OEMs for Supply & Participation in Tender.
e. High Quality Standards/ISO certificate
f. In addition to the above, the bidder should furnish the following:-
    i. A Valid company/Firm registration certificate
    ii. A valid Trade License Certificate from KHADC/JHADC/GHADC for Non Tribal firm
    iii. A Valid GST Registration certificate
    iv. PAN/TIN Card of the firm or of the person in whose name the Proprietorship, Firm etc is registered under.
g. Affidavit to be submitted on Non – Judicial Stamp paper attested by Public Notary that there is no vigilance / CBI case or arbitration cases pending
h. The tenders received after the due date and time specified or unsealed or incomplete, or by facsimile or email will be summarily rejected.
i. The purchaser will notify the successful bidder in writing that its Bid has been accepted and issue purchase order (PO) to the successful post signing of contract.

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j. Within 7 days of receipt of such intimation, the successful bidder shall give its acceptance to the Mission Director, National Health Mission, Govt of Meghalaya.

k. The Mission Director, National Health Mission), Govt of Meghalaya reserves the right to reject/cancel any or all other including the lowest bidder without assigning any reason thereof.

l. On received of Purchase Order the selected bidder will have to be delivered within a delivery period specified in the purchase order.

m. Turnover of last three years minimum 1crore

5. Submission of the Bid:

i) The Bid should be in sealed cover super- scribed **"Tender for Supply of lab consumable items and equipments"** and clearly mention the tender reference number and date. The super scribed sealed cover shall consist of three sealed cover inside **(i) "Technical Bid" (ii) "Financial Bid ",**

ii) Super scribed Sealed Cover A – Technical bid:

a) Tender document duly filled and signed by the authorized person in all pages
b) Tender fee if Tender document is obtained from the office of the undersigned
c) Annexure I, II, III(None price bid), IV, V, VI & VII should be duly filled and complete in all respects, bidder will be disqualified if the same is not furnish.
d) Submission of EMD amount
e) In case of dealer the bidder should submit dealership certificate from the company and failing to meet the requirement shall be rejected.
f) Valid Authorization letter (Tender specific) mentioning the above Tender no. from the Manufacturer for supply & participation in Tender.
g) A Valid company/Firm Registration certificate
h) A valid Trade License Certificate from KHADC/JHADC/GHADC for Non Tribal firm
i) A Valid GST Registration certificate
j) PAN/TIN Card of the firm or the person in whose name the Proprietorship, Firm etc is registered under.
k) Affidavit on Non Judicial stamp paper attested by Public Notary that there is no vigilance / CBI case or arbitration cases pending
l) Turnover of last three years minimum 1crore

iv). **Super Scribed Sealed Cover B for – Financial Bid/Price Bid**
Annexure Wise Price Bid as per format Annexure – III

Instructions:

- ✓ Please mention clearly on each sealed cover the annexure, meant for.
- ✓ The main cover should be addressed to the **O/O Mission Director, National Health Mission, Red Hill, Upper New Colony Health Complex, Laitumkhrah, Shillong – 3,Meghalaya**
- ✓ The Bid should be dropped in the box provided for this purpose in the office **of Mission Director, National Health Mission, Red Hill, Upper New Colony Health Complex, Laitumkhrah, Shillong.**
- ✓ All documents submitted should be properly page numbered, signed and should have appropriate and relevant contents.
- ✓ Index sheet of each document should be submitted for ease & fast documentations verifications.
- ✓ Bid documents that do not provide complete information and /or that are submitted after the above specified date or time shall be rejected.
- ✓ Bidder should quote their prices in the schedule format supplied in this tender (Annexure III) form giving the breakup of prices. Tenders received in any other form will not be entertained.
- ✓ Bidder should sign the certificate provided in the tender form Annexure – IV "That they have read and understood, all the Terms and Conditions stipulated for in the Tender, and are willing to abide by these tender terms and conditions " , before submitting the tender

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documents. Tenders submitted without the Signed declaration certificate will be considered incomplete and will not be considered.

6. **Bids will be open in two stages.**
   (I) Envelope A : Technical bid Bid
   (II) Envelope B : Financial/Price Bid As per Annexure – III

7. If the envelopes are not sealed and marked as required above, the bid will be subjected to rejection at the tender opening stage itself.

8. The bid shall be opened in two stages. At the time of opening only first cover (Envelope A) containing the Technical bid shall be opened at the first stage and the second cover (Envelope B) containing financial bid bid shall be opened after qualifying the Technical bid. The date, time and venue for third stage opening will be intimated separately by the Tender Inviting Authority (TIA) only to selected/qualified bidders.

9. **Validity of the Tender:**
The validity of the tender shall remain valid for 180 days from the date of opening the tender.

10. **Venue of Tender Opening:**
The **"Tender for Supply of lab consumable items and equipments"** will be opened in the presence of the bidders or their authorized representatives and Tender Committee Members at the venue mentioned hereunder.
Venue of Tender Opening:
Office of Mission Director, National Health Mission, Red Hill, Upper New Colony Health Complex, Laitumkhrah, Shillong,

11. **EMD Amount:**
Tenderer needs to deposit the EMD Amount in the Form of DD/FDR/Bank Guarantee in favor of "Mission Director, National Health Mission", payable at Shillong, Meghalaya and a copy of EMD in sealed envelope should be submitted along with pre-qualification documents in the Pre-Qualification Envelope.

(i) The EMD shall be returned back to unsuccessful bidders within a period of eight (8) weeks from the date of execution of the agreement subject to the receipt of a written application addressed to the Mission Director, National Health Mission, Meghalaya. The return of EMD shall not carry any Interest Component.

(ii) The E.M.D. / Security Deposit shall liable to be forfeited in the following circumstances when the,
   a) Tender is rejected due to failure to furnish the requisite documents in the proper format or giving any misleading statement or submission of false affidavit or fabricated docs.
   b) Party fails to sign the agreement for entering into contract in case the offer is accepted, due to any reason whatsoever.
   c) Party fails to supply the goods / items as per the orders / Rate Contract (R.C) placed by Mission Director, National Health Mission, Meghalaya within the delivery period so stipulated.
   d) Party fails to replace/correct the supplied material /pre-printed stationeries declared to be wrong /different from specification and R.C. holder / successful bidder have to refund the cost of such goods

12. Performance Security Bond (PSB):

(a) The successful Bidder will liable to deposit 10% of value of the Contract/Purchase Order as Performance Security Deposit in favor of "Mission Director, National Health Mission, Shillong Meghalaya" by way of "Performance Bank Guarantee in the format given at "Annexure-VI" from nationalized/Commercial Bank refundable after expiry of the

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~~contract/or after the completion number of CMC period + 3 months in case of supply of~~ Equipment whichever is higher, subject to successful fulfilment of terms and conditions.

Security Deposit/EMD is liable to be forfeited if the bidder withdraws or impairs the bid in any respect. Security deposit is for due performance of the agreement. Non submission of Performance security within the specified time shall also lead to forfeiture of the EMD/PSB.

(b) Performance security deposit is retained as a security deposit until the period of work / contract may be found satisfactorily and completed. The Performance security deposit may be refunded on receipt of a written application addressed to the Mission Director, National Health Mission, Meghalaya. Refund of Performance security deposit shall not carry any Interest Component.

13. Price:

- ✓ The price offered in the tender should be as per the structure requested in the Tender document Annexure-III
- ✓ All Quotes shall be in Indian Rupees and duly attested in case of any corrections.
- ✓ All freight costs & Transit insurance are to be borne by the bidder.
- ✓ In case of imports, all duties and any other costs (foreseen or unforeseen) have to be borne by the bidder and to be clearly indicated in the quote
- ✓ If more than one bidder has quoted the same price in their bids, and if it has become the Lowest Bid (L1), the decision of the Tender Committee is final to equally distribute the schedule quantity among the L1 bidders.

14. Technical evaluation:

- ✓ Technical evaluation of the items tendered will be done by a Technical Committee constituted by the Mission Director, National Health Mission Meghalaya
- ✓ Specifications for each of the items will be as detailed in the respective Annexure
- ✓ Tenders submitted with technical specifications and commercial bid will alone be considered for evaluation.
- ✓ The commercial bids of suppliers who are successful in Technical Evaluation only would be considered.
- ✓ In case, if Technical Committee is not convinced with any of the bidder's samples with respect to Quality parameters, then it is the Committee's decision to scrap the Tender.
- ✓ The decision of the Committee formed by Purchaser would be final.

15. Quality Standards:

a) The Suppliers/Manufacturers are to meet the approved Quality Standards or any other reputed standard by the Country of Origin. The evaluation would be done by the technical committee at the time of technical evaluation
b) During period of the contract, suppliers shall confirm to the approved quality standards wherever applicable and would be given priority over others.
c) Suppliers should supply equipments/goods which comply with the approved quality standard failing which payment of the same will not be made.

16. Sample Evaluations:

a) Samples whenever required, for valuation shall be provided by the supplier at free of Cost.
b) The products should fulfil technical specifications as per the approved quality standard or any other reputed standard by the Country of Origin
c) In case bidder quoted more than one item for a particular item, during Technical round the Tender committee will select one item only according to quality satisfaction & the price bid of the selected item only shall be taken into account.
d) The Tender committee has the right to reject any sample in case the sample quality is found unsatisfactory and bidder has no right for any objection.

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17. Quantity Division:

Each Delivery Schedule of Requirement incorporate in the tender enquiry document will be ordered from the Lowest Responsive Bidder (L1). However, it is the purchaser's decision to assess the capacity of the L1 bidder to support the requirement. If L1 refuses to supply and in case of L1 bidders capacity is less than the quantity required, the purchaser has the right to split the order quantity among the other bidders in the order of lowest to highest bidder as per the provisions of transparency in Tenders Act & Rules, provided the next lowest bidder agrees to match the L1 rate.

18. Authority for signing Tender Documents:

- ✓ A person signing the Tender Form or any document, forming part of the contract on behalf of the supplier, shall carry the authorization letter stating his/her authority to sign such documents from the respective organization
- ✓ Any Agent who is participating on behalf of a manufacturer shall have the Valid authorization letter from the manufacturer to sell the goods in the area where the tender is meant for, without which the bid will not be considered as valid

19. Responsibility for Performance of Contract:

The Supplier shall be entirely responsible for the performance of the contract in all respects in accordance with the terms and conditions as specified in the Contract. The Supplier shall not sublet, subcontract, transfer or assign the contract.

20. Quality Inspection:

a) For every unit supplied by the supplier, the conformance to the Specifications mentioned in the Tender shall be established by the supplier.

b) Supplier represents and warrants that it shall fully comply with all written quality assurance requirements or instructions of the Mission Director, National Health Mission, Meghalaya, and as amended from time to time at the sole discretion of the Mission Director, National Health Mission, Meghalaya. Supplier further represents and warrants that the Product supplied by the Supplier in strict compliance with all applicable central, state and local laws.

c) The supplier shall maintain the highest standard of quality in the Product. Supplier shall follow and abide by all directions, requests, suggestions or instructions of Mission Director, National Health Mission, Meghalaya regarding the quality standards required by Mission Director, National Health Mission, Meghalaya in connection with the manner of Packaging, storage and delivery of the Product.

d) The supplier shall facilitate in-process and / or Pre-delivery inspection by the Representatives of the Purchaser, as and when, the same is required by the Purchaser

e) Notification by Supplier – In case of inspection at the Supplier's premises, notice in writing shall be sent by the Supplier, sufficiently in advance, to the Purchaser when the items to be supplied, are ready for inspection.

f) Rejections – At delivery, Mission Director, National Health Mission, Meghalaya in its sole discretion may reject any Product produced or manufactured by Supplier for any reason, including Non-compliance with standard quality or any other reputed standard, but not limited to defects, or failure to meet approved quality standards, etc.

g) Removal of Rejections - Any supplies inspected and rejected at the Purchaser's premises must be removed by the Supplier, within 7 days from date of receipt of intimation of rejection of supplies in case of indigenous suppliers & 28 days in case of foreign suppliers. If the rejected goods have already been paid for (partly or fully), the supplier shall before removal of rejected goods , either deliver correct replacement goods at Purchaser's premises completely free of cost (including cost of goods , freight, taxes, duties etc) or refund the payment received as well as make full compensation for freight taxes , duties etc. Such rejected items shall lie at supplier's risk from the time of such rejections and if not removed within the above time limit, the Purchaser shall have the right to dispose off the said rejected materials as he may deem fit without any financial obligation to the supplier.

h) If found that the Successful Bidder is incompetent to provide the supply as requested, in such a situation, the proposal may be reviewed for award of the contract to the next qualifying bidder or go for a fresh bid depending on the circumstance. No form of compensation shall be payable in any form whatsoever to the forfeited firm. In case it is decided to go for the next qualifying bidder,

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negotiation maybe considered to bring down their price nearer to the originally Evaluated or Lowest bidder in consideration to the equipment's to be supplied.

21. Supplier Responsibility:

a) Under any circumstances, No supplier shall supply the goods, in which recycled materials are used / used- disposables to Mission Director, National Health Mission, Meghalaya. If Mission Director, National Health Mission, Meghalaya finds any such instance, it will lead to cancellation of Purchase Order and subsequent severe punitive (legal and financial) actions by Mission Director, National Health Mission, Meghalaya. However, all the consequential costs are to be borne by the Supplier to Mission Director, National Health Mission, Meghalaya.

b) The supplier is responsible for the delivery of the goods in satisfactory condition and without any loss or damage at the final destination and until the same is actually received by the Purchaser at its works or other place of final destination. For this purpose, goods carried by the roadway or other carrier shall be deemed to be carried at the risk of the supplier. If on inspection at final destination the Purchaser discovers any discrepancy, the Purchaser will be entitled (not-with-standing that the property of goods shall have passed on to the company) to refuse acceptance of the goods altogether and claim damages and/or cancel the contract and buy its requirement in the open market at the risk and cost of the supplier, reserving always to itself, the right of forfeiture of any amount found due and payable or the deposit, if any, placed by the supplier for the due fulfilment of the contract as also to recover any amount, if already paid.

22. Responsibility for proper packing, wherever required:

a) The Supplier shall be responsible for the items being sufficient and properly packed, for transport by rail/road/sea/air/ or any combination of the above, so as to ensure their being free from loss or damage on arrival at the destination.

b) In case if a bidder has got successful for more than one item, the supply shall be packed in lot, as per the instructions of Mission Director, National Health Mission, Meghalaya.

c) Marking of Packages, Packing: Each package delivered under the contract shall bear the following:-

- Name of the Supplier
- PO Number
- Consignee's name and address
- Description and quantity of contents
- Gross weight, Net weight,
- Distinctive number or mark which is also to be shown, for the purpose of Identification, on the Supplier's packing list.
- Govt. Supply, National Health Mission, Govt. Of Meghalaya

23. Delivery:

a) Timely delivery is the essence of the contract & must be completed as per the dates specified therein.

b) The Supplier shall deliver the items in strict accordance with the delivery terms indicated on the Purchase Order issued to the successful bidder.

c) Notification of delivery or dispatch in regard to each and every consignment shall be made by the Supplier to the authorities named in the Contract.

24. Failure and Termination:

Should the Supplier fail to deliver the items or any consignment thereof, within the period prescribed for such delivery, the Purchaser shall be entitled at his/ her option, to the following:

Delayed Penalty & Liquidity Damage:

Up to 7 Days from Delivery Due Date	0.75% from the total PO value
From 8th day to 15 Day	1.00% from the total PO value
From 16th day to 22nd Day	3.00% from the total PO value
From 23rd day to 30th Day	5.00% from the total PO value
Above 30 Days	10.00% from the total PO value

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25. Risk Purchase:

If the Supplier fails to deliver the items either in full or in part, within the prescribed delivery period, the Purchaser shall be entitled at his option to take alternate procurement action, at the risk & cost of the supplier for the unsupplied portion of the goods / items without cancelling the contract in respect of the items not yet due for delivery, or to cancel the contract based on progress of work, including items not due for delivery, and, if thought fit/necessary, to purchase the items at the risk and cost of the Supplier. The price differential in the case of higher cost to Purchaser, if any, shall have to be borne by the defaulting supplier. Moreover the defaulting supplier shall have no claim over the quantity, which they failed to supply.

26. Addendum & Corrigendum:

At any time prior to the date of submission of the Bids, the Tender Inviting Authority may, for any reason whatsoever, whether on his own initiative or in response to a clarification requested by prospective bidders, modify the Tender Documents by an act of amendment thereafter referred to as an Addendum for Addition & Corrigendum for Correction. All prospective bidders who have received the bid documents will be notified of the Addendum / Corrigendum and that will be binding on them. In order to provide reasonable time to take the Amendment into account, the Tender Inviting Authority may at its discretion extend the date and time for submissions of Bids. The bidders should check for such amendments or Corrigendum on the NHM website. No separate intimation will be issued to them.

27. Ethics:

Any attempt by a Tenderer to obtain confidential information, enter into unlawful agreements with competitors or influence the committee or the Contracting Authority during the process of examining, clarifying, evaluating and comparing tenders shall make the tender submitted by that tenderer liable for rejection.

28. Quantity of Delivered Items:

a) If the quantity received by the Target Delivery date is less than the P.O Scheduled quantity, then the physical quantity received will be the quantity certified by the Purchaser.
b) If the quantity received is more than the P.O quantity, the excess quantity shall not be paid for, by the Purchaser.
c) In case of any supply quantity with an upper or lower tolerance of over 5%, Mission Director, National Health Mission, Meghalaya will have the right to accept or reject the material immediately

29. Taxes, Duties and Levies:

a) Tenderers must clearly mention their GST Registration in their offers and invoices.
b) GST shall be clearly mentioned in the offer indicating the applicable rates.
c) In case if there is a decrease in the Statutory Taxes / Duties / Levies, the same has to be passed to the Purchaser

30. Guarantee:

The supplier must take the entire responsibility to supply the Quality-oriented products to Mission Director- NHM, Meghalaya. In case of distributors, the responsibility lies with the distributor to ensure the supply of right quality materials to Mission Director- NHM, Meghalaya.

31. Indemnity:

The Supplier shall at all times indemnify the Purchaser against all claims which may be made in respect of the items, for infringement of any right protected by Patent, Registration of design or Trade Mark and shall take all risk of accidents or damage which may occur or failure of the supply arising. The Supplier shall be entirely responsible for the sufficiency of all the means used by them for the fulfilment of the contract. Supplier shall agree to indemnify, defend and hold Mission Director, National Health Mission, Meghalaya and its officers, Directors, Employees, its parent and assigns harmless from and against any and all liability, losses, damages, claims, liens,

expenses or causes of action including, but not limited to reasonable legal fees and expenses that may be incurred by Mission Director, National Health Mission, Meghalaya, arising directly or indirectly out of, or in connection with, Supplier's violation or breach of any of the terms of this

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Agreement or any act or omission to act by Supplier in violation of the Agreement. Mission Director, National Health Mission, Meghalaya shall provide the Supplier with prompt written notice of any claim for which indemnification is sought and shall have the right to participate in the defence of any such claim.

33. Compliance of the Laws of the land:

a) The supplier shall comply with all state and local laws and regulations shall obtain all necessary licensing for the operation of its business and shall further comply with all quality control standards promulgated by Mission Director, National Health Mission, Meghalaya from time to time.

34. Documentation requirements:

A supplier has to send the following documents along with the shipment.

a) Invoice in original along with two additional copies, both duly signed and stamped by the Supplier.

b) Original Packing list.

c) A copy of Purchase order raised by Mission Director, National Health Mission, Meghalaya

35. Product Withdrawal:

a) If it is deemed necessary at any time by either Mission Director, National Health Mission, Meghalaya or Supplier or any local, state, or central governmental agency or other authority to recall or withdraw the Product produced by Supplier/Manufacturer and being supplied to Mission Director, National Health Mission, Meghalaya, either as a result of failure of the Product or Supplier to strictly comply with Mission Director, National Health Mission, Meghalaya quality standards or any governmental health rule or regulation, or shall fail to comply with any other governmental authority or agency having jurisdiction, supplier shall bear all costs and expenses incurred by it and/or in complying with the recall or withdrawal procedures, unless such recall or withdrawal is solely the result of the negligence or misuse by Mission Director, National Health Mission, Meghalaya.

b) If Supplier fails or refuses to promptly comply with the recall or withdrawal of the product upon request by the Purchaser, Mission Director, National Health Mission, Meghalaya shall take such action as it deems necessary to recall or withdraw the product and Supplier shall immediately reimburse for the costs and expenses incurred.

c) If the product supplied is not as per the specification on analysis of the samples by appropriate approved authority, then the rejected and available quantities have to be lifted back by the supplier. All cost and consequences of such rejected quantities shall be borne by the supplier.

36. Product Allocation and Stocking:

In the event there is an emergency shortage of the product, as announced by Supplier or its designated representative, Supplier shall stand ready to stock adequate quantities of the Product so that scheduled supplies to Mission Director, National Health Mission, Meghalaya, should not suffer for the full contract period. In an event of Supplier failing to supply the material in order quantities and as per time schedules, Mission Director, National Health Mission, Meghalaya, reserves the right to procure the product of same or superior quality at same or higher price from an alternate supply source and any difference in cost of procurement shall be debited to the Supplier.

37. Trademarks:

The supplier shall not, without prior written consent of Mission Director, National Health Mission, Meghalaya use the trademarks or service marks or sales marks of Mission Director, National Health Mission, Meghalaya in any manner whatsoever, unless, and then only to the extent, such use is authorized by Mission Director, National Health Mission, Meghalaya in writing and then only in accordance with Mission Director, National Health Mission, Meghalaya directions or specifications

38. Termination:

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Mission Director, National Health Mission, the Meghalaya Tender Committee shall have the right to immediately terminate this Agreement by giving a written notice to the Supplier in the event that Supplier does any of the following:

I. Fails to supply the order from the date of target delivery date.
II. Files a petition in bankruptcy or is adjudicated bankrupt or insolvent, or Supplier discontinues its business
III. Breaches any provision of this Agreement, and fails to cure such breach within seven (7) days after it receives a written notice of breach from the , Meghalaya.
IV. Mission Director, National Health Mission, the Meghalaya Tender committee has Right to Terminate without giving any Cause. Mission Director, National Health Mission, Meghalaya shall have the right to terminate this Agreement by written notice to Supplier.
V. Upon receipt of the notice of termination from the Purchaser, the Supplier shall either immediately or upon the date specified in the notice of termination, cease all further supplies except for such as the Purchaser may specify in the notice of termination. In the event of termination of the Contract
VI. the Purchaser shall only pay to the Supplier, the Price for the parts executed by the Supplier as of the date of termination.

39. Infringements:

a) The supplier agrees to fully cooperate with Mission Director, National Health Mission, Meghalaya in the prosecution of any such suit against a third party and shall execute all papers, testify on all matters, and otherwise cooperate in every way necessary and desirable for the prosecution of any such lawsuit.

40. Governing Law; Dispute Resolution:

a) This Agreement shall be governed by, and construed in accordance with, the laws of the India; without regard to conflict of law principles, and under the jurisdiction of Meghalaya and language shall be English

41. Notice:

a) Any notice required to be given pursuant to this Agreement shall be in writing and delivered personally or by a nationally recognized overnight courier service, or mailed by certified or registered mail, return receipt requested, to the other party at its address as set forth at the top of this Agreement.
b) All such notices shall be effective upon delivery or upon refusal to accept delivery.
c) Either party may change the address to which notice is to be sent by written notice to the other in accordance with the provisions of this paragraph.

42. Miscellaneous:

a) If any term, clause or provision hereof is held invalid or unenforceable by a court of competent jurisdiction, such invalidity or unenforceability shall not affect the validity or operation of any other term, clause or provision, and such invalid or unenforceable term, clause or provision shall be deemed to be severed from the Agreement.
b) This Agreement constitutes the entire understanding of the parties, and revokes and supersedes all prior agreements between the parties, and is intended as a final expression of their agreement. It shall not be modified or amended except in writing signed by the parties hereto and specifically referring to this Agreement.
c) Bidders or employees of bidder cannot claim or construed as employees of Mission Director, National Health Mission, Meghalaya.

43. Force Majeure:

If at any time during the validity of the Contract, the performance in whole or in part by either party of any obligation under this Contract shall be prevented or delayed by reasons of War, Hostility, Acts of Public Enemy, Civil Commotion(s), Sabotage, Fire(s), Flood(s), Explosion(s), Epidemic, Quarantine Restrictions, Acts of State or Acts of God, hereinafter referred to as

eventualities, then the Contract period will get extended for the period of Force Majeure, provided Notice of the happenings of any such eventualities is given, supported by a certificate of

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appropriate authority or Chamber of Commerce by either party to the other within 15 days from the date of occurrence thereof. Neither party shall by reason of such eventualities be entitled to terminate this contract nor shall either party have any claim for damages against the other in respect of such non-performance or delay in performance. Work under this contract shall resume as soon as practicable after such eventualities have come to an end or ceased to exist. Should one or both parties be prevented from fulfilling their contractual obligations by state of Force Majeure lasting continuously for a period of at least three months, the parties shall consult each other regarding further continuation of the Contract.

44. Dispute Redressal Committee:

All disputes can be addressed by amicable settlement by a committee constituted by Mission Director, National Health Mission, Meghalaya.

45. Declaration by the Tenderer:

The Tenderer shall be required to declare whether the proprietor or any partner of the firm or Director of their company as the case may be, has any relation to any employee working with the Purchaser and if so, give the name of the employee and the relationship.

46. Waiver:

Failure to operate or to enforce any condition under this Contract shall not operate as a waiver of the condition itself or any subsequent breach thereof.

47. Payment Terms:

Payment will be made after successful execution of the order in totality or postal delivery, inspection, acceptance and Receipts of the Goods. The bidder should submit the bills/invoices with a copy of delivery Challans and installations – duly acknowledged by the Purchaser and order copy with a satisfactory inspection report of the designated Technical Committee after Delivery duly signed and accepted should be submitted at Mission Director, National Health Mission, Meghalaya, Laitumkhrah, Shillong Meghalaya in original. Three copies of each document should be made and one copy handed over to the authority at the delivery site.

48. FALL CLAUSE:

The prices quoted for the material supplied under this tender by the Supplier shall in no event exceed the lowest price at which the Supplier sells or offers to sell similar material in similar volume of identical description to any person(s)/organization(s) including the Purchaser or any other Mission Director, National Health Mission, office located at any other place in India. If at any time during the said period, the supplier reduces the sale price, sells or offers to sell such stores to any person(s)/organization(s) including the Purchaser or any Statutory Undertaking of the Central or a State Government, as the case may be, at a price lower than the price chargeable under this contract, he shall forthwith notify such reduction or sale or offer to sale to the Purchaser and the price payable under the contract for the material supplied after the date of coming into force of such reduction or sale or offer of sale stand correspondingly reduced.

49. Blacklisted:

An Affidavit on a Non Judicial Stamp Paper of Rs. 10/-, attested by a Notary Public (In Original) that there is no vigilance / CBI Case or arbitration cases pending with the Government of Meghalaya against the Form/Supplier that the Proprietor/Director/Members of the Board of Directors of the Bidder and the Principal Manufacturer on whose behalf they have quoted has never been blacklisted by any Institution (Government or Public).

50. SAVING CLAUSE: No suit, prosecution or any legal proceedings shall lie against Bid Inviting Authority or any person for anything that is done in good faith or intended to be done in pursuance of the Tender

50 (a). Conflict of Interest. Bidder represents and warrants the following:

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No Current or Prior Conflict of Interest. That bidder has no business, professional, personal, or other interest, including, but not limited to, the representation of other clients, that would conflict in any manner or degree with the performance of its obligations under this Tender.

Notice of Potential Conflict. If any such actual or potential conflict of interest arises under this tender, bidder shall immediately inform the authority in writing of such conflict.

Termination for Material Conflict. If, in the reasonable judgment of the authority, such conflict poses a material conflict to and with the performance of bidder's obligations under this tender, then the Authority may disqualify or terminate the Agreement immediately upon written notice to bidder; such termination shall be effective upon the receipt of such notice by bidder.

51. GENERAL TERMS AND CONDITIONS

➢ **For Lab consumables items**

a) Bidders should have a valid Drug License from the Licensing authority
b) Bidder should not be submitted for the product/products for which the concern/company stands blacklisted/banned/debarred either by Bid inviting Authority or Govt. of Meghalaya or its departments on any ground. The Bid should not be submitted for those products also for which the concern/company stands blacklisted/banned/debarred by any other State/Central Govt. or it's any agencies (central Drugs procurement agencies) on the ground of conviction by court of law or the products being found spurious or adulterated.
c) If any product of a company/firm have been declared as not of standard quality, as per Drugs & Cosmetics Act during last 2 years anywhere, such concern/company/firm shall not be eligible to participate in Bid for such product/products.
d) The concern/firm/company whose product has been declared as of spurious or adulterated quality and any criminal case is filed and pending in any court shall not be eligible to participate for that particular product, in the Bid. Similarly convicted firm/company shall also not be eligible to participate in the Bid.
e) Bidder should furnish at least 1 year market standing of the manufacturer for the items quoted in the bid. Market Standing Certificate issued by the Licensing Authority / competent authorities as a Manufacturer for the product for last 1 year should be enclosed with list of items.
f) Non-conviction Certificate issued by the Drugs Controller of the State. It should be recent
g) GMP/GLP Certificate issued by the Licensing Authority. The GLP certificate must be recent.
h) The Manufacturer shall also furnish an undertaking declaring that the Manufacturer complies with the requirements of GMP /GLP.
i) Suppliers should supply goods which comply with (i) all provisions of specifications and related documents (ii) meet the recognized standards for safety, efficacy and quality (iii) are fit for the purpose made (iv) are free from defects in workmanship and in materials and (v) the product has been manufactured as per GMP/GLP, failing which payment of the same will not be made.
j) The protocol of the tests should include the requirements given in the recommended quality standard and those required specifically for the product specifications. The Bidder must submit its Test/ Analysis Report for every batch of drug along with challan and invoice. In case of failure on the part of the supplier to furnish such report, the batch of lab items will be returned back to the supplier and he/she is bound to replenish the same with approved (NABL) laboratory test report/ICMR. The supplier shall provide the validation data of the analytical procedure used for assaying the components and shall provide the protocols of the tests applied when demanded for the purpose of testing.
k) The items shall have the active ingredients within the permissible level throughout the shelf life period. The samples may also be drawn periodically during the shelf life period. The supplies will be deemed to be completed only upon receipt of the quality

certificates from the laboratories. Samples which do not meet quality requirements shall render the relevant batches liable to be rejected. If the sample is declared to be Not of Standard

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Quality or spurious or adulterated or misbranded, such batch/batches will be deemed to be rejected.

l) In the event of the samples of the lab items supplied failing quality tests or found to be not as per specification the ordering authority is at liberty to make alternative purchase of items of drugs and medicines for which the Purchase orders have been placed from any other sources or from the open market or from any other Bidder who might have quoted higher rates at the risk and the cost of the supplier and in such cases the ordering authority has every right to recover the cost and impose penalty as mentioned.

m) The products should conform to the standards quality or as the case may be. In case the product is not included in the said compendium, the supplier, upon award of the contract, must provide the reference standards and testing protocols for quality control testing.

n) Samples whenever required, for valuation shall be provided by the supplier at free of Cost.

o) It shall be the responsibility of the supplier for any shortage/damage at the time of receipt at the designated places.

p) The remaining shelf life of the lab items at the time of delivery should not be less than 90% of the labeled shelf life. Only those bidders shall quote who can supply the product with the required shelf life. The product of labeled shelf life lesser than required shelf life will not be accepted. The product should not have such storage condition requiring it to be stored below 2°C.

q) Box Should contain Embossment of NHM logo and 'NOT FOR SALE'.

r) Every corrugated box should carry a large outer label clearly indicating that the product is for "National Health Mission-Meghalaya Govt. Supply-Not for Sale"

s) Replacement should be provided by the supplier 3months before the expiry for the total volume available at the NHM-warehouse-Meghalaya. A letter will be issued by the authority to the supplier for the quantity of expiry, date of expiry and instruction for replacement and supplier shall have no objection for providing replacement of expired items at NHM warehouse.

➢ **For supply and installation of Lab Equipments:**

i. Qualified Bidders are required to arrange a demonstration of the equipment, preferably in the office of Mission Director, NHM Laitumkhrah, and Meghalaya Shillong. The Tenderer demonstrate the Equipment at office of Mission Director, NHM on date fixed by the technical committee duly constituted by competent authority. Failure to arrange for a demonstration on the given date may lead to cancellation of the bid. Cost of organizing such demonstration shall be borne by the bidder.

ii. Tenders should be quoted only by the actual manufacturer or their authorized distributors or selling agent of a particular firm. The bidder is responsible for the supply of stores. If the Principal Manufacturer withdraws rights of distribution from the bidder during validity period of rate contract, Mission Director, NHM Meghalaya has right to cancel the eligibility of the bidder and accept the candidature of new coming authorized distributor. For supplying items at approved rates, new coming firm may have to deposit the EMD, subject to approval from the authority.

iii. The model of the equipment offered should not be obsolete /out of production for next 5 years.

iv. CMC period (as specified in Annexure-I Onsite CMC including Spare Parts & Labour etc.)

a) Tenderer and Manufacturer should give an undertaking stating that "The equipment being offered is the latest model as per the specifications and the spares for the equipment will be available for a period of at least 5 years after the CMC period.

b) Guarantee/warranty to the effect that before going out of production of spares parts , the manufacturers and/or tenderers will give adequate advance notice to the purchaser of the equipment so that the later may undertake to procure the balance of the life time requirements of spare parts.

c) The supplier warrants comprehensively (period as specified in Annexure:I) for Onsite CMC including Spare Parts & Labour etc. that the Equipment/Stores supplied under the contract is new, unused and incorporate all recent improvements in design and materials unless prescribed otherwise by the purchaser in the contract. The supplier further warrants that the Equipment/Stores supplied under the contract shall have no defect arising from design,

materials (except when the design adopted and / or the material used are as per Purchaser's/Consignee's specifications) or workmanship or from any act or omission of the

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supplier that may develop under normal use of the supplied Equipment under the conditions prevailing in India.

d) No conditional CMC like mishandling, manufacturing defects etc. will be acceptable.
e) Comprehensive Maintenance contract should be inclusive of all accessories and Turnkey work.
f) Replacement and repair will be under taken for the defective Equipment/Stores.
g) Proper marking has to be made for all spares for identification like printing of installation and repair dates.
h) The firm will be required to warranty/guarantee that during the CMC period as well as during the service contract period, the equipment including the accessories will be maintained in good working condition for a period of 347 days out of a period of 365 days (i.e. 95% uptime).

v. Upon receipt of such notice, the supplier shall, within 48 hours on a 24 X 7 X 365 basis respond to take action to repair or replace the defective Equipment/Stores or parts thereof, free of cost, at the ultimate destination. The supplier shall take over the replaced parts/Equipment/Stores after providing their replacements and no claim, whatsoever shall lie on the purchaser for such replaced parts/Equipment/Stores thereafter. The penalty clause for non- replacement will be applicable as per tender conditions mentioned above or as decided by the Mission Director.

vi. The tenderer hereby declares that the goods/equipment/stores/articles supplied to the buyer under this contract shall be of the best quality and workmanship and shall be strictly in accordance with the specifications and the particulars contained/mentioned in the clauses here of and the tenderer hereby guarantee/ warrant that the said goods /equipment / stores/ articles conform to the description and quality aforesaid. The purchaser will be entitled to reject the said goods/equipment/stores/articles or such portion thereof as may be discovered not to conform to the said description and quality as follows:-

a. Tenderer should state categorically whether they have fully trained technical staff for installation/commissioning of the equipment and efficient after sales services.
b. It is specifically required that the tenderer will supply all the operating and service manuals along with blue-prints and drawings including circuit diagram of the equipment supplied as well as its components.
c. If the supplier, having been notified, fails to respond to take action to replace the defect(s) within 48 hours on a 24 X 7X 365 basis, the purchaser may proceed to take such remedial action(s) as deemed fit by the purchaser, at the risk and expense of the supplier and without prejudice to other contractual rights and remedies, which the purchaser may have against the supplier.
d. During CMC period, the supplier is required to visit at consignee's site at least once in 3 months commencing from the date of the installation for preventive maintenance of the Equipment/Stores.

vii) Onsite GUARANTEE/CMC inclusive of all Spares and Labour: -
The bidder will give an onsite guarantee/ CMC for trouble free functions and maintenance of the equipments including spares and labour from the date of installation, commissioning and acceptance of the equipments.

viii) Bidders are required to quote strictly as per specification of the equipment. Deviation to specification must be brought out clearly giving deviation statement in Annexure-II.

ix) Additional features (in case of equipment), if any, should be listed separately in the offer.

x) The firms should confirm that the equipment is brand New, is of latest technology and have facility for up gradation, if necessary.

xi) The Mission Director, NHM Meghalaya has full authority to take into account the performance of manufacturer/authorized dealer or distributor/bidder and they should submit (if asked) a latest performance certificate from any other Govt. Hospitals/Institutions/PSUs to testify the proper dealing & performance as well as installation and maintenance of equipment.

x) The minor nature in works like minor Electrical/Civil Works, if required for Equipment installation, will carried out and borne by the Successful or L1 bidder, and for this purpose no extra payment, what so ever will not paid by Mission Director, NHM Meghalaya to any bidder.

Note: All bidders should quote equipment/items with following approved standards/requirement:-

a) All equipment should be as per the approved quality standard .
b) Manufacturers/Suppliers should have ISO certification for quality standards
c) Electrical safety conforms to standards for electrical safety.

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d) All Literature (Log Book/Maintenance Record/Troubleshooting/Operation Manuals etc.) supplied with each of equipment by Principal Manufacturer should be in Original.

e) All consumables required for installation and standardization of equipment should be supplied free of cost with Equipment.

f) All required Training to the associated concerned staff at Client Site (i.e. as specified at page no. 4 clause 3(a) under Term of delivery) should be organized by the Tenderer on his cost.

Arbitration:

i) In the event of any question, dispute or difference arising under this contract (except as to any matters the decision of which is specially provided for by the general or the special conditions.), the same shall be referred to the sole arbitrator or an officer appointed to be the arbitrator by the Mission Director NHM Meghalaya. It will be no objection that the arbitrator is a Government Servant or that he had to deal with the matters to which the contract relates or that in the course of his duties as a Government servant he has expressed views on all or any of the matters in dispute or difference. The 'Award' of the arbitrator shall be final and binding on the parties to this contract.

ii) In the event of the Arbitrator dying, neglecting or refusing to act or resign or being unable to act for any reason, or his Award being set aside by the Court for any reason, it shall be lawful for the Mission Director NHM Meghalaya to appoint another arbitrator in place of the outgoing arbitrator in the manner aforesaid.

(iv) It is further a term of this contract that no person, other than the person appointed by the Mission Director NHM, Meghalaya as aforesaid, should act as arbitrator and that, if for any reason that is not possible, the matter is not to be referred to Arbitration at all.

(v) Upon every and any such reference, the assessment of the costs incidental to the reference and Award, respectively, shall be at the discretion of the arbitrator.

(vi) Subject as aforesaid, the Arbitration Act, 1996 as amended and the rules there under and any statutory modification thereof for the time being in force shall be deemed to apply to the Arbitration proceedings under this clause.

(vii) The venue of arbitration shall be the place from which formal Acceptance of Tender is issued or such other place as Mission Director NHM Meghalaya at his discretion may determine.

SPECIFICATIONS

All equiments must comply to Product quality standards and CMC period
All equipments should be provided with 5 years CMC periods.

51. Annexure – I
LIST OF ITEM WITH SPECIFICATIONS

A. LIST OF ITEM WITH SPECIFICATION:

1. Digital Colorimeter

Sl No	Specification
1.	It Should have a High standard glass filters - 8 No
2.	It should have a Mini Volume - 1ml
3.	It should have a min Display – 2.5 Digit LED
4.	It should have a Range - 400 to 700nm
5.	It should have a Output - OD (0 to 2.00)
6.	It should have an Accuracy - ± 0.02(OD)±1digit T(FS) : ±1%
7.	Preferred Detector Photocell - High Sensitive Photo diode
8.	Light Source - 6V, 10W Tungsten filament lamp

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9.	It should work on Power Supply - 230 V ± 5%, 50 Hz AC, Battery Backup Facility - 12 V (Optional)
10.	It should have - 8 Filter, 400, 490, 520, 540, 590, 620, 650, 700nm
11.	Preferred Dimension - 290x315x210mm and Weight - 5 kg net
12.	It Should be certified by ISO, IEC, CE/USFDA.

2. Rotor/Shaker

Sl No	Specification
1.	Inside S.S. 316 mirror finish seamless pot (argon welded) which avoid water leakage problems, Outer S.S. 304 with dull smooth buff finish.
2.	Temperature Range Should be 5℃ above ambient to 95℃
3.	Temperature Accuracy should be ± 0.50C
4.	Imported microprocessor based auto tuned PID controller with CE mark &dual display of set value &process value for precise control of temperature.
5.	Shaking Speed should be from 40 to 120 RPM
6.	Digital RPM Controller &Indicator should be present.
7.	Digital Timer should indicate 0-999 (Hr / Min / Sec) with Alarm
8.	It Should have ISO and CE/USFDA Certification
9.	Horizontal Model, with Double Walled Construction
10.	2" Thick PUF Insulation should be provided
11.	It should work with 230V AC, single Phase 50Hz

3. Blood Cell Counter

Sl No	Specification
1.	Should be designed for easy handling
2.	Should eliminate calculation while counting different blood cells
3.	Differential Blood Cell Counter should incorporate the latest microprocessor based technology to pack the features of differential counting and percentage calculation in a single instrument to ease the blood cell counting procedures.
4.	Should consist of 7 segments LED Displays
5.	Should have touch key pads.
6.	Should have 3 Nos control keys, i.e., for Total percentage & Clear
7.	Should have 12 Nos differential counting keys
8.	Should have beep sound for each key depression to confirm entry in the respective memory unit
9.	Should have fibre glass cabinet in desk top model shape.
10.	Percentage of each cell count should be possible at any stage
11.	Should be supplied complete with cord and plug.

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	Should be suitable to work on 220V, single phase, 50 Hz, AC Supply.
12.	
13.	Should have ISO, CE/USFDA Certification

4. Autoclave

Sl No	Specification
1.	It should have CE Certification & ISO Certification, GMP Model SS 316.
2.	It should have vertical double walled design
3.	It should have single chamber for Steam & water
4.	It should have Lid. flange & bottom sheet made of S.S, all joints Argon welded
5.	It should have Joint less silicon Gasket. Heavy duty industrial flange heater.
6.	It should have Supplied with Microprocessor Based Digital Temperature controller with inbuilt Timer
7.	It should have low water level cut off system with magnetic float switch for heater's safety.
8.	It should have automatic purging of steam with solenoid valve.
9.	It should have lid fitting pressure gauge 0-30 PSI, safety spring loaded pressure valve, steam release valve.
10.	It should have Foot lifting arrangement.
11.	It should have safety digital temperature controller.
12.	It should have safety pressure control switch
13.	It should have S. S Rod Basket.
14.	It should have safety high pressure release valve
15.	It should have vacuum breaker & self-purging system
16.	It should have 230V AC, Single Phase, 50 Hz.
17.	It should have inside S.S. 316 mirror finish and outer SS 304 mirror finish.
18.	It should have Temp. Range 121℃ to 125℃ factory set at 121°C
19.	It should have Pressure Range 15 to 22 PSI, factory set at 15 PSI

5. Fully Automated Multi Parametric Immunoassay Analyzer

Sl No	Specification
1.	The system should be fully automated walkway Immunoassay analyzer based on ELFA technology.
2.	The system should have independent sample processing section with each section of having minimum six tests at a time.
3.	The system should be based on disposable single dose concept with ready to use reagent strips & solid phase receptacle (SPR)
4.	The system should be free from any tubing for mixing of reagents.
5.	The system should have dry calibration card or barcode which should be provided with each kit.

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6.	The kits should have maximum pack size of 60 tests with all the reagents including calibrator & control provided inside – no additional reagents for running the test.
7.	The test kit should have Thyroid, Fertility, Infectious Diseases, Drug Assays (Digoxin) & some emergency tests like HS Troponin I, Myoglobin, CK-MB, HIV-4th Gen. & D-Dimer Exclusion, Galectin -3 also Toxoplasma & CMV Avidity & Hepatitis Markers and also AMH
8.	Calibration stability should be at least 14 days or 28 days.
9.	All reagents should be bar coded and shelf life of the kit should be at least 6 months.
10.	User friendly graphic interface and automated barcode identification with complimentary updates of software.
11.	Comprehensive training for lab staff and support service at free of cost.
12.	Should have software and hardware to communicate with laboratory personal computer.
13.	Should be FDA or CE or ISI approved product.

6. Water Bath

Sl No	Specification
1.	GMP Model Inside S.S. 316 mirror finish seamless pot (argon welded) which avoid water leakage problems. Outer S.S. 304 with dull smooth buff finish.
2.	Temperature Range 5℃ above ambient to 95℃
3.	Temperature Accuracy ± 0.5℃
4.	Control System Imported microprocessor based auto tuned PID controller with CE mark &dual display of set value &process value for precise control of temperature.
5.	Shaking Speed 40 to 120 RPM
6.	Speed indicator Digital RPM Controller &Indicator.
7.	Digital Timer 0-999 (Hr / Min / Sec) with Alarm
8.	It Should have ISO and CE/USFDA Certifications

7. Bacteriological Incubator

Sl No	Specification
1.	It should have CE Certification & ISO Certification
2.	It should have double walled construction with backside triple
3.	It should have 3" Thick PUF Insulation ensures stable temperature & reduced energy consumption.
4.	It should have motorized blower on back side of the chamber develops unique air flow system which ensures maximum uniform temperature distribution inside the chamber.
5.	Unique air flow assures quick recovery after door openings.
6.	It should have 1/12 HP, TEFC , F-class insulation, Single Phase, 1440 RPM, 230 Volts
7.	It should have high quality S.S. Tubular Heaters are used for better heating conditions.

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8.	It should have Full view Acrylic door with gasket to view samples inside the chamber.
9.	It should have specially designed stainless steel rod trays ensure uniform temperature distribution
10.	It should have additional Safety cum stand by thermostat to cut of heater supply in case temperature of overshoot.
11.	It should have Fiber/PU Wheel with front lockable for easy movement. (available for 100Ltr. Capacity onwards)
12.	It should have MCB for electrical safety
13.	It should have adjustable tray height arrangements.
14.	It should have 230 V AC, Single Phase, 50 Hz.
15.	It should have inside S.S. 304 mirror finish & outer S.S. 304 with dull smooth buff finish
16.	It should have Temp. Range 5℃ above ambient to 80°C
17.	It should have Temperature Accuracy : ± 0.2°C
18.	It should have Temperature Uniformity : + 1℃
19.	It should have Safety digital temperature controller with accessories
20.	It should have Digital Timer 0-999 (Hr / Min / Sec) with Alarm
21.	It should have Imported Microprocessor based auto tuned PID controller with CE mark & dual display of set value & process value for precise control of temperature.

8. Deep Freezer (-86 deg C)

Sl. No	Specification
1	**Control System should be** • Microprocessor-controlled • Android control HD Intelligent Touch screen Inside temperature from -40°C to -86°C • Platinum resistor based temperature sensors • Door with hot gas pipe surrounding for defrost • Large display for better view • Battery powered • Controller have password protection • 200 User ID no.
2	**Safety alarm system should include** • High/Low temperature • High ambient temperature • Sensor Error • Door Ajar • Low Battery • Power failure • Remote Alarm • USB datalog failure • Condenser overheating • Main board communication error
3	**Refrigeration System should have** • High-efficiency compressor and EBM fan

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	• ~~Manual Defrost~~ • Direct cooling system • Two-layer insulated foamed door with double seal • CFC-free refrigerant for environmental protection & safety • High-efficiency air-cooled condenser and coil evaporator
4	**Structure Design should include** • External high quality structure • Assisting handle and vacuum release port • Equipped with a built-in USB datalogger • High performance Vacuum Insulation Panel (VIP) • The low noise design can create a comfortable work environment • Standard access port • Optional- WiFi/Bluetooth printer/Swipe card/Fingerprint/Facial recognition

9. Deep Freezer (-25 deg C)

Sl. No	Specification
1	**Control System should be** • Microprocessor-controlled • Inside temperature from -10°C to -25°C • Large display for better view • Digital controller • Battery powered
2	**Safety alarm system should include** • High/Low temperature • High ambient temperature • Sensor Error • Low Battery • Door Ajar • Power Failure • Remote Alarm USB datalog failure
3	**Refrigeration System should have** • Equipped with robust compressor • Manual Defrost • Direct cooling system • CFC-free refrigerant • High-efficiency air-cooled condenser Wire tube evaporator
4	**Structure Design should include** • External high quality structure • Cabinet is equipped with drawers • Built-in USB datalogger • Polyurethane Insulation • The low noise design • Standard access port

10. Fluorescent Microscope

Sl. No	Specification

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1	The system should be a single compact integrated unit including: microscope, digital camera, computer, modular high-power fluorescence lighting system and LCD display with a smaller foot print
2	The system should include independent high output LED illuminators with integrated hard coated fluorescence band-pass excitation and emission filters for each
3	The system should have a condenser with 60 mm working distance and a 4-position turret with one clear aperture and 3 phase annuli.
4	The condenser should include a white light LED for transmitted illumination.
5	The condenser should include a novel LED-based RGB illumination scheme to enable high-quality, low-noise color image acquisition on a monochrome sensor.
6	The LED illuminators should have a lifetime of at least 50,000 hours at 100% power
7	The system should simultaneously accommodate 4 fluorescence LED light cubes and should come with filters (Ex/Em): DAPI (360/447 nm), GFP (470/525 nm), RFP (531/593) nm.
8	System must have the ability for the up gradation of Fluorescence in future.
9	The system should have an integrated high-sensitivity monochrome CMOS camera with at least 3 MP with 3.45 µm pixel resolution.
10	The system enables the capture of images in epifluorescence, transmitted light (brightfield and phase contrast) and color.
11	It should have ISO, CE/USFDA Certification

11. Vertical Laminar Flow

Sl No	Specification
1.	CE Certification should be available
2.	It should have Anodized Aluminium Filter
3.	Mini pleatHEPA Filter Efficiency should be EU-13 rating (99.997% down to 0.3 micron) Type- Box, Make- MAP Filter, Gasket- Silicon, Media- Micro Glass Fiber paper
4.	Pre Filter Efficiency should be EU – 5 rating, Efficiency: 95% down to 5 micron Type- Flange type washable, Make- MAP Filter, Gasket- Neoprene, Media- Synthetic Media with HDPE Net, Non-Woven Type
5.	Face Velocity Face Velocity of HEPA is adjustable from 90 ± 20 FPM or 0.45 ± 0.05m/s
6.	Air Quality Satisfy ISO 5,Class 100 requirements as per ISO-14644 &IEST-RP-CC001.3dv
7.	Blower motor Make - EBM NADI BLOWER, Single Phase, Type- Backward Curved Centrifugal fans, MOC- Aluminium Body, Noise -Dynamically &Statically balanced blower for less vibration &noise level.
8.	Instrumentation &Accessories: U.V Light – Of Philips Make, Fluorescent Lighting to provide an intensity of 300 Lux, Front sliding door acrylic should be provided.
9.	Magnehelic Gauge Analog type Gauge of range: 0 to 25 mm should be available
10.	Electrical and Other Accessories should be available are : On /Off Switch for Motor Blower Electrical Interlocking between U.V. Light and Florescent light (220V, 5A Single Phase, 50Hz, Lighting additional power point. Leveling Legs. Castor wheels.
11.	Should be SS 304 Table &Outer G.I.Powder coated

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12.	GMP Model S.S. 316 &Outer SS 304 Matt Finish

12. Digital Thermometer with -50 C to +150 C Measurement range at interval of 0.1 C

13. Hot Air Oven (Digital)

Sl No	Specification
1.	It should have CE Certification & ISO Certification
2.	It should have tripled walled construction.
3.	It should have 3" High grade heavy glass wool insulation ensures stable temperature & reduced energy consumption.
4.	It should have motorized blower on top side of the chamber develops unique air flow system which ensures maximum uniform temperature distribution inside the chamber. Unique air flow assures quick recovery after door openings
5.	It should have 1/12 HP, TEFC, F-class insulation, Single Phase, 1440 RPM, 230 Volts
6.	It should have S. S. tubular heating elements used on side walls to maintain uniform condition inside the chamber.
7.	It should have safety cum stand by thermostat to cut off the heater supply in case of overshoot of temperature.
8.	It should have single door fitted on heavy cast and chromium plated hinges with spring.
9.	It Should have an adjustable tray at a height of 25mm
10.	It should have Specially designed Stainless-Steel Rod Trays which ensure uniform temperature distribution
11.	It should have 230 V AC, Single Phase, 50 Hz.
12.	It should have inside S.S. 304 mirror finish and outer Mild steel (CRCA) sheet with powder coated.
13.	It should have Temp. Range 5℃ above ambient to 300˚C
14.	It should have Temperature Accuracy: ± 0.2˚C
15.	It should have Temperature Uniformity: ± 1˚C
16.	It should have Safety digital temperature controller with accessories
17.	It should have Digital Timer 0-999 (Hr. / Min / Sec) with Alarm
18.	It should have Imported Microprocessor based auto tuned PID controller with CE mark & dual display of set value & process value for precise control of temperature.

14. AUTOMATED MICROBIAL GROWTH DETECTION & MONITORING SYSTEM

Sl No	Specification
1.	The system should be of 120 positions.
2.	The system should be fully automated and should be capable of detecting growth of the pathogenic micro-organisms from blood &sterile body fluids.
3.	The system should have the facility of detection of Mycobacteria, along with blood & other sterile body fluids together in the same system itself.
4.	The system should be able to detect fungal, aerobic and anaerobic organism from the blood.

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5.	The system should have the capability to process samples of adult and pediatric patients and should have dedicated media for pediatric samples.
6.	The system should have the capability of continuous monitoring of the clinical samples.
7.	The system should use the Colorimetric technology for microbial growth detection.
8.	The system should have the capability of analyzing and detection of delayed entry of specimens at growth, stationary and decline stage (both log & lag Phase)
9.	The media provided for blood, sterile body fluid or fungal culture should be provided with additional adsorbent beads, which will help in antibiotic neutralization.
10.	The system should use plastic bottles for safety and ease of disposal.
11.	The product should be US-FDA Approved for both Blood and other sterile body fluids.

15. AUTOMATED IDENTIFICATION & ANTIMICROBIAL SUSCEPTIBILITY SYSTEM

Sl No	Specification
1.	System must work on colorimetric technology for identification and Turbidometric technology for susceptibility testing.
2.	The system must have the capacity to accommodate a maximum of 30 tests (either 30 ID and/or AST tests), at any time.
3.	The system must have a bar code scanning device for test card identification and specimen number entry.
4.	The system must have Identification & Antibiotic sensitivity cards for Gram negative, Gram positive & Cellular Yeasts.
5.	The system must have Identification cards for Fastidious & Anaerobic organisms.
6.	The System should have database of at least 4000 reference phenotypes.
7.	The system should provide highest discrimination between species
8.	The system must have separate cards for Identification and Susceptibility testing
9.	The software must have the following capabilities – Workflow management. – Data storage. – Test quality control management. – Test result validation capability and ability to detect antibiotic resistant bacteria.
10.	The system must have the ability to check the quality of test results and stop for validation by Microbiologists.
11.	The system must follow latest International guidelines like CLSI or EUCAST etc.
12.	The system software must have the ability to alert to any unusual resistance mechanism.
13.	The system must have no additional reagent costs. If additional reagent costs are required please supply details including cost and preparation time.
14.	The supplier must state performance of identification cards.
15.	The Supplier must state the mean time to result for identification for Gram negative, Gram positive and Yeast.
16.	The system size should not be more than 72 cm X 68 cm X 60 cm.

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16. Incubator

Sl No	Specification
1.	It should have CE Certification & ISO Certification
2.	It should have double walled construction with backside triple..
3.	It should have 3" Thick PUF Insulation ensures stable temperature & reduced energy consumption.
4.	It should have motorized blower on back side of the chamber develops unique air flow system which ensures maximum uniform temperature distribution inside the chamber. Unique air flow assures quick recovery after door openings.
5.	It should have 1/12 HP, TEFC , F-class insulation, Single Phase, 1440 RPM, 230 Volts
6.	It should have high quality S.S. Tubular Heaters are used for better heating conditions.
7.	It should have Full view Acrylic door with gasket to view samples inside the chamber.
8.	It should have specially designed stainless steel rod trays ensure uniform temperature distribution
9.	It should have additional Safety cum stand by thermostat to cut of heater supply in case temperature of overshoot.
10.	It should have Fiber/PU Wheel with front lockable for easy movement. (available for 100Ltr. Capacity onwards)
11.	It should have MCB for electrical safety
12.	It should have adjustable tray height arrangements.
13.	It should have 230 V AC, Single Phase, 50 Hz.
14.	It should have inside S.S. 304 mirror finish & outer S.S. 304 with dull smooth buff finish
15.	It should have Temp. Range 5℃ above ambient to 80°C
16.	It should have Temperature Accuracy : ± 0.2°C
17.	It should have Temperature Uniformity : ± 1°C
18.	It should have Safety digital temperature controller with accessories
19.	It should have Digital Timer 0-999 (Hr / Min / Sec) with Alarm
20.	It should have Imported Microprocessor based auto tuned PID controller with CE mark & dual display of set value & process value for precise control of temperature.

17. Needle Syringe Destroyer

Sl No	Specification
1.	It should be durable shock proof ABS Body
2.	It should be rust proof SS Blade for Long Life
3.	It should have 2-5 Amp 2/3/4 glass cartridge type fuse for protection
4.	It should work on Power 220-250V AC Supply 50-60 Hz
5.	It should be supplied with Power Cord wit suitable plug
6.	It should be Compact Desktop machine to Burn and Destroy the used needle

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	and syringe Shock proof, user protection.
7.	It should have a Single point operation
8.	It should be Portable
9.	It should be Maintenance Free
10.	It should have a Removable Waste Tray
11.	It should have Non inflammable ABS
12.	ISO and IEC Certification required. EC/USFDA certification also needed.

18. Fully Automated Multiplex PCR System Used for Syndromic Testing

Sl No	Specification
1.	Molecular system should be based on Nested PCR technology and detection by DNA microarray technology.
2.	The detection should be based on dye hybridization and high resolution melting curve analysis (HRM).
3.	Reports should be generated automatically without setting any threshold or manual base line adjustments.
4.	System should be able to do the comprehensive multiplex infectious syndrome based testing at one go (comprehensive panels) such as respiratory pathogens panel, gastrointestinal pathogens panel, Blood culture pathogens panel and meningitis pathogens panel.
5.	System should be very compact and should not require molecular setup or infrastructure such as pre PCR area, Amplification area and post PCR area.
6.	Should have minimum manual hands on time less than 5 min and results should be available within 70 mins.
7.	Gastro intestinal panel should detect bacteria, viruses as well as protozoa, especially for organisms like – vibrio, V cholera, Shigella, Diarrheagenic, E. coli, Rota Virus, Entamoeba, Cryptospordium etc. directly from stool samples.
8.	Blood culture ID should detect most common gram positive, gram negative bacteria and Fungus (Yeast) with antibiotic resistance genes especially – *mecA*, VanA/B and KPC.
9.	Respiratory panel should combine- viral and bacterial targets directly from nasopharyngeal swab.
10.	Pneumonia Panel should be a semi quantitative test, which should include antibiotic resistance genes especially, **ESBL:** CTX-M, **Carbapenemases:** KPC, NDM, Oxa48-like, VIM, IMP, **Methicilin Resistance:** mecA/mecC and MREJ
11.	Reagents (Kit) should have US FDA / DCGI / CE-IVD certification.

19. Centrifuge (4 Tube/8 tube/16 tube)

Sl No	Specification
1.	Centrifuge should have the capability with maximum rotor options
2.	Should have the rotor to accommodate blood tubes, micro tube, capillary tubes as well 50ml conical and Micro plate in same centrifuge
3.	Should have microprocessor control system suitable for routine as well as research purpose with brushless induction motor
4.	Centrifuge should have safety features like ease in change of rotors while switching between application, certified bio containment lid, imbalance rotor detection. It should also have. Should have bio containment lids for individual

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	tube whenever required to ensure safety for contagious samples
5.	Should provide ease of exchanging rotors in 3-4 seconds preferably without any complicated tools or key suitable for multi-user environment.
6.	Should have Optional indicators at end of run, including automatic lid opening, full flashing display and adjustable audible signal. One-touch operation with pre-saved protocols.
7.	Program-only mode limits the control of the centrifuge to the set program and the control quadrant (Start, Stop, Pulse and Open), ideal for controlled environments
8.	Rotors of centrifuge should be designed in such a way which will eliminate need of lubrication. MoC should be Corrosion-resistant, high-thermal conductivity, 304 grade stainless steel
9.	Should have maximum speed of 17850 RPM and RCF of 30279xg with fixed angle and temperature ranging from -10°C to +40°C. Centrifuge must have rapid pre-cooling option.
10.	Should have microprocessor, direct, brushless induction low profile motor. Time range should be 10 seconds to 99h, 59 minutes as well as continues.
11.	Should be UL listed, CE marked, IVD compliant, Certified Bio safety lids, RoHS compliant, WEEE compliant. System should also comply IEC 61010-1, IEC 61010-2-020, IEC 61010-2-101, EN 61326-1as technical standards.
12.	System Should be supplied with Clinical Rotor

20. Real Time PCR Machine

Sl. No	Specification
1	The system should be automated and integrated with 96 well peltier based for both realtime PCR and post-PCR (end-point) analysis with 6 independently controlled zones.
2	It should have interactive touch screen LCD for standalone operation with 8 - 10GB onboard memory for storage of at least 1600 - 2000 runs.
3	System should support minimum recommended reaction volume of 10–30 µL/10–100 µL for 0.1/0.2 mL block.
4	The Quoted System should support the temperature range from 40C to 990C with block ramp more than 6 0/sec, and run time less than 40 minutes.
5	System should have six de-coupled excitation and emission filter sets to enable collection of up to 21 unique combinations of wavelengths during a single run for multiplexing five colors or above.
6	The System should utilize a bright white LED source, excitation by LED light source with a > 5 years lifespan and detection by CMOS/CCD with whole plate imaging and detection.
7	The system should be factory calibrated for the following FAM/SYBR Green, VIC/JOE/HEX/TET, ABY/NED/TAMRA/Cy3, JUN, ROX/Texas Red, Mustang Purple, Cy5/LIZ, Cy5.5 dyes
8	The system should be able to do applications such as Gene Expression, Genotyping, Copy Number Variation, Pathogen Detection, Strain Typing, and Viral Load, Mutation Scanning, Methylation and other Epigenetic Applications, miRNA profiling, Protein analysis with proximity ligation assays and Protein Thermal Shift technology.
9	Features to assist with 21 CFR part 11compliance Security, auditing and e-signature, CE, ISO, and MIQE compliant.
10	System should detect differences in target quantity as small as 1.5-fold in single plex reactions, and should have 10 logs of linear dynamic range.
11	The system should be able to do single-plate analysis, absolute and relative gene expression, SNP genotyping, presence/absence, high resolution melt, multiplate analysis gene expression studies, SNP genotyping studies.
12	The normalization of reaction due to non-PCR related fluctuations should be possible by using any calibrated dye.
13	The system can be connected to the online ecosystem and instrument data/status

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	will be automatically uploaded, allow users to access and securely share result with colleague anywhere, anytime from any location with internet access
14	System should come with laptop with data analysis software (15" Laptop with 8GB RAM, Intel core i5 processor 2.6 GHZ 250 GB hDD, Windows 10 Professional SP1 64 bit)
15	System should come TaqMan™ RNase P Instrument Verification Plate, Taqman fast reagents starter kit,Optical adhesive Covers starter kit & 96-Well Reaction PCR Plate.

21. Hot Plate for culture media preparation

22.

Sl. No.	Main Components	Detailed Specifications
1.	Temperature Control	Hydraulic thermostat
2.	Protected thermometer	0°C to130 °C
3.	Hot plate surface	Protected by chemically treated aluminum, with heating elements distributed throughout the hotplate's surface
4.	External case	Enameled, resistant against corrosive chemicals.
5	Quality Standards	ISO, CE

Vortex Mixers

Sl. No.	Main Components	Detailed Specifications
1.	Speed Range	230V:0-2,850rpm,120V:0-3,400rpm
2.	Operating Modes	Touch or continuous
3.	Ambient Operating Range	+4°to 65°C
4.	Dimensions	3000cc
5.	Weight	2-2.5Kg
6.	Electrical	230V~,50Hzor120V~,6
7.	Quality Standards	ISO, CE

23. Multi-Channel Pipette (Octa pipette)

Sl. No	Specification
1	1) Should be user friendly.
2	2) Should have volume range 1-10 µl, 5-50, 10-100 µl, 30-300 µl, 100-1000 µl, 0.5-5ml, 1-10ml and in Multichannel Pipette: 1-10 µl, 5-50 µl, 30-300 µl, &100-1200 µl.
3	3) Pipette should have functional as well as calibration working range.
4	4) Should have 10 pipetting functions like: Forward pipetting, Reverse pipetting, dilution, multiple dispensing (Stepper Pipetting), mixing and dilution etc.
5	5) Should have 9 aspirates/ dispense speeds.
6	6) Should be personalized up to 9 programmes, save time and ensures accurate and precise results.
7	Easy in lab, 2 or 1 point calibration.
8	Should have fully Auto-clavable tip cone.
9	Should have color coding option for easy identification.
10	Long life lithium ion battery allows approximately 4,000 pipetting operations.
11	Should have best accuracy (%) in the market (depends on the volume).
12	120-degree rotatable Index finger pipetting operation.
13	Extremely lightweight construction.
14	5 Years CMC with web registration and Quality Certificates ISO, CE/USFDA should be produced

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24. Binocular Microscope LED with camera

Sl. No.	Specification
1	A single compact unit including: inverted microscope, digital color camera and LCD/ LED display.
2	Long life LED illumination (up to 50,000 hours).
3	The system should include a color camera built-in to the microscope base.
4	The system should include a 4-position objective turret.
5	The system should accommodate a minimum of 4 objectives at once.
6	The system can include four different phase-contrast LWD objectives (4x, 10x, 20x and 40x).
7	The system includes a rack and pinion focus mechanism.
8	The system includes an integrated high-sensitivity color interline CMOS camera with 3.1MP with 3.2 um pixels.
9	The system includes a mechanical, universal stage.
10	The system accommodates an optional mechanical stage for multi well plates or other vessels.
11	The entire system footprint, including all computer and monitor components does not exceed 21" high x 16" deep x 12.5" wide.
12	The system includes a high-resolution color LCD/LED display with adjustable tilt.
13	The system can be easily moved in and out of a cell culture hood or glove box.
14	The system consumes less than 20 W/h with all illumination sources turned to the on position.
15	The system includes two USB output ports.
16	The system provides direct output to a USB storage device.
17	The system generates the following output file formats: .jpg, .bmp .png and .tif.

25. Bunsen burner

Sl. No.	Main Components	Detailed Specifications
1.	Mains Input Supply Voltage	230VACat50/60Hz.
2.	Maximum Operating Temperature	800°C
3.	Case Construction	Stainlesssteel–Brushed finish.
4.	Heating Element Construction	Resistance coiled wire and ceramic coned former.
5	Quality Standards	ISO, CE

26. Bio Safety Cabinet Class II A

Sl. No	Specification
1.	The Bio-safety cabinets should be 4 feet width with front window must be a 10" sash opening and steel with smart coat interior
2	The Bio Safety Cabinet must include DC motors.
3	The motor must automatically adjust the airflow speed without the use of a damper to ensure continuous safe working conditions, even without maintenance adjustments.
4	Cabinet must use a pressure sensor (rather than anemometer) to detect pressure drop across the supply filter, rather than in just one point across the down flow.
5	The cabinet should display the inflow and down flow air velocities and must incorporate an LED Indicator, visual & audible alarm to indicate excessive HEPA filters loading, blower failure, airflow speed failure, Incorrect window position.
6	The front of the cabinet must be angled 10° to help minimize glare.

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7	~~The cabinet noise level must be less than 65 dB(A) for a 4-foot cabinet.~~
8	Cabinet with lights on and fan at operating speed should consume less than 400 watts or less
9	The cabinet must automatically reduce fan/blower motor speed to 30% when the front window sash is in closed position to ensure reduced energy consumption when the cabinet is not is use.
10	UV light must be programmable to allow for specific exposure times from 0 to 24 hours.
11	The Cabinet should have provision to fit taps for Vacuum, Water and Noncombustible gas.
12	The Bio safety Cabinet should be NSF certified with listing on NSF website.
13	The Bio safety cabinet should incorporate HEPA filter of the class H 14 EN 1822 or better and having minimum efficiency of 99.995% at 0.3 µm particle size.
14	Ventilation System Exhaust and Inflow air volume approx 300-350 CFM.
15	Audible and visual Alarms for HEPA filter failure, blower failure, airflow speed failure, Incorrect window position.
16	The cabinet should be provided with fixed / adjustable Height Stand, UV Light and one set of detachable arms rest and one / two electrical outlet.
17	The Drain Pan of the BSC should be made of Stainless Steel. The drain pan should not be painted, or power coated.
18	Cabinet should be CE certified and declaration of MOC should be provided.
19	Port provision for clean and safe routing for vacuum tubing and cables through the side of the BSC for improved organization and work efficiency.

27. Micro centrifuge Machine

Sl. No	Specification
1	Maximum RCF should be 21,000xg
2	Maximum Speed Should be above 14,600 RPM
3	HPA, Porton Down, UK for Biocontainment.
4	It Should have Large LED display for Time, Speed and Temperature
5	It should have Max Noise Level: 55dBA
6	Accelaration/ Deccelaration time should be 12 sec/13sec
7	It Should Have Time Set range 1 to 99 min, 1 min increments
8	Should have the facility Toggle between RPM and RCF
9	It Should have Induction maintenance free rotor
10	It Should have Wide Selection of following rotor for future upgrade • Dual Row rotor 18x2 plus 18x0.5ml for simultaneous run to two different volumes without using adapters. • 36x0.5ml rotor • PCR 4x8 (32x0.2ml)rotor with click seal Biocontainment lid. • PCR 8x8 (64x0.2ml)rotor
11	It Should be Supplied with rotor 24.1.5ml/2ml with click seal lid. The rotor should be tested for aerosol tight seal and certified for Biocontainment.
12	Should be ISO and CE Certified

28. Blood Gas Analyzer

Sl. No.	Technical Specifications
1	Principle: Direct measurement with ion selective & Amperometric electrodes.
2	Parameters: Easy parameter selection.
3	Sample Type: Whole blood (Arterial & Venous), serum plasma, CSF and diluted urine.

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24. Binocular Microscope LED with camera

Sl. No.	Specification
1	A single compact unit including: inverted microscope, digital color camera and LCD/ LED display.
2	Long life LED illumination (up to 50,000 hours).
3	The system should include a color camera built-in to the microscope base.
4	The system should include a 4-position objective turret.
5	The system should accommodate a minimum of 4 objectives at once.
6	The system can include four different phase-contrast LWD objectives (4x, 10x, 20x and 40x).
7	The system includes a rack and pinion focus mechanism.
8	The system includes an integrated high-sensitivity color interline CMOS camera with 3.1MP with 3.2 um pixels.
9	The system includes a mechanical, universal stage.
10	The system accommodates an optional mechanical stage for multi well plates or other vessels.
11	The entire system footprint, including all computer and monitor components does not exceed 21" high x 16" deep x 12.5" wide.
12	The system includes a high-resolution color LCD/LED display with adjustable tilt.
13	The system can be easily moved in and out of a cell culture hood or glove box.
14	The system consumes less than 20 W/h with all illumination sources turned to the on position.
15	The system includes two USB output ports.
16	The system provides direct output to a USB storage device.
17	The system generates the following output file formats: .jpg, .bmp .png and .tif.

25. Bunsen burner

Sl. No.	Main Components	Detailed Specifications
1.	Mains Input Supply Voltage	230VACat50/60Hz.
2.	Maximum Operating Temperature	800°C
3.	Case Construction	Stainlesssteel–Brushed finish.
4.	Heating Element Construction	Resistance coiled wire and ceramic coned former.
5	Quality Standards	ISO, CE

26. Bio Safety Cabinet Class II A

Sl. No	Specification
1.	The Bio-safety cabinets should be 4 feet width with front window must be a 10" sash opening and steel with smart coat interior
2	The Bio Safety Cabinet must include DC motors.
3	The motor must automatically adjust the airflow speed without the use of a damper to ensure continuous safe working conditions, even without maintenance adjustments.
4	Cabinet must use a pressure sensor (rather than anemometer) to detect pressure drop across the supply filter, rather than in just one point across the down flow.
5	The cabinet should display the inflow and down flow air velocities and must incorporate an LED Indicator, visual & audible alarm to indicate excessive HEPA filters loading, blower failure, airflow speed failure, Incorrect window position.
6	The front of the cabinet must be angled 10° to help minimize glare.

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4	Sample Volume: 180 µl.
5	Analysis Time: 90 Seconds
6	Storage: Unlimited storage
7	Display: 7 inch high definition LCD with capacitive touch
8	Printer: 2 inch 24 column in-built thermal printers.
9	Dimensions: 32cm D x 15.5cm W x 30.5cm H, Weight: 5.8 Kg.
10	Operating System: Android.
11	Measured Parameter: pH, pCO2, pO2, Hct, Na, K, iCa, Cl.
12	Calculated Parameters: SO2%, Hb, HCO3, TCO2, SBC, pO2%, BE, BE-B, BE-ECF, AG(Na), AG(K), AaDO2, a/A, O2Ct.
13	Quality control program with Levey-Jennings. Quality Standards of ISO and CE.
14	Excellent precision and reliability.
15	Smart compact reagent pack with RFID.
16	Numeric and Alpha numeric input option with 15 digit operator & patient ID.
17	Peripheral options: External bar code scanner, mouse and keypad interfacing option.
18	Sample probe with self wiping.
19	Power input: 100/112-V AC, 50-60 Hz, or 220V AC, 50-60 Hz, 0.75 amp.
20	Communication ports: Two USB, LIS & software upgradation.
21	System should have friendly android operating systems
22	Separate dedicated electrolyte sample analysis mode. For low cost electrolyte sample analysis.

29. Micropipettes of fixed and variable volumes (1-10ul/2 -20uI/10 — 100u1/ 20 —200ul/100 - 1000ul)

Sl No	Specification
1.	Pipettes should have features of interlocking technology to ensure secure tip attachment.
2.	Pipettes Should ensure a complete seal with minimal tip application and ejection forces
3.	Should be Ergonomic design
4.	Tip cone should be Auto-clavable
5.	Should have Advanced volume gearing-Modular volume adjustment mechanism
6.	Pipettes Finger Rest should rotate at 120 angle.
7.	Extremely light weight reduces the risk of Repetitive strain injury
8.	Pipettes should have Volume locking feature
9.	Separate soft touch tip ejector
10.	Super blow out piston with volumes of 50 ul and below volumes.

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11.	Adjustable finger rest for super comfort
12.	In lab calibration and easy maintenance –Easy to open (No special tool required)
13.	Should have Five years CMC with Online web registration.
14.	The pipette should have following accuracy and Precision:
15.	It Should have ISO and CE/USFDA Certification

30. Urine Analyser

Sl No	Specification
1.	Maximum through put of 300 tests/hr Average 120 test/hr
2.	Ergonomics design to enhance user- convenience.
3.	Automatic switching to testing mode from standby mode.
4.	Able to work in quick and normal mode.
5.	Highlight abnormal result for quick review.
6.	Automatic calibration with power on.
7.	Multiple language by user define method.
8.	Memory Capacity of 100,000 test results
9.	Internal thermal printer.
10.	Able to connect with PC by provided software and bi-directional interface
11.	Able to perform 4-11 parameter testing
12.	Rs-232 Interface for communication with PC, barcode scanner, USB for communication with PC and P/S2 port
13.	Parameters should include:Glucose, Protein, pH, Specific Gravity, Urobilinogen, Bilirubin, Ketones. Nitrites, Blood, Leucocytes.
14.	It should have ISO, CE/USFDA Certification

31. Microscope

Sl No	Specification
1.	It should have an Infinity Optical system.
2.	Microscope frame for transmitted microscopy with color corrected LED illuminator Built in 0.5 W LED illumination system, to avoid bluish light.
3.	Stage height adjustment mechanism
4.	Movement distance per scale of fine adjustment knob: 2.5 µm,Movement distance per round of fine adjustment knob: 0.3mm, Total movement range: 15mm
5.	Microscope should have a dedicated focus lock mechanism to prevent the sample from damage by heating the objective.
6.	Pre-focusing knob provided, tension of the coarse adjustment knob adjustable, 360 degree rotatable Binocular tube with butterfly design eyepiece tube & Field number 20 or higher,Tube tilting angle 30®

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7.	~~Interpupillary distance adjustment range 48 to 75 mm ,a pair of eyepiece 10X~~ (F.N.20) , eye point height adjustment , inwards facing quadruple revolving nosepiece.
8.	Right-handle wire movement Mechanical fixed stage 120 x 132 mm, Movement range X direction: 76 mm x Y direction: 30mm, can hold haemocytometer.
9.	Abbe condenser N.A. 1.25, Aperture is iris diaphragm Built in
10.	PLAN Objectives 4X/N.A.01., Antifungal Quality
11.	Plan 10X / N.A.0.25, Antifungal Quality
12.	Plan 40X N.A. 0.65, Antifungal Quality
13.	Plan 100X / N.A. 1.25, Antifungal Quality
14.	AC adapter, fixing belt for transportation
15.	Ergonomic grips add safety when retrieving the microscope from any high storage place or moving from one location to another.
16.	A rack-less stage and stage cover give safety and longtime operation.
17.	Adjustable eye point provides high comfort to an user group with variable heights during long hours usage of the system.
18.	A locking pin facility in the observation tube is an most important and admired feature to avoid accidental displacement of tube from its alignment/ breakage of tube after falling down, especially when the same is being used by students/ technicians in the lab.
19.	LED light source with high color repoducibity for better imaging and contrast. It reduce blue Colour and preserve vivid colors on HE staining
20.	Built in security slot to attach the anti theft cable which is more require for student microscope
21.	Both hand focusing knob to focus preciously and ergonomic
22.	Microscope should be upgradable to dark field attachment.
23.	Flat field of view for better imaging view.
24.	Higher field of view.
25.	A storage compartment on the back of the microscope makes it easy to store the cable and safety.
26.	Microscope should have Provision to attach antitheft cable at the back.
27.	Minimum 500 installations should be there in eastern region of India.
28.	Technical evaluation will be done based on the physical demonstration of the quoted model.
29.	International Certificate must be provided ISO & IEC must be provided.

32. 3-part Hematology Cell Counter

Sl No	Specification
1	**Measured Parameters**: 20 parameters WBC, LYM, MID, GRA, LYM%, MID %, GRA%,RBC, HGB, MCH, MCHC, HCT, RDWcv, MCV, PLT,PDWcv, MPV, PCT, PLC-R, PLC-C
2	Maximum through put of 80 tests/hr.

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3	Analyzer with 2 counting chambers with touch screen.
4	Measurement Method: WBC, RBC, PLT (blood cell count): impedance HGB: photometry HCT: calculated (RBC x MCV) 3diff (LYM%, MID%, GRA%): impedance (population analysis) other parameters: computation from stored data
5	Sample volume 25µl of whole blood in normal 3 part mode & 50 µl of whole blood in prediluted mode
6	Sampling Method: Open tube system with automatic sample rotor.
7	Recommended sample collection method: K3 EDTA primary blood sample tubes
8	Sample types: male, female, baby, toddler and child.
9	Uses only 3 reagents.
10	Should be Environmentally friendly and cyanide free lyse reagent
11	Data storage capacity 10 000 results, including 3-part WBC, RBC and PLT histograms.
12	4 USB ports allow simple connection with external devices.
13	Comprehensive QC Management.
14	Inbuilt thermal Printer.
15	Shelf Life of Open Reagent: 120 days
16	RS 232 serial connection for data transfer for LIS / HIS connection.
17	Certifications: Eu-CE & ISO.
18	Net Weight of the instrument should not be more than 16 Kgs.

33. 5-part Hematology Cell Counter

Sl No	Specification
1.	Measured Parameters: CBC+5-DIFF mode (26 parameters): WBC, LYM, MON, NEU,EOS, BAS, LYM%, MON%, NEU%, EOS%,BAS%,RBC, HCT, MCV, RDWsd, RDWcv, HGB, MCH, MCHC, PLT, MPV, PDWsd, PDWcv, PCT, PLCC, PLCR.
2.	Maximum through put of 60 tests/hr
3.	It should have an automatic sample rotor.
4.	Sample volume: Closed and open vial mode: 110 µl, Small Sample Mode: 25 µl
5.	Measurement method: Volumetric impedance change for WBC, RBC, PLT Light scattering BASO measurement Light scattering 4-diff measurement: LYM, MON, NEU, EOS Spectrophotometry for HGB
6.	It should use only 4 reagents.
7.	Calibration: Manual and SW supported automatic mode.
8.	Data storage capacity : 100,000 records including flags, scatter- and histograms
9.	Inbuilt thermal Printer.

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10.	Shelf Life of Open Reagent: 120 days
11	Certifications: USFDA.
12	Peripheral ports: 4 x USB 2.0, Ethernet, PS/2

34. Turbidometer

Sl No	Specification
1.	It Should have ISO and CE/USFDA Certifications
2.	It Display should have 16×2 Alphanumeric LCD Display Grade A1
3.	Interface Language English is mandatory
4.	Light Source LED should be available
5.	Material used should be Plastic
6.	Measurement Range should be 5 Auto Range
7.	Meter Style should be LCD
8.	It should have 5 Points Calibration
9.	It should have Calibration Power (W) 230 VAC
10.	It should have Power Source 12 VDC
11.	Adapter Range 0-1000 NTU/JTU should be complied
12.	Resolution 0.1 should be complied
13.	Temperature (Deg. Celsius) 0-100
14.	Turbidity Range 0-1000 NTU
15.	Waterproof
16.	Weight (kg) 2 kg.

35. Blood Collection tubes (K2 EDTA, Sodium fluoride, Gel and clot activation)

Sl No	Specification
1.	Vacuum Blood Collection Tube, with BiCAP and Drug License
2.	It Should have CE Mark, ISO 9001, ISO 13485 , ICMED Certified
3.	USFDA Certification
4.	Should be using principle Micro Spray for instant mixing of blood with additive & uniform quantity of additive in each tube for accurate calibration.
5.	Should have 100% Transparency
6.	Tube should be made from Medical Grade Polystyrene
7.	Sterilized by GAMA RADIATION.

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~~36. RO plant/Deioniser~~

Sl No	Specification
1.	System should be quoted along the external Pre-treatment and External RO to handle the silica free applications.
2.	System should be standalone single/separate stage system- produce End otoxin and bacteria free ultrapure water Type 1 and Type 2directly from potable water supply.
3.	System should be capable of providing ASTM Type I (18.2 Mega ohm resistivity)Water and have the UF cartridge to cater Biological applications
4.	System should be capable of providing ASTM Type II (1-10 Mega ohm resistivity)Water from potable tap water
5.	System has feed water acceptance level of Conductivity upto 1500 µS/cm or more, Fouling Index (SDI) > 3 and Total Chlorine less than0.1 ppm or more
6.	System should have a pretreatment kit with 1µm filter, Harness Stabilizer and Carbon
7.	System should have RO Flow rate 3Ltr/hour or more
8.	Type 1 water flow rate should be equal or more than 1Ltr/Minute
9.	Reverse Osmosis module is made up of thin film composite polyamide RO membrane with rejection rate of 94 - 99%
10.	System has feed water specific Purification pack before UV lamp consisting of mixed bed ion exchange resin/ micro filter / activated carbon to ensure better purification and longer life of the cartridges.
11.	UF should be inbuilt/point of usein system for providing molecular biology grade water
12.	System should have dual wavelength 185/254 nm for UV-oxidation for reducing the content of microorganisms and their metabolites to ensure the quality of Type 1 water
13.	System should have external/inbuilt reservoir 5ltr or more in volume. Water is recirculated through High Purity Cartridge to maintain purity of Type 2 water in tank all the time.
14.	Production rate of Purified Water @ 3ltrs/hr or more
15.	System should be quoted with One set of Consumables including RO.

37. Fully Automated Biochemistry Analyzer for Molecular Lab

Sl No	Specification
1.	It should be able to analyze Endpoint, Fixed Time, Kinetic, Bi-chromatic, Differential, Multi-Standard curve, linear and non linear (cubic spline, poly linear) reactions
2.	It should have a minimum throughput of up to 290 Tests/hour for chemistry assays without ISE
3.	An external sample barcode reader should be present as a standard on the analyzer for full automation benefits
4.	An external reagent barcode reader should be available
5.	Should have onboard laundry system with 8 step wash station so that cuvettes can be reused with economic operation and continuous run even with high number of tests
6.	It should have at least of 9 positions for filters with only 1 empty position
7.	It should have long life reusable cuvettes for walkaway operation

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8.	The probe should have capacitive level sensing and needle shock detection
9.	Instrument should have two probes having inbuilt mixing facility
10.	All the probes should have the facility to handle sample and reagent
11.	It should have provision of at least 40reagent positions and 60 sample positions with high quality reagent cooling system
12.	Validated reagents for biochemistry from Instrument manufacturer should be provided
13.	Authorized supplier should provide single calibrator for all routine biochemistry assays including HDL and LDL from the instrument manufacturer
14.	Water consumption should be less than 3 liters per hour at full throughput
15.	Barcoded system pack reagents should be available from the instrument manufacturer itself
16.	Instrument should have facility to calculate CV % automatically
17.	It should have facility to display calculated mean and reference mean with 1SD & 2SD on LJ graph
18.	System should have a tabletop facility, and CE/ FDA approved

38. Semi-Automated Biochemistry Analyzer

Sl No	Specification
1.	It should be able to perform Endpoint, Fixed time, Kinetic, Bichromatic, Absorbance and multi-calibration modes.
2.	The absorbance range should be -0.500 – 3.000 Abs.
3.	It should have 340nm, 405nm, 500nm, 546nm, 578nm, 620nm and 2 optional filters.
4.	The reagents should be from the instrument manufacturer and reprogrammed for all chemistry reagents so that no programming is needed.
5.	It should have inbuilt with thermal printer
6.	The test should be performed at 25°C, 30°C and 37°C with peltier controlled.
7.	It should have 12V/20W halogen lamp as a light source with long life.
8.	It should be covered 330 – 700 nm wavelength range.
9.	It should have Metal-quartz flow cell.
10.	It should have dual mode with both flow cell and cuvette.
11.	It should have 60 programs storage facility.
12.	It Should have ISO and CE/USFDA Certification
13.	The minimum aspiration volume should be 400ul.

39. Fluorescence Immunoassay Analyzer

Sl No	Specification
1.	Connectivity should be with IQ Cloud on PAN INDIA basis for Software Upgradation

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2.	~~It Should have Wi-Fi and Bluetooth enabled for Internet Connectivity and Data~~ Delivering
3.	It should have 4 GB RAM & 64 GB Storage capacity
4.	It should have one hour Battery Backup for Emergency operations.
5.	It Should have Provision to add more tests/ parameter in future through iCloud without changing any hardware or equipment
6.	Additional Accessories supplied along with Analyzer : Advance compact Vortex mixer and Dual iHeating block (with temperature 300C& 500C)
7.	No Chip Requirement for product testing and calibration.
8.	Multi Timer & Instructor for monitoring the "TEST RUN TIME" of 4 Different tests and Step- by- Step instructions for specific test.
9.	It Should have Storage Capacity for 1,00,000 Patient samples data
10.	Tests available should be ;HbA1c,Vitamin D, T3, T4, TSH, Dengue NS1, Dengue IgM ,Dengue IgG, CRP ,PCT ,D-DIMER & SCRUB TYPHUS
11.	Individually pouched test cartridges should be precision engineered with QR code & embedded lot data.

40. ESR Analyzer

Sl No	Specification
1.	The equipment should be able to give results after reading of Red Cells aggregation.
2.	The equipment should be able to provide automated ESR readings
3.	No Specific reagent required for running the test.
4.	The equipment should have a facility for calibration as well as it should be able to store Quality Control Data.
5.	The equipment should be able report the result in mm/hr.
6.	The equipment should have good co-relation with Westergren method.
7.	The result should have any effect due to low hematocrit levels.
8.	The equipment should be able to use the same sample tube with EDTA from cell counter available with the lab.
9.	The equipment should have the capacity of minimum 15 samples at a time.
10.	The throughput should be 50-60 samples/hour.
11.	The equipment should be compatible with Latex Control and calibrators.
12.	The instruments should have two level of controls.
13.	The equipment should work at 37 deg C with thermostat control.
14.	The equipment should mix sample thoroughly as per CLSI requirements.
15.	The equipment should be able to connect with external bar code reader if required.
16.	It should be possible to perform test up to 24 hours from sample collection.
17.	The equipment should have a touch screen LCD display.
18.	The equipment should have internal thermal printer.
19.	The equipment should have facility to interface with host computer with bi-

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~~directional data transfer. Instruments should have USB and serial port.~~

41. Electrophoresis Machine

Sl No	Specification
1.	It should be an automated cellulose acetate electrophoresis system.
2.	It should have up to 4 / up to 8 samples per analytical cycle.
3.	It should give Automatic densitometry reading.
4.	It should have automatic reagents handling.
5.	Test menu should include: Serum proteins, alkaline hemoglobin's (H, A, F, S*, C* & A2: *S & C co-migrates with other variants) and lipoproteins.
6.	Instrument should not bear any start up- shut down cost.
7.	It should not require any special cleaning solutions.
9.	It should have a Simple operator interface.
10.	It should be Complete walk away system.
11.	Average - 35 minutes procedure to be conducted on instruments
12.	Preferred Room temperature kits (15~25°C).
13.	It should be Compliance to CE. ISO Certification is required

42. Mono pan Analytic Weighing Scale

Sl No	Specification
2.	Maximum Capacity- 320g
3.	Readability - 0.1 mg
4.	Repeatability - 0.08 mg
5.	Linearity Deviation - 0.3 mg
6.	Eccentricity (test load) - 0.3 mg (100 g)
7.	Sensitivity offset (At nominal load) - 1mg
8.	Weighing pan dimensions (W × D) - 78 × 73 mm
9.	Weighing Pan - Hanging Grid Pan. Weighing Cell should be at the back side and Linkage between weighing cell and pan should be at the level above that of weighig pan
10.	Door Cleaning - Door cleaning should be Dishwasher Safe
11.	Setting Time (Typical) - 1.5sec
12.	Automatic Draft Shield (Side door) - The motorized draft shield doors can be configured to open and close according to your requirements to simplify and speed up repetitive weighing operations.
13.	Status Light - Balance should have Light indication (Green, Yellow & Red) for various status of balance like Ok, calibration over due, leveling error and other such warnings.

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	Display - 4.3 inch capacitive color TFT-touch screen
14.	
15.	Internal Adjustment - PRO FACT -Advanced internal adjustment - Programme Fully Automatic Time and Temperature Controlled with internal weight
16.	Level Adjustment Guide - Balance should provide level warning in case of out of level and should not allow user to add result to protocol if balance is not levelled. Graphical level bubble should be provided for leveling
17.	Number of ports - 4 USB and 1 No LAN/ Ethernet port for easy connectivity and data export
18.	Antistatic Solutions - Balance should be capable of attaching antistatic kit to remove static charge on flask or tare container
19.	User Management - Balance should be configurable with user with password for administrative controls. Only password protection
20.	Method Library- Balance should store and allow user to access methods (including sample series and tolerances)
21.	Min Weight Warning Function - Should be upgradable to Automated Powder and Liquid dosing for automated gravimetric sample preparation for instruments like HPLC, etc.
22.	Data Input- Balance should have provision to attach barcode reader and define content of barcode so that data can be captured from barcode reader

43. Semi Automated Coagulation Analyzer

Sl No	Specification
1.	It should have Touch Screen Interface
2.	It Should have Touch Screen Color Display
3.	It should have a Measuring Range: INR 0 – 99/ PT 7 – 300 seconds/ QT 10 – 110%
4.	It should be of portable size
5.	Automated operation should comply
6.	It should come With a Type B USB Port
7.	Plug and Play Power pack 100 – 240V, 47 – 63 Hz, Input 0.7A, Output 3.3A
8.	Onboard memory 180 test result
9.	Quoted Machine is recommended to operate in Flat, Stable and vibration – free surface
10.	ISO and CE/USFDA Certification

44. Fully Automated Biochemistry Analyzer

Sl No	Specification
1.	Constant throughput fully automated biochemistry analyzer
2.	Speed should be 200 tests/hour for double reagent biochemistry assays
3.	Clot detection should be offered as a standard feature on the analyzer to ensure use of primary tube without any risk of clots
4.	Should be an open system without any must use of barcoded reagents
5.	System packs should be provided for guaranteed number of tests per pack in prefilled vials for at least 20 common biochemistry reagents including CRP

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6.	On board laundry with at least 7 stage washing process must be there
7.	On board high quality refrigeration should be there for reagent and calibration stability on the analyzer
8.	Large number of sample/reagents for trouble free operation – At least 38 each for sample and reagents
9.	Wavelength of 320 – 850nm with at least 7 filters on board
10.	There should be a dedicated mixer on board for stirring of samples and reagents
11.	The machine should use reusable cuvettes – At least 60 onboard cuvettes must be there with dirty cuvette detection feature.
12.	It Should Have ISO and IVD CE/USFDA/CDSCO Certification

45. Semi-Automated ELISA reader and washer

Sl No	Specification
ELISA reader	
1.	Measuring Range -0.0-4.0000Abs, Linear & Accurate results of samples upto3.500 absorbance
2.	Wavelengths - 4standard filters:405nm,450nm,492nm,630nm and 3more filters Optional
3.	Accuracy – 0-2.0A:±1.0%or±0.007A 2.5A: +/-0.064A 3.0A:+/-0.113A
4.	Precision - <0.5%for0.5A and1.0A, <0.8%for 2.5A,<1.2%for3.0A
5.	Reading Speed - <5seconds in continuous mode
6.	Printer - In-built printer(Additional printing option of attaching external printer)
7.	Interface – USB port, SD card slot, RS-232 & RJ45 interface
8.	HIS&LIS Compatibility – HIS & LIS compatible with application support
9.	Data Protection – Auto backup in case of power outage
10.	It should have CE Certification & ISO Certification
ELISA washer	
1.	Incubator - In-built incubator for two 96 well microplate
2.	Incubator Temperature – 3different fixed Temperature 25° C, 30° C & 37.0°C
3.	Temperature Uniformity - ±1°C
4.	Residual Volume - <1µl
5.	Washing protocols – 100
6.	It should have CE Certification & ISO Certification

46. High Performance Liquid Chromatography (HPLC)

Specifications
General :

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- ~~The system should be controlled by Workstation/Network based~~ Chromatography software.
- HPLC system should also work in UHPLC mode w/o changing any part.
- System should be upgradable for hyphenation with LC-MS/MS or HRMS in the future.
- Computer controlled HPLC system comprises of suitable HPLC pump, inbuilt advanced degasser, column compartment, Photo-Diode Array detector (PDA), and manual injector, capable of working in both gradient and isocratic modes of chemical analysis should be provided. Usable solvent types should include both organic and aqueous solutions and it should work in the operable pH range of 1 to 12. With salt gradient compatibility.
- The pump must have variable/adjustable Gradient delay volume to support different applications range 300-1000ul or better user selectable to obtain higher resolution or required mixing.

Quaternary Pump:

Quaternary Gradient Solvent Delivery Unit with In-Built Degasser Facility :

- It should be a Quaternary Gradient pump with serial/parallel dual piston mechanism of pumping without any air-bubbles. Auto-purging is preferable.
- Flow rate : 0.001 mL/min to 5 mL/min or better
- Flow rate accuracy: ±0.1% or better
- Flow rate precision :< 0.06% RSD or better
- Gradient composition precision: < 0.2% RSD at 0.2 – 1.0 ml/min
- Pulsation Typically < 1.0% or < 0.2 MPa, whichever is greater
- The pump should support a pressure of minimum (9000 psi) in the flow range of 0.001/min to 5 mL/min or better and must support 3um,5um and <2um UHPLC and LC-MS Columns.
- Degassing unit should have latest technology with suitable flow lines and membranes to provide on-line degassing requirement, should have 4 or more flow lines & membrane-type online degassing.
- The pump must be able to deliver gradients with minimum 1-9 gradient curves (including step, exponential, convex,etc)

Columns :

Column Accessories

- C18 Analytical Column 250 x 4.6 mm, 5µm particle size or equivalent.
- Suitable amino acid column or equivalent.
- Suitable Protein /enzyme assay column or equivalent.

Column Oven :

- The column compartment should have both; Still air for highest efficiency and forced air for easiest method transfer facility. Or any better technology.
- Column compartment must have a temperature range from 10°C to 80°C or better
- The column compartment must support columns at least 300 mm length
- The column oven should have passive pre-heating facility.
- Temperature stability ±0.05 °C
- Temperature accuracy ±0.5 °C
- Column compartment should have separate two individual slot for separate programming of each one.Should support pH range 1–12 with salt compatibility.
- Should have option of tracking of usage and column record

Auto Sampler :

- The Auto sampler should operate at pressures in the range 10,000 psi or better
- The linearity of the auto sampler must be r >0.99999 (caffeine in water).or better
- The auto sampler must offer automated barcode recognition of the type of sample rack or
- Well plate and detection of empty sample segments.
- The complete eluent flow path must compatible with eluent conditions (pH 2-12, max. 1 mol/L chloride concentration, no buffer
- The injection principle of the auto sampler must be in-line split-loop (also called flow
- through needle) for high reproducibility injections with no sample loss..
- The auto sampler must support a sample capacity minimum 200 vials. Position.
- The injection range of the auto sampler is 0.01–100µL or better
- The injection volume precision of the auto sampler < 0.25% RSD or better
- (caffeine in water), typically < 0.5% area RSD for 0.5 µL (caffeine in water).
- The carryover of the auto sampler must be <0.0004%or better
- Sample temperature 4–40 °C with Temperature stability of ±1 °C or better

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~~• The auto sampler must support injection cycle times down to 8 s or lower~~

Detector :

Photo Diode Array Detector:
• Wavelength range: 190 nm to 800 nm or better with 1024 diode elements
• Spectral Bandwidth :<1 nm with minimum 0.6nm pixel resolution.
• Wavelength accuracy: +/- 1 nm. or better
• Linearity should be The detector must typically provide a linear range up to 2.2 AU or better> 2 AU (5%) at 265 nm.
• Data acquisition rate: 120 Hz or better. Simultaneous acquisition of eight simultaneous channels along with 3D
• Filter for wavelength accuracy check: Auto-calibration with deuterium lines, verification with Holmium oxide filter (or similar advanced technology) .
• Light source: D2 and W lamps temperature control for both the lamps
• The detector must have built in safety features like leak detection and safe leak handling, excess pressure monitoring.
• Lamp temperature control with life span monitoring facility should be available.
• Standard analytical flow cell, 10 mm path length, should be provided.

Chromatography Software::
• Original Licensed Data Management System/software.
• Suitable Chromatography Software for monitoring and analysis of sample should be provided.
• Software must register all events (log files) audit-trails for Data, Acquisition Method, Report and User Administration Controls.
• Operation of the system should be simple and intuitive via a state-of-the-art 64 bit Windows 10 based software or better.
• Chromatography software which complies with Good Laboratory Practice (GLP) and Regulatory Conformity.
• It must record instrument event such as injection, complete instrument settings, changes & conditions in real time.
• Software with integrated data base along with 21CFR part 11 Compliance , Software with integrated database and should be capable enough to program at least 1-9 different gradient curves

Service, CMC and Training :

Other Accessories::
• Necessary branded computer (with suitable latest configuration, 21" LED monitor, CD/DVD drive and a branded laser printer).
• 3 KVA Online UPS with minimum 30 minutes back up.
• Suitable calibration standard should be supplied during the installation.
• Solvent organizer with suitable solvent containers with filters, tubing (preferably SS tubing), etc. should be provided.

Amino acid derivatization accessories :
• AA pre-derivatization Kit, with required buffers, standards, chemicals should be offered
• Protein Hydrolyisis Accessories :
• Suitable Protein vacuum hydrolysis tube
• Protein hydrolysis heating bath to be offered.

Other Conditions::
• Submitted model should have international CE and ISO certificates.
• Vendor should have proven track record and should provide at least 15 installation details (Specifically from eastern Region) in various IIT's, IISER's, NIT's any reputed government institute/university. Along with institute name, customer details contact details as per requirement.
• All the supporting technical documents should also be available on the OEM website for verification.
• All the specification needs to be supported with authenticated online data sheet and documents.
• Submitted model have international CE and ISO certificates.
• The instrument is capable to measure protein profiling, amino acid profiling, drug analysis, hormonal and enzymatic assays.
• In addition to other compounds with the installation/accessories offered.
• submitted at least three performance certificate from existing user.
• The specification of the submitted model should be available on the official website.

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47. Fully Automated ELISA Reader and Washer

Sl No	Specification
1.	It should be fully automated walk away immunoassay system designed for running only ELISA tests.
2.	It should be able to perform dispensing, washing, incubation and reading on the same instrument.
3.	It should be open system.
4.	It should have special dark cover for evaporation control and external light elimination during incubation.
5.	The Light Source should be Tungsten –Xenon Lamp
6.	It should have two syringe pumps 2.5 ml and 50ul optimized.
7.	It should have highly stable long life IAD filters
8.	It should have facility to use original reagent kit component on the analyzer i.e. original reagent bottles can be put directly on the Analyzer.
9.	The linear range should be-0.2 to 3.0 A.
10.	It should have 8 channel washing station.
11.	It should have 96 samples capacity.
12.	It should have drag and drop feature in software
13.	It should have 4 filters: 405nm, 450nm, 490nm and 630nm.
14.	It should have level sensing capacity for reagent and samples.
15.	It should have dedicated wash station for internal & external washing of probe.
16.	It should have capacity for testing up to 8 parameters simultaneously.
17.	It should have absorbance reading in four simultaneous channels to prevent time variation.
18.	Instrument should be from European Union.
19.	It should be pre programmed for Auto Immunes, Thyroids and Infectious diseases tests.
20.	It Should have ISO and CE/USFDA Certifications

48. Digital pH meter

Sl No	Specification
1.	Instrument should be standalone with 7" full color touch screen to enable easy of users.
2.	Instrument should be latest one with upgraded technology launched within 1 year.
3.	Instrument should have facility for method creations up to 20 numbers.

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4.	Instrument should have brilliant, high-resolution terminal with Status Light concept and for ergonomic and stress-free working environment.
5.	Instrument should have user management with at least 2 level user groups such as Operator and Administrator with password protection to create minimum 30 users.
6.	Instrument should have user Guidance for calibration, limit control, verification support.
7.	Instrument should have workplace options for complete solution with precise electrode arm with dedicated positions for calibration, measurement, washing and storage.
8.	pH measuring range: –2.000 … 20.000 ±0.001 pH , ±2000 mV
9.	It should be possible to enter Sample ID (easy entry), user ID, sensor ID, date and time easily in to meter.
10.	Instrument should have connectivity to transfer data with PC, USB, line printer
11.	Instrument should have internal storage up to 2000 data or better.
12	The sensors used in instrument should have Intelligent Sensor Management-ISM facility for auto recognition of sensor with name, serial number and last five calibration data.
13	Instrument should have a large Touch Screen display (7 inch or more) for complete control of the instrument.
14	It should be possible to connect with Easy mix magnetic stirrer with manual control to use stirrer during analysis and for other sample preparation purpose also.
15	Instrument should have connectivity with a PC through Easy Direct pH software for data storage purpose and the software should have control chart facility and calibration chart facility to see analysis and calibration data trend.
16	It should be possible to limit control results with color code to indicate user about results pass/fail.
17	Instrument should have IP54 rating for dust and splash proof.

49. Laminar Air Flow (Horizontal)

Sl No	Specification	
1.	Working Area Size	120 x 60 x 60 cm.
2.	Switches	Microprocessor based switches for blower.LED light & UV light with LCD back light Display, (UV light with timer)
3.	Pre-filter	99.00 % down to 5 microns
4.	HEPA Filter	ISO 14644 Class5 (Class 100) 99.97%-99.99% down to 0.3 micron, mesh guard for protection of HEPA filter.
5.	Airflow	Frontward Horizontally
6.	Noise Level	60 decibels + _ 5%
7.	Velocity	0.35-0.50m/sec.
8.	Work Table	Made up of Stainless steel 304gr. Cock for gas on work table.
9.	Side Panels	6mm+- 5mm thick acrylic sheet
10.	Front door	Made of acrylic
11.	UV Lamp	15/30W, make Philips Holland,
12.	IIIumination	LED White Light
13.	Pressure	Digital Manometer 0-50mm range with filter failure alarm
14.	Power Supply	230 V +-10V/50 Hz single phase A.C.

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15.	~~Cabinat~~	~~Stainless Steel 304 Grade~~
16.	Heavy duty Blower	Dynamically balanced with 0.25 HP Electric Motor Mounted on anti-vibration pad 1440 RPM Motor
17.	Certificate	CE/EN Certified, ISO/CDSCO

50. Horizontal Electrophoresis

Sl No	Specification
1.	System should be simple to use casting method, and multiple comb and tray options, Gel Tank, Gel Tray, Combs should be molded to prevent leakage.
2.	System should have Leakproof casting allows a gel to be cast and run in the same chamber with no tape or additional parts required.
3.	Should have Longer gel length and the 2 comb slots provide the flexibility of running 8 to 48 samples on 1 gel.
4.	Optional rapid load tray can increase the maximum number of samples to 108 in an 8 or 12 multichannel pipette format.
5.	2 comb slots on the U.V. Transmissible (UVT) gel tray double sample capacity by doubling the number of sample wells
6.	UVT gel trays are silk screened with a fluorescent ruler for easy measurement of bands
7.	Gel Size should be 14X12cm (L X W),
8.	Running Buffer Volume should not be more than 800ml
9.	Sample capacity should be 8 to 48 in one gel.
10.	System should be supplied with Buffer chamber, SuperSafe* lid with attached power supply leads, EasyCast gasketed U.V. Transmissible (UVT) gel tray, 2 combs: 12 & 20 well, double-sided, 1.0/1.5 mm thick.
11.	System should be CE Certified
12.	CMC should be for 5 Years (Replacement CMC)

51. Semi Auto Analyser

SL. No	Specifications
1	• The system should have Endpoint, kinetic, fixed time and turbidimetric mode • The system should also be capable of estimating Hemoglobin, Electrolyte, Immunoassay trubidimetric assay etc • The system should have tungsten halogen lamp with lamp saver facility. • The aspiration volume should be 250 ul to 780 ul • Should have complete visual range • The system should have memory at least 500 patients samples. • System should have online graphic display of reaction second to second • System should have index mode for calculation of ratio • System should have previous blank standard memory facility. • The system should be US FDA or European CF/CDSCO approved.

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52. Electrolyte Analyzer with indirect Ion selective Electrode

Sl No	Specification
1.	It should be able to perform Sodium Potassium and Electrolyte Analysis
2.	It should have maintenance free electrodes.
3.	It should have septum instead of valves to protect machine from frequent breakdowns.
4.	It should have programmable user selectable calibration cycles for 1-4 hrs.
5.	It should have Reagent management system to check the expiry and quantity of reagent.
6.	It should have built in thermal printer.
7.	It should have adjustable probe position.
8.	It should have sample volume less than 125 ul and should be able to report results in less than 50 seconds
9.	It should be able to use Serum, Plasma, Whole Blood, CSF and Urine Samples It should have ISO and CE Certification

53. UPS

Sl No	Specification
1.	100 -240V/50 Hz (Online UPS 2KVA)
2.	220/240V AC; 60Hz; 8w (Online UPS 2KVA)
3.	Online UPS 2KVA

54. Neubauer's Counting Chamber

Sl.No	Specification
1	Application - Path Lab
2	Measurement Range - 1 mm
3	Thickness - 0.4 mm
4	Volume Capacity - 0.1 mm3/mm2 and 0.00025 mm3

55. ESR SixTubes With Stand

56. Alcohol Thermometer

Sl. No.	Specification
1	Temperature Range – Up to 400 Deg C
2	Material - Glass
3	Application - Chemical Laboratory

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4	Reusable

57. Slide Staining Racks - Staining slide racks are constructed of durable stainless steel with long rails

B. LIST OF ELISA KITS:

1	Elisa HbsAg
2	Elisa DENGUE IGG ANTIBODIES
3	Elisa DENGUE IGM ANTIBODIES
4	Elisa DENGUE NS1 AG
5	Elisa Scrub Typhus Detect IgM
6	Elisa MALARIA
7	STOOL ROUTINE MICRO OVA & CYST
8	MALARIAL PARASITE
9	SPUTUM FOR AFB
10	TORCH PROFILE (IGG & IGM)
11	ELISA HCV Ab
12	Elisa HIV 1+2AB

C. LIST OF KITS AND REAGENTS

1	COMPLETE BLOOD COUNT
	Diluent 20L
	Diluent 5P 20L
	Lyse - 500ml
	Lyse 5P – (5L)
	Diff 5P – 500ml
	Hypo Clean (100ml)
	Probe Cleaner
2	URINE PREGNANCY TEST
3	ESR
4	URINE ROUTINE

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	urine test strips pack size - 100 strips
5	HEMOGLOBIN

D. FULLY AUTOMATED ANALYSER REAGENTS

1	Blood Sugar
2	Glucose Tolerance Test
3	S Bilirubin (T)
4	S Bilirubin (Direct & Indirect)
5	S Creatinine
6	S Urea
7	SGPT
8	SGOT
9	ALP
10	GGT
11	Total Protein
12	S Albumin &AG Ratio
13	S Total Cholesterol
14	S Triglycerides
15	S HDL (With Calibrator)
16	S LDL (With Calibrator)
17	S Uric Acid
18	S Amylase
19	S LDH
20	HbAlC (With Calibrator Set)
21	S Calcium
22	S Lipase
23	S Iron

E. ELECTROLYTE ANALYZER REAGENTS & CONSUMBALES

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1	S Sodium
2	S Potassium
3	S Chloride
4	Cleaning Solution Kit
5	Electrolyte Control

F. ELISA KIT REAGENTS

1	S TSH
2	S Free T3
3	S Free T4
4	S Vitamin D
5	S LH
6	S CA 19.9
7	S AFP
8	S CA-125
9	S CEA
10	S CA 15.3
11	S Vitamin B12
12	S Vitamin A Retinol
13	Folic Acid Assay
14	Prolactin
15	Trop I
16	S Ferritin
17	PSA
18	FSH

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19	Iron Binding Capacity

G. CONTROL AND CALIBRATOR

1	Multi Calibrator
2	Human Assay Control 1
3	Human Assay Control 2
4	HbA1C Calibrator
5	HbA1C Control
6	Lipid Calibrator
7	Lipid Control 1
8	Lipid Control 2

H. REAGENTS FOR COAGULATION ANALYZER

1	Thromoplastin
2	APTT
3	Cuvette
4	Fibronogen
5	TT

I. REAGENTS FOR FULLY AUTOMATED MULTI PARAMETRIC IMMUNOASSAY ANALYZER

1	PROCALCITONIN
2	CK MB
3	MYOGLOBINE
4	HS TROPONIN I
5	NT-PROBNP 2
6	DIGOXIN

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7	D-DIMER EXCLUSION II
8	PROTEIN C
9	VWF
10	TSH
11	FT3
12	T3
13	T4
14	TSH3
15	FT4
16	ANTI-TPO
17	ANTI-TG
18	HCG
19	LH
20	FSH
21	PROGESTERONE
22	PROLACTIN
23	TESTOSTERONE II
24	ESTRADIOL II
25	AMH
26	IGE
27	FERRITIN
28	TOTAL 25OH VITAMIN D
29	PTH (1-84)
30	BETA 2 MICROGL.
31	AFP

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32	CA 125II
33	CA 19-9
34	TPSA
35	CA 15-3
36	FPSA
37	CEA (S)
38	ANTI HBS TOTAL II
39	HBE/ANTI-HBE
40	HAV IGM
41	ANTI-HCV
42	ANTI-HAV TOTAL
43	ANTI-HBC TOTAL II
44	HBS AG ULTRA
45	HBC IGM II
46	ANTI-HEV IGM (HEVM)
47	ANTI-HEV IGG (HEVG)
48	HIV DUO ULTRA
49	TOXO IGM
50	CMV IGG AVIDITY II
51	CMV IGG
52	CMV IGM
53	TOXO IGG II
54	RUB IGM
55	RUB IGG II
56	TOXO IGG AVIDITY

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57	CD A/B
58	GDH
59	LYME IGM
60	LYME IGG
61	H. PYLORI IGG
62	VARICEL. ZOSTER IGG
63	MUMPS IGG
64	MEASLES IGG
65	SARS-COV-2 IgM (9COM)
66	SARS-COV-2 IgG II
67	EBNA IGG
68	EBV VCA/EA IGG
69	EBV VCA IGM
70	DENGUE NS1 AG
71	ANTI DENGUE IGM
72	ANTI DENGUE IGG
73	QCV-QUALITY CONTROL
74	OPT
75	THERMAL PRINTER PAPER 110 MM
76	PROCALCITONIN
77	CORTISOL S
78	D-DIMER EXCLUSION II
79	NT-PROBNP 2
80	HS TROPONIN I 3

J. REAGENTS FOR AUTOMATED MICROBIAL GROWTH DETECTION & MONITORING SYSTEM

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1	FA PLUS
2	FN PLUS
3	PF PLUS
4	MP
5	BLOOD CULT. HOLDER NONSTERILE
6	CALIBRATOR STICK
7	ANTIB. SUPPL.

K. REAGENTS FOR AUTOMATED IDENTIFICATION & ANTIMICROBIAL SUSCEPTIBILITY SYSTEM

1	GN TEST KIT
2	GP TEST KIT
3	YST TEST KIT
4	BCL TEST KIT
5	NH TEST KIT
6	ANC TEST KIT
7	CBC TEST KIT
8	AST-ST03 TEST KIT
9	AST-N280 TEST KIT
10	AST-N281 TEST KIT
11	AST-P628 TEST KIT
12	AST YS08
13	AST-N235 TEST KIT
14	AST-N407 TEST KIT

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15	AST-N405 TEST KIT
16	AST-N406 TEST KIT
17	KIT DENSICHEK PLUS STANDARDS
18	UNSENSITIZED TUBES 1X2000
19	SUSPENSION SOLUTION
20	SMALL DISPENSER 1
21	PIPETTE 145MCL FIXED VOLUME
22	PIPETTE 280MCL FIXED VOLUME
23	0.45% NACL SALINE BAG
24	ACCESSORY KIT PIP/DIL
25	PIPETTE TIPS 100
26	PIPETTE TIPS 0,5 250UL

L. Reagents for Fully Automated Multiplex PCR System Used for Syndromic Testing

1	KIT, GI PANEL, IVD 6 TESTS
2	ME PANEL, IVD 6 TESTS
3	FILMARRAY PNEUMO PLUS PANEL, 30 TESTS
4	GI PANEL, IVD, 30 TESTS
5	BCID2 PANEL, 30 TESTS
6	ME PANEL, IVD 30 TESTS
7	RP2.1 PANEL, 30 TESTS IVD

M. REAGENTS FOR BLOOD GAS ANALYZER

1	REAGENT PACK
2	CLEANER
3	QUALITY CONTROL

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~~52. TECHNICAL BID:~~

Annexure – II

Item No.	Name of Items	UNIT	Name of Manufacturer	Indian / Imported / Country of origin	Samples/ Catalogues and Compliance certificate YES/NO	Deviation to specifications if any with reason	Minimum shelf life 18months for reagents/testing kits
1	2	3	4	5	6	7	8
1	Digital Colorimeter	EACH					
2	Rotor/Shaker	EACH					
3	Blood Cell Counter	EACH					
4	Autoclave	EACH					
5	Fully Automated Multi Parametric Immunoassay Analyzer	EACH					
6	Water Bath	EACH					
7	Bacteriological Incubator	EACH					
8	Deep Freezer(-86 deg C)	EACH					
9	Deep Freezer(-25 deg C)	EACH					
10	Fluorescent Microscope	EACH					
11	Vertical Laminar Flow	EACH					
12	Digital Thermometer	EACH					
13	Hot Air Oven (Digital)	EACH					
14	AUTOMATED MICROBIAL GROWTH DETECTION & MONITORING SYSTEM	EACH					
15	AUTOMATED IDENTIFICATION & ANTIMICROBIAL SUSCEPTIBILITY SYSTEM	EACH					
16	Incubator	EACH					
17	Needle Syringe Destroyer	EACH					
18	Fully Automated Multiplex PCR System Used for Syndromic Testing	EACH					
19	Centrifuge 4 tube	EACH					
20	Centrifuge 8 tube	EACH					
21	Centrifuge 16 Tube	EACH					
22	Real Time PCR Machine	EACH					
23	Hot Plate for culture media preparation	EACH					
24	Vortex Mixer	EACH					
25	Multi Channel Pipette (octa pipette)	EACH					
26	Binocular Microscope LED with camera	EACH					
27	Bunsen Burner	EACH					
28	Biosafety Cabinet Class II A	EACH					
29	Microcentrifuge Machine	EACH					
30	Blood Gas Analyzer	EACH					
31	Micropipettes of fixed and variable volumes (1-10ul/2 - 20ul/10 — 100u1/ 20 —200ul/ 100 - 1000ul)	EACH					
32	Urine Analyser	EACH					
33	Microscope	EACH					
34	3-part Hematology Cell Counter	EACH					
35	5-part Haematology Cell Counter	EACH					
36	Turbidometer	EACH					
37	Blood Collection tubes (K2 EDTA, Sodium fluoride, Gel and clot activation)	EACH					
38	RO plant/Deioniser	EACH					

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39	Fully Automated Biochemistry Analyzer for Molecular Lab	EACH						
40	Semi-Automated Biochemistry Analyzer	EACH						
41	Fluorescence Immunoassay Analyzer	EACH						
42	ESR Analyzer	EACH						
43	Electrophoresis Machine	EACH						
44	Mono pan Analytic Weighing Scale	EACH						
45	Semi Automated Coagulation Analyzer	EACH						
46	Fully Automated Biochemistry Analyzer	EACH						
47	Semi-Automated ELISA reader and washer	EACH						
48	High Performance Liquid Chromatography (HPLC)	EACH						
49	Fully Automated ELISA Reader and Washer	EACH						
50	Digital pH meter	EACH						
51	Laminar Air Flow (Horizontal)	EACH						
52	Horizontal Electrophoresis	EACH						
53	Semi Auto Analyser	EACH						
54	Electrolyte Analyzer with indirect Ion selective Electrode	EACH						
55	100 -240V/50 Hz (Online UPS 2KVA)	EACH						
56	220/240V AC; 60Hz; 8w (Online UPS 2KVA)	EACH						
57	Online UPS 2KVA	EACH						
58	Neubauer's counting chamber	EACH						
59	ESR Tube With Stand	EACH						
60	Alcohol Thermometer	EACH						
61	Slide Staining Racks	EACH						
62	Elisa HbsAg	EACH						
63	Elisa HIV 1plus 2 Ab	EACH						
64	Elisa DENGUE IGG ANTIBODIES	EACH						
65	Elisa DENGUE IGM ANTIBODIES	EACH						
66	Elisa DENGUE NS1 AG	EACH						
67	Elisa Scrub Typhus Detect IgM	EACH						
68	Elisa MALARIA	EACH						
69	STOOL ROUTINE MICRO OVA and CYST	EACH						
70	MALARIAL PARASITE	EACH						
71	SPUTUM FOR AFB	EACH						
72	TORCH PROFILE IGG and IGM	EACH						
73	ELISA HCV Ab	EACH						
74	Diluent 20L	EACH						
75	Diluent 5P 20L	EACH						
76	Lyse - 500ml	EACH						
77	Lyse 5P – (5L)	EACH						
78	Diff 5P – 500ml	EACH						
79	Hypo Clean (100ml)	EACH						
80	Probe Cleaner	EACH						
81	URINE PREGNANCY	EACH						
82	ESR	EACH						
83	urine test strips packsize - 100 strips	EACH						
84	HEMOGLOBIN	EACH						

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85	Blood Sugar	EACH					
86	Glucose Tolerance Test	EACH					
87	S Bilirubin T	EACH					
88	S Bilirubin Direct and Indirect	EACH					
89	S Creatinine	EACH					
90	S Urea	EACH					
91	SGPT	EACH					
92	SGOT	EACH					
93	ALP	EACH					
94	GGT	EACH					
95	Total Protein	EACH					
96	S Albumin and AG Ratio	EACH					
97	S Total Cholesterol	EACH					
98	S Triglycerides	EACH					
99	S HDL With Calibrator	EACH					
100	S LDL With Calibrator	EACH					
101	S Uric Acid	EACH					
102	S Amylase	EACH					
103	S LDH	EACH					
104	HbAlC With Calibrator Set	EACH					
105	S Calcium	EACH					
106	S Lipase	EACH					
107	S Iron	EACH					
108	S Sodium	EACH					
109	S Potassium	EACH					
110	S Chloride	EACH					
111	Cleaning Solution Kit	EACH					
112	Electrolyte Control	EACH					
113	S TSH	EACH					
114	S Free T3	EACH					
115	S Free T4	EACH					
116	S Vitamin D	EACH					
117	S LH	EACH					
118	S CA 19.9	EACH					
119	S AFP	EACH					
120	S CA-125	EACH					
121	S CEA	EACH					
122	S CA 15.3	EACH					
123	S Vitamin B12	EACH					
124	S Vitamin A Retinol	EACH					
125	Folic Acid Assay	EACH					
126	Prolactin	EACH					
127	Trop I	EACH					
128	S Ferritin	EACH					
129	PSA	EACH					
130	FSH	EACH					
131	Iron Binding Capacity	EACH					
132	Multi Calibrator	EACH					
133	Human Assay Control 1	EACH					
134	Human Assay Control 2	EACH					
135	HbA1C Calibrator	EACH					
136	HbA1C Control	EACH					
137	Lipid Calibrator	EACH					
138	Lipid Control 1	EACH					

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139	Lipid Control 2	EACH					
140	Thromoplastin	EACH					
141	APTT	EACH					
142	Cuvette	EACH					
143	Fibronogen	EACH					
144	TT	EACH					
145	PROCALCITONIN	EACH					
146	CK MB	EACH					
147	MYOGLOBINE	EACH					
148	HS TROPONIN I	EACH					
149	NT-PROBNP 2	EACH					
150	DIGOXIN	EACH					
151	D-DIMER EXCLUSION II	EACH					
152	PROTEIN C	EACH					
153	VWF	EACH					
154	TSH	EACH					
155	FT3	EACH					
156	T3	EACH					
157	T4	EACH					
158	TSH3	EACH					
159	FT4	EACH					
160	ANTI-TPO	EACH					
161	ANTI-TG	EACH					
162	HCG	EACH					
163	LH	EACH					
164	FSH	EACH					
165	PROGESTERONE	EACH					
166	PROLACTIN	EACH					
167	TESTOSTERONE II	EACH					
168	ESTRADIOL II	EACH					
169	AMH	EACH					
170	IGE	EACH					
171	FERRITIN	EACH					
172	TOTAL 25OH VITAMIN D	EACH					
173	PTH (1-84)	EACH					
174	BETA 2 MICROGL.	EACH					
175	AFP	EACH					
176	CA 125II	EACH					
177	CA 19-9	EACH					
178	TPSA	EACH					
179	CA 15-3	EACH					
180	FPSA	EACH					
181	CEA (S)	EACH					
182	ANTI HBS TOTAL II	EACH					
183	HBE/ANTI-HBE	EACH					
184	HAV IGM	EACH					
185	ANTI-HCV	EACH					
186	ANTI-HAV TOTAL	EACH					
187	ANTI-HBC TOTAL II	EACH					
188	HBS AG ULTRA	EACH					
189	HBC IGM II	EACH					
190	ANTI-HEV IGM (HEVM)	EACH					
191	ANTI-HEV IGG (HEVG)	EACH					
192	HIV DUO ULTRA	EACH					

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193	TOXO IGM	EACH					
194	CMV IGG AVIDITY II	EACH					
195	CMV IGG	EACH					
196	CMV IGM	EACH					
197	TOXO IGG II	EACH					
198	RUB IGM	EACH					
199	RUB IGG II	EACH					
200	TOXO IGG AVIDITY	EACH					
201	CD A/B	EACH					
202	GDH	EACH					
203	LYME IGM	EACH					
204	LYME IGG	EACH					
205	H. PYLORI IGG	EACH					
206	VARICEL. ZOSTER IGG	EACH					
207	MUMPS IGG	EACH					
208	MEASLES IGG	EACH					
209	SARS-COV-2 IgM (9COM)	EACH					
210	SARS-COV-2 IgG II	EACH					
211	EBNA IGG	EACH					
212	EBV VCA/EA IGG	EACH					
213	EBV VCA IGM	EACH					
214	DENGUE NS1 AG	EACH					
215	ANTI DENGUE IGM	EACH					
216	ANTI DENGUE IGG	EACH					
217	QCV-QUALITY CONTROL	EACH					
218	OPT	EACH					
219	THERMAL PRINTER PAPER 110 MM	EACH					
220	PROCALCITONIN	EACH					
221	CORTISOL S	EACH					
222	D-DIMER EXCLUSION II	EACH					
223	NT-PROBNP 2	EACH					
224	HS TROPONIN I 3	EACH					
225	FA PLUS	EACH					
226	FN PLUS	EACH					
227	PF PLUS	EACH					
228	MP	EACH					
229	BLOOD CULT. HOLDER NONSTERILE	EACH					
230	CALIBRATOR STICK	EACH					
231	ANTIB. SUPPL.	EACH					
232	GN TEST KIT	EACH					
233	GP TEST KIT	EACH					
234	YST TEST KIT	EACH					
235	BCL TEST KIT	EACH					
236	NH TEST KIT	EACH					
237	ANC TEST KIT	EACH					
238	CBC TEST KIT	EACH					
239	AST-ST03 TEST KIT	EACH					
240	AST-N280 TEST KIT	EACH					
241	AST-N281 TEST KIT	EACH					
242	AST-P628 TEST KIT	EACH					
243	AST YS08	EACH					
244	AST-N235 TEST KIT	EACH					
245	AST-N407 TEST KIT	EACH					

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246	AST-N405 TEST KIT	EACH					
247	AST-N406 TEST KIT	EACH					
248	KIT DENSICHEK PLUS STANDARDS	EACH					
249	UNSENSITIZED TUBES 1X2000	EACH					
250	SUSPENSION SOLUTION	EACH					
251	SMALL DISPENSER 1	EACH					
252	PIPETTE 145MCL FIXED VOLUME	EACH					
253	PIPETTE 280MCL FIXED VOLUME	EACH					
254	0.45% NACL SALINE BAG	EACH					
255	ACCESSORY KIT PIP/DIL	EACH					
256	PIPETTE TIPS 100	EACH					
257	PIPETTE TIPS 0,5 250UL	EACH					
258	KIT, GI PANEL, IVD 6 TESTS	EACH					
259	ME PANEL, IVD 6 TESTS	EACH					
260	FILMARRAY PNEUMO PLUS PANEL, 30 TESTS	EACH					
261	GI PANEL, IVD, 30 TESTS	EACH					
262	BCID2 PANEL, 30 TESTS	EACH					
263	ME PANEL, IVD 30 TESTS	EACH					
264	RP2.1 PANEL, 30 TESTS IVD	EACH					
265	Reagent Pack	EACH					
266	Cleaner	EACH					
267	Quality Control	EACH					

Note:

1. All informations in the above format are mandatory and bidders are requested to furnish the same without fail.

2. All bidders should furnish a catalogue, a physical sample to be furnished as and when requested by the Tender committee, failing which bidder will be disqualified.

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Annexure – III/A

FINANCIAL BID

Item No.	Name of Items	UNIT	Basic Price/Unit (in Rs) Per Unit in Figure) up to destination	SGST in Percentage In Figures To be entered by the Bidder In (INR)	CGST in Percentage In Figures To be entered by the Bidder in (INR)	IGST in Percentage @.....In Figures To be entered by the Bidder in (INR)	Total Cost/unit (4+5+6)or (4+7)	Combined rate (INR) (A)
1	2	3	4	5	6	7	8	9
1	Digital Colorimeter	EACH						
2	Rotor/Shaker	EACH						
3	Blood Cell Counter	EACH						
4	Autoclave	EACH						
5	Fully Automated Multi Parametric Immunoassay Analyzer	EACH						
6	Water Bath	EACH						
7	Bacteriological Incubator	EACH						
8	Deep Freezer(-86 deg C)	EACH						
9	Deep Freezer(-25 deg C)	EACH						
10	Fluorescent Microscope	EACH						

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	Vertical Laminar Flow	**EACH**						
11								
12	Digital Thermometer	**EACH**						
13	Hot Air Oven (Digital)	**EACH**						
14	AUTOMATED MICROBIAL GROWTH DETECTION & MONITORING SYSTEM	**EACH**						
15	AUTOMATED IDENTIFICATION & ANTIMICROBIAL SUSCEPTIBILITY SYSTEM	**EACH**						
16	Incubator	**EACH**						
17	Needle Syringe Destroyer	**EACH**						
18	Fully Automated Multiplex PCR System Used for Syndromic Testing	**EACH**						
19	Centrifuge 4 tube	**EACH**						
20	Centrifuge 8 tube	**EACH**						
21	Centrifuge 16 Tube	**EACH**						
22	Real Time PCR Machine	**EACH**						
23	Hot Plate for culture media preparation	**EACH**						
24	Vortex Mixer	**EACH**						

	Multi Channel Pipette (octa pipette)	EACH						
25								
26	Binocular Microscope LED with camera	EACH						
27	Bunsen Burner	EACH						
28	Biosafety Cabinet Class II A	EACH						
29	Microcentrifuge Machine	EACH						
30	Blood Gas Analyzer	EACH						
31	Micropipettes of fixed and variable volumes (1-10ul/2 -20uI/10 — 100u1/ 20 —200ul/100 - 1000ul)	EACH						
32	Urine Analyser	EACH						
33	Microscope	EACH						
34	3-part Hematology Cell Counter	EACH						
35	5-part Haematology Cell Counter	EACH						
36	Turbidometer	EACH						
37	Blood Collection tubes (K2 EDTA, Sodium fluoride, Gel and clot activation)	EACH						
38	RO plant/Deioniser	EACH						

	Fully Automated Biochemistry Analyzer for Molecular Lab	EACH						
39 40	Semi-Automated Biochemistry Analyzer	EACH						
41	Fluorescence Immunoassay Analyzer	EACH						
42	ESR Analyzer	EACH						
43	Electrophoresis Machine	EACH						
44	Mono pan Analytic Weighing Scale	EACH						
45	Semi Automated Coagulation Analyzer	EACH						
46	Fully Automated Biochemistry Analyzer	EACH						
47	Semi-Automated ELISA reader and washer	EACH						
48	High Performance Liquid Chromatography (HPLC)	EACH						
49	Fully Automated ELISA Reader and Washer	EACH						
50	Digital pH meter	EACH						
51	Laminar Air Flow (Horizontal)	EACH						
52	Horizontal Electrophoresis	EACH						
53	Semi Auto Analyser	EACH						

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	Electrolyte Analyzer with indirect Ion selective Electrode	EACH						
54								
55	100 -240V/50 Hz (Online UPS 2KVA)	EACH						
56	220/240V AC; 60Hz; 8w (Online UPS 2KVA)	EACH						
57	Online UPS 2KVA	EACH						
58	Neubauer's counting chamber	EACH						
59	ESR Tube With Stand	EACH						
60	Alcohol Thermometer	EACH						
61	Slide Staining Racks	EACH						
62	Elisa HbsAg	EACH						
63	Elisa HIV 1plus 2 Ab	EACH						
64	Elisa DENGUE IGG ANTIBODIES	EACH						
65	Elisa DENGUE IGM ANTIBODIES	EACH						
66	Elisa DENGUE NS1 AG	EACH						
67	Elisa Scrub Typhus Detect IgM	EACH						
68	Elisa MALARIA	EACH						

69	STOOL ROUTINE MICRO OVA and CYST	EACH							
70	MALARIAL PARASITE	EACH							
71	SPUTUM FOR AFB	EACH							
72	TORCH PROFILE IGG and IGM	EACH							
73	ELISA HCV Ab	EACH							
74	Diluent 20L	EACH							
75	Diluent 5P 20L	EACH							
76	Lyse - 500ml	EACH							
77	Lyse 5P – (5L)	EACH							
78	Diff 5P – 500ml	EACH							
79	Hypo Clean (100ml)	EACH							
80	Probe Cleaner	EACH							
81	URINE PREGNANCY	EACH							
82	ESR	EACH							
83	urine test strips packsize - 100 strips	EACH							

	HEMOGLOBIN	EACH						
84								
85	Blood Sugar	EACH						
86	Glucose Tolerance Test	EACH						
87	S Bilirubin T	EACH						
88	S Bilirubin Direct and Indirect	EACH						
89	S Creatinine	EACH						
90	S Urea	EACH						
91	SGPT	EACH						
92	SGOT	EACH						
93	ALP	EACH						
94	GGT	EACH						
95	Total Protein	EACH						
96	S Albumin and AG Ratio	EACH						
97	S Total Cholesterol	EACH						
98	S Triglycerides	EACH						

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	S HDL With Calibrator	**EACH**						
99 100	S LDL With Calibrator	**EACH**						
101	S Uric Acid	**EACH**						
102	S Amylase	**EACH**						
103	S LDH	**EACH**						
104	HbAlC With Calibrator Set	**EACH**						
105	S Calcium	**EACH**						
106	S Lipase	**EACH**						
107	S Iron	**EACH**						
108	S Sodium	**EACH**						
109	S Potassium	**EACH**						
110	S Chloride	**EACH**						
111	Cleaning Solution Kit	**EACH**						
112	Electrolyte Control	**EACH**						
113	S TSH	**EACH**						

	S Free T3	EACH						
114								
115	S Free T4	EACH						
116	S Vitamin D	EACH						
117	S LH	EACH						
118	S CA 19.9	EACH						
119	S AFP	EACH						
120	S CA-125	EACH						
121	S CEA	EACH						
122	S CA 15.3	EACH						
123	S Vitamin B12	EACH						
124	S Vitamin A Retinol	EACH						
125	Folic Acid Assay	EACH						
126	Prolactin	EACH						
127	Trop I	EACH						
128	S Ferritin	EACH						

	PSA	**EACH**						
129								
130	FSH	**EACH**						
131	Iron Binding Capacity	**EACH**						
132	Multi Calibrator	**EACH**						
133	Human Assay Control 1	**EACH**						
134	Human Assay Control 2	**EACH**						
135	HbA1C Calibrator	**EACH**						
136	HbA1C Control	**EACH**						
137	Lipid Calibrator	**EACH**						
138	Lipid Control 1	**EACH**						
139	Lipid Control 2	**EACH**						
140	Thromoplastin	**EACH**						
141	APTT	**EACH**						
142	Cuvette	**EACH**						
143	Fibronogen	**EACH**						

144	TT	EACH						
145	PROCALCITONIN	EACH						
146	CK MB	EACH						
147	MYOGLOBINE	EACH						
148	HS TROPONIN I	EACH						
149	NT-PROBNP 2	EACH						
150	DIGOXIN	EACH						
151	D-DIMER EXCLUSION II	EACH						
152	PROTEIN C	EACH						
153	VWF	EACH						
154	TSH	EACH						
155	FT3	EACH						
156	T3	EACH						
157	T4	EACH						
158	TSH3	EACH						

	FT4	**EACH**						
159								
160	ANTI-TPO	**EACH**						
161	ANTI-TG	**EACH**						
162	HCG	**EACH**						
163	LH	**EACH**						
164	FSH	**EACH**						
165	PROGESTERONE	**EACH**						
166	PROLACTIN	**EACH**						
167	TESTOSTERONE II	**EACH**						
168	ESTRADIOL II	**EACH**						
169	AMH	**EACH**						
170	IGE	**EACH**						
171	FERRITIN	**EACH**						
172	TOTAL 25OH VITAMIN D	**EACH**						
173	PTH (1-84)	**EACH**						

	BETA 2 MICROGL.	EACH						
174								
175	AFP	EACH						
176	CA 125II	EACH						
177	CA 19-9	EACH						
178	TPSA	EACH						
179	CA 15-3	EACH						
180	FPSA	EACH						
181	CEA (S)	EACH						
182	ANTI HBS TOTAL II	EACH						
183	HBE/ANTI-HBE	EACH						
184	HAV IGM	EACH						
185	ANTI-HCV	EACH						
186	ANTI-HAV TOTAL	EACH						
187	ANTI-HBC TOTAL II	EACH						
188	HBS AG ULTRA	EACH						

	HBC IGM II	EACH						
189								
190	ANTI-HEV IGM (HEVM)	EACH						
191	ANTI-HEV IGG (HEVG)	EACH						
192	HIV DUO ULTRA	EACH						
193	TOXO IGM	EACH						
194	CMV IGG AVIDITY II	EACH						
195	CMV IGG	EACH						
196	CMV IGM	EACH						
197	TOXO IGG II	EACH						
198	RUB IGM	EACH						
199	RUB IGG II	EACH						
200	TOXO IGG AVIDITY	EACH						
201	CD A/B	EACH						
202	GDH	EACH						
203	LYME IGM	EACH						

	LYME IGG	EACH						
204								
205	H. PYLORI IGG	EACH						
206	VARICEL. ZOSTER IGG	EACH						
207	MUMPS IGG	EACH						
208	MEASLES IGG	EACH						
209	SARS-COV-2 IgM (9COM)	EACH						
210	SARS-COV-2 IgG II	EACH						
211	EBNA IGG	EACH						
212	EBV VCA/EA IGG	EACH						
213	EBV VCA IGM	EACH						
214	DENGUE NS1 AG	EACH						
215	ANTI DENGUE IGM	EACH						
216	ANTI DENGUE IGG	EACH						
217	QCV-QUALITY CONTROL	EACH						
218	OPT	EACH						

219	THERMAL PRINTER PAPER 110 MM	EACH						
220	PROCALCITONIN	EACH						
221	CORTISOL S	EACH						
222	D-DIMER EXCLUSION II	EACH						
223	NT-PROBNP 2	EACH						
224	HS TROPONIN I 3	EACH						
225	FA PLUS	EACH						
226	FN PLUS	EACH						
227	PF PLUS	EACH						
228	MP	EACH						
229	BLOOD CULT. HOLDER NONSTERILE	EACH						
230	CALIBRATOR STICK	EACH						
231	ANTIB. SUPPL.	EACH						
232	GN TEST KIT	EACH						
233	GP TEST KIT	EACH						

	YST TEST KIT	EACH						
234								
235	BCL TEST KIT	EACH						
236	NH TEST KIT	EACH						
237	ANC TEST KIT	EACH						
238	CBC TEST KIT	EACH						
239	AST-ST03 TEST KIT	EACH						
240	AST-N280 TEST KIT	EACH						
241	AST-N281 TEST KIT	EACH						
242	AST-P628 TEST KIT	EACH						
243	AST YS08	EACH						
244	AST-N235 TEST KIT	EACH						
245	AST-N407 TEST KIT	EACH						
246	AST-N405 TEST KIT	EACH						
247	AST-N406 TEST KIT	EACH						
248	KIT DENSICHEK PLUS STANDARDS	EACH						

	UNSENSITIZED TUBES 1X2000	EACH						
249 250	SUSPENSION SOLUTION	EACH						
251	SMALL DISPENSER 1	EACH						
252	PIPETTE 145MCL FIXED VOLUME	EACH						
253	PIPETTE 280MCL FIXED VOLUME	EACH						
254	0.45% NACL SALINE BAG	EACH						
255	ACCESSORY KIT PIP/DIL	EACH						
256	PIPETTE TIPS 100	EACH						
257	PIPETTE TIPS 0,5 250UL	EACH						
258	KIT, GI PANEL, IVD 6 TESTS	EACH						
259	ME PANEL, IVD 6 TESTS	EACH						
260	FILMARRAY PNEUMO PLUS PANEL, 30 TESTS	EACH						
261	GI PANEL, IVD, 30 TESTS	EACH						
262	BCID2 PANEL, 30 TESTS	EACH						
263	ME PANEL, IVD 30 TESTS	EACH						

Office of Mission Director, National Health Mission
Directorate of Health Services, Health Complex, Upper New Colony, Laitumkhrah, Shillong - 793003
Phone: (0364) 2504532 Email: nrhmmegh@gmail.com
www.nrhmmeghalaya.nic.in Nhm Meghalaya @iecbccnhmmegh IECBCC NHM Meghalaya

	RP2.1 PANEL, 30 TESTS IVD	**EACH**						
264								
265	Reagent Pack	**EACH**						
266	Cleaner	**EACH**						
267	Quality Control	**EACH**						

Note :

1. The rates should be inclusive of everything viz. kit, Freight, Packing, Forwarding, Insurance, Transportation, loading/unloading, GST etc up to destination as specified in page no.4 clause 3(a) under Term of delivery
2. The Excise Duty/Custom Duty, Custom Clearance Charges, Agency Commission etc. wherever applicable, should be inclusive in the above Financial Bid.
3. The Rates quoted against each items on the Tender shall be without cutting, tampering and a Transparent Tape should be applied on the Quoted Rates.
4. Rates Quoted should be typed and free from Fluiding, Cutting and Overwriting. No hand written quotations will be accepted.
5. The authority will make procurement for all items or for selected items based on requirement and on the availability of budget amount. Decision of the authority in this matter is final
6. The bidder with the lowest overall quoted rate i.e. ANNEXURE-III/A column 9 of the price bid format + ANNEXURE-III/B combined rate, will be awarded with the contract
7. Payment will be made on completion of work and subject to fund availability.
8. Payment of CMC cost will be made at the end of each CMC period and subject to service satisfactory.

Name(s) & Signature of Authorized person of the Tenderer with Designation & Office Seal

Name of the Firm .....

Date.....

Place.....

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CMC – CHARGES

Annexure – III/B

Item No.	Name of Equipment	Rate of CMC					Total CMC Cost for a number of CMC Period	Taxes (IF ANY)	Total CMC cost inclusive of Tax amount	Combined CMC Cost (B)
		1st Year	2nd Year	3rd Year	4th Year	5th Year				
1	Digital Colorimeter									
2	Rotor/Shaker									
3	Blood Cell Counter									
4	Autoclave									
5	Fully Automated Multi Parametric Immunoassay Analyzer									
6	Water Bath									
7	Bacteriological Incubator									
8	Deep Freezer(-86 deg C)									
9	Deep Freezer(-25 deg C)									
10	Fluorescent Microscope									
11	Vertical Laminar Flow									
12	Digital Thermometer									
13	Hot Air Oven (Digital)									
14	AUTOMATED MICROBIAL GROWTH DETECTION & MONITORING SYSTEM									
15	AUTOMATED IDENTIFICATION & ANTIMICROBIAL SUSCEPTIBILITY SYSTEM									
16	Incubator									
17	Needle Syringe Destroyer									
18	Fully Automated Multiplex PCR System Used for Syndromic Testing									
19	Centrifuge 4 tube									
20	Centrifuge 8 tube									
21	Centrifuge 16 Tube									
22	Real Time PCR Machine									

23	Hot Plate for culture media preparation									
24	Vortex Mixer									
25	Multi Channel Pipette									
26	Binocular Microscope LED with camera (Desirable)									
27	Bunsen Burner									
28	Biosafety Cabinet Class II A									
29	Microcentrifuge Machine (upto 16,000 rpm)									
30	Blood Gas Analyzer									
31	Micropipettes of fixed and variable volumes (1-10ul/2 - 20uI/10 — 100u1/ 20 —200ul/100 - 1000ul)									
32	Urine Analyser									
33	Microscope									
34	3-part Hematology Cell Counter									
35	5-part Haematology Cell Counter									
36	Turbidometer									
37	Blood Collection tubes (K2 EDTA, Sodium fluoride, Gel and clot activation)									
38	RO plant/Deioniser									
39	Fully Automated Biochemistry Analyzer for Molecular Lab									
40	Semi-Automated Biochemistry Analyzer									
41	Fluorescence Immunoassay Analyzer									
42	ESR Analyzer									
43	Electrophoresis Machine									
44	Mono pan Analytic Weighing Scale									
45	Semi Automated Coagulation Analyzer									
46	Fully Automated Biochemistry Analyzer									
47	Semi-Automated ELISA reader and									

	washer									
48	High Performance Liquid Chromatography (HPLC)									
49	Fully Automated ELISA Reader and Washer									
50	Digital pH meter									
51	Laminar Air Flow (Horizontal)									
52	Horizontal Electrophoresis									
53	Semi Auto Analyser									
54	Electrolyte Analyzer with indirect Ion selective Electrode									
55	100 -240V/50 Hz (Online UPS 2KVA)									
56	220/240V AC; 60Hz; 8w (Online UPS 2KVA)									
57	Online UPS 2KVA									
58	Neubauer's counting chamber									
59	ESR Tube With Stand									
60	Alcohol Thermometer									
61	Slide Staining Racks									

Name(s) & Signature of Authorized person of the Tenderer with Designation & Office Seal

Name of the Firm .....

Date.....

Place.....

Annexure-IV

LETTER OF UNDERTAKING

To,

Mission Director,NHM
Health Complex, Laitumkrah
Shillong, Meghalaya

Tender No:
Tender Date:
For:

Sir / Madam,

1. I, Shri _____ on behalf of _____ having its registered office at _____ and its branch office at _____ do hereby declare to comply with all the Terms and Conditions as specified in the NIT. The Rates quoted by me / us are valid and binding on me / us for acceptance for a period of one year from the date of award of contract to us.
2. We agree to the conditions of the tender under which the Earnest Money Deposit shall be forfeited by us.
3. The tender inviting authority has the right to accept or reject any or all the Tenders without assigning any reason thereof.
4. We understand all the Terms and Conditions of the Contract and bind myself / ourselves to abide by them.
5. I hereby furnish the following details as specified by the NIT:

FIRM DETAILS	Firm Name	
	Proprietorship / Entrepreneurship / Holding Company, Partnership Firm	
	Name of Proprietor / Director / CEO / Others	
	Address	
	Telephone Number	
	Fax Number	
	Mobile Number	
	Email Id	
	Bank Name	
BANK DETAILS	Address	
	Account Number	
	IFSC Code	
	NEFT Code	

6. We hereby declare that as per the attached Affidavit, there is no vigilance / CBI or Court Case pending /Contemplated against us at the moment.

7. All information provided is True & Accurate. If at any time it is found that any information provided is proven false, I agree to the Cancellation / Termination of the Tender / Agreement leading up to blacklisting of the said firm under the Government of Meghalaya for a period of three years.

SIGNATURE
NAME & ADDRESS OF BIDDER
DATE

Annexure-V

BID SECURITRY FORM

Whereas ..... (hereinafter called "the Bidder") has submitted its bid dated.....for the supply of ..... vide Tender No..... dated..... KNOW ALL MEN by these presents that WE ..... having our office at ..... (hereinafter called "the Bidder") are bound unto Mission Director, Nationla Health Mission, Meghalaya (hereinafter called "the Purchaser") the sum of Rs..... vide DD no..... for which
payment will and truly to be made of the said Purchaser, the Bidders binds itself, its successors and assigns by these present.

THE CONDITIONS of the obligation are:

1. If the Bidder withdraws his bid during the period of bid validity specified by the Bidder on the Bid form OR
2. If the Bidder, having been notified of the acceptance of his bid by the Purchaser during the period of bid validity
   a) fails or refuses to execute the Contract, if required; or
   b) fails or refuses to furnish the Performance Security, in accordance with the instructions to Bidders.

We undertake to pay to the Purchaser up to the above amount upon receipt of its first written demand, without the purchaser having to substantiate its demand, provided that in its demand, the purchaser will note that the amount claimed by it is due to it owning to the occurrence of one or both of the two conditions, specifying the occurred condition or conditions.
This guarantee will remain in force as to the bidders of the Bid Document up to and including Ninety (90) days from date of opening the Tender and any demand in respect thereof should reach the Bidder not later than date to be specified.

Signature of the Bidder.
Name
Signed in Capacity of
Full address of Office
Tel No. of Office

***

Annexure-VI

PERFORMANCE SECURITY BOND FORM

.....(Insert: Bank's Name and Address of Issuing Branch or Office)

Beneficiary: ..... ***(Insert: name and Address of Purchaser or*** Mission Director, Nationla Health Mission, Meghalaya), here in after called the Mission Director, Nationla Health Mission, Meghalaya

Date: .....

PERFORMANCE GUARANTEEE No: .....

We have been informed that ***(insert: name of Supplier)*** has entered into Contract No. ***(Insert: reference no of the contract)*** dated ..... With you, for the supply of ***(insert: description of goods).***

Furthermore, we understand that, according to the conditions of the Contract, a performance guarantee is required.

At the request of the Supplier, we ***(insert: name of bank)*** hereby irrevocably undertake to pay you a sum or sums not exceeding in total an amount of ***(insert: amount in figures)*** (.....) ***(insert: amount in words)*** upon receipt by us of your first demand in writing accompanied by a written statement stating that the supplier is in breach of its obligation(s) under the Contract, without your needing to prove or to show grounds for your demand or the sum specified therein.

This guarantee shall expire no later than the ..... Day of ....., 2..... , **and any demand for payment under it must be received by us at this office on or before that date.

** The guarantor agrees to extension of this guarantee for a further period in response to the purchaser's written
request for such extension, such request to be presented to the Guarantor before the expiry of the guarantee.

Dated: _____

For_____
(Indicating the name of the Bank)

N.B. This guarantee should be issued on non-judicial stamped paper, stamped in accordance with the stamp act

Annexure VII

ANNUAL TURNOVER STATEMENT OF THE BIDDER

a) Name of the firm_____

b) Address_____

c) Annual turnover for the last three years_____
(In Indian Rupees)

Financial Year	Turnover (Rs. in Lakh)	Chartered Accountant-certified supporting documentation
2019-2020		Attached/Not Attached
2020-2021		Attached/Not Attached
2021-2022		Attached/Not Attached

Seal & Signature of Chartered Accountant / Auditor
Date:

N.B. This statement should be issued CA certified and on CA's letter head

ANNEXURE-VIII

Checklist

Sl No	Particulars	Yes/No	Page No.
1	Sealed Envelope		
2	Tender Fee (if document is obtained from the office of the authority)		
3	Ownership Details (Partnership deed / Letter of ownership / Memorandum of Association)		
4	Attested / Notarized Copy of Certificate of Registration /GST registration		
5	Attested Copy of Trading License issued by KHADC / GHADC / JHADC for Non Tribal Firm.		
6	Up to date Income Tax Certificate or similar valid documents (where applicable) for Non Tribal Firms		
7	Attested Copy of the Schedule Caste / Schedule Tribe Certificate for Tribal Firms		
8	Attested Copy of Last GST return filing		
9	Attested Copy of Up to date Professional Tax Clearance Certificate issued by KHADC/JHADC/GHADC		
10	Attested Copy of Permanent Account Number (PAN) Card of the firm or of the person in whose name the Proprietorship, Partnership, Firm etc is registered under.		
11	Customer feedback or any supply order similar equipments/Goods from Central/ State Govt. Dept. / PSU or Private Limited Company		
12	Court Fee Stamp (Rs. 25/-)		
13	Attested copy of a Cancelled Cheque of the Firm clearly indicating Bank Name, Branch, Account Number, IFSC.		
14	An Affidavit on a Non Judicial Stamp Paper of Rs. 10/-, attested by a Notary Public (In Original) that there is no vigilance / CBI Case or arbitration cases pending with the Government of Meghalaya against the Form/Supplier that the Proprietor /Director/Members of the Board of Directors of the Bidder and the Principal Manufacturer on whose behalf they have quoted has never been blacklisted by any Institution (Government or Public).		
15	Self Attested copy of the Tender Document purchased from the department or Downloaded from the website.		
16	ISO Certified for quality standards		
17	Security Bid (EMD) in the form of a Crossed Demand Draft issued by a Schedule Bank / Commercial Bank drawn in favor of Mission Director, NHM, Meghalaya payable at Shillong (Refundable) carrying no form of interest on it.		
18	Valid Authorization letters from the OEMs (in case of trading partners) for Supply & Participation in Tender.		
19	Company/Firm Registration Certificate		
20	Detail Specification Annexure-I		
21	Technical bid Annexure-II		
22	Financial Bid Format Annexure-III		
23	Letter of Undertaking Annexure –IV		
24	Bid Security Annexure –V		
25	Performance Security-VI		
26	Annual Turnover-VII		
27	Deleted		
28	Deleted		
29	Any other as specified in the NIT document		

***Note:(√ or X) in 'Yes/No' column respectively.**

SIGNATURE
NAME & ADDRESS OF BIDDER
DATE

No. DHS/MCH& FW/NHM/LAB/93//2022/ Dated

NOTICE INVITING TENDER

Mission Director, Nationla Health Mission, Meghalaya is inviting Tender from the interested firms for Supply of Lab Consumable items and equipmentst. The details of specification, Terms and conditions, etc. can be downloaded from http://nhmmeghalaya.nic.in.

Notice Inviting Tender (NIT) Document:
Date for downloading/obtaining the Tender Documents: 06th/Oct/2022
Last date for submission of NIT Document: 25th /Oct/2022 at 11:00am
Tender opening date : 25th /Oct/2022 at 1:00pm

Any changes or any further notifications in respect to the above Notice Inviting Tender (NIT) Document shall be made available only at the above mentioned website. Hence respective bidders are advised to visit the website regularly for the above purpose.

For any query Contact: Procurement Officer
Contact no: +917005662189

Sd/-
Mission Director, NHM
Meghalaya, Shillong.