राजस्थान–सरकार

चिकित्सा एवं स्वास्थ्य विभाग,

स्वास्थ्य भवन, तिलक मार्ग, सी–स्कीम, जयपुर

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क्रमांकः एफ04()एमएनजेवाई/ हब एवं स्पोक मॉडल /2021–22/ 283 दिनांक : 09/12/21

Corrigendum/Clarification/Amended

Sub:-Revised bid information of advertisement No. F04()MNJY/ Hub & SpokeMmodel/2021-22/125 dated 06-08-2021. in reference to above cited subjected technical and financial term and conditions as below:

S. N.	RFP Point No./page no.	Existing provision/conditions		Amended/Clarified/Added/Provision/Condition	
	Schedule	Previous Date	Revised Dates and Time	Previous Date	Revised Dates and Time
	Last date for Submission of Bids Download/upload upto	30.11.2021 at 5.00 PM	14.12.2021 at 5.00 PM	14.12.2021 at 5.00 PM	28.12.2021 at 5.00 PM
	Original Bank Draft/ Bankers check Received upto	01.12.2021 at 11.30AM	15.12.2021 at 11.30AM	15.12.2021 at 11.30AM	29.12.2021 at 11.30AM
	Opening of tender Document	01.12.2021 at 12.30PM	15.12.2021 at 12.30PM	15.12.2021 at 12.30PM	29.12.2021 at 12.30PM
1.	NIT Page no. 2 Point no. 10	Processing fee in favour of MD (RISL) Tender fee in favour of Director (PH)		Processing fee in favour of MD (RISL) Tender fee in favour of Rajasthan State Health Society. Payble at jaipur.	
2.	Project Background Pg.No.5 Point no. 17	सभी मदर लैब को कार्य आरम्भ से 2 वर्ष के भीतर सभी प्रस्तावित जांचो को NABL से Accreditation करवाना होगा। सभी हब लैब को कार्य आरम्भ से 2 वर्ष के भीतर ISO certification करवाना होगा। इस हेतु समस्त व्यय एवं Processing सफल निविदादाता फर्म को ही करनी होगी।		सभी लैबों में किये गये टेस्टों का भुगतान निविदा में अनुमोदित दर अनुसार किया जावेगा। जिन टेस्टों का NABL accreditation करवाया जायेगा उन टेस्टों का भुगतान 5% अतिरिक्त प्रोत्साहन (Incentive) राशि के रूप में किया जावेगा।	
3.	Project Background Page 5 Point no. 26	Mother Lab/ Hub Lab/Spoke प्रयोगशाला में वर्णित शतप्रतिशत जाँचो का नियमानुसार त्रैमासिक (Quarterly) EQAS करवा कर राज्य स्तर पर गुणवत्ता रिपोर्ट प्रस्तुत करनी होगी।		Mother Lab/ Hub Lab/Spoke प्रयोगशाला में निर्धारित जांचों का शतप्रतिशत नियमानुसार त्रैमासिक (Quarterly) अर्थात प्रत्येक त्रैमास की समाप्ति के 15 दिवस में EQAS/IQC करवा कर राज्य स्तर पर गुणवत्ता रिपोर्ट प्रस्तुत करनी होगी।	
4.	Project Background Page 5 Point no. 27	फर्म द्वारा Mother Lab/ Hub Lab/Spoke प्रयोगशालाओं में पदस्थापित किये जाने वाले लैब टैक्नीशियनों की न्यूनतम शैक्षणिक योग्यता 10+2 बायोलॉजी एवं डीएमएलटी या समकक्ष होनी आवश्यक है।		फर्म द्वारा Mother Lab/ Hub Lab/Spoke प्रयोगशालाओं में पदस्थापित किये जाने वाले लैब टैक्नीशियनों की न्यूनतम शैक्षणिक योग्यता 10+2 बायोलॉजी एवं डीएमएलटी एवं किसी भी राज्य की पैरा मेडिकल काउन्सिल में रजिस्ट्रर्ड होना आवश्यक है।	
5.	Insertion of new Point no. 44 Page No. 6			Every bidder must submit Proof of concept document for the proposed comprehensive LIS software and dashboard system for monitoring and reporting purpose covering all aspects of laboratory operations involved under this project. This LIS software and dashboard system may be	

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			linked to IHMS as per the requirement of the Department.
6.	**Insertion of Technical Presentation Clause** **Page No. 9**		**Project Presentation** Every bidder after submitting Technical Proposal for evaluation but prior to opening of Financial Proposals shall be required to give a Project presentation before the Committee in terms of understanding of scope, approach and methodology, project management plan, Instrument demonstration, IT system (LIS Software) to be used and other technical aspects of the proposal. The Date of Project Presentation shall be informed separately. One hard copy of presentation to be submitted after the presentation by the qualified bidder. See Annexure 'S'
7.	**Terms of Reference Point 3.8 Page 11**	The service provider shall perform all laboratory tests (refer Annexure A) agreed by the authority and enter the test results in the reporting platform within the defined TAT. The authority reserves the right at the time of Contract award and/or during validity of contract, to increase or decrease the number of Tests as per requirement. Similarly, the locations/health centres covered under this project i.e. Hub and Spoke locations can also be increased/ decreased as requirement of the contracting authority.	The bidder shall perform all laboratory tests (refer Annexure A) agreed by the authority and enter the test results in the reporting platform within the defined TAT. The authority reserves the right at the time of Contract award and/or during validity of contract, to increase or decrease the number of Tests as per requirement. Similarly, the locations/health centres/medical collage hospitals covered under this project i.e. Mother, Hub and Spoke lab locations can also be increased/ decreased as requirement of the contracting authority.
8.	**Pg. no 19 point no 1.7**	New point insertion	Process for assessment technically qualification of bidders shall be as per annexure 'S'
9.	**3. Activities to be performed by the Service Provider (Scope of Work)** **Point 19 Page 12**	**19.** Pursuant to the above stated, the movable and immovable assets of the Project shall be transferred back to authority after the expiry of Concession Period or in case of premature termination for any reasons whatsoever.	Under the present bidding process, the service provider (the successful bidder) shall be required to procure the equipments at its level and the same shall continue to be under the bidder's name till the end of the project period or till the premature termination of the project, as the case may be. After the completion of the project period of 5 years or in the event of premature termination of the project due to any reason, the bidder shall be under an obligation to transfer all the equipments to the authority or to any of the authority's office decided by the authority. In case, the successful bidder has to take a loan from a bank/financial institution, then it shall be categorically incorporated in the loan agreement between the lender bank and the loanee bidder that in any event of pre-mature termination of the contract between the authority and the bidder, the authority shall have the right to take over the repayment of the loan EMIs and get the equipments, transferred to the name of authority, although in such a case, the equipments, shall continue to be hypothecated to the Bank unless the all the remaining loan instalments, from the date of taking over by authority are repaid. A copy of the loan agreement signed between the lending institution and bidder shall be submitted to authority within seven days of its signing. Any amount due from the bidder which pertains to prior to taking over by the authority in such a

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			case, shall be settled between the lender Bank/financial institution and the loanee bidder. The Authority shall not be liable in such a case . Though, the equipments, shall have to be transferred in the name of authority after five years of the project period, still, in case there is any event of pre mature termination, the depreciation shall be calculated to be 10% for every six months passed and on the basis of the calculation so made, the financial value of the equipments, shall be arrived at. In case, the authority is bound take over the equipments, and the repayment to the Bank/ Financial Institution due to premature termination of the Contract, the amount of the loan repayment due from the date of such take over shall be deducted from the total value of the equipments, as derived according to the depreciation formula mentioned above, and after adjusting other deductions, penalties, recoveries etc. due on the part of the bidder the remaining amount, if any, shall be paid to the outgoing service provider. If the amount of remaining loan of the service provider exceeds the amount due towards the bidder, then appropriate action for the recovery of the balance amount shall be taken by the authority against the outgoing bidder. In case, the Bank/Lending institution requires to enter into tripartite agreement with the authority and the bidder as per their own rules and regulations, the request for the same shall be made to authority immediately. It is hereby clarified that taking any loan from any bank or financial institution for making available the equipments, is not at all any mandatory condition of this bidding process and if the bidder may provide the requisite equipments, from its own sources, the same is acceptable for the authority under this bid. Also, tripartite agreement shall not in any way be constructed as a guarantee for the financial credentials of the bidder or repayment of any default by the bidder, as the Bank/financial Institution shall take all suitable precautions/measures to examine and ensure the due financial and other credentials of the loanee bidder and ensure the repayment of its loan so extended to the bidder. Moreover, the tripartite agreement shall ensure that in case of any event of premature termination of the contract, the services can be continued, even if such an event requires taking over of the repayment of the loan to the bank/financial Institution. In such a case, authority may choose to run the project on its own or may also choose to select any other suitable service provider for the operation and maintenance of the services following the due process. In case, the tripartite agreement is not signed between the bank, bidder and the authority, this would not absolve the successful bidder/service provider from any of its commitments made under this bidding process or

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			entered into with the lending institution. Handover at the time of exit from the project- The assets shall have to be handed over to the authority on completion/ termination of the agreement in proper working condition. bidder shall ensure to send the detailed information on monthly basis of the assets procured in that particular month.
10.	**3.Activities to be performed by the Service Provider (Scope of Work) Point 21 Page 12**	**21.** The Service Provider shall facilitate the Hospital authorities in obtaining NABL accreditation of all mother labs within 02 years of commencement and ISO certification of all Hubs labs within 02 years of commencement of work.	सभी लैबों में किये गये टेस्टों का भुगतान निविदा में अनुमोदित दर अनुसार किया जावेगा। जिन टेस्टों का NABL accreditation करवाया जायेगा उन टेस्टों का भुगतान 5% अतिरिक्त प्रोत्साहन (Incentive) राशि के रूप में किया जावेगा।
11.	**4. Responsibility of the Medical and Health Department Page no. 13-14 Point no. 6**	Each mother laboratory should have diagnosticians stationed at the laboratories -- MD/DNB/Diploma (post MBBS) in Biochemistry, Pathology and Microbiology; and laboratory medicine (optional). Hub laboratories could be managed by PhD or M.Sc. (Microbiology/Biochemistry/Laborator y medicine). The diagnosticians in the mother laboratories should remotely carry out verification of results of all routine tests and of IQC and EQAS of all hub laboratories of that district and should sign the reports. The advanced tests conducted at mother laboratory however should be physically verified by these diagnosticians for reporting.	All mother laboratories shall have MD/DNB/Diploma (post MBBS) pathologists and biochemists and microbiologists appointed by the authorities who shall signature, supervise and monitor the activities of the bidder in lab operations. In any condition unavailability of Specialist doctors, firm shall provide as per NABL guidelines after given undertaking in writing. Hub laboratories shall be managed by the authority. The diagnosticians in the mother laboratories shall remotely carry out validation of results of all tests of all hub laboratories of that district. The advanced tests conducted at mother laboratory however shall be physically verified by these diagnosticians for reporting.
12.	**Point. Page. 15**	The termination of the contract will be subject to prior approval of MD(NHM) Medical and Health (Rajasthan).	**Termination of contract** a) The MD (NHM) may, by a notice in writing suspend the agreement in full or in part if the bidder fails to perform any of his obligations including carrying out the services, provided that such notice of suspension— i. Shall Specify the nature of failure, and ii. Shall request remedy of such failure within a period not exceeding 15 days after the receipt of such notice. The suspension, if made shall be revocable provided suitable measures/ remedial actions to the satisfaction of MD(NHM) is duly taken by the bidder. b) The MD (NHM) after giving 30 days clear notice in writing expressing the intention of termination by stating the ground/grounds on the happening of any of the events (i) to (iv), may terminate the agreement after giving reasonable opportunity of being heard to the bidder:- i. If the bidder do not remedy a failure in the performance of his obligations within 15 days of receipt of notice or within such further period as the MD (NHM) have subsequently approve in writing. ii. If the bidder becomes insolvent or bankrupt. iii. If, as a result of other than force majeure conditions, bidder is unable to perform a

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			material portion of the services for a period of not less than 30 days: or iv. If, in the judgment of the MD NHM, the service provider or any of its employee is engaged in corrupt or fraudulent practices in competing for or in implementation of the project.
13.	**Page No. 16** **Point no. 1**	The bidder shall be a registered legal entity (Company /Partnership firm/Society /Trust/LLP). No bidder can place more than one bid for division Jaipur, Jodhpur or both, as the case may be in any form (Alternate bids are not allowed) The bidder shall have the following Registrations and details of the same be provided in the technical bid: • GST Registration number (if applicable) • PAN Number CA certificate of turnover, profit & loss statement for last three completed financial years any of the consecutive 3 of the last 4 years	The bidder shall be a sole provider or a group of (Company /Partnership firm/Society /Trust/LLP/ Proprietorship) maximum 3 coming together as consortium to implement the project and shall be registered legal entity (Company /Partnership firm/Society / Trust/LLP). No bidder can place more than one bid for division Jaipur, Jodhpur or both, as the case may be, in any form (Alternate bids are not allowed) The bidder shall have the following Registrations and details of the same be provided in the technical bid, In case of consortium/JV all entities of the consortium shall submit the same: • GST Registration number (if applicable) • PAN Number CA certificate of turnover, profit & loss statement for last three completed financial years any of the consecutive 3 of the last 4 years
14.	**Page No. 16** **Point no. 2**	The bidder shall have at least 3 years of experience in medical laboratory services. In support of this, a Statement regarding assignment of similar nature completed or ongoing work/project during last three years should be submitted as per proforma in Annexure-C. The bidder should obtain user's certificate regarding satisfactory implementation of the assignment or completion of assignment (in case the assignment duration is completed) from all the Government/Non Government organizations.	The bidder or at least one consortium member shall be in the Business of providing operational services for labs at least three financial years in the Government Hospitals/Government Medical Colleges/Institute of Central or State Governments/ Private Sector in India. The bidder shall have 3 operational NABL accredited labs at time of bidding in this bid. In case of consortium the sum total of experience/lab of consortium will be calculated. For example: If in a consortium of three members, one member has an experience of 1 financial year or 1 lab and other members has approx of 2 years or 2 labs then the bidder consortium shall be countable for having 3 financial years experience or having 3 labs. In support of this, a Statement regarding assignment of similar nature completed or ongoing work/project during last three years shall be submitted as per Performa in Annexure-C. The bidder or at least one consortium member shall obtain user's certificate regarding satisfactory implementation of the assignment or completion of assignment (in case the assignment duration is completed) from Government/Non Government organizations. The authority may seek supporting evidence/proof of the document in this regard, which the bidder concerned shall have to submit within the time prescribed thereof. The decision of the authority as to whether the assignment is similar or not shall be final.
15.	**Page No. 16** **Point no. 3**	The bidders are not presently blacklisted/ debarred by the any State Authority or its organizations and by Government of India or its	The bidder and any consortium member must not be presently blacklist/ debarred by the any State Authority or its organizations and by Government of India or its organizations.

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		organizations.	
16.	**Page No. 16 Point no. 4**	The bidder should have an average annual turnover for Jaipur division of Rs. 75 Crores and for Jodhpur division of Rs. 50 crores for the any of the consecutive 3 of the last 4 years.	The bidder (Lead bidder and other consortium member combined in case of consortium) shall have an average annual turnover for Jaipur division of Rs. 75 Crores and for Jodhpur division of Rs. 50 crores including all consortium members of above during any 3 of the last 4 financial years. In case of consortium the turnover shall be calculated on basis of Arithmetic sum of turnover of all members of the consortium. In case of the bidder (Lead bidder and other consortium member) who applied for both division the annual turnover shall be at least 125 crore (including all consortium members as above) during any 3 of the last 4 financial years. In case of consortium the turnover shall be calculated on basis of Arithmetic sum of turnover all members of the consortium.
17.	**Eligibility criteria Point 5 Page. 16**	Bidder should be in the Business of supply and installation of lab equipment and consumables along with providing operational services for labs in the last three financial years in the Government Hospitals/Government Medical Colleges/Institute of Central or State Governments/ Private Sector in India out of which at least 3 in House Pathology labs should be NABL accredited with 50 percent proposed Test List.	Bidder in case of consortium, any one of the member of the consortium shall be in the Business of providing operational services for labs at least three financial years in the Government Hospitals/Government Medical Colleges/Institute of Central or State Governments/ Private Sector in India. The bidder shall have 3 operational NABL accredited labs at time of bidding for this bid. Lead bidder or any member of consortium shall have Valid SEI CMMI level 5 for (DEV) and services (SVC) and valid PCMM level 5 Certificates as on date of submission issued by authorized partner of CMMI institute
18.	**Page No. 16 Point no. 7**	In addition to the above the bidder should have the minimum experience of providing the Lab services on turnkey basis in five government/private hospitals.	Deleted
19.	**Eligibility criteria** **New Point 15. Joint Venture/Consortium** **Page No. 17**		A bidder may be Sole bidder Or a consortium of independent entities, subject to a maximum of 3 Consortium Members, such that: • The bidder shall be a sole provider or a group of (Company /Partnership firm / Society /Trust/LLP/ Proprietorship) maximum 3 coming together as consortium to implement the project and shall be registered legal entity (Company /Partnership firm/Society / Trust/LLP). • Partners of the consortium shall nominate one partner as the "lead partner". The nomination(s) shall be supported by a Power of Attorney (PoA), as per the format mentioned in Annexure Q-III, signed by all the partner(s) of the consortium. The lead partner, then shall nominate a representative ("Authorized signatory") on behalf of the consortium, through a Power of Attorney (PoA) as per the format mentioned in Annexure Q. The authorized representative shall sign the proposal, which would be legally binding on all the partner(s) of the consortium • The Non-lead Member of the Consortium

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			may be a registered Partnership Firm (under the Indian Partnership Act, 1932) or a registered Company (under Companies Act, 1956 or 2013) or an individual or a sole proprietorship or Trust/Society a limited liability partnership (LLP). A single bidder can't be an individual or sole proprietorship. • The bidder or a Consortium Member of a Service Provider shall not be allowed to be a member of any other Consortium or JV participating in this bid. • The bidder shall be legally competent to enter into a contract as per prevailing Indian Laws.
20.	**New Point No. 16. Consortium Terms & Conditions** **Page No. 17**		**i.** There can be a maximum of 3 (three) members in a Consortium. **ii.** Proposals submitted by a Consortium must provide a written agreement (Consortium Agreement) to be signed by each Consortium Members. One of the Consortium members, with higher equity holding in the Consortium at the time of bidding, shall be nominated as Lead Member and the same shall also be mentioned in the Consortium Agreement. The other members of the Consortium shall be nominated as the Non-Lead Members. **iii.** The Lead Member, holding maximum/major part of equity share in the Consortium at the time of submission of the Proposal, shall continue to be the lead member for the entire Project Period. **iv.** Members of the Consortium shall be liable jointly and severally for the execution of the Project in accordance with the terms of the Agreement signed between the authority and bidder and a statement to this effect shall be included in the Consortium Agreement mentioned under this section, as well as in the Proposal and in the Agreement. The Authority may require such documents / undertakings / indemnities as it may deem fit from Consortium members before or at the time of issuance of Letter of Award / Signing of Agreement. **v.** The representative of the Lead Member shall hold authorization in the form of Power of Attorney. The Proposal must designate one or more person(s) to represent the bidder in its dealings with the Authority. Unless specifically advised to the contrary, Authority will assume that the person(s) designated is authorized to perform all tasks, including, but not limited to, providing information, responding to inquiries and entering into contractual commitments on behalf of the

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			Company or the Consortium as the case maybe. Any and all limitations on the Authority of the designated person(s) shall be detailed in the Proposal. **3. Number of Bids and costs thereof** **i.** Each bidder / Consortium Member shall submit only 1 (One) Bid / Proposal. Violation of this shall lead to disqualification of the Service Provider. **ii.** All bidders are required to submit a detailed Proposal (the **"Proposal"** or **"Bid"**) in accordance with the guidelines set forth in this TENDER Document. The cost of preparation of Proposal and related expenses shall be borne by the Service Providers themselves. In case Award of Contract given to the favour of Consortium than the Partners of Consortium shall mandatorily form a Special Purpose Vehicle (SPV)/JV company under Companies Act 2013 to execute the Project. Agreement shall be signed by all members of consortium All supporting formats for consortium attached as Annexure Q1- QV
21.	**Page No. 17** **Point no. 9**	Bidder has to submit a copy of valid drug license for quoted items which are covered under Drugs & Cosmetics Act 1940, Rules amended up to date.	Deleted
22.	**Page No. 17** **Point no. 10**	In Technical bid, quoted items list (with make and model) with certificate of authenticity/quality (eg. European CE/USFDA etc.) as applicable must be submitted without mentioning the price along with certifications and specifications as required in tender document.	In Technical bid, quoted items list (with make and model) with certificate of authenticity/quality (eg. European CE/USFDA etc.) as mentioned in specification of particular equipment. MAF of equipment attached. Annexure 'R' If MAF is not submitted for all the equipments, than the bidder shall not be considered as eligible for technical evaluation as such and the bid of such bidders will be rejected without further evaluation.
23.	**Page no. 18** **Point 1.2**	Bids will be invited as a percentage contract based on the Central Government Health Scheme (CGHS) Delhi- NCR Circle, 2014 rates for Non NABL investigations published in the CGHS website along with base rates for specific parameters given in the financial bid. The service provider has to offer a uniform percentage discount on the base rates. Bids will be evaluated schedule wise. The selection will be on least cost basis. For the tests which are not mentioned in the CGHS list, the rates will be as per SMS hospital RMRS rate list. The discount percentage quoted by the service agency would be binding and applicable for current and extended contract period.	Bids will be invited as a percentage contract based on the Central Government Health Scheme (CGHS) Delhi- NCR Circle, 2014/2021 rates for Non NABL investigations published in the CGHS website along with base rates for specific parameters given in the financial bid. The service provider has to offer a uniform percentage discount on the base rates. Bids will be evaluated schedule wise. The selection will be on least cost basis. For the tests which are not mentioned in the CGHS list, the rates will be as per SMS hospital RMRS rate list. The discount percentage quoted by the service agency would be binding and applicable for current and extended contract period. After one year of commencement Annual escalation of 3 % in the rates (rounded off to next Rupee) shall be made applicable every year from the next year.
24.	**Specifications of the lab**		Amended **Specifications** Attached annexure 'T'

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<table>
<tr><td></td><td>Equipment Page 21-36</td><td></td><td></td></tr>
<tr><td>25.</td><td>Annexure-D Qualification of personel engaged for providing lab services Page 58</td><td></td><td>Amended Annexure D attached.</td></tr>
<tr><td>26.</td><td>Annexure- E Forwarding Letter for Technical Bid Page No. 58-59</td><td>
<table>
<tr><th>s.n</th><th>Document/Certificate Description</th></tr>
<tr><td>1</td><td>Name of FIRM</td></tr>
<tr><td>2</td><td>Certificate of Incorporation Articles & Memorandum of Association in-case of Companies/partnership deed & registration of partnership firm in-case of firms/any document proving Ownership of a proprietary firm</td></tr>
<tr><td>3</td><td>PAN card of the Company/firm/bidder</td></tr>
<tr><td>4</td><td>Certificate of Registration under GST</td></tr>
<tr><td>5</td><td>Certificate of registration with the Office of the Regional Provident Fund Commissioner</td></tr>
<tr><td>6</td><td>Certificate of registration with Employees “State Insurance Corporation”</td></tr>
<tr><td>7</td><td>Valid registration certificate/license with Labour Depart ment under Contract Labour (Regulation & Abolition) Act, 1970</td></tr>
<tr><td>8</td><td>Audited Accounts Statement for any of the consecutive 3 of the last 4 years</td></tr>
<tr><td>9</td><td>Copy of Income Tax Return for any of the consecutive 3 of the last 4 years</td></tr>
<tr><td>10</td><td>Annual Report, Balance Sheet, Profit and Loss statement for any of the consecutive 3 of the last 4 years</td></tr>
<tr><td>11</td><td>The document such as work orders, performance reports, Agreement from the user institutions that the Bidder has relevant experience</td></tr>
<tr><td>12</td><td>Tender fee in Rs..... shape of DD or banker’s Cheque.</td></tr>
<tr><td>13</td><td>RISL fees in Rs..... shape of DD</td></tr>
</table>
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<tr><td>14</td><td>“Annexure H” Bid security declaration form</td></tr>
<tr><td>15</td><td>Authorization letter as per Performa given in annexure B.</td></tr>
<tr><td>16</td><td>“Annexure J” Compliance with the Code of Integrity and No Conflict of Interest</td></tr>
<tr><td>17</td><td>“Annexure K” Declaration by the Bidder regarding Qualification</td></tr>
<tr><td>18</td><td>“Annexure L” Grievance Redressed during</td></tr>
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		or banker's Cheque.	**Procurement Process**
		14 "Annexure H" Bid security declaration form	**19 Bidder in case of consortium, any one of the member of the consortium 3 operational NABL accredited labs.**
		15 Authorization letter as per Performa given in appendix B.	**20 Deleted**
		16 "Annexure J" Compliance with the Code of Integrity and No Conflict of Interest	**21 Deleted**
		17 "Annexure K" Declaration by the Bidder regarding Qualification	**22 Lead bidder or Any member of consortium shall have valid ISO 9001:1025, Valid SEI CMMI level 5 for (DEV) and services (SVC) and valid PCMM level 5 Certificates as on date of submission issued by authorized partner of CMMI Institute. Attached on Page No.**
		18 "Annexure L" Grievance Redressed during Procurement Process	**23 Manufacturer Authorization Form-Annexure R Attached on Page No.**
		19 3 in house pathology lab should be NABL accridiated with 50% proposed test list	
		20 Experience of providing the lab services on turnkey basis in 5 govt/ private hospital	
		21 A copy of valid drug license for quoted items which are covered under Drugs & Cosmetics Act 1940, Rules amended upto date.	
27.	**Annexure-F Equipment Requirement at each level of Care Page No. 60**		**Annexure-F Attached**
28.	**Annexure-G Financial Bid Page no. 65**		Updated on 25.05.2021

S.N.	Particulars	Base Rate (INR)	
	Proposed test List	CGHS-Non NABL Rates Delhi 2014	SMS Hospital RMRS Rate
14	D Dimer (Qualititative)		250
86	IGM Hepatitis A		350
87	IGM Hepatitis E		350
105	TOTAL IGE	150	
109	AMH	300	
110	ANA	230	
131	BLOOD CULTURE	700	

S.N.	Particulars	Base Rate (INR)	
	Proposed test List	CGHS-Non NABL Rates Delhi 2014/2021	SMS Hospital RMRS Rate
14	D Dimer (Quantitative)		582
86	IGM Hepatitis A	637	
87	IGM Hepatitis E	850	
105	TOTAL IGE	300	
109	AMH		1000
110	ANA	200	
131	BLOOD CULTURE		600
139	KOH Mount for Fungal Test		20

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		<table><tr><td>139</td><td>KOH Mount for Fungal Test</td><td>60</td><td></td></tr></table> Successful bidder must get all 33 Mother lab (all test) NABL accreditation within 2 year of agreement. Till Mother lab not get NABL accreditation, payment will be made as per non NABL rates deducting discount offered by bidder . As soon as mother lab fully accredited (all test) as NABL , the payment will be made as per NABL rates schedule (CGHS 2014) deducting discount offered by successful bidder .	Till the test or the labs are without NABL accreditation, the payment will be made as per the approve rate of the tender. Upon NABL accreditation of test/labs the rates shall be increased by 5% for the respective test/labs as incentive. . After one year of commencement Annual escalation of 3 % in the rates (rounded off to next Rupee) shall be made applicable every year from the next year.
29.	**Page No. 85 Point no. 3**	All mother laboratories should have MD/DNB/Diploma (post MBBS) pathologists and biochemists and microbiologists appointed by the hospital authorities who shall supervise and monitor the activities of the service provider in lab operations. In any condition unavailability of Specialist doctors, firm should provide the same. In the event of non availability of MD /DNB/Diploma (Post MBBS) the hub laboratories may be handled by a PhD or M.Sc. Biochemistry/ Microbiology/ other lab field	All mother laboratories shall have MD/DNB/Diploma (post MBBS) pathologists and biochemists and microbiologists appointed by the authorities who shall signature, supervise and monitor the activities of the bidder in lab operations. In any condition unavailability of Specialist doctors, firm shall provide as per NABL guidelines after given undertaking in writing. Hub laboratories shall be managed by the authority. The diagnosticians in the mother laboratories shall remotely carry out validation of results of all tests of `all hub laboratories of that district. The advanced tests conducted at mother laboratory however shall be physically verified by these diagnosticians for reporting.
30.	**Page no. 87 Point no. 6 Quality assurance**	**Quality assurance** All laboratories should be certified under ISO 9001 within 1 year of rollout. Effective quality control – IQC and Proficiency testing (EQAS/inter-laboratory comparison programme) should be established-	**Quality assurance** Effective quality control – IQC and Proficiency testing (EQAS/inter-laboratory comparison programme) shall be established-
31.	**Insertion of Escalation Clause Page No. 96**		**Escalation** After one year of commencement Annual escalation of 3 % in the rates (rounded off to next Rupee) shall be made applicable every year from the next year.
32.	**2. Quality Assurance Point No. 6 Page No. 97**	NABL Accreditation: 100% of all mother laboratories should be accredited under NABL for all the Tests within 2 years of signing the Contract.	Till the test or the labs are without NABL accreditation, the payment will be made as per the approve rate of the tender. Upon NABL accreditation of test/labs the rates shall be increased by 5% for the respective test/labs as incentive. Annual escalation of 3 % in the rates (round off to next Rupee) shall be made applicable from the date of commencement of work automatically on prevailing rates, starting from the next year of the commencement.

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33.	**Service Level Agreement** **Details of the parties** **Page No. 106**	M/s < insert name of the selected bidder> represented by its < name and designation>, a company incorporated under the provisions of the Companies Act, 1956, (No. 1 of 1956)	M/s < insert name of the selected Service Provider> represented by its < name and designation>, a company incorporated under the provisions of..... <type of legal entity).

विशिष्ट शासन सचिव
चि0 एवं स्वा0 विभाग
एवं एमडी (एन.एच.एम).)

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Annexure D: Qualifications and Human resource to be provided by Service Provider

S. No.	Human resource	Qualifications	Remuneration	No. of Personnel to be deployed by Service provider at Jaipur Division	No. of Personnel to be deployed by Service provider at Jodhpur Division	Remarks
(1)	Pathologist, Microbiologist, Bio chemist	As per NABL guidelines	75000/- pm (maximum)	Pathologist - 1 Microbiologist – 3 Biochemist -6	Pathologist - 0 Microbiologist – 5 Biochemist -7	For Mother lab
(2)	Lab Technicians	10+2 (Biology) + DMLT + registered in PARA Medical council of any state	As per Labour department GoR notification dated 30.07.21, Rs. 326 per day and Rs. 8476 full month	Present gap at Mother, Hub and Spoke lab :- 413 For running 24x7 Mother lab :- 17x3= 51 For running 24x7 Hub lab :- 64x2= 128 Total = 413 +51+128= 592 **Total 592 lab technician to be deployed by service provider**	Present gap at Mother, Hub and Spoke lab :- 788 For running 24x7 Mother lab :- 16x3= 48 For running 24x7 Hub lab :- 53x2= 106 Total = 788 +48+106=942 **Total 942 lab technician to be deployed by service provider**	For Mother , Hub and spoke lab
(3)	Computer Operator	Graduation with RSCIT certificate	As per Labour department GoR notification dated 30.07.21, Rs. 326 per day and Rs. 8476 full month.	For Mother lab :– 17x2= 34 For Hub lab :– 64x1= 64 Total = 98	For Mother lab :– 16x2= 32 For Hub lab :– 53x1= 53 Total = 85	For Mother & Hub lab

1. **It is understood that department will already have required manpower, however in cases where requisite manpower is not available the service provider will be required to fill the gap. Indicative qualification & remuneration of the manpower is given in the table above, wherever service provider is required to provide the manpower.**
2. **If any Mother/Hub/Spoke laboratory permanent staff available from recruitment or transfer after gap filling by service provider then total number of staff which were provided by the service provider remuneration will be deduct as proposed from monthly bill or any staff vacant from any Mother /Hub/Spoke lab and gap filled by service provider than total staff provided by the service provider remuneration will be added as proposed in monthly bill.**
3. **We confirm that the manpower with the required qualifications/ experience as indicated above will be provided under the Contract.**
4. **Service provider should be made a locum of man power for uninterrupted services.**

Signature and Stamp of the Service Provider

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Annexure F

List of available & requirement of Equipment at Mother & Hub labs of Jodhpur Divison

Primary list of the key equipment required at each level are given below. The Successful Bidder/ Concessionaire shall be required to develop the following at the "Project Site" and hereinafter be called as "the Project":-

S. No.	Name of Equipment	Presently Available equipment at 16 mother labs	To be Provided at 16 Mother lab by service provider	Presently Available equipment at 53 Hub labs	To be Provided at 53 Hub lab by service provider
1.	DIGITAL HAEMOGLOBINOMETER	0	16	12	41
2.	GLUCOMETER	0	16	0	53
3.	3 PART HEMATOLOGY ANALYZER	25	0	54	0
4.	ESR ANALYZER	8	8	1	52
5.	SEMI AUTO BIOCHEMISTRY ANALYZER	30	0	61	0
6.	URINE ANALYZER	9	7	3	50
7.	COAGULATION ANALYZER	6	10	2	51
8.	FIVE PART HEMATOLOGY ANALYZER	15	1	4	49
9.	IMMUNOASSAY ANALYZER	0	16	0	0
10.	FULLY AUTO BIOCHEMISTRY ANALYZER WITH ELECTROLYTE	11	5	0	53
11.	AUTOMATED BLOOD GAS ANALYZER	3	13	0	0
12.	ELISA READER & WASHER	20	0	0	0
13.	AUTOMATED BLOOD CULTURE	1	15	0	0
14.	ROTARY MICROTOME	2	14	0	0
15.	AUTOMATED TISSUE PROCESSOR	1	15	0	0
16.	BINOCULAR MICROSCOPE WITH LED ILLUMINATION	121	0	141	0

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Annexure F

List of available & requirement of Equipment at Mother & Hub labs of Jaipur Division

Primary list of the key equipment required at each level are given below. The Successful Bidder/ Concessionaire shall be required to develop the following at the "Project Site" and hereinafter be called as "the Project":-

S. No.	Name of Equipment	Presently Available equipment at 17 mother labs	To be Provided at 17 Mother lab by service provider	Presently Available equipment at 64 Hub labs	To be Provided at 64 Hub labs by service provider
1.	DIGITAL HAEMOGLOBINOMETER	0	17	17	47
2.	GLUCOMETER	0	17	0	64
3.	3 PART HEMATOLOGY ANALYZER	24	0	70	0
4.	ESR ANALYZER	5	12	1	63
5.	SEMI AUTO BIOCHEMISTRY ANALYZER	33	0	76	0
6.	URINE ANALYZER	14	3	9	54
7.	COAGULATION ANALYZER	12	5	3	61
8.	FIVE PART HEMATOLOGY ANALYZER	13	4	7	57
9.	IMMUNOASSAY ANALYZER	0	17	0	0
10.	FULLY AUTO BIOCHEMISTRY ANALYZER WITH ELECTROLYTE	13	4	6	58
11.	AUTOMATED BLOOD GAS ANALYZER	0	17	0	0
12.	ELISA READER & WASHER	15	2	0	0
13.	AUTOMATED BLOOD CULTURE	0	17	0	0
14.	ROTARY MICROTOME	0	17	0	0
15.	AUTOMATED TISSUE PROCESSOR	0	17	0	0
16.	BINOCULAR MICROSCOPE WITH LED ILLUMINATION	111	0	196	0

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Other mandatory equipment

S.No	Name of equipment	Quantity Required
1	Centrifuge machine	As per Requirement
2	Needle destroyer	As per Requirement
3	Vacutainer Rack	As per Requirement
4	Waste dustbin marked with bio hazard logo on top	As per Requirement
5	Sample collection material	As per Requirement
6	Lab Information System (L.I.S.), Bar Code, SMS Alert and On-Off line Reporting	Mandatory for all Mother/Hub/Spoke Lab
7	Tabletop Centrifuge-16	As per Requirement
8	Lab Refrigerator- 300 Lts.	As per Requirement
9	Dry bath Incubator-12 tube	As per Requirement
10	Blood Mixer	As per Requirement
11	Air Conditioner	As per Requirement
12	Online UPS /Sinewave	As per Requirement
13	Computers	As per Requirement
14	Printer, fax, copier, scanner	As per Requirement
15	Refrigerator	As per Requirement
16	Water dispenser	As per Requirement
17	Sample Transportation Material	As per Requirement

Note: Any other allied equipment/accessory as may be required for performing the tests at the given centers should be provided by the service provider.

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Annexure Q-I

General Information of the Bidder

(To be printed on Bidders Letter Head and signed by the Bidder's authorized signatory)

1. **Details of Bidder**
   a. **Name:**
   b. **Legal Status:**
   c. **Country of incorporation:**
   d. **Address of the corporate headquarters (if any) in India:**
   e. **Year of Incorporation:**

2. **Details of individual(s) who will serve as the point of contact / communication for the Authority within the Company:**
   a. **Name:**
   b. **Designation:**
   c. **Company:**
   d. **Address:**
   e. **Telephone Number and Fax Number:**
   f. **E-Mail Address:**

3. **In case of Consortium:**
   a. **Information above (1 & 2) should be provided for all the members of the Consortium.**
   b. **Information regarding role of each member should be provided:**

Sr. No.	Name of Member	Equity Stake	Role*

*** Specify whether Lead Member / Ordinary Member**

4. **Details of Associates, whose credentials are counted as part of Minimum Eligibility Criteria:**

Signed by:

(Name of the Authorized Signatory)

For and on behalf of
(Name of the Bidder)
Designation
Place:
Date:

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Annexure Q-II

Affidavit

(To be executed on a Stamp Paper of INR 100; to be notarized)

(To be given separately by each Consortium member in case the Bidder is a Consortium)

I,……., s/o……., resident of……., the…… (insert designation) of the (insert name of the Bidder), do solemnly affirm and state as follows:

1. **That I am the authorized signatory of (insert name of Company/ Consortium) (hereinafter referred to as "Bidder / Consortium Member") and I am duly authorized by the bidder organization / Consortium to swear and depose this Affidavit on behalf of the bidder organization / Consortium.**
2. **That I have submitted information with respect to our eligibility for the Tender for Laboratory Services under Free Diagnostic Initiative on Hub & Spoke Model under NHM (hereinafter referred to as "Project") and I further state that all the said information submitted by us is accurate, true and correct and is based on our records available with us.**
3. **That, we hereby also authorize and request any bank, authority, person or firm to furnish any information, which may be requested by the Authority to verify our credentials / information provided by us under this tender and as may be deemed necessary by the Authority.**
4. **That if any point of time including the Project Period, in case of the Authority, requests any further / additional information regarding our Financial and / or Technical capabilities, or any other relevant information, we shall promptly and immediately make available such information accurately and correctly to the satisfaction of the Authority.**
5. **That, we fully acknowledge and understand that furnishing of any false or misleading information by us in our TENDER shall entitle us to be disqualified from the tendering process for the said Project. The costs and risks for such disqualification shall be entirely borne by us.**
6. **That all the terms and conditions of the Tender Document have been duly complied with.**

DEPONENT

(Name, Designation and Address)

VERIFICATION:

I, the above-named deponent, do verify that the contents of paragraphs 1 to 6 of this affidavit are true and correct to my knowledge. No part of it is false and nothing material has been concealed.

Verified at _____, on this _____ day of _____, 2021.

DEPONENT
(Name, Designation and Address)

राजस्थान–सरकार
चिकित्सा एवं स्वास्थ्य विभाग,
स्वास्थ्य भवन, तिलक मार्ग, सी–स्कीम, जयपुर
दूरभाष सं0 : 0141–2224878 ई–मेल: no-mnjy-rj@gov.in
क्रमांक: एफ04()एमएनजेवाई/ हब एवं स्पोक मॉडल /2021–22/ दिनांक :

Annexure Q-III

Power of Attorney by Each Member of the Consortium in favour of Lead Member
(To be executed on a Stamp Paper of INR 100; To be Notarized)
(To be given separately by each Consortium member, in case the Bidder is a Consortium)

Dated ---------

POWER OF ATTORNEY
TO WHOMSOEVER IT MAY CONCERN

WHEREAS we have decided to participate in the bidding process for "**Laboratory Services under Free Diagnostic Initiative on Hub & Spoke Model under NHM** (the **"Project")** as member of ----------[name of the Consortium] independently, we, ----------[name of authorising company/agency], a ---------- incorporated under the laws of ----------, the registered address of which is ----------, do hereby irrevocably designate, nominate, constitute, appoint and authority M/s..... having its registered office at ....., being of the members of the Consortium, to lawfully represent and act on our behalf as the Lead Member of the Consortium to sign any qualification statement, Proposal, conduct negotiations, sign contracts, incur liabilities and receive instructions for us and on our behalf and execute all other necessary matters in connection with the Project.

We hereby confirm that we are jointly and severally liable, together with other members of the Consortium, to **Laboratory Services under Free Diagnostic Initiative on Hub & Spoke Model under NHM** (the **"Authority")** for all of the obligations of the Consortium in respect of our qualification statement, technical and financial Proposal for the Project, in accordance with the TENDER document for the Project issued on ------ and as amended prior to date hereof.

We hereby ratify and confirm that all acts done by our said attorney ------ (name of lead member) shall be binding on us as if the same has been done by us personally.

We hereby also ratify and confirm that if we are selected as the Selected / Successful Bidder, then the Lead Member of the Consortium shall sign the Service Level Agreement and all the Consortium members shall be jointly and severally liable towards the Project, throughout the Project Period.

IN WITNESS WHEREOF, we have hereunto set our respective hands this _____day of _____2021 in the presence of the following witnesses:

Witness 1
Signature_____
Name _____
Address_____

Witness 2
Signature _____
Name _____
Address_____

By _____ [the Authorising Company]
Signature _____ [Signature of Authorised signing officer]
Name _____ [Name of Authorised signing officer]
Title _____ [Title of Authorised signing officer]

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Annexure Q -IV

Draft Consortium Agreement

(To Be Made on Stamp Paper of Requisite Value and Notarized)

This Consortium Agreement (the "AGREEMENT") made at _____ on this __ day of _____, (Year)

BY AND BETWEEN

M/s _____ {*Lead Member (*Consortium *Member 1)*}, a_____ incorporated under _____ *(name of the relevant act/law of under which registered in the Country of Registration)* and having its registered office / a company incorporated under the Laws of _____ (hereinafter referred to as "_____", which expression shall unless repugnant to the context or meaning thereof be deemed to mean and include its successors in interest, subsidiaries and assigns) of the **ONE PART**;

AND

M/s _____ (Consortium *Member 2/3*), a _____ incorporated under the _____ and having its registered office / incorporated under the Laws of _____ (hereinafter referred to as "_____", which expression shall unless repugnant to the context or meaning thereof be deemed to mean and include its successors in interest, subsidiaries and assigns) of the SECOND PART;

(_____ and _____ shall be individually referred to as the "Party" and jointly referred to as the "Parties" or "Consortium Members").

WHEREAS:

A. , Department of Health and Family Welfare, Government of Rajasthan (hereinafter referred to as the "**Authority**"), invited Bids/ Proposals for the work of **'Laboratory Services under Free Diagnostic Initiative on Hub & Spoke Model under NHM** (hereinafter referred to as the "Project").

B. M/s _____and M/s. _____ have agreed to consolidate their resources and experience, and apply jointly as a Consortium (hereinafter referred to as the "Consortium"), vide this Consortium Agreement, for the purpose of developing and completing the Project, within time frame stipulated in the Request for Proposal Document (hereinafter referred to as the "TENDER document").

C. M/s _____and M/s. _____ have therefore agreed to enter into this Consortium Agreement in respect of the submission of the Bid/ Proposal for the Project on the terms set out below.

NOW IT IS HEREBY AGREED as follows:

1. Definitions and Interpretations In this Agreement, the capitalised terms shall, unless the context otherwise requires, have the meaning ascribed thereto under the TENDER.

2. Consortium

a. The Parties do hereby irrevocably constitute a consortium (the "Consortium") for the purposes of jointly participating in the Bidding Process for the Project.

b. The Parties hereby undertake to participate in the Bidding Process only through this Consortium and not individually and/ or through any other consortium constituted for this Project, either directly or indirectly or through any of their Associates.

3. Covenants

The Parties hereby undertake that in the event the Consortium is declared the selected Bidder and awarded the Project, it shall incorporate a special purpose vehicle (the "SPV") under the Indian Companies Act, 2013 for entering into a Service Level Agreement with the Authority and for performing all its obligations as the Service Provider in terms of the Service Level Agreement for the Project.

4. Role of the Parties

The Parties hereby undertake to perform the roles and responsibilities as described below:

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a. Party of the First Part shall be the Lead member of the Consortium and shall have the Power of Attorney from all Parties for conducting all business for and on behalf of the Consortium during the Bidding Process and until the Appointed Date under the Service Level Agreement when all the obligations of the SPV shall become effective;

b. The role of role and the responsibility of each Party for the **"Project"** shall be as follows:

Name of Member	Type of Member	Shareholding	Role & Responsibility

5. Joint and Several Liability

The Parties do hereby undertake to be jointly and severally responsible for all obligations and liabilities relating to the Project and in accordance with the terms of the TENDER and the Service Level Agreement, till the entire period of the Project is achieved under and in accordance with the Service Level Agreement.

6. Representation of the Parties

Each Party represents to the other Parties as of the date of this Agreement that:

a. Such Party is duly organised, validly existing and in good standing under the laws of its incorporation and has all requisite power and authority to enter into this Agreement;

b. The execution, delivery and performance by such Party of this Agreement has been authorised by all necessary and appropriate corporate or governmental action and a copy of the extract of the charter documents and board resolution/ power of attorney in favour of the person executing this Agreement for the delegation of power and authority to execute this Agreement on behalf of the Consortium Member is annexed to this Agreement, and will not, to the best of its knowledge:

i. require any consent or approval not already obtained;

ii. violate any Applicable Law presently in effect and having applicability to it;

iii. violate the memorandum and articles of association, by-laws or other applicable organizational documents thereof;

iv. violate any clearance, permit, concession, grant, license or other governmental authorization, approval, judgement, order or decree or any mortgage agreement, indenture or any other instrument to which such Party is a party or by which such Party or any of its properties or assets are bound or that is otherwise applicable to such Party; or

v. create or impose any liens, mortgages, pledges, claims, security interests, charges or encumbrances or obligations to create a lien, charge, pledge, security interest, encumbrances or mortgage in or on the property of such Party, except for encumbrances that would not, individually or in the aggregate, have a material adverse effect on the financial condition or prospects or business of such Party so as to prevent such Party from fulfilling its obligations under this Agreement

c. this Agreement is the legal and binding obligation of such Party, enforceable in accordance with its terms against it; and

d. there is no litigation pending or, to the best of such Party's knowledge, threatened to which it or any of its Associates is a party that presently affects, or which would have a material adverse effect on the financial condition or prospects or business of such Party in the fulfilment of its obligations under this Agreement.

7. Termination

This Agreement shall be effective from the date hereof and shall continue in full force and effect until the Financial Close of the Project is achieved under and in accordance with the Service Level Agreement, in case the Project is awarded to the Consortium. However, in case the Consortium is either not prequalified for the Project or does not get selected for award of the Project, the Agreement will stand terminated in case the Applicant is not qualified or upon return of the Bid / Proposal Security by the Authority to the Bidder, as the case may be.

8. Miscellaneous

a. This Joint Bidding Agreement shall be governed by the laws of India.

b. Confidentiality – All information, document, etc. exchanged between the Parties related to this agreement or the preparation of any Bid or the performance of the Project shall remain confidential and shall not be revealed to third parties for a certain time period to be agreed upon. Unless otherwise required by law, the Parties undertake not to disclose to any third party or any else and / or use any Information, without prior consent of the other Party.

c. Term and Duration – This Agreement shall come into effect on the date of submission of the Bid/Proposal for the Project. This Agreement shall terminate upon the successful completion of

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the Project and may be extended further for such period as may be required by the Authority. This Agreement can be terminated only upon Consortium's Bid for the Project is conclusively rejected by the Authority.

d. Costs/Expenses – All out-of-pocket expenses/costs of and incidental to this Agreement including stamp duty and registration fees, if any shall be borne and paid by the Parties. Each Party shall pay and bear their own advocated/solicitors fees in the preparation of this Agreement.

e. Governing Law – This Agreement shall in all respect be governed, construed and interpreted in accordance with laws of Republic of India.

f. In the event of a dispute between the Parties over the subject of this Agreement, the prevailing party shall be entitled to reasonable advocates/solicitors' fees and costs incurred in the resolution of such dispute.

g. The Parties acknowledge and accept that this Agreement shall not be amended by the Parties without the prior written consent of the Authority.

h. Amendments – This Agreement can be amended or suppressed by further agreement made in writing at the request of any of the Parties after unanimous approval by the Parties and by obtaining prior consent and written approval from the Authority.

i. Notices – Any notices, requests, demands or any communications from any party to the other party under this Agreement shall be by Regd. / Speed mail or facsimile transmission sent to the addresses as indicated in this Agreement. Any party may change its address but shall promptly inform the Authority and the other Parties/ Consortium Members of any such change.

j. Assignment – None of the Parties to this Agreement shall have the right to assign its benefits or liabilities under this Agreement to any other company, firm or person without obtaining prior consent and written approval of the Authority.

k. Entire Agreement – This Agreement constitutes the entire agreement between the Parties and supersedes all prior writings, agreements or understandings relating to the subject matter thereof.

IN WITNESS WHEREOF the Parties hereto have caused this Agreement to be executed by their duly authorized representatives the day and year first above written.

SIGNED AND DELIVERED BY _____
By: _____
Title: _____
Date: _____

SIGNED AND DELIVERED BY _____
By: _____
Title: _____
Date: _____

Witness:
1. _____
2. _____

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स्वास्थ्य भवन, तिलक मार्ग, सी–स्कीम, जयपुर
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Annexure Q-V

Statement of Legal Capacity
(To be submitted on the letterhead of the Bidder / Each member of Consortium separately)

Ref.
Date:

To,
MD,
NHM
Jaipur, Rajasthan

Dear Sir,

We hereby confirm that we/ our members in the Consortium (constitution of which has been described in the Proposal) satisfy the terms and conditions laid out in the TENDER document.

We have agreed that ..... (insert member's name) will act as the Lead Member of our Consortium.

We have agreed that ..... (Insert individual's name) will act as our representative/ will act as the representative of the Consortium on its behalf and has been duly authorized to submit the Bid Document.

Further, the authorized signatory is vested with requisite powers to furnish such letter and authenticate the same.

Thanking you,

Yours faithfully,
(Signature, name and designation of the authorised signatory)
For and on behalf of.....

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Annexure R

MANUFACTURER'S AUTHORISATION FORM

(To be submitted by authorized dealers/representatives/importers)

No.: .....
Dated: .....

To

MD (NHM)
Swasthya Bhawan, NHM Block, Tilak Marg, C-Scheme,
Jaipur, Rajasthan - 302005

Dear Sir,

Tender No:

1. **We ..... (name of the OEM) are the original manufacturers of the above equipment/Items having registered office at ..... (full address with telephone number/fax number & email ID and website), having factories at and, do, hereby authorize M/s. ..... (Name and address of bidder) to submit tenders, and subsequently negotiate and sign the contract with you against the above tender No. .....**

2. **No company or firm or individual other than M/s.....are authorized to bid, negotiate and conclude the contract in regard to this business against this specific tender.**

3. **We also hereby undertake to provide full guarantee/warrantee /Comprehensive Annual Maintenance Contract as agreed by the bidder in the event the bidder is changed as the dealers or the bidder fails to provide satisfactory after sales and service during such period of Comprehensive Warranty / Comprehensive Annual Maintenance Contract and to supply all the spares/ accessories / consumables etc. during the said period.**

4. **We also hereby declare that we have the capacity to manufacture and supply, install and commission the quantity of the equipments tendered within the stipulated time.**

(Name)
For and on behalf of .....

Date:

Place:

Note:

1. *This letter of authority should be on the letterhead of the manufacturing concern and should be signed by the competent person on behalf of the manufacturer.*

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Annexure S

PROCESS OF SELECTION

- **Selection of the bidder will be finalized through competitive process among the prima facie prequalified bidders. (Submitted all relevant documents as per "Annexure –E")**
- **Financial proposals submitted by the bidders shall be opened only after completion of the technical evaluation i.e. the bidder should qualify 70% marks in technical evaluation criteria. The financial proposal of only those bidders shall be opened who achieve at least 70% marks in the technical evaluation criteria enumerated below:**

SNo	CRITERIA	MARKS
General Criteria		
1	The bidder shall have at least 3 years of experience in medical laboratory services.	a. 3 years = 3 marks b. > 03 – 05 years = 5 marks c. > 05 = 10 marks
2	The The bidder shall have 3 operational NABL accredited labs.	a. 3 in house NABL accredited labs = 3 marks b. > 03 – 05 in house NABL accredited labs = 5 marks c. > 05 in house NABL accredited labs = 10 marks
3	Annual Turnover (in Rupees) 75 crore for Jaipur division during any of the consecutive 3 of the last 4 financial years. **Or** Annual Turnover (in Rupees) 50 crore for Jodhpur division during any of the consecutive 3 of the last 4 financial years.	a. 75 crore = 3 marks b. >75 crore -100 crore= 5 marks c. >100 crore = 10 marks **Or** a. 50 crore = 3 marks b. > 50 crore - 75 crore = 5 marks c. >75 crore = 10 marks
	Project Presentation	20 Marks

The final selection of the bidder (L1) will be based on the highest discount rate in the financial bid.

The bidder who achieved less than 70% marks on the basis of technical evaluation of their bids shall be considered as technically ineligible and their financial bid shall not be opened.

Note :

* **Project presentation** maximum marks 20. The project presentation shall be of 15-20 minutes by the bidder shall at least cover following points:

1. Approach and methodology
2. Project management plan
3. IT system (LIS software)
4. about work experience

Other points which the bidder feels essential for the betterment of implementation of the project and the bidder's preparedness to do so.

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Annexure T

Specification of the lab Equipment

	Existing provision/conditions	Amended/Clarified/Added/Provision/Condition
Page no. 21	**GLUCOMETER For Mother Lab , Hub Lab and Spokes**	**GLUCOMETER For Mother Lab & Hub Lab**
	1.Technical Specifications SHOULD BE A (1) BATTERY OPERATED, (2) HAND-HELD AND A (3) PORTABLE UNIT IDEAL FOR MASS SCREENING AS WELL AS IN CLINICAL SETTING.	1 It should be a hand held meter.
	2. THE INSTRUMENT SHOULD USE BLOOD SAMPLES FROM A FINGER PRICK, FORE ARM OR VENTRAL PALM.	2 Should be based on glucose oxidase enzymatic method/ glucose hexokinege dehydrogenase method.
	Technical Characteristics 1. QUANTITATIVE MEASUREMENT SHOULD BE BASED ON ELECTRICAL CONDUCTIVITY. 2. SHOULD BE ABLE TO MEASURE AMR RANGING BETWEEN 20 AND 600mg/dL.	3 Should be able to use fresh capillary whole blood. 4 All strips should have at least one year expiry from the date of supply.
	3. SAMPLE REQUIREMENT SHOULD NOT BE MORE THAN 10 µL.	5 Strips should be packed individually/ in a air tight bottle pack.
	4. MEASURMENT TIME SHOULD NOT BE MORE THAN A MINUTE FACILITATING THE INSTRUMENT IDEAL FOR MASS SCREENING PROGRAMMES. 5. THE INSTRUMENT SHOULD BE CODE FREE TO FACILITATE MASS SCREENINGS.	6 Auto disposable lancet should be provided free of cost with each strip.
	User Interface 6. THE INSTRUMENT MUST HAVE SPEACIAL MARKS TO DISCREMINATE FASTING SAMPLE, PP SAMPLE AND SAMPLE AFTER TAKING MEDICINE. **Physical Characteristics** 7. THE WEIGHT OF THE INSTRUMENT SHOULD BE LESS THAN 100gm INCLUDING BATTERIES FOR EASY HANDLING AND PORTABILITY. 8. THE DIMENSION OF THE UNIT SHOULD NOT EXCEED 75mm x 60mm x 20 mm (L x B x H) **Energy Source** 9. THE INSTRUMENT MUST BE BATTERY OPERATED WITH AUTOMATIC TURN-OFF FEATURE TO SAVE POWER. **Certifications** 10. THE DEVICE SHOULD CARRY BOTH CE 0120 AND US-FDA ALONG WITH A COMPLIANCE CERTIFICATE FROM SAFETY REGULATIONS OF THE COUNTRY OF ORIGIN. **Service support** 11. Contact details of manufacturer, supplier and local service agent to be provided.	7 It should be based on electrochemical (Gold electrodes/ Biosensor principle). 8 It should give fast and accurate result within 5-8 second (blood application with test strip within the meter) 9 No coding system (Automatic calibration) 10 It should have under dosing detection system when less blood applied on the test strip. 11 Sample size should be 1-2 ul. 12 It should have measuring range between 20-500 or more mg/dl of blood sugar. 13 It should work in the temperature range +5° C to 45° and up to 85% humidity.

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		14 It should have up to 50 or more test memory with date & time. 15 Guarantee shall be 1 year of Glucometer. 16 License of manufacturing from Drug authority/import license from drug authority, renewal/ retention copy and product approval/ permission copy, related documents should be submitted. 17 It should have valid USFDA/European CE (notified body) with IVD approval/ ISO 15197 :2013 certified, elated documents should be submitted . **18 Demonstration is must.**
Page no 24	**Semi Auto Analyzer For Mother Lab , Hub Lab and Spokes**	**Semi Auto Analyzer For Mother Lab and Hub Lab**
	1. Should be Semi Auto analyzer required for Routine & Special Chemistries 2. Should have following measurement options a. End point with sample blank & with or without Reagent Blank b. Kinetic with Linearity Check & sample Blank c. Two point with or without Reagent Blank d. Bichromatic End point, with or without Reagent Blank e. End Point, Kinetic & Two point kinetic with multiple standard mode. 3. Analyzer must be fully open system, having as many as 75 Programmable tests displaying on screen. 4. Should have automatic Zero Setting and reagent blank storage facility. 5. Should accept zero value as one of the calibrator in all calibration curves. 6. Should have facility to measure three replicates of one sample and calculate Mean, CV &SD of the same. 7. Photometric range should be from -0.100 to 2.300 Abs with resolution of 0.001 Abs. 8. Should have facility to enter patient I.D. and Name both simultaneously. 9. Should have 12-posuition filter wheel with min Seven Standard IFL filters of 340,405,505,546,578, 620 & 660 nm wavelength and Additional Five Free Position for Optional Filters. 10. Minimum reagent consumption should be 250 µl with aspiration volume programmable from 250 to 1500 µL in steps of 50 µL. 11. Should have memory back up of minimum 100 patient test results. 12. Should have metal flow cell with Quartz windows with Volume not exceeding 32µL. 13. Should have following calibration modes	1. Analyzer must be fully open system, having as many as 75 Programmable tests displaying on screen. 2. Should have automatic Zero Setting and reagent blank storage facility. 3. Should have facility to measure three replicates of one sample and calculate Mean, CV &SD of the same. 4. Should have facility to enter patient I.D. and Name both simultaneously. 5. Should have memory back up of ≥100 patient test results. 6. Should accept zero value as one of the calibrator in all calibration curves. 7. Should have Flow cell temperature of 37° C controlled by means of Peltier Element. 8. Kinetic graph should be available on the screen and also on printouts 9. Should have inbuilt printer & facility to attach external Printer 10. All Test Results must be available on screen 11. Instrument must have European CE and USFDA certification. 12. Should have bi directional port. 13. Port for External Keyboard is must apart from inbuilt keyboard. 14. Real Time Clock 24 Hour System . 15. High Contrast Big Graphical LCD/LED display 16. Analyzer must have following assay Types.

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	a. Factor, One Point, Two point & Multi Point b. Automatic on one standard (Linear mode) c. Automatic on up to 10 standards(Non Linear mode) d. 4 PLL mode e. Regression mode 14. Aspiration System with internal Pump of Bellows Type driven by Stepper motor.	a.1-point (End point), 1-point with sample blank b. 2-point (Fixed time) c. rate-A(Kinetic) d. Absorbance measurement 17. Analyzer must have following calibrations types. a. Linear, Two point b. K Factor c. Log Logit d. In kinetic assays, measurement interval should be 1 second.
	15. Should have facility to premeasured the same sample without sipping again. 16. Should have Flow cell temperature of 37° C controlled by means of Peltier Element. 17. Quality Control record of at least last 30 control values measurement with on Screen Levy -Jennings Plot. 18. Should have facility to programme Two controls Per Test 19. Kinetic graph should be available on the screen and also on printouts 20. Should have inbuilt printer & facility to attach external Printer 21. All Test Results must be available on screen 22. Instrument must have European CE-IVD and USFDA certification. 23. Rs 232 type serial port must be available 24. PS 2 Type port for External Keyboard is must apart from inbuilt alpha Numeric Keyboard. 25. Real Time Clock 24 Hour System 26. High Contrast Big Graphical LCD display	18. Analyzer must have storage for three different calibration for each chemistry. 19. Three level controls (QC) with day to day levey Jennings chart stared and displayed. 20.The flow cell should be of quartz 21. The flow cell must have optical path of 10mm. 22. The flow cell volume should be be less than 20 ul. 23.Measurement temp. range should be from 20-40 degree C with variable 1 degree C increment. 24. Analyzer must have following wavelengths as standard. a.340 nm, 415 nm, 510 nm b. 546 nm, 578 nm, 600 nm c. 660/670 nm, 700 nm 25. Analyzer Should have absorbance range from 0.00-3.0 Abs units. 26. Analyzer Resolution must be 0.0001 Abs. 27. Analyzer should be capable of displaying mean, SD, CV. 28. Measurement time programmable from 2-998 second for kinetic and 2-point type test and delay from 0-999 seconds. 29. Analyzer should have semi-automatic aspiration of reaction mixture directly in flow cell using peristaltic pump or other technique. 30. Analyzer should be able to perform Hb A1c testing. 31. Demonstration is must.
Newly added		**SPECIFICATION OF LOW THROUGHPUT BIOCHEMISTERY ANALYZER for hub lab**
		1. The Equipment must be open and Random-Access compact System: The instrument should be capable of all

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क्रमांकः एफ04()एमएनजेवाई/ हब एवं स्पोक मॉडल /2021–22/ दिनांक :

		routine. STAT and special biochemical tests including specific proteins, immuno-turbid metric Assays. 2. Should have Throughput of 180 test/ hour [Photometry) & 250 tests / hour with ISE. 3. Must have ISE unit for Na. K &Cl - and Li + [option al) measurement. 4. Should have more than 30 refrigerated reagent positions. 5. Should have more than 50 Sample position s. 6. Should have Flexibility to use of different type of sample tubes primary tube & pediatric cups. 7. Should have facility of Level Detection, Clot detection & Vertical collision detection. 8. Should have Flexibility of reagent bottles, 9. Should have facility of bar code detection for reagents as well as samples. 10. Should have water consumption less than 9 ltr / hr 11. Should have Halogen Lamp (with working life of more than 1000 hours. 12. Should have low maintenance wear dispensing pump maintenance free. 13. Should have Reagent Volume minimum 200 uL. 14. Should have both internal & extern a l Probe cleaning / washing facility 15. Sample type & capacity must be Scrum, Plasma and Urine, CSF and supernatant 16. Should have facility of dispensing Sample Volume from 2 uL to 40 uL with 0.1 uL re solution. 17. Should have more than 100 reactions well permanent hard glass for optimal accuracy. 18. Should have on board laundry system with minimum six step washing procedure to minimize the carry over. 19. Should have photometric measuring range up-to 3.0 A. 20. The system should be able to perform HbAlc testing. 21. System should have minimum eight different wave lengths generated through hard coating filters. 22. Should have separate probe for reagents and sample. 23. Should have user friendly software for real time work session & exhaustive quality control analysis viz., Westgard Rules, Youden & L-J Charts. 24. Should have reagent & Sample barcode facility . 25. System should have automatic measurement of the fluidic system, equipped with air bubble detection technology to ensure optimum performance. 26. Should have Stat facility for EMERGENCY TEST. 27. Should have pre & post dilution for abnormal sample s. 28. The system should be supplied with suitable external printer. 29. The system should be supplied with suitable water purification system and UPS 30. It should meet all relevant internationally recognized accreditation such as USFDA and European CE approved. 31. Demonstration is must.
Page no 30	**Fully Auto Biochemistry Analyzer With Electrolyte For Mother Lab and Hub Lab**	**Fully Auto Biochemistry Analyzer With Electrolyte For Mother Lab**
	1. Should be Random access fully automated analyzer capable to giving results per patients.	1. Should be discrete, open Random-Access fully automated analyzer with stat testing capabilities and all

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		routine and special biochemical tests, immuno -turbid metric Assays .
	2. Should have Throughput of 400 test/ hour (Photometry) & 320 test/hour for ISE.	2. Should have Throughput of ≥400 test/ hour (Photometry) & 300 test/hour for ISE.
	3. Should have more than 80 refrigerated reagent positions.	3. Should have facility of Level Detection, Clot detection & collision detection.
	4. Should have 135 Sample positions.	4. Should have facility of bar code detection for reagents as well as samples.
	5. Should have Flexibility to use of different type of sample tubes, 12 mm to 16 mm (max heights 100mm) & paediatric cups.	5. Should have facility of dispensing Sample Volume from 2 uL to 40 uL with 0.1 uL resolution
	6. Should have facility of Level Detection, Clot detection & Vertical collision detection.	6. Light source halogen lamp should be covered under warranty and should have minimum life of 1000 hours.
	7. Should have flexibility of reagent bottles- 20 ml & 60 ml	7. Should have on board laundry system with 7 step washing procedure.
	8. Should have facility of bar code detection for reagents as well as samples.	8. Should have photometric measuring range up to 3.0A.
	9. Should have solid state light source (LED Technology) with a split reference beam with working life of more than 50000 hours.	9. Should have min 8 wavelengths.
	10. Should have low maintenance wear dispensing pump with Ceramic Piston (maintenance free)	10. Should have separate probes for reagents and separate probe for samples.
	11. Should have Reagent Volume minimum 200 uL.	11. System should have automatic measurement of the fluidic system, equipped with air bubble detection technology to ensure optimum performance.
	12. Should have facility of dispensing Sample Volume from 2 uL to 40 uL with 0.1 uL resolution.	12. Should have pre & post dilution for abnormal samples.
	13. Should have more than 100 reaction well material UV Methacrylate for optimal accuracy & precision.	13. Should have the USFDA & European CE Certificates
	14. Should have on board laundry system with 7 step washing procedure.	14. It should have ISE for electrolytes sodium, potassium, chloride and lithium optional.
	15. Should have photometric measuring range up to 3.5 A.	15. The system should be able to perform HbAlc test using anti coagulated whole blood.
	16. Should have min 8 wavelengths.	16. It must have low water requirement of not more than 30 liters/hours even during alarm for fluid levels
	17. Optical System should have hard coated filters (340,405,505,535,580,600,635,670) to provide maximum stability & longer durability.	17. It should have alert when ever sample is turbid, icteric, lipemic or hemolysed.
	18. Should have 2 reagents probes & 2 mixers for optimal homogenization in min time.	18. Must have error messages and online display.
	19. Should have self controlled electronic system through CAN (controller Area Network) bus optimize performance & reduce maintenance down time.	19. It should have distraction grating photometric detection 1 section is the spectral range 40 nm to 850 nm.
	20. Should have user friendly software for real time work session & exhaustive quality control analysis viz., Westguard Rules, Youden & L-J Charts.	20. Assay types should be end point, kinetic, fixed, rate monochromatic, bi-chromatic, ISE, turbidimetric.
	21. Should have reagent & Sample barcode facility (optional)	21. Equipment should be supplied with compatible external system, compatible on-line UPS for entire machine with one hour backup and 02 ton AC with stabilizer and compatible water purification system.
	22. System should have automatic measurement of the fluidic system, equipped with air bubble detection technology to ensure optimum performance.	22. Must be programmable for all tests menus and have state of art work station. It should have capability for pre-dilution and automatic repeat of tier diluted sample. Must have automatic repeat for reduced or increased volume of sample.
	23. Should have Stat facility for EMERGENCY TEST.	23. Must have continuous loading of sample.
	24. Should have pre & post dilution for abnormal samples.	24. Should have minimum reagent volume 200 ul.
	25. Should have facility of LIMS integration & 3 independent power supply (Analyzer, Refrigerator & ISE Module)	25. It should have real time qc programme with U graph for NABL activities. Printout of QC charts and reports. data management should be in real-time with monthly QC data logs. Automatic Plotting of levy-jennings charts and alarms when control results are out of range.
	26. Should have the USFDA & European CE Certificates	26. It should have automatic print out of patient reports and full patient demographics.
	27. The manufacturer should have direct presence in India.	27. Connectivity connects with bidirectional LIS/HIS system. Extensive data management software compatible and programmable windows based date processing and management system. Graphical user interface software, LIMS capability, complete backup of data for calibration control and patient sample results.
	28. After sales, service support should be provided directly by the manufacturer.	28. It should have support sample tubes of various standard sizes.

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	29. Should have installation based in India more than 100 unit.	29. It should have the suitable compatible PC. 30. System should be supplied with all necessary pre requisites, startups kits, QC and calibrations, free reagents and provide the user list with address and telephone contacts. 31. Should have minimum 100 sample positions. 32. Should have more than 50 refrigerated reagent positions. 33. Should have more than 100 reaction well permanent hard glass for optical accuracy. 34. Should have reagent and sample barcode facility. 35. Vendor must attend to any machine related problem within 48 working hours. 36. Demonstration is must.
Page no 29	**Immunoassay Analyzer For Mother Lab and Hub Lab**	**Immunoassay Analyzer For Mother Lab**
	1. The immunochemistry Instrument should be latest Chemiluminescence based instrument. 2. The instrument should have throughput of Minimum at least 100 test hour 3.The sample carrier should be capable of taking different types of tubes for collection of blood and instrument should be capable of automatically sampling from different types of tubes 4.The instrument should be capable of loading minimum of 65 samples at a time with customized on-site priority positions and continuous access for reagent and sample should be possible during run 5. The instrument should be capable of loading minimum 25 test reagent at a time with facility for continuous loading of reagents during run. 6. The system should have liquid stable ready to use accessories like control, calibrator etc. 7. The instrument should have wide test menu capable of doing Transplant assays, Hep-retro Assays, cardic, congenital, metabolic assays with avidity other than normal assay menu. 8. The instrument should have the facility for online help, errors for accessing instrument information. 9. The instrument should have the facility for integration with common family clinical chemistry analyser. 10. The instrument should have maintenance procedures display in a To Do list for automatic tracking and ease of performance. 11. The instrument should have carryover of less than 0.1 ppm. 12. The sample carrier should be capable of taking different types of tubes for collection of blood and	1. The immunochemistry Instrument should be latest Chemiluminescence based instrument. 2. The instrument should have throughput of Minimum at least 100 test hour 3.The sample carrier should be capable of taking different types of tubes for collection of blood and instrument should be capable of automatically sampling from different types of tubes 4.The instrument should be capable of loading minimum of 65 samples at a time with customized on-site priority positions and continuous access for reagent and sample should be possible during run 5. The instrument should be capable of loading minimum 25 test reagent at a time with facility for continuous loading of reagents during run. 6.The system should have liquid stable ready to use accessories like control, calibrator etc. 7.The instrument should have wide test menu capable of doing Transplant assays, Hep-renal Assays, cardic, congenital, metabolic assays with avidity other than normal assay menu. 8.The instrument should have the facility for online help, errors for accessing instrument information. 9. The instrument should have maintenance procedures display in a To Do list for automatic tracking and ease of performance. 10. The instrument should have carryover of less than 0.1 ppm. 11. The sample carrier should be capable of taking different types of tubes for collection of blood and instrument should be capable of automatically sampling from different types of tubes. 12. The instrument should be able to reduce turnaround time

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	instrument should be capable of automatically sampling from different types of tubes. 13. The instrument should be able to reduce turnaround time with front end sample loading with robotic arm and ability to have user defined stat position 14. The instrument should have a touch screen, interface with easy to operate icons 15. The instrument should be capable of have online help, maintenance logs and data storage facility. 16. The instrument should have integration facility with common family Biochemistry analyser 17. The instrument should have facility for clot/bubble detection for sample & reagent with sample first technology to avoid reagent wastage. 18. The instrument should have facility for continuous reagent loading during run. 19. The instrument should havebidirectionalserialRs232interface, host query option available The instrument should have remote diagnostics facility. 21. The instrument must have the memory of minimum50000patient tests results. 22. The instrument must have SCC touch screen color monitor ,Key Boardand Mouse to ease of use. 23. The Instrument should be USFDA & CE approved.	with front end sample loading with robotic arm and ability to have user defined stat position 13. The instrument should have a touch screen, interface with easy to operate icons 14.The instrument should be capable of have online help, maintenance logs and data storage facility. 15.The instrument should have facility for clot/bubble detection for sample & reagent with sample first technology to avoid reagent wastage. 16.The instrument should have facility for continuous reagent loading during run. 17.The instrument should have bi-directional interface, host query option available 18. The instrument should have remote diagnostics facility. 19. The instrument must have the memory of minimum ≥5000 patient tests results. 20. The instrument must have SCC touch screen color monitor ,Key Board and Mouse to ease of use. 21. The Instrument should be USFDA & CE approved. 22.Demonstration of equipment is must 23. Must have UPS, battery back-up and AC
Page no. 31	**Automated Blood Gas Analyzer** **For Mother Lab and Hub Lab**	**Automated Blood Gas Analyzer** **For Mother Lab**
	1 Fully automatic, upgradeable, fast electrolyte & Blood gas analyzer. 2 Essential Measured parameters; pH, pCO2, pO2, SaO2 with cooximetry, tHb, Lactates, Creatinine, Glucose, Na+, K+, Ca++, Cl-. All these parameters should be measured simultaneously 3 Calculated parameters should include BE, BE ecf, HCO3, Anion Gap etc. 4 Sample volume should be -less than 150 -200 micro liter. 5 Fast analysis time – less than 110 sec. 6 Maintenance free electrodes with individual electrodes ON/OFF facility. 7 Fully automatic liquid calibration of all parameters 8 Continuous reagent level monitoring with graphic	1 Fully automatic, upgradeable, fast electrolyte & Blood gas analyzer. 2 Essential Measured parameters; pH, pCO2, pO2, SaO2 with cooximetry, tHb, Lactates, Creatinine, Glucose, Na+, K+, Ca++, Cl-. All these parameters should be measured simultaneously 3 Sample volume should be -less than 150 -200 micro liter. 4 Maintenance free electrodes with individual electrodes ON/OFF facility. 5 Fully automatic liquid calibration of all parameters 6 Continuous reagent level monitoring with graphic display/alarm 7.Data display on well-illuminated, adequate size screen display. 8. Data print out on built in thermal printer

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	display/alarm. 9 Data display on well-illuminated, adequate size screen display. 10 Data print out on built in thermal printer 11 Built in auto Quality control facility. 12 Suitable UPS with at least 30 min backup. 13 Should provide the Levey-Jennings Control Chart 14 Should provide the Siggaard-Andersen acid base chart 15 Should have local service facility 16 It must be UF-FDA &European CE with four digit notified body number approved and certificate to be submitted.	9. Built in auto Quality control facility. 10 Suitable UPS with at least 30 min backup. 11. Should provide the Levey-Jennings Control Chart 12. Should have local service facility 13.Product should be USFDA and European CE approved. 14.Instrument Should be operated with reagents/gas/sensor or electrodes. 15 .System should use Amperometric /Potentiometric/Conductometric sensor/ION electrodes Technical. 16 .The instrument should also have sample auto loader facility. 17.Demonstration of equipment is must
Page no. 22	**Digital Haemoglobinometer For Mother Lab , Hub Lab and Spokes**	**Digital Haemoglobinometer For Mother Lab and Hub Lab**
	Technical Specifications 1.SHOULD BE A (1) BATTERY OPERATED, (2) HAND-HELD AND A (3) PROTABLE UNIT IDEAL FOR MASS SCREENING AS WELL AS IN CLINICAL SETTING. 2.THE INSTRUMENT SHOULD USE FINGER PRICKED BLOOD SAMPLE. **Technical Characteristics** 3.QUANTITATIVE MEASUREMENT SHOULD BE BASED ON ELECTRICAL CONDUCTIVITY (Desired method—**Optical Method of Transmittance).** 4.SHOULD HAVE AN AMR RANGING BETWEEN 0 AND 27% HAEMOGLOBIN. 5.SAMPLE REQUIREMENT SHOULD NOT BE MORE THAN 10 µL. 6.MEASURMENT TIME SHOULD NOT BE MORE THAN A MINUTE FACILITATING THE INSTRUMENT IDEAL FOR MASS SCREENING PROGRAMMES. 7.THE INSTRUMENT MUST HAVE A GOOD CORRELATION (>98%) IN COMPARISON WITH ANY3 PART CELL COUNTER. 8.THE INSTRUMENT SHOULD GIVE HAEMATOCRIT VALUES IN ADDITION TO HAEMOGLOBIN VALUES. **User Interface** 9.THE INSTRUMENT MUST HAVE A MEMORY TO STORE ATLEAST 1000 TEST RESULTS WITH DATE AND TIME. **Physical & Environmental Characteristics** 10.THE WEIGHT OF THE INSTRUMENT SHOULD BE LESS THAN 200gm INCLUDING BATTERIES FOR EASY HANDLING AND	SHOULD BE A (1) BATTERY OPERATED, (2) HAND-HELD AND A (3) PROTABLE UNIT IDEAL FOR MASS SCREENING AS WELL AS IN CLINICAL SETTING. THE INSTRUMENT SHOULD USE FINGER PRICKED BLOOD SAMPLE. QUANTITATIVE MEASUREMENT SHOULD BE BASED ON ELECTRICAL CONDUCTIVITY/ REFLACTANCPHOTOMETRY/ABSORBANCE PHOTOMETRY (Desired method—**Optical Method of Transmittance).** SHOULD HAVE AN AMR RANGING BETWEEN 0 AND MINIMUM ≥20% HAEMOGLOBIN. SAMPLE REQUIREMENT SHOULD NOT BE MORE THAN 10 µL. MEASURMENT TIME SHOULD NOT BE MORE THAN A MINUTE FACILITATING THE INSTRUMENT IDEAL FOR MASS SCREENING PROGRAMMES. THE INSTRUMENT MUST HAVE A GOOD CORRELATION (>98%) IN COMPARISON WITH ANY3 PART CELL COUNTER. **User Interface** THE INSTRUMENT MUST HAVE A MEMORY TO STORE ATLEAST ≥500 TEST RESULTS WITH DATE AND TIME. THE WEIGHT OF THE INSTRUMENT SHOULD BE LESS THAN 200gm INCLUDING BATTERIES FOR EASY HANDLING AND PORTABILITY.

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	PORTABILITY. 11.THE DIMENSION OF THE UNIT SHOULD NOT EXCEED 120mm x 65mm x 21 mm (L x B x H) 12.SHOULD BE OPERATABLE AT A RELATIVE HUMIDITY RANGE BETWEEN 10% AND 90% **Energy Source** **13.**THE INSTRUMENT MUST BE BATTERY OPERATED WITH EITHER AA OR AAA BATTERIES ONLY. **Certifications** 14.THE DEVICE SHOULD CARRY CE 0120 certification **Service support** 15. CONTACT DETAILS OF MANUFACTURER, SUPPLIER AND LOCAL SERVICE AGENT TO BE PROVIDED.	SHOULD BE OPERATABLE AT A RELATIVE HUMIDITY RANGE BETWEEN 10% AND 90% THE INSTRUMENT MUST BE BATTERY OPERATED WITH EITHER AA OR AAA OR RECHARGABLE BATTERIES. THE DEVICE SHOULD CARRY EUROPIAN CE / USFDA CONTACT DETAILS OF MANUFACTURER, SUPPLIER AND LOCAL SERVICE AGENT TO BE PROVIDED.
Page no. 23	**3 PART cellcounter) Analyzer For Mother Lab , Hub Lab and Spokes**	**3 PART cellcounter Analyzer For Mother Lab and Hub Lab**
	1. Should be fully automated three part hematology Analyzer providing 20 parameters including 3-part differential 2. The system should give a differential count as Lymphocytes, mid population and Granulocytes 3. System should be capable of processing samples at 60 sample/hour &sample storage memory result capacity of >1000 with histograms. 4. The system should be based on Sample Rotary Valve (SRV) for precise sample aliquoting for dilution and dust free closed mixing cup to avoid false elevation in PLT count 5. System should have auto probe washing to clean the sample probe automatically after sample aspiration and should have separate pre dilution mode. 6. The system should use non cyanide based reagents for Hb estimation 7. System for the reliability of the results should have "electrical Impedance" method of cell counting. 8. The system should use proven and approved "Volumetric & time Metering" of cell 9. counting for WBC, RBC and PLT for high precision of the results and stability of the calibration with close measuring chamber 10. The system should have automatic floating discriminator of RBC/PLT. 11. The system should have Open mode as well as pre diluted mode of sample aspiration. 12. The system should use high Intensity LED for HB estimation	1Should be fully automated three part hematology Analyzer providing 20 parameters including 3-part differential 2 The system should give a differential count as Lymphocytes, mid population and Granulocytes 3 System should be capable of processing samples at 60 sample/hour &sample storage memory result capacity of >1000 with histograms. 4 The system should be based on Sample Rotary Valve (SRV)/Syringe for precise sample aliquoting for dilution and dust free closed mixing cup to avoid false elevation in PLT count 5 System should have auto probe washing to clean the sample probe automatically after sample aspiration and should have separate pre dilution mode. 6 The system should use non cyanide based reagents for Hb estimation 7 System for the reliability of the results should have "electrical Impedance" method of cell counting. 8 The system should use proven and approved "Volumetric & time Metering" of cell counting for WBC, RBC and PLT for high precision of the results and stability of the calibration with close measuring chamber 9 The system should have automatic floating discriminator of RBC/PLT. 10 The system should have Open mode as well as pre diluted mode of sample aspiration. 11 The system should use high Intensity LED for HB estimation

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	13. System should be user friendly with color touch screen and should have option for attachment of laser external printer as well as data inter facing must be provided by the bidder. 14. System series should be US FDA approved and CE certified. 15. The instrument should be equipped with direct capillary insertion facility for testing finger prick collections for pediatric/geriatric sample. 16. Inbuilt blood mixer or external blood mixer and other accessories for smooth running of hematology analyzer.	12 System should be user friendly with color touch screen and should have option for attachment of laser external printer as well as data inter facing must be provided by the bidder. 13 System series should be US FDA approved / EU-CE certified. 14 Inbuilt blood mixer or external blood mixer and other accessories for smooth running of hematology analyzer.
Page no. 28	**Five Part Hematology Analyzer For Mother Lab and Hub Lab**	**Five Part Hematology Analyzer For Mother Lab and Hub Lab**
	1. It should be fully automatic with Five part diff analysis of WBC 2. Should be based on following principles a) Impedance method for RBC & PLT b) Photometric principle for HGB measurement. c) Flow Cytometry (FCM) + Tri-angle laser scatter method for WBC 5-part differential analysis and WBC counting 3. The system should have semiconductor -laser scatter with 3 angles measurement for precision and accuracy of WBC diff. 4. Should have facility to perform CBC + 5 diff and CBC count. 5. Should have one click option to switch between full 5-Part Diff or CBC-count at each sample 6. Should have a throughput of = 45 samples/hour in CBC +diff mode & 60 samples/hour in CBC mode 7. It should give minimum 29 parameters as under- WBC, Lym%, Mon%, Neu%, Bas%, Eos%, Lym#, Mon#, Neu#, Eos#, Bas#, RBC, HGB, HCT, MCV, MCH, MCHC, RDW-CV, RDW-SD, PLT, MPV, PDW, PCT, P-LCR, P-LCC, IG%, IG#, AL%, AL#. 8. Should give 3 histograms for WBC, RBC and PLT 9. Should give 3 scattergrams for WBC differential 10. The system should measure Basophils separately than other WBC fractions 11. Should have carry over for RBC, HGB, HCT, WBC = 0.5 % & PLT = 1.0% 12. Should have CV for WBC = 2.0 %; RBC = 1.5 %; MCV = 1.0 % ; PLT = 6 % & HGB = 1.5 %. 13. The system should use high Intensity LED for HB estimation. 14. HB measurement should be done with Cyanide free reagent. 15. Sample aspiration volume should be 25 µL or less.	1. It should be fully automatic with Five part diff analysis of WBC 2. Should be based on following principles a) Impedance method for RBC & PLT b) Photometric principle for HGB measurement. c) Flow Cytometry (FCM) + Tri-angle laser scatter method for WBC 5-part differential analysis and WBC counting 3. The system should have semiconductor -laser scatter with 3 angles measurement for precision and accuracy of WBC diff. 4. Should have facility to perform CBC + 5 diff and CBC count. 5. Should have one click option to switch between full 5-Part Diff or CBC-count at each sample 6. Should have a throughput of > 45 samples/hour in CBC +diff mode & 60 samples/hour in CBC mode 7. It should give minimum 29 parameters as under- WBC, Lym%, Mon%, Neu%, Bas%, Eos%, Lym#, Mon#, Neu#, Eos#, Bas#, RBC, HGB, HCT, MCV, MCH, MCHC, RDW-CV, RDW-SD, PLT, MPV, PDW, PCT, P-LCR, P-LCC, IG%, IG#, AL%, AL# LIC/LUC. 8. Should give 3 histograms for WBC, RBC and PLT 9. Should give 3 scattergrams for WBC differential 10. Should have carry over for RBC, HGB, HCT, WBC ≤ 0.5 % & PLT ≤1.0% 11. Should have CV for WBC ≤2.0 %; RBC ≤1.5 %; MCV ≤1.0 % ; PLT ≤6 % & HGB ≤1.5 %. 12. The system should use high Intensity LED for HB estimation. 13. HB measurement should be done with Cyanide free reagent. 14. Sample aspiration volume should be 25 µL or less. 15. Should be able to analyze venous blood, capillary blood & pre-diluted sample

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	16. Should be able to analyse venous blood, capillary blood & pre-diluted sample 17. Should auto dispense diluent for sample predilution to avoid measuring errors & contamination 18. System should have auto probe clean after each aspiration 19. Should have powerful capability to flag abnormal cells 20. Recommended or customizable decision rules for re-exam abnormal samples 21. System should have whole blood mode and predilute modes of aspiration. 22. Should have colored TFT touch screen display of more than 10 inch with landscape view. 23. Should have large patient memory to store at least 50,000 sample history 24. All the parameters should be displayed simultaneously with histograms in one view. 25. It should have facility to enter patient ID, Name, Age and Gender. 26. Should have the following Linearity range 27. **Parameter** **Linearity Range** 28. **WBC** 0.0 - 300 x 10^9/L 29. **RBC** 0.0 - 8.5 × 10^{12}/L 30. **HGB** 0.0 – 25.0 g/dL 31. **PLT** 0.0 - 3000 x 10^9/L 32. Should have QC-programme with Mean, SD, CV, Levy-Jennings plots. 33. Manufacturer firm should have its own calibrator and three level controls for better quality management. 34. Should support external inkjet and Laser Printer with various templates & user defined template 35. Should have facility to store QC data. 36. Should be based on three reagent system and one additional cleaner only. 37. Should have reagent inventory management 38. Should have communication ports as minimum 4 USB & 1 LAN port 39. Should have bi-directional HL7 protocol for easy interfacing with LIS and HMIS 40. Power supply – AC 100-240 V; 50/60 Hz 41. Operating temperature should be 18-32° C (64-90° F), Humidity 20 - 85 %. 42. Should be European CE-IVD certified.	16. Should auto dispense diluents for sample predilection to avoid measuring errors & contamination 17. System should have auto probe clean after each aspiration 18. Should have powerful capability to flag abnormal cells 19. System should have whole blood mode and predilute modes of aspiration. 20. Should have colored TFT touch screen display of standard size more than 10 inch with landscape view. 21. Should have large patient memory to store at least 50,000 sample history 22. All the parameters should be displayed simultaneously with histograms in one view. 23. It should have facility to enter patient ID, Name, Age and Gender. 24. Should be provided with auto sampler 25. Should have the following Linearity range **Parameter** **Linearity Range** **WBC** 0.0 - 300 x 10□/L **RBC** 0.0 - 8.5 × 10^{12}/L **HGB** 0.0 – 25.0 g/dL **PLT** 0.0 - 3000 x 10□/L 26. Should have QC-programme with Mean, SD, CV, Levy-Jennings plots. 27. Manufacturer firm should have its own calibrator and three level controls for better quality management. 28. Should support external inkjet and Laser Printer with various templates & user defined template 29. Should have facility to store QC data.. 30. Should have reagent inventory management 31. Should have communication ports as minimum 4 USB & 1 LAN port 32. Should have bi-directional HL7 protocol for easy interfacing with LIS and HMIS 33. Power supply – AC 100-240 V; 50/60 Hz 34. Operating temperature should be 18-32° C (64-90° F), Humidity 20 - 85 %. 35. Should be EU-CE-IVD certified/USFDA 36. Detailed flog information

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Page no. 23-24	ESR Analyzer For Hub Lab and Spokes	ESR Analyzer For Hub Lab
	1. Instrument should be microprocessor controlled ESR Analyzer. 2. Should be based on infrared measurement of sedimentation kinetics principle. 3. Instrument should work as random access analyzer 4. Instrument should have a through put up to 40 samples per hour. 5. Should have 15, 30, 60 mins read time options. 6. Should have 10 measuring channels. 7. Sample collection by tubes with sodium citrate only with max. Blood draw volume 1.28 ml. 8. Should report results corrected to 18°C according to Manley chart after measuring the 9. Ambient room temperature. 10. Instrument should be able to report results in mm/h referenced to 1 hour Westergren. 11. Should have LCD for display of results. 12. Instrument should display ambient temperature on screen. 13. Mechanical/optical detection precision should be ± 0.2 mm. 14. CV should be < 10% for analysis reproducibility. 15. Measuring Range should be from 1-140 mm/h with result resolution of ± 1 mm. 16. Instrument should have RS232 port for printer output & barcode scanner input. 17. Should comply to ICSH guidelines 18. Instrument should be US FDA & CE certified. **19.** Ambient Temperature range of operation should be 15 - 32 °C & Humidity 45-85 %	1. Instrument should be microprocessor controlled ESR Analyzer. 2. Should be based on infrared measurement of sedimentation kinetics principle. 3. Instrument should work as random access analyzer 4. Instrument should have a through put up to 40 samples per hour. 5. Should have 15-30 min read time options. 6. Should have 10 measuring channels. 7. Sample collection by tubes with sodium citrate /EDTA vacutainer of standard size. 8. Should report results corrected to 18°C according to Manley chart after measuring the 9. Ambient room temperature. 10. Instrument should be able to report results in mm/h referenced to 1 hour Westergren. 11. Should have LCD for display of results. 12. Instrument should display ambient temperature on screen. 13. Mechanical/optical detection precision should be ± 0.2 mm. 14. CV should be ≤10% for analysis reproducibility. 15. Measuring Range should be from 1-140 mm/h with result resolution of ± 1 mm. 16. Instrument should have RS232 port for printer output & barcode scanner input. 17. Should comply to ICSH guidelines 18. Instrument should be US FDA / EU-CE certified. **19.** Ambient Temperature range of operation should be 15 - 32 °C & Humidity 45-85 %
Page no. 24	**ESR Analyzer For Mother Lab**	**ESR Analyzer For Mother Lab**
	1. Instrument should be microprocessor controlled ESR Analyzer. 2. Should be based on infrared measurement of sedimentation kinetics principle. 3. Instrument should work as random access & Batch analysis modes. 4. Instrument should have a through put up to 80 samples per hour. 5. Should have 15, 30, 60 mins read time options. 6. Should have 20 measuring channels. 7. Sample collection by tubes with EDTA only with max. blood draw volume 1.28 ml. 8. Should report results corrected to 18°C according to Manley chart after measuring the ambient room temperature. 9. Instrument should be able to report results in mm/h referenced to 1 hour Westergren. 10. Large graphic LED/LCD to display & better interpretation of results, sedimentation graphand QC chart on it.	1. Instrument should be microprocessor controlled ESR Analyzer. 2. Should be based on infrared measurement of sedimentation kinetics principle. 3. Instrument should work as random access & Batch analysis modes. 4. Instrument should have a through put up to 80 samples per hour. 5. Should have 15-30 min read time options. 6. Should have 20 measuring channels. 7. Sample collection by tubes with sodium citrate /EDTA vacutainer of standard size. 8. Should report results corrected to 18°C according to Manley chart after measuring the ambient room temperature. 9. Instrument should be able to report results in mm/h referenced to 1 hour Westergren. 10. Large graphic LED/LCD to display & better interpretation of results, sedimentation graphand QC chart on it.

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	11. Should have keypad operation for data input & other operations	11. Should have keypad operation for data input & other operations
	12. Instrument should have inbuilt mixer for batch mode application for better standardized pre analytical accuracy.	12. Instrument should have inbuilt mixer for batch mode application for better standardized pre analytical accuracy.
	13. Each sample should be mixed five times & system should automatically detect sample & start mixing.	13.Each sample should be mixed five times & system should automatically detect sample & start mixing.
	14. Mechanical/optical detection precision should be ± 0.2 mm.	14. Mechanical/optical detection precision should be ± 0.2 mm.
	15. CV should be < 5% for analysis reproducibility.	15. CV should be < _10% for analysis reproducibility.
	16. Measuring Range should be from 1-140 mm/h with result resolution of ± 1 mm	16. Measuring Range should be from 1-140 mm/h with result resolution of ± 1 mm
	17. Should store min. 500 patient results.	17. Should store min. 500 patient results.
	18. Instrument should have inbuilt QC management software with Yuden Plot graphs.	18. Instrument should have inbuilt QC management software with Yuden Plot graphs /LJ plot graph.
	19. Instrument should have inbuilt barcode reader.	19. Instrument should have inbuilt barcode reader.
	20. Instrument should have inbuilt thermal printer to printout results & sedimentation curve.	20. Instrument should have inbuilt thermal printer to printout results .
	21. Instrument should have RS232 port for host, printer output	21. Instrument should have RS232 port for host, printer output
	22. Instrument should have bidirectional LIMS interface facility.	22. Instrument should have bidirectional LIMS interface facility.
	23. Should comply to ICSH guidelines	23. Should comply to ICSH guidelines
	24. Instrument should be US FDA & CE certified.	24. Instrument should be US FDA / EU-CE certified.
	25. Ambient Temperature range of operation should be 15 - 32 °C & Humidity 45-85 %.	25. Ambient Temperature range of operation should be 15 - 32 °C & Humidity 45-85 %.
Page no 25-26	**Urine Analyzer For Hub Lab**	**Urine Analyzer For Hub Lab**
	1. Operation Mode - Should be semi-automatic	1. Operation Mode - Should be semi-automatic
	2. Throughput : Should be 300 Tests/hour with quick mode & 36 Tests/hour with routine mode.	2. Throughput : Should be 200 Tests/hour with quick mode & 36 Tests/hour with routine mode.
	3. Principle: Should be based on reflectance photometry	3. Principle: Should be based on reflectance photometry
	4. Sensor - Should have color image sensor & three LED light source of 630 nm (Red),540 nm(Green) & 460 nm (Blue).	4. Sensor - Should have color image sensor & three LED light source .
	5. Test Parameters : Should be capable of reading following parameters	5. Test Parameters : Should be capable of reading following parameters
	6. Blood, Bilirubin, Urobilinogen, Ketones, Protein, Nitrite,	6. Blood, Bilirubin, Urobilinogen, Ketones, Protein, Nitrite,
	7. Glucose, pH, SG, Leucocytes, Ascorbic acid, Microalbumin, Creatinine, ACR, Color & Clarity in different combinations from 2-11 parameters.	7. Glucose, pH, SG, Leucocytes, Ascorbic acid, Microalbumin, Creatinine, ACR, Color & Clarity in different combinations from 2-11 parameters.
	8. Display : Should be colored touch screen 4.3" TFT LCD	8. Display : Should be colored touch screen with Standard size of TFT LCD
	9. Calibration: Should be performed using reagent strip only. No special strip should be required. Should hold multiparameter calibrations.	9. Calibration: Should be performed using reagent strip only. No special strip should be required. Should hold multiparameter calibrations.
	10. Printer : Should have Inbuilt thermal printer	10. Printer : Should have Inbuilt thermal printer
	11. Peripherals- Should have provision to attach barcode reader & external printer.	11. Peripherals- Should have provision to attach barcode reader & external printer.
	12. Memory: Should store min. 2000 patient records.	12. Memory: Should store min. 400 patient records.
	13. Interface – Should have RS-232 port to attach with PC & 2-USB ports.	13. Interface – Should have RS-232 port to attach with PC & 2-USB port.

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	14. EMC Standards should meet – EN55011/A1:1997,A2-1996,Group1,Class A, 15. Immunity EN 61004 2/3/4/5/6/11 16. Safety Standards should meet –EN/IEC 61010-1 17. Manufacturing company should have three level quality controls and USFDA 18. Approved reagent strips for this machine. 19. Weight should be less than 1 kg. 20. Should be CE-IVD certified 21. Operating Condition10 °C - 40 °C, Humidity 10 % - 70 %. 22. Storage between 0 °C – 40 °C, Humidity 10 % - 85 %	14. Manufacturing company should have three level quality controls. 15. Weight should be light weight . 16. Should be EU-CE certified /USFDA.
Page no.26	**Urine Analyzer For Mother Lab**	**Urine Analyzer For Mother Lab**
	1. Should be compact full featured Semi-Automatic Urine Chemistry Analyzer 2. Should have continuous strip loading facility like conveyer belt. 3. Throughput: Should be 720 Test strips/hour with measurement cycle of 5 secs. 4. Should be based on reflectance photometry principle 5. Should have colour image sensor & LED light source of 630 nm (Red),540 nm(Green) & 460 nm (Blue). 6. Should be capable of read & report following test parameters Blood, Bilirubin, Urobilinogen, Ketones, Protein, Nitrite, Glucose, pH, SG, Leucocytes, Ascorbic Acid, Microalbumin, Creatinine, ACR, Colour& Clarity in different combinations from 2-11 parameters. 7. Should have colored touch screen 7" TFT LCD display 8. Should be able to perform calibration using reagent strip only. No special strip should be required. 9. Should have Inbuilt thermal printer 10. Should have provision to attach barcode reader & external printer. 11. Should store min. 3000 patient records, 1000 control data & 30 calibration data. 12. Should have facility to store calibration data of different strip types without need to recalibrate when switching from different combinations of strips 13. Should have RS-232 port to attach with PC for data transfer & minimum 3-USB ports. 14. Should meet EMS Standards - EN 61326-1, EN 61326-2-6 15. Should have Safety Standards - EN 61010-1, EN 61010-2-101 16. Manufacturing company should have three level quality controls and CE Marked & USFDA approved reagent strips for this machine.	1. Should be compact full featured Semi-Automatic Urine Chemistry Analyzer 2. Should have continuous strip loading facility like conveyer belt. 3. Throughput: Should be 650-750 Test strips/hour . 4. Should be based on reflectance photometry principle 5. Should have colour image sensor & LED light source. 6. Should be capable of read & report following test parameters Blood, Bilirubin, Urobilinogen, Ketones, Protein, Nitrite, Glucose, pH, SG, Leucocytes, Ascorbic Acid, Microalbumin, Creatinine, ACR, Colour& Clarity in different combinations from 2-11 parameters. 7. Should have colored touch screen with standard size TFT LCD display 8. Should be able to perform calibration using reagent strip only. No special strip should be required. 9. Should have Inbuilt thermal printer. 10. Should have provision to attach barcode reader & external printer. 11. Should store min. 1000 patient records, 1000 control data & 30 calibration data. 12. Should have facility to store calibration data of different strip types without need to recalibrate when switching from different combinations of strips 13. Should have bi-directional port to attach with PC for data transfer & minimum 3-USB ports. 14. Manufacturing company should have three level quality controls . 15. Weight should be light. 16. Should be EU-CE marked / USFDA approved.

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	17. Weight should be less than 5 kg. 18.Should be CE-IVD marked & USFDA approved. 19. Storage condition : 0 °C – 40 °C, Humidity 10 % to 85 %. 20. Operating cditioonn: 2 °C -30 °C, Humidity 10 % to 70 %. 21. Firm should quote rate of strip 11 parameters with microalbuminuria and 11 parameters without microalbuminuria	17.. Firm should quote rate of strip 11 parameters, with microalbuminuria and 11 parameters without microalbuminuria 18. Latency -55 Sec.
Page no. 27	**Coagulation Analyzer For Hub Lab**	**Coagulation Analyzer For Hub Lab**
	1.Should be semi-automatic single channel coagulation analyzer 2. Should be based on mechanical ball clot detection method / light scattered method. 3. Should be able to measure clotting of whole blood & plasma (normal/coloured) samples. 4. Should have LCD display for displaying results & other details. 5. Should have four sample incubation wells and one reagent warming well at 37 °C . 6. Should be able to perform PT, APTT & Fib tests. 7. Should have keypad operation for data input & other operations 8. Should display PT results in secs, INR & ratio. 9. Should have facility to attach auto trigger/start pipettes 10. Instrument should have RS232 port to connect to thermal printer 11. Should be supplied with minimum 100 cuvettes & 100 balls. 12. Instrument should be European CE-IVD certified. 13. Ambient Temperature range of operation should be 15 - 29 °C & Humidity max. 80 %.	1. Should be semi-automatic single channel coagulation analyzer 2. Should be based on mechanical ball clot detection method /light scattered method. 3. Should be able to measure clotting of whole blood & plasma (normal/coloured) samples. 4. Should have LCD display for displaying results & other details. 5. Should have four sample incubation wells and one reagent warming well at 37 °C . 6. Should be able to perform PT, APTT.. 7. Should have keypad operation for data input & other operations 8. Should display PT results in secs, INR & ratio. 9. Should have facility to attach auto trigger/start pipettes 10. Instrument should have bi-directional port to connect to thermal printer 11. Should be supplied with minimum 100 cuvettes & 100 balls. 12. Instrument should be European CE-IVD certified/ USFDA. 13. Ambient Temperature range of operation should be 15 - 29 °C & Humidity max. 80 %.
Page no. 27-28	**Coagulation Analyzer For Mother Lab**	**Coagulation Analyzer For Mother Lab**
	1. Complete semi-automated coagulometer system with External USB printer 2. At least 16 incubation positions for samples 3. At least 4 measurement channels. 4. Should have 7" Color Touch Screen display with virtual Keyboard	1. Complete semi-automated coagulometer system with External USB printer 2. At least 16 incubation positions for samples 3. At least 4 measurement channels. 4 Should have approx 7" or more Color Touch Screen display with virtual Keyboard

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	5. At least 2 pipette wells 6. At least 4 independent built in timers for incubation. 7. Should Have Electromagnetic Monitoring of Clot formation Thorough Movement of Steel Ball / light scattered method. 8. Should have automatic pipette electronically connected and Facility to connect External Bar Code Scanner 9. At least 2-4 positions for reagents of which one should be with magnetic stirrer 10. Should have facility to connect with Computer to Save Results 11. Should Have patient memory of at least 40 Patients and Feature to take Backup Data via USB drive 12. Should Have Quality Control Menu with L-J Chart Saving of at least one Month 13. Should give results in Seconds and in various calculated units (%, INR, Ratio, Gm/L, mg/dL, IU/ml) 14. Should have Incubation and measurement wells at 37°C +/- 0.5°C 15. Should have Test menu : PT, PTT, TT, FIB (Clauss Method), Factor II, V, VII, VIII, IX, X, XI, XII, SPA, APC-R, Protein C (clot), Protein S (clot), Anti-Xa Heparin Assay(LMWH / UFH),Lupus Anticoagulant Assay, Thrombin Time Reptilase Time, 16. The instrument should have ability to save factor level calibration curves and give direct results for coagulation factor levels eg Factor VIII etc. 17. No Sample Interference (haemolysis, icteric, Turbid, Lipemic Samples) 18. Should have facility to connect L.I.S. (Lab Information System) 19. One complete set of accessories should be provided as a startup which should include a. Measurement Cuvettes: 300 Pieces b. Electronic pipette: 1 Piece (25/50/100/125µl) c. Reagent Adaptors: 1 Piece of each possible size compatible with this machine d. Stirring magnets: 1 Piece 20. Power input should be 220-240VAC, 50Hz fitted with Indian plug 21. Comprehensive warranty for 2 years and 5 years CMC after warranty 22. Should be CE approved product	5. At least 4 independent built in timers for incubation. 6.. Should Have Electromagnetic Monitoring of Clot formation Thorough Movement of Steel Ball / light scattered method. 7. Should have manual/ automatic pipette electronically connected and Facility to connect External Bar Code Scanner 8. At least 2-4 positions for reagents of which one should be with magnetic stirrer 9. Should have facility to connect with Computer to Save Results 10. Should Have patient memory of at least 40 Patients and Feature to take Backup Data via USB drive 11. Should Have Quality Control Menu with L-J Chart Saving of at least one Month 12. Should give results in Seconds and in various calculated units (%, INR, Ratio, Gm/L, mg/dL, IU/ml) 13. Should have Incubation and measurement wells at 37°C +/- 0.5°C 14. Should have Test menu : PT, PTT, TT, FIB (Clauss Method), VIII, IX, X, XI, XII 15. The instrument should have ability to save factor level calibration curves and give direct results for coagulation factor levels eg Factor VIII etc. 16. No Sample Interference (haemolysis, icteric, Turbid, Lipemic Samples) 17. Should have facility to connect L.I.S. (Lab Information System) 18. One complete set of accessories should be provided as a startup which should include a. Measurement Cuvettes: 300 Pieces b. Electronic pipette: 1 Piece (25/50/100/125µl) c. Reagent Adaptors: 1 Piece of each possible size compatible with this machine d. Stirring magnets: 1 Piece 19. Comprehensive warranty for 2 years and 5 years CMC after warranty 20. Should be EU-CE approved /USFDA.
Page no. 35	**BINOCULAR MICROSCOPE WITH LED ILLUMINATION For Mother Lab and Hub Lab**	**BINOCULAR MICROSCOPE WITH LED ILLUMINATION For Mother Lab and Hub Lab**
	1. It should be seidentopf binocular head microscope with infinity optical system. 2. Head should be inclined at 30 degree and 360 degree rotatable without adjusting screws with interpupillary distance 50-75 mm.	1. It should be seidentopf binocular head microscope with infinity optical system. 2. Head should be inclined at 30 degree and 360 degree rotatable without adjusting screws with interpupillary

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	3. Eye piece – It should be paired, acromatic wide field, 10x power, with diopter adjustment on both the eye pieces. 4. Objective – It should have 3 objectives 10x, 40x and 100x, having rumerical aperture 0.25, 0.65 and 1.65respectively oil immersion objective (100x) should be spring loaded. All objectives should be plan achromatic, antifungal coated infinity and color corrected. 5. It should have reverse quadruple revolving nose pieces to accommodate from objectives with click stops. It should be provided with ribbed grip for easy rotation. It should be mounted on ball bearing mechanism or better system. 6. Stage should be uniformly horizontal mechanical stage 140 mm x 140mm with fine vernier graduations. It should be provided with spring loaded slide holder. It should have substage, vertical co-axial adjustment for slide manipulation. It should have ball bearing arrangement on single handle for both transverse (80mm ± 5mm) and front to back (50mm ± 5mm) movements. 7. Condenser should be Abbe type, Numerical aperture (NA) 1.25 focusable with rack and pinion arrangement incorporating an spherical lens and iris diaphragm. It should have filter holder swing in/out blue filter. 8. System should have built in illumination 3W LED with intensity control with inbuilt protective safety device which with sand fluctuations of voltage from 140 V to 280 V. 9. Focusing knobe should have coaxial coarse and fine focusing knobs. Fine focusing movements should have sensitivity of 2 micron or less, coarse focus with torque adjustment stop safety arrangement should be there. 10. System should work on universal power supply 100 V – 240 Volt with power back up upto 3 hours. 11. It should be European CE. 12. Firm should give 3 year warranty and CAMC for 5 years. 13. User manual should be supplied with the equipment. 14. Firm should give 100 ml of lens cleaning solution, 25 ml of immersion oil and roll of lens cleaning paper and dust cover. 15. Firm should give list of important spare parts with accessories with their cost in financial bid. 16. Demonstration is must for final approval. 17. Firm should enclose original brochure for technical specification.	distance 50-75 mm. 3. Eye piece – It should be paired, acromatic wide field, 10x power, with diopter adjustment on both the eye pieces. 4. Objective – It should have 3 objectives 10x, 40x and 100x, having rumerical aperture 0.25, 0.65 and 1.65respectively oil immersion objective (100x) should be spring loaded. All objectives should be plan achromatic, antifungal coated infinity and color corrected. 5. It should have reverse quadruple revolving nose pieces to accommodate from objectives with click stops. It should be provided with ribbed grip for easy rotation. It should be mounted on ball bearing mechanism or better system. 6. Stage should be uniformly horizontal mechanical stage 140 mm x 140mm with fine vernier graduations. It should be provided with spring loaded slide holder. It should have substage, vertical co-axial adjustment for slide manipulation. It should have ball bearing arrangement on single handle for both transverse (80mm ± 5mm) and front to back (50mm ± 5mm) movements. 7. Condenser should be Abbe type, Numerical aperture (NA) 1.25 focusable with rack and pinion arrangement incorporating an spherical lens and iris diaphragm. It should have filter holder swing in/out blue filter. 8. System should have built in illumination 3W LED with intensity control with inbuilt protective safety device which with sand fluctuations of voltage from 140 V to 280 V. 9. Focusing knobe should have coaxial coarse and fine focusing knobs. Fine focusing movements should have sensitivity of 2 micron or less, coarse focus with torque adjustment stop safety arrangement should be there. 10. System should work on universal power supply 100 V – 240 Volt with power back up upto 3 hours. 11. It should be European CE. 12. Firm should give 3 year warranty and CAMC for 5 years. 13. User manual should be supplied with the equipment. 14. Firm should give 100 ml of lens cleaning solution, 25 ml of immersion oil and roll of lens cleaning paper and dust cover. 15. Firm should give list of important spare parts with accessories with their cost in financial bid. 16. Demonstration is must for final approval. 17. Firm should enclose original brochure for technical specification.
Page no.32	**Elisa Reader & Washer For Mother Lab and Hub Lab**	**Elisa Reader & Washer For Mother Lab**
	Specification of Microplate Reader 1. Should be microprocessor based compact standalone 8-Channel optics based microplate reader 2. Should be user programmable open system with selectable plate formatting 3. should have alphanumeric test naming & automatic interpretation options 4. Should have duplicate well reading options, curve plotting, flags and error messages. 5. Should store at least 100 tests with all parameters including wavelengths, calculations, unit codes, linear and normal ranges, standard values, test names,and previous standard curve. 6. Should have facility to clone the existing test	1. Should be microprocessor based compact standalone 8-Channel optics based microplate reader 2. Should have duplicate well reading options, curve plotting, flags and error messages. 3. Should store at least 100 tests with all parameters including wavelengths, calculations, unit codes, linear and normal ranges, standard values, test names, and standard curve. 4. Should have single and dual wavelength selection

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	7. Should have single and dual wavelength selection options for reading 8. Should have at least 5" colour touch screen LCD Display with graphics. 9. Should have facility to attach & operate through USB mouse 10. Should read absorbances of 96 wells in about 10 seconds. 11. Should have facility of Inbuilt thermal printer with graphics printout 12. Should have Halogen lamp source with lamp saver feature 13. Should have linear absorbance range from 0.0 to 4.0 Abs with ± 1% photometric accuracy 14. Should have abs resolution of .001 Abs 15. Should be stable and drift should not be more than 0.005A in 8 hours 16. Should have IAD hardcoat interface filters with 10 nm half bandpass 17. Should have standard installed filter of 405, 450, 492, & 630nm and placed for 2 optional filters. 18. Should have following Calculation modes and place for 2 optional filters a. Absorbance b. Single point calibration (Factor) c. Point-to-point curve fit, d. Polynomial regression, e. Linear and sigmoidal regressions (log & linear), f. Cutoff absorbance, g. Multipoint % absorbance. 19. System should have ability to communicate with PC for data management 20. Should have operating temperature between 18 - 35 °C & storage temp of 10 - 50°C 21. Operating humidity of less than 80 % 22. Should have power requirement of 180 -240 V AC, 50-60 Hz (universal input, auto sensing) 23. Manufacturing company should be ISO 13485 :2016 certified 24. Instrument should be NRTL listed, CE & IVD / US-FDA Certified 25. CE & IVD/ US-FDA related Certified should be submitted. 26. Weight should be less than 7 KG.	options for reading 5. Should have LCD display screen with graphics. 6. Should have facility to attach & operate through USB mouse 7. Should read absorbances of 96 wells in about 10 seconds. 8. Should have facility of printing the results on non thermal printer. 9. Should have linear absorbance range from 0.0 to 4.0 Abs with ± 1% photometric accuracy 10. Should have Abs resolution of .001 Abs 11. Should have standard installed filter of 405, 450, 492, & 630nm and placed for 2 optional filters. 12. Should have following Calculation modes a. Absorbance b. Single point calibration (Factor) c. Point-to-point curve fit, d. Cutoff absorbance, e. Multipoint % absorbance. 13. System should have ability to communicate with PC for data management 14. Should have operating temperature between 15 - 40 ° 15. Should have power requirement of 220 -240 V AC, 50-60 Hz (universal input, auto sensing) 16. Instrument should be European CE and US-FDA Certified and relevant certificates should be submitted. 17. Weight should be less than 10 KG. 18. Should have USB/bi-directional port. 19. Firm should submit the details of ELISA kits to be used. ELISA kits to be used should be approved from ICMR /NACO /DCGI /NIB/IVD or any other relevant regulatory body.
Page no. 33	**Specification of Micro plate Washer**	
	1. System should have automatic washing capability for flat, round, and V bottom strips and plates. 2. Should have capability to wash 96 well microplate and have 1*8 way wash head. 3. Should have feature of automatic last row detection. 4. Should perform self check by performing internal performance tests & auto alignment 5. Should have auto alignment feature of sensing physical geometry of head, plate & carrier mechanism 6. Should have minimum large LCD Display with key board facility 7. Should have memory for at least 50 user definable wash protocols 8. Should have at least Six factory programmed wash/rinse modes	1. System should have automatic washing capability for flat, round, and V bottom strips and plates. 2. Should have capability to wash 96 well microplate and have 1*8 way wash head. 3. Should perform self check by performing internal performance tests & auto alignment. 4. Should have LCD Display with key board facility 5. Should have memory for at least 50 user definable wash protocols 6. Should have at least Six factory programmed wash/rinse modes 7. Should have programable automatic and manual rinse cycle 8. Should have 8-probe manifold 9. Should have Residual volume of < 3 µl in fluidic performance per well

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	9. Should have programable automatic and manual rinse cycle 10. Should have 8-probe manifold 11. Should have Residual volume of < 3 µl in fluidic performance per well 12. Should have dispense accuracy of < 3% CV at 300 µl 13. Should have processing time of less than one minute with single or double aspirate 14. Should have washing program: Aspirate, dispense, mix, soak-up to 99 minutes 99 secs. 15. Should have feature for selection of well type, select auto/manual well depth and dispense depth, constant plate cycle time, viewing of preprogramed tests and configure auto rinse 16. Should have plastic Wash & Waste bottles (2 L each) & Rinse bottle (1L) with volume sensor probes 17. Should have stand by function in which pump should be disabled to release vacuum& pressure to enhance pump life. 18. Should have fire retardant ABS plastic cover with metal base. 19. Should have power requirement of 180-240 V ,70 W 50-60 Hz (switch selectable) 20. Manufacturing company should be ISO 13485:2016 certified 21. Instrument should be NRTL listed, CE & IVD / US-FDA Certified 22. CE & IVD/ US-FDA related Certified should be submitted. 23. Weight should be less than 10 KG. 24. Should have USB/RS -232 port. 25. Should provide aerosol cover to prevent aerososl of infectious disease from spreading	10. Should have dispense accuracy of < 3% CV at 300 µl 11. Should have processing time of less than one minute with single or double aspirate 12. Should have washing program: Aspirate, dispense, mix, soak-up 13. Should have feature for selection of well type, select auto/manual well depth and dispense depth and configure auto rinse. 14. Should have plastic Wash & Waste bottles (2 L each) & Rinse bottle (1L) with volume sensor probes 15. Instrument should be European CE & US-FDA certified and relevant certificate should be submitted. 16. Weight should be less than 10 KG. 17. Should have USB/RS -232 port. 19 Should have operating temperature between 15 - 40 ° 20. Firm should submit the details of ELISA kits to be used. ELISA kits to be used should be approved from ICMR /NACO /DCGI /NIB/IVD or any other relevant regulatory body.
Page no. 33	**Automated Blood Culture For Mother Lab and Hub Lab**	**Automated Blood Culture For Mother Lab**
	1. Automated Continuous Monitoring Blood Culture System with minimum 40 sample vial capacity and sample position can be upgraded to 160 position. 2. System should be true walk away with a simple user interface and touch screen operations. 3. System should have continuous agitation for optimized recovery of organisms 4. System should have LIS communication capability for quick result information availability along with the capability of blood volume monitoring. 5. System should be based on sensitive fluorescence/colorimetic/ any other recent technology for interpretation of results. 6. System should have the capability for Blood volume monitoring 7. It should have more than 16 algorithms to monitor growth patterns in case of Positive samples 8. System should have enhanced visual indicators both inside and outside the instrument in the form of different colored LEDS to indicate exact station status –available, ongoing, positive, and negative & anonymous 9. The culture media must have strong resin based Antibiotic Removal devices to minimize chances of false negatives due to high antibiotics in specimens and have minimal time to detection of organisms. 10. The Antibiotic Removal Devices must have proven record of antibiotic neutralization at trough, mid and peak levels in the blood specimen. Proof source should be submitted.	1. Automated Continuous Monitoring Blood Culture System with minimum 40 sample vial capacity and sample position can be upgraded to 160 position. 2. System should be true walk away with a simple user interface and touch screen operations. 3. System should have continuous agitation for optimized recovery of organisms 4. System should have LIS communication capability for quick result information availability along with the capability of blood volume monitoring. 5. System should be based on sensitive fluorescence/colorimetic/ any other recent technology for interpretation of results. 6. System should have enhanced visual indicators both inside and outside the instrument in the form of different colored LEDS to indicate exact station status –available, ongoing, positive, and negative & anonymous 7. The culture media must have resin based Antibiotic Removal devices to minimize chances of false negatives due to high antibiotics in specimens and have minimal time to detection of organisms. 8. The Antibiotic Removal Devices must have proven record of antibiotic neutralization at trough, mid and peak levels in the blood specimen. 9. Instrument should have the facility for entering the patient name and sample accession number using bar code reader from a bar coded format

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	11. Instrument should have the facility for entering the patient name and sample accession number using bar code reader from a bar coded format 12. System should provide the option of loading of any culture bottle anywhere without any software intervention in order to get the bottles loaded in the instrument round the clock 13. It should have broth media for supporting growth of aerobic and anaerobic bacteria. 14. The system should be able to support selective growth of yeast and fungus in case of mixed infections. 15. The system should be configured independently for culture of blood and body fluids including low volume sterile fluids. 16. System should have Auto Quality Control and Calibration facility to avoid any manual daily maintenance. User intervention for routine QC/calibration should not be required. 17. Should have special media for Pediatric samples and low volume sterile body fluid samples. 18. Should have special separate media for optimal recovery of yeast, fungi and mycobacterium from Blood samples. 19. Media bottles should be fully compatible with familiar and widely used Vacutainer Holders without the need for a special adapter to improve workflow and safety. 20. System should be supplied along with online UPS with 30 minutes back-up. 21. Should have special Lytic Anaerobic Media for increased detection of partially phagocytised organisms. 22. System should be CE & IVD/ US-FDA approved. 23. System should allow monitoring of graphs for each and every posiyion. 24. The system should have automated quality control and callibration, intervation and reduced sharp hazards. 25. The system should work on 220 volts the system should be supplied with online 3 KVA oe sutaible UPS supply with minimum 2 hrs backup for working/installation. 26. Round the clock loading of culture bottles should be possible without software intervation. 27. The system should come with touch screen inbuilt or external monitor with visual external and internal LED indicators for station status available ongoing positive ,negative and synonymous. 28. The firm must ensure proper demonastration and training to the hospital staff / technician. 29. System should be supplied with 2 ACs to maintain room temperature round the clock and to be maintained by firm to ensure smmoth function of automated culture system. 30. The firm should ensure uninterrupted supply of consumables.	10. System should provide the option of loading of any culture bottle anywhere without any software intervention in order to get the bottles loaded in the instrument round the clock 11. It should have broth media for supporting growth of aerobic and anaerobic bacteria and have special separate media for optimal recovery of yeast, fungi and mycobacterium from Blood samples and Should have special media for Pediatric samples. 12. The system should be configured independently for culture of blood and body fluids including low volume sterile fluids. 13. System should have Auto Quality Control and Calibration facility to avoid any manual daily maintenance. User intervention for routine QC/calibration should not be required. 14. Media bottles should be fully compatible with Vacutainer Holders without the need for a special adapter to improve workflow and safety. 15. System should be CE & US-FDA approved. 16. System should allow monitoring of graphs for each and every position. 17. The system should have automated quality control and calibration, intervention and reduced sharp hazards. 18. The firm must ensure proper demonstration and training to the hospital staff / technician. 19. System should be supplied with 2 ACs to maintain room temperature round the clock and to be maintained by firm to ensure smooth function of automated culture system.
	Newly added	**Automatic Tissue Processor carousal type**
		1. Automatic tissue processor unit for programmable processing of histological tissue specimen provided with vacuum function with approx capacity 100 cassettes. Vacuum pump should be attach with the instruments. 2. Should have user processor unit for programmable parameters like infiltration time, delay time, vacuum on-off, agitation on-off and single or double basket operation 3. system should have an ergonomic control panel with

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		LCD display to show all parameters like program number, duration, time, date, paraffin bath temperature etc. 4. system should have carousal type construction with 12 wax baths. capacity of reagent vessels-1.5 to 2.0 liters. 5. should have wax bath with over temperature (at 80 C) and under temperature cut-off facility for the safety or tissues. 6. should have agitation in 3 sec intervals with on/off function for thorough and even mixing of reagents. 7. system should have storage facility of 9 or more complete programs that can be freely set by the user. programs to include selection of infiltration time, agitation facility, basket selection facility etc. 8. system should come along with keyboard lock by user to avoid inadvertent change of the process parameters during operation. 9. system should have drain time of 60 sec in each station to reduce carry over contamination. 10.system must have programmable infiltration time from 5 minutes to 99 hours 59 minutes in 1 minute increments. 11. system should have delayed start up function to a maximum of 9 days. 12.system must have facility of baskets being automatically immersed in a station during the power failures &b UPS failures. 13.system should have a minimum of 100 users along with a suitable user-list in justification. 14.system should be USFDA & CE Certified. should have appropriate cabinet to keep the instrument and protect from dust etc.
	Newly added	**Specification Fully Automatic Rotary Microtome**
		1.Should have ergonomic design. 2.Hand wheel operation should be motorized as well as manual mode 3.Should have compact dimensions 4.Should Have vertical guidance by zero backlash and maintenance free cross roller bearings 5.Should have electronic precision feed mechanism with stepping motor technology 6.Should have section thickness range from 0.5 up to 100 um. 7.Fine section thickness range from 1.0 to 600 microns. 8.Should have especially smooth running hand wheel. 9.Should have one hand quick clamp change. 10.Should have common low & high profile disposable blade holder. 11.Should have fine orientation with one hand operation and zero positioning 12.Should have easy exchange of specimens. 13.Should have specimen retraction during return travel, can be turned off. 14.Should have two section thickness areas that can be pre selected easy switchable. 15.Should have removable operating panel with full

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		graphic display. 16.Facility of indication of all relevant information such as section thickness, trim thickness, number of sections, section thickness sum. 17.Should have ergonomic one knob operation of the specimen feed with variable speed adjustment. 18.Should have indication of cutting parameters. 19.Should have large section waste tray, covering the entire working area. 20.Should have ergonomically optimized operating elements for non tiring usage. 21.Design with highest demands concerning operational safety and ergonomics. 22.Should have integrated removable storage plate. 23.Should have stepping motor micrometer mechanism. 24.specimen retraction during return travel : 40 um can be turned off 25.Should operate on 220-240 V, 50-60 Hz AC supply. 26.Should have integrated safety fuse. 27.Unit must be USFDA & CE approved 28.Bidder must provide list of installation base of up to 50 units. 29.Should have appropriate cabinet to keep the instrument and protect from dust etc

Revised Complile Sheet of Mother & Hub Lab									
S.N.	Distirct	Mother lab	Hub lab						
1	अजमेर	DH केकडी	SDH किशनगढ़	SDH ब्यावर	SDH नसीराबाद	CHC पीसागन	CHC जवाजा	CHC विजयनगर	
2	अलवर	DH अलवर	SH खेरथल	CHC बहरोड	SH कालाकुआ	CHC राजगढ़	CHC लक्ष्मणगढ	CHC तीजारा	
3	बांसवाडा	DH बासवाडा	CHC कुशलगढ़	CHC आनदपुरी	CHC परतापुर				
4	बांरा	DH बांरा	CHC अंता	CHC केलवाडा	छबडा				
5	बाडमेर	DH बाडमेर	CHC चोहटन	SDH बालोतरा	CHC गूडामलानी				
6	भरतपुर	DH भरतपुर	CHC बयाना	CHC कुहमेर	CHC डीग				
7	भीलवाडा	DH भीलवाडा	CHC मानडलगढ़	CHCमांडल	SDH शाहपुरा				
8	बीकानेर	CHC कोलायत	CHC महाजन	CHC खाजूवाला	नौखा				
9	बूंदी	DH बूंदी	CHC हिन्डोली	तालेडा	नेनवा				
10	चित्तौडगढ़	DH चितोडगढ़	SDH निम्बाहेडा	CHC रावतभाटा	बडीसादडी	बेगू			
11	चुरू	DH चुरू	CHC सरदारसहर	CHC तारानगर	SDH रतनगढ़	SDH सूजानगढ़			
12	दौसा	DH दौसा	CHC लालसोट	CHC महूवा	बांदीकूई				
13	धौलपुर	DH धौलपुर	Sate. बाडी	बसेडी	राजाखेडा				
14	डूंगरपुर	DH डूंगरपुर	CHC आसपुर	CHC बिच्छीवाडा	SDH सागवाडा				
15	हनुमानगढ़	DH हनुमानगढ़	CHC भादरा	रावतसर	सागरीया				
16	गंगानगर	DH गंगानगर	CHC श्रीकरणपुर	CHC पदमपुर	सूरतगढ				
17	जयपुर	SDH कोटपुतली	Sate. चाकसू	CHC शाहपुरा	पावटा	SH सागानेर	चौमू	SDH दूदू	जमवारामगढ
18	जैसलमेर	DH जेसलमेर	CHC पोकरण	CHC सम					
19	जालोर	DH जालौर	CHC सांचोर	भीनमाल	आहोर				
20	झालावाड	SDH झालरापाटन	CHC भवानीमण्डी	पिडावा	खानपुर				
21	झुन्झुनू	DH झुन्झुनु	SDH नवलगढ	CHC चिडावा	खेतडी	बिसाऊ			
22	जोधपुर	SDH फलौदी	CHC ओसीया	CHC पीपाडसिटी	SH डीगाडीकलां	भोपालगढ	बिलाडा		
23	करौली	DH करौली	SDH हिण्डोन	CHC टोडाभीम	CHC गुढाचन्द्रजी				
24	कोटा	CHC सांगोद	CHC इटावा	CHC रामगंजमण्डी	CHC केथुन				
25	नागोर	DH नागौर	SDH डीडवाना	SDH कुचामन सिटी	SDH लांडनू	CHC मेडतासिटी			
26	पाली	DH पाली	CHC जैतराण	CHC रानी	SDH सोजत				
27	प्रतापगढ़	DH प्रतापगढ	CHC धरियावाद	CHC छोटीसादडी	CHC पीपलखूट				
28	राजसमंद	DH राजसमद	SDH नाथद्वारा	CHC आमेट	CHC भीम				
29	स.माधोपुर	DH सवाईमाधोपुर	SDH गगापुर सिटी	बौंली	खण्डार				
30	सीकर	DH सीकर	CHC खण्डेला	CHC फतेहपुर	SDH नीमकाथाना	SH अजीतगढ़	लोसल		
31	सिरोही	DH सिरोही	CHC आबूरोड	शिवगंज	पिण्डवाडा				
32	टोंक	DH टोंक	CHC देवली	निवाई	मालपुरा				
33	उदयपुर	SDH सलूम्बुर	CHC ऋषभदेवजी	CHC झाडोल (फलासिया)	CHC गिडर	CHC बल्लभनगर			

जिला--डूंगरपुर								
S.N.	मदर लैब		हब लैब					
	DH डुंगरपुर		CHC आसपुर		CHC बिच्छीबाडा		SDH सागवाडा	
	Spoke CHC	Spoke PHC	Spoke CHC	Spoke PHC	Spoke CHC	Spoke PHC	Spoke CHC	Spoke PHC
1	सरोदा	पाडवा	पुंजपुर	बनकोडा	गामडी अहाडा	सांवली	चिखली	पीठ
2	ओबरी	भिलूडा	सावला	रामगढ	पुराना हॉस्पिटल डूंगरपुर	कनवा	डूंगरसारण	धमबोला
3	बुचीबाडा	टामटिया		सकानी	पालदेवल	सीसोद	गेजी	रास्ता
4	गलीयाकोट	बिलियाबडगांव		बरोदा (नई)	दामडी	तलाईया	सीमीलवाडा	चाडोली
5		मांडव		मूंगड		मेवाडा		डूंका
6		भासोर		माल		चुण्डावाडा		कुआ
7		खडगदा		पिण्डावल		मेताली		कोचरी
8		ठाकरडा		निठाउआगामडो		सिदारीखैरवाडा		डूंगर
9		पादरा		भेखरेड		देवलखास		चारवाडा
10		घाटाकागांव		रिछा		कछवासा		झोंथरी
11		चितरी		Patela Dispensary		बोखला		सुराता
12		गरियाता				गुमानपुरा		पोहरीखाजूरात
13		जैसला				मजोला		करावाडा
14		झोसावा				आंतरी		गन्धवापाल
15		क्षिरेश्वर				पालमाण्डव		
16						रघुनाथपुरा		
17						फलोज		
18						बासी		
19						पुनाली		

जिला–चूरू

S.N.	मदर लैब		हब लैब							
	DH चूरू		CHC सरदारसहर		CHC तारानगर		SDH रतनगढ़		SDH सुजानगढ	
	Spoke CHC	Spoke PHC	Spoke CHC	Spoke PHC	Spoke CHC	Spoke PHC	Spoke CHC	Spoke PHC	Spoke CHC	Spoke PHC
1	सालासा	धाधेरूबामूवान	बजरंगसर	पुलासर	दूदवाखारा	धीरवासबडा	राजदेलसर	नौसरिय।	सांखू	सिद्धमुख
2	कानोता	चाडवास	जेतसीसर	बोधेरा	घाघू	बॉय	पडीहारा	दाऊदसर	राजगढ	धानोटीबडी
3	बिदासर	लुहारा		शिमला	सहवा	बुच्चावास	गेगासर	बीनादेसरबिदावतान		रामपुराबेरी
4	संडवा	सूडूबडी		भांगासर	भालेरी	चंगोई	रतन नगर	टिडियासर		ददरेवा
5		इंयारा		घडसीसर		सात्यू		भूखरेडी		भेंसली
6		लालगढ		मेहरीराजवीयान				कुसुमदेसर		हमीरवास
7		कातरछोटी		आसलसर				खुदेराबडा		कालरी
8		मनोतसिटी		राजासरबिकान				सेहला		रामसरताल
9		खुडी		बधनाउ				लाछडसर		सुलखानिया
10		गोपालपुरा		जैतासर				बुद्ववाली		धनाऊ
11		बडावर		मालसर				सोमासी		पहाडसर
12		जोगलीया		जयसिंहसर				बिनासर		चांदगोठी
13		भीमसर		फोगाभरथरी,				खण्डवा		चेनपुराछोटा
14		बागसरा आथूना		बादडिया				जोडी		सेउवा
15		गोभासर		रतउसर				लोहसनाबडा		गागडवास
16		मुदडा		बिल्यूबासरामपुरा				सिरसला		PPC Center, Ward No. 7, Near Jain Hospital
17		रजीयासरमीठडा		हामुसर				जसरासर		
18		सुजानगढ़		Agrasen Nagar, Churu				खींवासर		
19				Garh Dispensary				खासोली		
20				Dabla Road				सहनाली		
21				Ward No. 8, Churu				लालासरबणीरोतान		
22				Arjun Club PHC, Sardarsahar				पीथीसर		
23				Bhadarji Ka Kuva PHC, Sardarsahar				सातडा		
24				Subedar Ji ki Tanki, Ward No.13				झारिया		
25				Harijan Basti, Ward No. 2				राणासर		
26				Near Jaleb Shah Baba ka Takiya, Chand Bas Road				सहजुसर		
27				Mandeta Road				ढाढर		
28								कोटवादताल		
29								चलकोइ		
30								जसासर		
31								घण्टेल		
32								पुनसीसर		
33								Ajit Sariya, Eye Hospital, Bhawan Area		

जिला–भीलवाडा

S.N.	मदर लैब		हब लैब					
	DH भीलवाडा		CHC मानडलगढ		CHCमांडल		SDH शाहपुरा	
	Spoke CHC	Spoke PHC	Spoke CHC	Spoke PHC	Spoke CHC	Spoke PHC	Spoke CHC	Spoke PHC
1	गुलाबपुरा	गुरला	कोटडी	बोरडा	बनेडा	दौलतगढ	पनडेर	ाक्करगढ
2	सूवाना	मंगरोप	परोली	नन्दराय	करेडा	अन्टोली	खजूरी	रोपा
3	सागरीया	स्वरूपगंज	काछोला	बिशनिया	बागोर	शिम्भूगढ	जहाजपुर	अमरवासी
4	फूलीयाकला	करोईकाकलां	बिगोद	बडलियास	रायपुर	ब्राह्मणोंकीसरेडी		लुहारीकला
5		आमलीगढपाछ ली	महूवा	सुठेपा	मौखुन्दा	कालियास		आमल्दा
6		भोपालगढगाडर माला	बिजोलीया	आमा	गंगापुर	पाटन		पीपलून्द
7		बडामहुआ		सवाईपुर	सहाडा	मोटरास		सरसियामाय ला
8		आटून		छीपोकाआकोला	पोटला	बेमाली		इटून्डा
9		कनोछकलां		जावल	कोशीधल	चांदरास		
10		राजियास		लाडपुरा	हमीरगढ	ग्यानगढ		
11		कोठिया		बरून्दनी	आसींद	निम्बाहेडाजाटान		
12		खामोर		सिंगोली	बदनोर	भगवानपुरा		
13		ढिकोला		धामनिया		चिताम्बा		
14		बच्छखेडा		मानपुर		लुहारिया		
15		हुरडा		झंझोला		रामपुरियानरेली		
16		कवलियास		यामपुरा		आमली		
17		रूपाहेलीकला		जलिंदरी		महेन्द्रगढ		
18		आगूचा		सलावटिया		लोखाला		
19		सरेरी		कास्या		खांखला		
20						सोनियाना		
21						रायला		
22						रूपाहेलीखुर्द		
23						डाबला		
24						उपरेडा		
25						कोट		
26						झाडोल		
27						आसाहोली		
28						देवरिया		

जिला–बाडमेर								
S.N.	मदर लैब		हब लैब					
	DH बाडमेर		CHC चोहटन		SDH बालोतरा		CHC गूडामलानी	
	Spoke CHC	Spoke PHC	Spoke CHC	Spoke PHC	Spoke CHC	Spoke PHC	Spoke CHC	Spoke PHC
1	जसोल	पारलू	रामसर	मिठडाऊ	बटाडू	भीमडा	धोरीमंना	अरिणयाली
2	पचपदरा	असाडा	गागरिया	केलनोर	सीवाना	झाक	सेडवा	उडासर
3	शिव	किटनोद	समदडी	बावडीकलां,	पाटोदी	नोसर	बाखासर	भीमथल
4	सिणधरी	दूधवा,	धनाउ	बिजराड	कल्याणपुर	पादरू	गदरा रोड	लोहारवा
5	बिसाला	चांदेसर	गिदा	धोनिया	बायतू	रमणियां	देतानी	भदराई
6	रानीगांव	जागसा		तरातरा,		मोलकसर	नोखरा	झडपा,
7	कावास	होडू,		पराडिया		सिमरकियापुरोहितान		भंवार
8	नीमबलकोट	दाखां		भिण्डेकापार		बडनामाजागीर		सारला
9		पायलाकलां		गगाला		नवातला		फागलिया
10		भाटाला		गरडिया		कोरणा,		बामडला
11		खारामहेचान		खण्डीन		सरबडी		गंगासरा
12		गूगा,		सिहाणी		कांकराला		ओगाला
13		भियाड		रामदेवमन्दिर		अरावाचौहान		सोनडी
14		कानासर		हीरेकीढाणी		मडली		भाखरपुरा
15		उन्डू,		कानोड		थोब		गांधवकला
16		सनावडा		परेउ		इन्द्राना		नगर
17		नांद		रतेऊ		कुण्डेल		पिपराली
18		भदरेश		सवाईपदमसिंह				बांड
19		मीठडा		लीलसर				हरसानी
20		चवा		नेतराड				बालेबा गिराव
21		बेरीवालातला		बुरहानकातला				खलीफेकीबावडी
22		सरनू		बामनोरअमीरशाह,				जैसिन्धरगांव
23		सांजटा		भूणिया				जैसिन्धरस्टेशन
24		शिवकर		इटादा				साता
25		भाडखा		अजीत (दूदोकाबाडा)				आडेल
26		मारूडी		करमावास				
27				खण्डप				
28				राखी				

जिला–भरतपुर								
S.N.	मदर लैब		हब लैब					
	DH भरतपुर		CHC बयाना		CHC कुहमेर		CHC डीग	
	Spoke CHC	Spoke PHC	Spoke CHC	Spoke PHC	Spoke CHC	Spoke PHC	Spoke CHC	Spoke PHC
1	खेडली गडासिया	सिनसिनी	वैर	सेवर्	रारहा	अजान	जुरेहरा	घाटा
2	पूंछरी का लोटा	जनुधर	भुसावर	बहनेरा	नदबई	पपरेरा	पहाडी	बिलोन्द
3	नगर	कोडेर	हलैना	बासीखुर्द	चिकसाना	धनवाडा	गोपालगढ	नोनेरा
4	सीकरी पटटी	खोह	रूपवास	बंशीबिरहाना		डेहरा	कामां	गढाजान
5		वहज	उच्चैन	नगलाकल्याणपुर		अस्थावन		लेवडा
6		मानोताकला	रूदावल	जघीना		अम्बार		सहसन
7		मूडिया	बंसीपहाडपुर,	पीपला		सावोरा		सोमका
8		सुन्दरावली	खानवा	जटमासी		पैगोर		राफ
9		बडाखेडाफौजदार		चन्दनपुरा		भटावली		कैथवाडा
10		गुलपाडा		बिनऊआ		विजयनगर		आंधवाडी
11		डायनाकाबास		सलीमपुराकला		अभोर्रा		
12				निठार		हन्तेरा		
13				पथैंना		पहाडसर		
14				बल्लभगढ		बरोलीछार		
15				अलीपुर		लखनपुर		
16				घरसोनी		भदिरा		
17				सरसैना		गढी		
18				मूडियाललीता				
19				रन्धीरगढ				
20				बाछरेन				
21				जीवन्द				
22				बीजवाडी				
23				छौकरवाडा				
24				झालाटाला				
25				सिघाडा				
26				बन्दबरेठा				
27				ब्रह्मावाद				
28				झीलकाबाडा				
29				कलसाडा				
30				महरावर				
31				कपूरामलूका				
32				गढीब्राजना				

जिला–पाली								
S.N.	मदर लैब		हब लैब					
	DH पाली		CHC जैतराण		CHC रानी		SDH सोजत	
	Spoke CHC	Spoke PHC	Spoke CHC	Spoke PHC	Spoke CHC	Spoke PHC	Spoke CHC	Spoke PHC
1	खारची	धानला	रायपुर	निम्बोल	खोड	बागोल	बेडा	सेवाडी
2	सिरियारी	राणावास	कुशालपुरा	आनन्दपुरकालु	कौसेलाव	दादाई	सुमेरपुर	फालना
3	जोजावर	बांता	निमाज	बालुन्दा	देसूरी	नरलाई	तख्तगढ	नाणा
4	रोहट	आऊवा	रास	पाटवा	नाडोल	पनोता	साण्डेराव	भीमाना
5	सोजतरोड	कंटालिया		बेडकलां		बुसी	सादडी	मुण्डारा
6	बगडी	धामली		कुडकी		जवाली	बाली	बीसलपुरा
7	चण्डावलनगर	सारण		लाम्बिया		खिवाडा		लुनावा
8	घाणेराव	पांचेटिया		पिपाडा		Pratapnagar		बीजापुर
9	मणिहारी (नवीन)	मुसालिया		बलाडा		Housing board		शिवतालाब
10		जाडान		मोहराई		City Dispensary		चामुण्डेरी
11		गुडारामसिंह		डिगराना		Tagore Road		काकराडी
12		जैतपुर		फालका		Mandiya Road		बाकली
13		चेण्डा		भूमालिया				पावा
14		खारडा		आसरलाई				बामनेरा
15		वायद		सेवरिया				चानोद
16		झींतडा		पीपलियांकलां				नोवी
17		गागूडा		देवलीकलां				सलोदरिया
18		सियात		गिरी				भैरून्दा
19		हरियामाली		बर				धणा
20		अटबडा		बावरा				
21		धाकडी		कानुजा				
22		चाडवास		कोटकिराना				
23		सरदारसमन्द		बासनीदूधवाडिया				
24		गुढाबींजा		तलाईकाचौराहा (रामगढचांग)				
25		खोडिया						
26		खेरवा						
27		लाम्बिया						
28		गुन्दोज						
29		गुडाएण्दला						
30		डेन्डा						

जिला–सीकर

S.N.	मदर लैब		हब लैब									
	DH सीकर		CHC खण्डेला		CHC फतेहपुर		SDH नीमकाथाना		SH अजीतगढ़		CHC लोसल	
	Spoke CHC	Spoke PHC	Spoke CHC	Spoke PHC	Spoke CHC	Spoke PHC	Spoke CHC	Spoke PHC	Spoke CHC	Spoke PHC	Spoke CHC	Spoke PHC
1	गुहाला	सिरोही	थोई	झाडली	रामगढसेठान	ताजसर	पिपराली	मुण्डरू		रायपुरजागीर	कुदन	गनेडी
2	गणेश्वर	भूदोली	कावट	होद	बेसवा	ढाढण	पलसाना	दिवराला		टटेरा	घाँद	गाडोदा
3	जीलो (नवीन)	चला	जाजोद	कोटडीलुहारवास	रोलसाहबसर	बिरानिया	पलासरा (नवीन)	नागल		दीपावास	कासली (नवीन)	पनलावा
4	पाटन	मावण्डाखुर्द		चौकडी		दांतरू	गुगारा (नवीन)	आभावास		सावलपुरातंवरान	खाटूश्यामजी	पाटोदा
5		भगेगा		हाथीदेहमयहरदासकाबास		तिहावली	कोलीडा	सरगोठ		चीपलाटा	दांता	मिर्जावास
6		प्रीतमपुरी		गोरिया		बीबीपुरबडा	तारपुरा	जोरावरनगर		लादीकाबास	खाचरियावास	मंगलूणा
7		नीमकाथानाछावनी		गढभोपजी		कायमसर	रींगस	ढाबावाली		टोडा	लक्ष्मणगढ	जसरासर
8		डाबला		ठीकरिया		गारीण्डा	महरोली	लिसाडिया		दिवराला	नेछवा	खीरवा
9		डोकन		बामणवास		हरसावाबडा	मउ (नवीन)	हासपुर		ढाबावाली	जाजोद	पालडी
10		दलपतपुरा		भादवाडी		जालव	श्रीमाधोपुर	जुगराजपुरा				सुतोद
11		हसामपुर		गुरारा		भगासरा		दादियारामपुरा				सुठोट
12		रायपुरपाटन		हरदासकाबास		Old Ayurved Bhawan, Near Rajkiya Subhash Vidhyalya, Nawalgarh Bus Stand		रानोली				दीसनाऊ
13						Raghunath Pura Area, NH-11		शिश्यु				रोरूबडी
14								रेवासातीर्थ				बाटडानाऊ
15								सिंघासन				बलारा
16								यामगढ				रसीदपुरा
17								बेरी				फतेहपुरा
18								बाजोर				झिंगरछोटी
19								राजपुरा				फागलवा
20								जुराठडा				दूजोद
21								दादीया				नागवा
22								नाडा				किरडोली
23								CD no.1(Salasar bus stand),				काशीकावास
24								CD no.2 (Kayashth mohalla)				मण्डोता
25								Ambedkar Nagar, Fatehpur Road, (Mathur Colony)				पलथाना
26								Industrial Area, Jaipur Road				कुण्डलपुर
27								Near R T O Office, Piprali Road				सरवडी
28												सीगरावट
29												डासरोली
30												बानूडा
31												कोछोर
32												खूड
33												पचार
34												बाय
35												दांतारामगढ़
36												रूपगढमयरेहट

जिला–सीकर												
S.N.	मदर लैब		हब लैब									
	DH सीकर		CHC खण्डेला		CHC फतेहपुर		SDH नीमकाथाना		SH अजीतगढ़		CHC लोसल	
	Spoke CHC	Spoke PHC	Spoke CHC	Spoke PHC	Spoke CHC	Spoke PHC	Spoke CHC	Spoke PHC	Spoke CHC	Spoke PHC	Spoke CHC	Spoke PHC
37												गोवटी
38												संगरवा
39												जीणमाता
40												लामिया
41												उमाडा
42												निमेडा
43												Khel Stadium Ke Pas