

REQUEST FOR PROPOSAL (RFP)

For

Selection of Agencies for Providing Annual Maintenance Services for BSL-3 Lab facility, BSC, Laminar Flow and TB Laboratory Equipment

RFP No.: SAMS/FIND/Lab Equip/AMC/1/2016

Country: INDIA

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| Issuance Date | 29th May, 2016 |
| Pre-Proposal Conference Date, Time and Place | 9th June, 2016 at 1500 hours at Strategic Alliance Management Services Pvt. Ltd. B01-B03, Vardhman Diamond Plaza, Community Centre, D. B. Gupta Road, Paharganj, New Delhi – 110055 |
| Last Date and Time for receipt of request for clarifications | 20th June, 2016 by 1700 hours <i>E-mail ID:</i> procurement@samsconsult.com |
| Last Date, Time and Place for receipt of Bids | 30th June, 2016 till 1500 hours at Strategic Alliance Management Services Pvt. Ltd. B01-B03, Vardhman Diamond Plaza, Community Centre, D. B. Gupta Road, Paharganj, New Delhi - 110055 |
| Date, Time and Place for opening of Technical bids | 30th June, 2016 at 1530 hours at Strategic Alliance Management Services Pvt. Ltd. B01-B03, Vardhman Diamond Plaza, Community Centre, D. B. Gupta Road, Paharganj, New Delhi - 110055 |

Project Name: Procurement of Equipment, goods, works and services for Foundation for Innovative New Diagnostics (FIND), India under GFATM financed Project

Employer:



STRATEGIC ALLIANCE

Management Services Private Limited

Head Office: 1/1B, Choudhary Hetram House, Bharat Nagar, New Friends Colony, New Delhi - 110 025
Ph:011-41653612, 41011564; Email: procurement@samsconsult.com

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Reference No: **RFP Ref No.: SAMS/FIND/Lab Equip/AMC/1/2016**

Project Name: **Procurement of Equipment, goods, works and services for Foundation for Innovative New Diagnostics (FIND), India under GFATM financed Project**

Title of Consulting Services: **Selection of Agencies for Providing Annual Maintenance Services for BSL-3 Lab Facility, BSC, Laminar Flow and TB Laboratory Equipment under RNTCP, Ministry of Health & Family Welfare, Govt. of India**

Section 1. Letter of Invitation

To,
Agencies

Dear Sir/Madam,

The **Strategic Alliance Management Services Pvt. Ltd. (SAMS)**, Procurement Agency (hereinafter called “**Employer**”) appointed by **Foundation for Innovative New Diagnostics (FIND)** – an international not for profit Organization. FIND is working in the field of new diagnostic techniques in HIV, TB and Sleeping Sickness all over the world and particularly MDR-TB in India. FIND has received grant from the Global Fund for Aids, TB and Malaria (GFATM) as Sub-Recipient (SR) towards the cost of upgrading/ strengthening and maintaining the laboratories to Bio Safety Level 3 (BSL Level 3) for detection of cases affected with MDR-TB.

The employer is pleased to invite Proposals from prospective Consultants **for providing Annual Maintenance Services for BSL-3 Lab Facility, BSCs, Laminar Flow and TB Laboratory Equipment** in accordance with the requirements and process as set out in this Request for Proposal (RFP).

A firm will be selected under **Combined Quality Cum Cost Based System (CQCCBS)** and procedures described in this RFP.

The RFP includes the following documents:

- Section 1 - Letter of Invitation
- Section 2 - Information to Consultants (including Data Sheet)
- Section 3 - Technical Proposal - Standard Forms
- Section 4 - Financial Proposal - Standard Forms
- Section 5 - Terms of Reference
- Section 6 - Standard Forms of Contract

A complete set of the RFP in English can be obtained from SAMS office at the address given below, or can be downloaded from our website i.e. www.samsconsult.com.

Strategic Alliance Management Services Pvt. Ltd.
B01-B03, Vardhman Diamond Plaza, Community Centre,
D. B. Gupta Road, Paharganj, New Delhi – 110055

The RFP may be obtained from SAMS office after payment of **non-refundable fee of Rs. One Thousand Five Hundred only (Rs. 1,500/-)** through DD drawn in favour of **Strategic Alliance Management Services Pvt. Ltd.** payable at **New Delhi**.

Consultants who downloaded the RFP documents from the website are also required to enclose DD for the prescribed fee in favour of **Strategic Alliance Management Services Pvt. Ltd. payable at New Delhi** along with their proposal.

Consultants must submit the **Earnest Money Deposits (EMD)** as per the clause no. 12 under Instructions to Consultants (Section 2.), otherwise their proposal will be summarily rejected.

Consultants are advised to read the RFP document carefully and prepare their Proposal in accordance with the requirements and process as set out in this RFP. Please inform us in writing at procurement@samsconsult.com upon receipt:-

- (a) that you received the Letter of Invitation and RFP document; and
- (b) that you will submit the proposal by the date and time indicated in part II of the information to consultants called project specific information.

We look forward to receiving your Proposal.

Yours sincerely,

Sanjay Rastogi

Associate Director (MCS)

Strategic Alliance Management Services Pvt. Ltd.

B01-B03, Vardhman Diamond Plaza, Community Centre,

D. B. Gupta Road, Paharganj, New Delhi - 110055

Phone No. +91-11-43580626-27, 8800257774, 9958994797

E mail ID: procurement@samsconsult.com

Section 2

Instructions to Consultants Part I

Standard

- 1. Definitions**
- (a) "Employer" means the Procurement Agency, appointed by FIND, India and has been entrusted with responsibility of invitation and evaluation of bids, selection of Consultant, and award of Contract for the Services, and monitoring.
 - (b) "Consultant" means any entity or person or associations of person who have been short-listed to submit their proposals that may provide or provides the Services to the Employer under the Contract.
 - (c) "Contract" means the Contract signed by the Parties and all the attached documents listed in its Clause 1, that is the General Conditions (GC), the project Specific Conditions (SC), and the Appendices.
 - (d) "Project specific information" means such part of the Instructions to Consultants used to reflect specific project and assignment conditions.
 - (e) "Day" means calendar day.
 - (f) "Government" means the Government of India.
 - (g) "Instructions to Consultants" (Section 2 of the RFP) means the document which provides Consultants with all information needed to prepare their proposals).
 - (h) "LOI" (Section 1 of the RFP) means the Letter of Invitation being sent by the Employer to all prospective consultants.
 - (i) "Personnel" means professionals and support staff provided by the Consultant or by any Sub-Consultant and assigned to perform the Services or any part thereof; "Foreign Personnel" means such professionals and support staff who at the time of being so provided had their domicile outside the Government's country; "Domestic Personnel" means such professionals and support staff who at the time of being so provided had their domicile in India.
 - (j) "Proposal" means the Technical Proposal and the Financial Proposal.
 - (k) "RFP" means the Request For Proposal prepared by the Employer for the selection of Consultants, based on the SRFP.
 - (l) "SRFP" means the Standard Request for Proposals, which must be used by the Employer as a guide for the preparation of the RFP.
 - (m) "Assignment / job" means the work to be performed by the Consultant pursuant to the Contract.
 - (n) "Sub-Consultant" means any person or entity with whom the Consultant subcontracts any part of the Assignment/job.
 - (o) "Terms of Reference" (TOR) means the document included in the RFP as Section 5 which explains the objectives, scope of work, activities, tasks to be performed, respective responsibilities of the Employer and the Consultant, and expected results and deliverables of the Assignment/job.
- 2. Introduction**
- 2.1 The Employer named in the Part II Data Sheet will select a consulting firm / organization (the Consultant), in accordance with the method of selection specified in the Part II Data Sheet.
 - h
 - 2.2 The name of the assignment/Job as been mentioned in Part II Data Sheet. Detailed scope of the assignment/ job has been described in the Terms of Reference in Section 5.

- 2.3 The date, time and address for submission of the proposals has been given in Part II Data Sheet.
- 2.4 The prospective Consultants are invited to submit Proposal, for consulting Assignment/job named in the Part II Data Sheet. The Proposal will be the basis for contract negotiations and ultimately for a signed Contract with the selected Consultant.
- 2.5 Consultants should familiarize themselves with Local conditions and take them into account in preparing their Proposals. To obtain first-hand information on the Assignment / job and Local conditions, Consultants are encouraged to meet the Employer's representative named in part II Data Sheet before submitting a proposal and to attend a **pre-proposal meeting** if one is specified in the Part II Data Sheet. Attending the pre-proposal meeting is optional. Consultants should contact the Employer's representative to coordinate their visit or to obtain additional information on the pre-proposal meeting. Consultants should ensure that these representatives are advised of the visit in adequate time to allow them to provide appropriate support.
- 2.6 The Employer will provide at no cost to the Consultants the inputs and facilities specified in the Part II Data Sheet, assist the consultants in obtaining licenses and permits needed to carry out the Assignment/job, and make available relevant project data and reports.
- 2.7 Consultants shall bear all costs associated with the preparation, visit schedules, submission of proposals and contract negotiation. The Employer is not bound to accept any proposal, and reserves the right to annul the selection process at any time prior to Contract award, without thereby incurring any liability to the Consultants.

3. Eligibility of Association of consultants and Sub-Consultants

- 3.1 If the consultant had formed an association of consultants, each member of the association of consultant shall be evaluated as per the qualification/ eligibility criteria set forth in Part II data Sheet. The combined score of the each member of the association of consultant shall be taken into account for evaluation purpose. If any member of the association of consultants is dropped at the RFP stage, such a association of consultant is liable to be rejected by the Employer. However, the Employer, at its sole discretion, may decide to evaluate for short-listing such association of consultant without considering the strength of the dropped member and if found eligible, may allow such association of consultant to submit their proposal.
- 3.2 A consultant may associate with consultants and /or individual expert at the time of submission of proposal. Under such circumstances each member of the association of consultant shall be evaluated as per the qualification/ eligibility criteria set forth in Part II data Sheet. The combined score of the each member of the association of consultant shall be taken into account for evaluation purpose. However, the lead member of the association of the consultant shall be the consultant who has greater expertise and capacity to execute the project and Employer shall deal with only the lead member for the purpose of this assignment. Although the contract shall be signed by all the members of the associations of the consultants, the lead member of the association of the consultant shall be responsible and liable to the Employer for every aspects of their proposal, contract etc.

4. Clarification and Amendment of RFP Documents

- 4.1 Consultants may request a clarification on any clause of the RFP documents up to the number of days indicated in the Part II Data Sheet before the proposal submission date. Any request for clarification must be sent in writing, or by standard electronic means to the Employer's address indicated in the Part II Data Sheet. The Employer will respond in writing, or by standard electronic means and will send written copies of the response (including an explanation of the query but without identifying the source of inquiry) to all Consultants. Should the Employer deem it necessary to amend the RFP as a result of a clarification, it shall do so following the procedure under para. 4.2 below.
- 4.2 At any time before the submission of Proposals, the Employer may amend the RFP by issuing an addendum in writing or by standard electronic means. The addendum shall be sent to all Consultants and will be binding on them. Consultants shall acknowledge receipt of all amendments. To give Consultants reasonable time in which to take an amendment into account in their Proposals the Employer may, if the amendment is substantial, extend the deadline for the submission of Proposals.

5. Conflict of Interest

- 5.1 Employer requires that Consultants provide professional, objective, and impartial advice and at all times hold the Employer's interests paramount, strictly avoid conflicts with other Assignment/jobs or their own corporate interests and act without any consideration for future work.
- 5.2 Without limitation on the generality of the foregoing, Consultants, and any of their affiliates, shall be considered to have a conflict of interest and shall not be recruited, under any of the circumstances set forth below:

Conflicting activities : (i) A firm that has been engaged by the Employer to provide goods, works or Assignment/job other than consulting Assignment/job for a project, and any of its affiliates, shall be disqualified from providing consulting Assignment/job related to those goods, works or Assignment/job. Conversely, a firm hired to provide consulting Assignment/job for the preparation or implementation of a project, and any of its affiliates, shall be disqualified from subsequently providing goods or works or Assignment/job other than consulting Assignment/job resulting from or directly related to the firm's consulting Assignment/job for such preparation or implementation. For the purpose of this paragraph, Assignment/job other than consulting Assignment/job are defined as those leading to a measurable physical output, for example surveys, exploratory drilling, aerial photography, and satellite imagery.

Conflicting Assignment/job; (ii) A Consultant including its Personnel and Sub- Consultants) or any of its affiliates shall not be hired for any Assignment/job that, by its nature, may be in conflict with another Assignment/job of the Consultant to be executed for the same or for another Employer. For example, a Consultant hired to prepare engineering design for an infrastructure project shall not be engaged to prepare an independent environmental assessment for the same project, and a Consultant assisting an Employer in the privatization of public assets shall not purchase, nor advice purchasers of, such assets. **Similarly, a Consultant hired to prepare Terms of Reference for an Assignment/job should not be hired for the Assignment/job in question.**

Conflicting relationships; (iii) A Consultant (including its Personnel and Sub-Consultants) that has a business or family relationship with a member of the Employer's staff who is directly or indirectly involved in any part of (i) the preparation of the Terms of Reference of the Assignment/job, (ii) the selection process for such Assignment/job, or (iii) supervision of the Contract, may not be awarded a Contract, unless the conflict stemming from this relationship has been resolved in a manner acceptable to the Employer throughout the selection process and the execution of the Contract.

5.3 Consultants have an obligation to disclose any situation of actual or potential conflict that impacts their capacity to serve the best interest of their Employer, or that may reasonably be perceived as having this effect. Any such disclosure shall be made as per the Standard forms of technical proposal provided herewith. If the consultant fails to disclose said situations and if the Employer comes to know about any such situation at any time, it may lead to the disqualification of the Consultant during bidding process or the termination of its Contract during execution of assignment.

5.4 No agency or current employees of the Employer shall work as Consultants under their own ministries, departments or agencies.

6. Unfair Advantage
7. Proposal

6.1 –Deleted–

7.1 The Consultants may only submit one proposal. If a Consultant submits or participates in more than one proposal, such proposals shall be disqualified. However, this does not limit the participation of the same Sub-Consultant, including individual experts, to more than one proposal.

8. Proposal Validity

8.1 The Part II Data Sheet to consultant indicates how long Consultants' Proposals must remain valid after the submission date. During this period, Consultants shall maintain the availability of Professional staff nominated in the Proposal and also the financial proposal unchanged. The Employer will make its best effort to complete negotiations within this period. Should the need arise, however, the Employer may request Consultants to extend the validity period of their proposals. Consultants who agree to such extension shall confirm that they maintain the availability of the Professional staff nominated in the Proposal and their financial proposal remain unchanged, or in their confirmation of extension of validity of the Proposal, Consultants could submit new staff in replacement, who would be considered in the final evaluation for contract award. Consultants who do not agree have the right to refuse to extend the validity of their Proposals, under such circumstance the Employer shall not consider such proposal for further evaluation.

9. Preparation of Proposals

9.1 The Proposal as well as all related correspondence exchanged by the Consultants and the Employer, shall be written in English language, unless specified otherwise.

9.2 In preparing their Proposal, Consultants are expected to examine in detail the documents comprising the RFP. Material deficiencies in providing the information requested may result in rejection of a Proposal.

9.3 While preparing the Technical Proposal, Consultants must give particular attention to the following:

- (a) If a Consultant considers that it may enhance its expertise for the Assignment/job by associating with other Consultants in sub-consultancy, it may associate with other competent Consultant.
- (b) The estimated number of Professional staff-months for the Assignment/job is as shown in the Part II Data sheet. However, the Proposal shall be based on the number of Professional staff-months or budget estimated by the Consultants. While making the proposal, the consultant must ensure that he proposes the minimum number and type of experts as sought by the Employer, failing which the proposal shall be considered as non-responsive.
- (c) Alternative professional staff shall not be proposed, and only one curriculum vita (CV) may be submitted for each position mentioned.

9.4 Depending on the nature of the Assignment/job, Consultants are required to submit a Technical Proposal (TP) in forms provided in Section-III. The Part II Data sheet in Section-II indicates the formats of the Technical Proposal to be submitted. **Submission of the wrong type of Technical Proposal will result in the Proposal being deemed non-responsive.** The Technical Proposal shall provide the information indicated in the following paras from (a) to (g) using the attached Standard Forms (Section 3). Form Tech – I in Section-III is a sample letter of technical proposal which is to be submitted along with the technical proposal.

- (a) (i) A brief description of the consultant's organization and in the case of a consortium/ joint venture, of each partner, will be provided in Form Tech-2. In the same Form, the consultant and in the case of a consortium/ joint venture, each partner will provide details of experience of assignments which are similar to the proposed assignment/ job as per the terms of reference.. For each Assignment/job, the outline should indicate the names of Sub-Consultants/ Professional staff who participated, duration of the Assignment/job, contract amount, and Consultant's involvement. Information should be provided only for those Assignment/jobs for which the Consultant was legally contracted by the Employer as a corporation or as one of the major firms within a joint venture. Assignment/jobs completed by individual Professional staff working privately or through other consulting firms cannot be claimed as the experience of the Consultant, or that of the Consultant's associates, but can be claimed by the Professional staff themselves in their CVs. Consultants should be prepared to substantiate the claimed experience along with the proposal and must submit letter of award / copy o contract for all the assignments mentioned in the proposal.
- (b) (ii) Comments and suggestions on the Terms of Reference including workable suggestions that could improve the quality/ effectiveness of the Assignment/job; and on requirements for counterpart staff and facilities including: administrative support, office space, Domestic transportation, equipment, data, etc. to be provided by the Employer (Form TECH-3 of Section 3).

- (c) (iii) A description of the approach, methodology and work plan for performing the Assignment/job covering the following subjects: technical approach and methodology, work plan, and organization and staffing schedule. Guidance on the content of this section of the Technical Proposals is provided under Form TECH-4 of Section 3. The work plan should be consistent with the Work Schedule (Form TECH-8 of Section 3) which will show in the form of a bar chart the timing proposed for each activity.
- (d) The list of the proposed Professional staff team by area of expertise, the position that would be assigned to each staff team member and their tasks is to be provided in Form TECH-5 of Section 3.
- (e) Estimates of the staff input needed to carry out the Assignment/job needs to be given in Form TECH-7 of Section 3. The staff-months input should be indicated separately for each location where the consultants have to work and/ or provide their key staff.
- (f) CVs of the Professional staff as mentioned in Para 9.4 (d) above signed by the staff themselves or by the authorized representative of the Professional Staff (Form TECH-6 of Section 3).
- (g) A detailed description of the proposed methodology and staffing for training needs to be given, if the Part II Data sheet specifies training as a specific component of the Assignment/job.

9.5 The Technical Proposal shall not include any financial information. A Technical Proposal containing financial information may be declared non responsive.

9.6 **Financial Proposals:** The Financial Proposal shall be prepared using the attached Standard Forms (Section 4). It shall list all costs associated with the Assignment/job, including (a) remuneration for staff and (b) reimbursable expenses indicated in the Part II Data sheet. If appropriate, these costs should be broken down by activity and, if appropriate, into foreign (if applicable) and domestic expenditures. The financial proposal shall not include any conditions attached to it and any such conditional financial proposal shall be rejected summarily.

10. Taxes

10.1 The Consultant shall fully familiarize themselves about the applicable to Domestic taxes (such as: value added or sales tax, service tax or income taxes, duties, fees, levies) on amounts payable by the Employer under the Contract. All such taxes must be included by the consultant in the financial proposal.

11. Currency

11.1 Consultants shall express the price of their Assignment/job in India Rupees. [In case of assignment where payment in foreign currency are allowed to be made, the consultants are free to make their quote in any foreign currency. The employer shall mention the provision regarding conversion of such foreign currency to Indian Rupees]

12. Earnest Money Deposit (EMD) and BID

12.1 Earnest Money Deposit

- I. An EMD of **amount as given below for each Schedule under RFP**, in the form of DD drawn in favor of the Strategic Alliance Management Services Pvt. Ltd., and payable at New Delhi, must be submitted along with the Proposal.

Processing Fees

The Schedule wise EMD applicable shall be as given below:-

- a. **Schedule I-** INR 20,000/-
- b. **Schedule II-** INR 20,000/-
- c. **Schedule III-** INR 20,000/-
- d. **Schedule IV-** INR 20,000/-
- e. **Schedule V-** INR 10,000/-
- f. **Schedule VI-** INR 10,000/-
- g. **Schedule VII-** INR 5,000/-
- h. **Schedule VIII-** INR 15,000/-
- i. **Schedule IX-** INR 20,000/-
- j. **Schedule X-** INR 20,000/-
- k. **Schedule XI-** INR 20,000/-
- l. **Schedule XII-** INR 20,000/-
- m. **Schedule XIII-** INR 5,000/-

- II. **Proposals not accompanied by EMD shall be rejected as non-responsive.**
- III. No interest shall be payable by the Employer for the sum deposited as earnest money deposit.
- IV. No bank guarantee will be accepted in lieu of the earnest money deposit.
- V. The EMD of the unsuccessful bidders would be returned back within one month of signing of the contract.

12.2 The EMD shall be forfeited by the Employer in the following events:

- I. If Proposal is withdrawn during the validity period or any Extension agreed by the consultant thereof.
- II. If the Proposal is varied or modified in a manner not acceptable to the Employer after opening of Proposal during the validity period or any extension thereof.
- III. If the consultant tries to influence the evaluation process.
- IV. If the First ranked consultant withdraws his proposal during negotiations (Failure to arrive at consensus by both the parties shall not be construed as withdrawal of proposal by the consultant).

13. Bid Processing Fees

All consultants are required to pay **Rs. 1,500/- towards Bid Processing Fees** in the form of demand Draft drawn in favor of Employer, (Strategic Alliance Management Services Pvt. Ltd., payable at New Delhi). The Bid Processing Fee is Non-Refundable.

Please note that the Proposal, which does not include the bid processing fees, would be rejected as non-responsive.

14. Submission, Receipt and Opening of Proposals

14.1 The original proposal, both technical and Financial Proposals shall contain no interlineations or overwriting, except as necessary to correct errors made by the Consultants themselves. The person who signed the proposal must initial such corrections. Submission letters for both Technical and Financial Proposals should respectively be in the format of TECH-1 of Section 3, and FIN-1 of Section 4.

14.2 An authorized representative of the Consultants shall initial all pages of the original Technical and Financial Proposals. The authorization shall be in

the form of a written power of attorney accompanying the Proposal or in any other form demonstrating that the representative has been dully authorized to sign. The signed Technical and Financial Proposals shall be marked "ORIGINAL".

- 14.3 The original and all copies of the Technical Proposal shall be placed in a sealed envelope clearly marked "TECHNICAL PROPOSAL" Similarly, the original Financial Proposal shall be placed in a sealed envelope clearly marked "FINANCIAL PROPOSAL" followed by the name of the Assignment/job. The envelopes containing the Technical Proposals, Financial Proposals, EMD and bid processing fees shall be placed into an outer envelope and sealed. This outer envelope shall bear the submission address, reference number be clearly marked "DO NOT OPEN, BEFORE [insert the time and date of the opening indicated in the Data sheet]". The Employer shall not be responsible for misplacement, losing or premature opening if the outer envelope is not sealed and/or marked as stipulated. This circumstance may be case for Proposal rejection. **If the Financial Proposal is not submitted in a separate sealed envelope duly marked as indicated above, this will constitute grounds for declaring the Proposal non-responsive.**
- 14.4 The Proposals must be sent to the address/addresses indicated in the Data sheet and received by the Employer no later than the time and the date indicated in the Data sheet, or any extension to this date in accordance with para 4.2 above. Any proposal received by the Employer after the deadline for submission shall be returned unopened.
- 14.5 The Employer's Bid Opening committee shall conduct the opening of the Technical Proposals in the presence of Consultants' authorized representatives who choose to attend. The opening date, time and the address are stated in the **Data Sheet**. The envelopes with the Financial Proposal shall remain sealed and shall be securely stored with a reputable public auditor or independent authority until they are opened in accordance with Clause 15.5 of the ITC.
- 14.6 At the opening of the Technical Proposals the following shall be read out: (i) the name and the contact details of the Consultant or, in case of a Joint Venture, the name of the Joint Venture, the name of the lead member and the names of all members; (ii) the presence or absence of a duly sealed envelope with the Financial Proposal; (iii) any modifications to the Proposal submitted prior to proposal submission deadline.

15. Proposal Evaluation

- 15.1 From the time the Proposals are opened to the time the Contract is awarded, the Consultants should not contact the Employer on any matter related to its Technical and/or Financial Proposal. Any effort by Consultants to influence the Employer in the examination, evaluation, ranking of Proposals, and recommendation for award of Contract may result in the rejection of the Consultants' Proposal.
- 15.2 The employer has constituted a Consultant Selection Committee (CSC) which will carry out the entire evaluation process.

15.3 Evaluation of Technical Proposals:

CSC while evaluating the Technical Proposals shall have no access to the Financial Proposals until the technical evaluation is concluded and the competent authority accepts the recommendation.

15.4 The CSC shall evaluate the Technical Proposals on the basis of their responsiveness to the Terms of Reference and by applying the evaluation criteria, sub-criteria specified in the Data sheet. In the first stage of evaluation, a Proposal shall be rejected if it is found deficient as per the requirement indicated in the Data sheet for responsiveness of the proposal. Only responsive proposals shall be further taken up for evaluation. Evaluation of the technical proposal will start first and at this stage the financial bid (proposal) will remain **unopened**. The qualification of the consultant and the evaluation criteria for the technical proposal shall be as defined in the Data sheet.

15.5 Public opening & evaluation of the Financial Proposals: Financial proposals of only those firms who are technically qualified shall be opened publicly on the date & time notified latter in writing to those Consultants that have achieved the minimum overall technical score and inform them for the date, time and location for the opening of the Financial Proposals. The opening date should allow the Consultants sufficient time to make arrangements for attending the opening. Financial Proposals shall be opened in the presence of the Consultants' representatives who choose to attend. The name of the Consultants, their technical score (if required) and their financial proposal shall be read aloud.

15.6 The CSC will correct any computational errors. When correcting computational errors, in case of discrepancy between a partial amount and the total amount, or between word and figures, the former will prevail. In addition to the above corrections the items described in the Technical Proposal but not priced, shall be assumed to be included in the prices of other activities or items. In case an activity or line item is quantified in the Financial Proposal differently from the Technical Proposal, (i) if the Time-Based form of contract has been included in the RFP, the Evaluation Committee shall correct the quantification indicated in the Financial Proposal so as to make it consistent with that indicated in the Technical Proposal, apply the relevant unit price included in the Financial Proposal to the corrected quantity and correct the total Proposal cost, (ii) if the Lump-Sum form of contract has been included in the RFP, no corrections are applied to the Financial Proposal in this respect. If permitted under RFP to quote in any currency other than Indian Rupees, **prices shall be converted to Indian Rupees using the selling rates of exchange, source and reference date indicated in the Data sheet. Normally, the date will be the date of opening of the tender unless specified otherwise in the Data sheet.**

15.7 After opening of financial proposals, appropriate selection method shall be applied to determine the consultant who will be declared winner and be eligible for award of the contract. The methods of selections are described in the Data Sheet [The employer shall mention here which method out of all listed method shall be applied for selection of consultant for this assignment / job]. This selected consultant will then be invited for negotiations, if considered

necessary.

16. Negotiations

- 16.1 Negotiations will be held at the date, time and address intimated to the qualified and selected bidder. The invited Consultant will, as a pre-requisite for attendance at the negotiations, confirm availability of all Professional staff. Representatives conducting negotiations on behalf of the Consultant must have written authority to negotiate and conclude a Contract.
- 16.2 Technical negotiations: Negotiations will include a discussion of the Technical Proposal, the proposed technical approach and methodology, work plan, and organization and staffing, and any suggestions made by the Consultant to improve the Terms of Reference. The Employer and the Consultants will finalize the Terms of Reference, staffing schedule, work schedule, logistics, and reporting. These documents will then be incorporated in the Contract as "Description of Assignment/job". Special attention will be paid to clearly defining the inputs and facilities required from the Employer to ensure satisfactory implementation of the Assignment/job. The Employer shall prepare minutes of negotiations which will be signed by the Employer and the Consultant.
- 16.3 Financial negotiations : After the technical negotiations are over, financial negotiations should be carried out in order to reflect any change in financials due to change in scope of work or due to clarification on any aspect of the technical proposal during the technical negotiations. Under no circumstance, the financial negotiation shall result in to increase in the price originally quoted by the consultant. Unless there are exceptional reasons, the financial negotiations will involve neither the remuneration rates for staff nor other proposed unit rates. For other methods, Consultants will provide the Employer with the information on remuneration rates described in the Appendix attached to Section 4 - Financial Proposal - Standard Forms of this RFP.
- 16.4 Availability of Professional staff/experts: Having selected the Consultant on the basis of, among other things, an evaluation of proposed Professional staff, the Employer expects to negotiate a Contract on the basis of the Professional staff named in the Proposal. Before contract negotiations, the Employer will require assurances that the Professional staff will be actually available. The Employer will not consider substitutions during contract negotiations unless both parties agree that undue delay in the selection process makes such substitution unavoidable or for reasons such as death or medical incapacity or if the professional staff has left the organization. If this is not the case and if it is established that Professional staff were offered in the proposal without confirming their availability, the Consultant may be disqualified. Any proposed substitute shall have equivalent or better qualifications and experience than the original candidate and be submitted by the Consultant within the period of time specified in the letter of invitation to negotiate.
- 16.5 Conclusion of the negotiations: Negotiations will conclude with a review of the draft Contract. To complete negotiations the Employer and the Consultant will initial the agreed Contract. If negotiations fail, the employer will reject all the proposals received and invite fresh proposals.

- 17. Performance Security** **The Consultant shall, within twenty-one (21) days of the signing of contract, provide a performance security for the performance of the Contract for an amount of 5% of the Consultancy Fee, valid up to 60 days after the date of completion of performance obligations.** In case, the contract ceiling value is extended initial contract ceiling, the consultant shall deposit additional performance security to the extent of additional contract value. The Performance Security shall be forfeited in case overall performance is not satisfactory and Consultant is subjected to liquidated damages in excess of 10% of contract amount. The performance security shall be discharged by the Client and returned to the consultant not later than 28 days following the date of completion of the consultant's performance obligations under the contract.
- 18. Award of Contract** 18.1 After completing negotiations the Employer shall issue a Letter of Intent to the selected Consultant and promptly notify all other Consultants who have submitted proposals about the decision taken.
- 18.2 The consultants will sign the contract after fulfilling all the formalities/pre-conditions mentioned in the standard form of contract in Section-6, within 15 days of issuance of the letter of intent.
- 18.3 The Consultant is expected to commence the Assignment/job on the date and at the location specified in the Part II Data Sheet.
- 19. Confidentiality** Information relating to evaluation of Proposals and recommendations concerning awards shall not be disclosed to the Consultants who submitted the Proposals or to other persons not officially concerned with the process, until the publication of the award of Contract. The undue use by any Consultant of confidential information related to the process may result in the rejection of its Proposal and may be subject to the provisions of the Employer's antifraud and corruption policy.

INSTRUCTIONS TO CONSULTANT

Part-II

DATA SHEET

| Clause No. of Data Sheet | Reference to ITC | Particulars |
|--------------------------|------------------|---|
| 1. | 2.1 & 2.2 | Name of the Employer: M/s Strategic Alliance Management Services Pvt. Ltd. (SAMS) on behalf of Foundation for Innovative New Diagnostics |
| 2. | 2.2 & 2.4 | Name of the Assignment/job is: Selection of Agencies for Providing Annual Maintenance Services for BSL-3 Lab Facility, BSC, Laminar Flow and TB Laboratory Equipment under RNTCP, Ministry of Health & Family Welfare, Govt. of India |
| 3. | 2.5 | <p>A pre-proposal conference will be held: Yes</p> <p>Date of pre-proposal conference: 9th June, 2016 Time: 1500 Hrs. Address: Strategic Alliance Management Services Pvt. Ltd. B01-B03, Vardhman Diamond Plaza, Community Centre, D. B. Gupta Road, Paharganj, New Delhi - 110055 Telephone: +91-11-43580626-27, M :- 8800257774 E-mail: procurement@samsconsult.com</p> <p>Contact person/conference coordinator: Dinesh Kumar (Procurement Officer)</p> |
| 4. | 2.3 & 14.4 | <p>Date & time and address for submission of proposal/ bid:</p> <p>Date : 30th June, 2016 Time: 1500 Hrs.</p> <p>Address: Associate Director (MCS), Strategic Alliance Management Services Pvt. Ltd. (SAMS) B01-B03, Vardhman Diamond Plaza, Community Centre, D. B. Gupta Road, Paharganj, New Delhi - 110055 Telephone: +91-11-43580626-27 Email: procurement@samsconsult.com</p> |
| 5 | 2.5 | <p>The Employer's representative is:</p> <p>The Associate Director (MCS), Strategic Alliance Management Services Pvt. Ltd. (SAMS) B01-B03, Vardhman Diamond Plaza, Community Centre,</p> |

| | | |
|-----|---------|--|
| | | D. B. Gupta Road, Paharganj, New Delhi - 110055 Telephone: +91-11-43580626-27 E-mail- procurement@samsconsult.com |
| 6. | 2.6 | The Employer will provide the following inputs and facilities: SAMS shall provide detailed scope of work, details and quantity of equipment/ facility to be serviced, location, contact details of Lab In-Charge to Agency, against which AMC is intended for. |
| 7. | | The Employer envisages the need for continuity for downstream work: No |
| 8. | 8.1 | Proposals must remain valid for 90 calendar days after the proposal submission date i.e. until 30th September, 2016 |
| 9. | 4.1 | Clarifications may be requested no later than 10 days before the submission date. The address for requesting clarifications is: Strategic Alliance Management Services Pvt. Ltd. (SAMS) B01-B03, Vardhman Diamond Plaza, Community Centre, D. B. Gupta Road, Paharganj, New Delhi - 110055 Telephone: +91-11-43580626-27, M :- 8800257774 E-mail: procurement@samsconsult.com |
| 10. | 9.3(b) | The estimated number of professional staff-months required for the Assignment/job is: As per the no. of required key staffs for each Schedule mentioned in the Terms of Reference (Section 5) |
| 11. | 9.4 | The formats of the Technical Proposal to be submitted are: Form Tech 1: Letter of Proposal submission Form Tech 2 : Consultant's organization & experience Form Tech 3 : Comments & suggestions on TOR Form Tech 4 : Approach & methodology Form Tech 5 : Team composition Form Tech 6 : Curriculum vitae Form Tech 7 : Staffing Schedule Form Tech 8 : Work Schedule Form Tech 9 : Comment / modification suggested on draft contract. Form Tech 10: Information regarding any conflicting activities and declaration thereof. |
| 12. | 9.4 (g) | Training is a specific component of this Assignment/job: No |
| 13. | 11.1 | Consultant to state the cost in Indian Rupees |
| 14. | 14.3 | The Consultant must submit: (a) Technical Proposal (with all required annexure) : One (1) Original and Two (2) Copies (marked copy) and Soft copy (in CD); (b) Financial Proposal (with annexure): One (1) Original and one copy The Technical Proposal (One Original and Two copies) must be packed in |

| | | |
|---------------|-------------|--|
| | | sealed envelopes; the Financial Proposal (original and copy) must be packed in separate sealed envelope. Both these proposals must be packed in another sealed envelope. |
| 14 (a) | 14.5 | <p>The opening of Technical Proposal shall take place at: Strategic Alliance Management Services Pvt. Ltd. B01-B03, Vardhman Diamond Plaza, Community Centre, D. B. Gupta Road, Paharganj, New Delhi - 110055</p> <p>Date: 30th June, 2016 Time: 1530 Hrs.</p> |
| 15. | 15.4 | <p>Evlautaion Criteria: Criteria, sub-criteria, for evaluation of Technical Proposals have been prescribed: Detailed Evaluation Procedure</p> <p>Qualification Criteria, sub-criteria, and point system for the evaluation to be followed under this procedure is as under:</p> <p style="text-align: right;">Points</p> <p>A. Specific experience of the consultant (national & international as a firm) relevant to the assignment of carrying out AMC/ Maintenance/ calibration /validation services.</p> <p>a. Organization’s Total Experience for AMC Services/ similar services for medical equipment- 5 Points</p> <p>b. No. of relevant contracts/ assignment running or completed during last 5 years (AMC of BSL3 facility /BSC / Laminar flow/ other lab equipment) supported by copies of purchase orders and satisfactory completion/ running certificates by clients- 10 Points</p> <p><i>(Satisfactory performance may be re-confirmed confidentially with the list of the experience certificate submitted by AMC Agency. Bidder has to submit the contact details including email-id with each experience certificate)</i></p> <p>c. In-house calibration expertise/ long term agreement or tie up with reputed agencies for 3rd party validation and owning certified master calibrators for validation and calibration of BSL3 lab/BSC and Laminar flow cabinet.The master calibrators must be certified in accordance with National/International standards. Agency must submit such list of Master Calibrator available with them along with valid certificates (to be filled in format at Annexure 4 under TOR) and copy of agreement with agencies for 3rd party validation of BSL3 and BSCs- 5 Points</p> <p style="text-align: right;">Total points for Criterion A: 20</p> <p>B. Adequacy of the proposed methodology in responding to the Terms of Reference:</p> <p><i>(Notes to Consultants: the client will assess whether the proposed methodology is clear, responds to the TOR, work plan is realistic and implementable, overall team composition is balanced and has an appropriate skill mix and the work plan has right input of Experts)</i></p> <p>a) Technical approach and methodology 15</p> <p>(i) Proposed work flow process, proposed Response Time as specified in Section 7, Term of reference(work flow process for Breakdown calls and</p> |

| | | | | | | | | |
|--------------------------------|------|---|---------------------------|-----|--------------------------------|-----|--------------|------|
| | | <p>Preventive maintenance) - 7 Points</p> <p>(ii) Suggestion for streamlining the complaint system, spares requirement management protocols/ system, ways to minimize timelines for attending the breakdown calls and also minimising the breakdown cases, AMC Management Information System - 8 Points</p> <p>b) Work Plan 10</p> <p>(i) Schedule of project execution plan as per TOR and proposed timelines for annual PM, calibration and validation for BSL 3 facility, BSCs, Laminar Flow and other lab equipment- 10 Points</p> <p>c) Organization and staffing 15</p> <p>(i) Organization background with Organogram and details of no. of service centres in India (with specific zone-wise presence) and service engineers- 10 Points</p> <p>(ii) Organization Internal Quality Management System and ISO Certification or any other similar certification- 5 Points</p> <p style="text-align: right;">Total points for Criterion B: 40</p> <p>C. Key professional staff qualifications and competence for the assignment:</p> <p><i>(Notes to Consultants: please refer TOR (section 5) for experience and qualification required for each position. Each position number corresponds to the same for Key Experts in Form TECH-6 to be prepared by the Consultant)</i></p> <p>a) Team Leader 15</p> <p>b) Bio-Medical engineer/Service Engineer 15</p> <p>c) Field Service Engineer 10</p> <p style="text-align: right;">Total points for Criterion C: 40</p> <p>The number of points to be assigned to each of the above positions (sl. iii) or disciplines shall be determined considering the following two sub criteria and relevant weightage:</p> <table style="margin-left: 40px;"> <tr> <td>1) General Qualifications</td> <td style="text-align: right;">35%</td> </tr> <tr> <td>2) Adequacy for the assignment</td> <td style="text-align: right;">65%</td> </tr> <tr> <td style="text-align: right;">Total weight</td> <td style="text-align: right;">100%</td> </tr> </table> <p>Total points for the three Criteria (A, B and C): 100</p> <p>The minimum technical score (St) required to pass is: 75 Points</p> | 1) General Qualifications | 35% | 2) Adequacy for the assignment | 65% | Total weight | 100% |
| 1) General Qualifications | 35% | | | | | | | |
| 2) Adequacy for the assignment | 65% | | | | | | | |
| Total weight | 100% | | | | | | | |
| 16. | 15.7 | <p>Method of Selection: Combined Quality Cum Cost Based System (CQCCBS)</p> <p>In the case of CQCCBS, the technical quality of the proposal will be given a weightage of 70%, the method of evaluation of technical qualification will follow the procedure given in para 15(4) above. The price bids of only those consultants</p> | | | | | | |

| | | |
|-----|------|---|
| | | <p>who qualify technically will be opened. The proposal with the lowest cost may be given a financial score of 100 and the other proposal given financial score that are inversely proportionate to their prices. The financial proposal shall be allocated weight of 30%. For working out the combined score, the employer will use the following formula:</p> <p>Total points = $T (w) \times T (s) + F (w) \times LEC / EC$, where T (w) stands for weight of the technical score. T (s) stands for technical score F (w) stands for weight of the financial proposal EC stands for Evaluated Cost of the financial proposal LEC stands for Lowest Evaluated Cost of the financial proposal.</p> <p>The proposals will be ranked in terms of total points scored. The proposal with the highest total points (H-1) will be considered for award of contract and will be called for negotiations, if required.</p> <p>Additional Note: The technical evaluation will be carried out separately for each Schedule.</p> |
| 17. | 18.3 | <p>Expected date for commencement of consulting Assignment/job: Date: 1st September, 2016 at Laboratories (sites) as per RFP</p> |
| 18. | 18.3 | <p>Location for performance assignment / job: At the laboratory addresses (46 labs) as specified under TOR (Annexure-5 under section 5).</p> |

Section 3

Technical Proposal - Standard Forms

Form TECH-1
Letter of Proposal Submission

[Location, Date]

To:

Associate Director (MCS),
Strategic Alliance Management Services Pvt. Ltd.
B01-B03, Vardhman Diamond Plaza, Community Centre,
D. B. Gupta Road, Paharganj, New Delhi - 110055

Dear Sir:

We, the undersigned, offer to provide the consulting Assignment/job for [Insert title of Assignment/job] in accordance with your Request for Proposal dated [Insert Date] and our Proposal. **We are hereby submitting our Proposal, which includes this Technical Proposal, and a Financial Proposal sealed under a separate envelope and requisite EMD and bid processing fees**, for the following Schedules under RFP.

| Schedules | Applied/ Not Applied |
|--|----------------------|
| Schedule I - BSL 3 facility (North Region) | |
| Schedule II - BSL 3 facility (South Region) | |
| Schedule III - BSL 3 facility (East Region) | |
| Schedule IV - BSL 3 facility (West Region) | |
| Schedule V- BSC and Laminar Flow (North Region) | |
| Schedule VI- BSC and Laminar Flow (South Region) | |
| Schedule VII- BSC and Laminar Flow (East Region) | |
| Schedule VIII- BSC and Laminar Flow (west Region) | |
| Schedule XI- Autoclave | |
| Schedule X- Hot Air Oven, Distillation Unit, Water bath, Inspissator, Thermometer (Flexible), Micro Incinerator and Weighing Balance | |
| Schedule XI- Walk in Cold Room and Walk in Incubator | |
| Schedule XII- Incubator | |
| Schedule XIII- Pipette, Thermo cycler, Microliter Centrifuge and Refrigerated Centrifuge | |

Note: Please mention Applied / Not Applied in the table against each Category under each of the Schedule.

We are submitting our Proposal in association with: [Insert a list with full name and address of each associated Consultant]

We hereby declare that all the information and statements made in this Proposal are true and accept that any misinterpretation contained in it may lead to our disqualification.

If negotiations are held during the period of validity of the Proposal, i.e., before the date indicated in Paragraph 4 of the Part II Data Sheet, we undertake to negotiate on the basis of the proposed staff. Our Proposal is binding upon us and subject to the modifications resulting from Contract negotiations.

We understand you are not bound to accept any Proposal you receive.

We remain,

Yours sincerely,

Authorized Signature [In full and initials]:
Name and Title of Signatory:
Name of Firm:
Address:

Form TECH-2

Consultant's Organization and Experience

A - Consultant's Organization

[Provide here a brief description of the background and organization of your firm/entity and each associate for this Assignment/job. The brief description should include ownership details, date and place of incorporation of the firm, objectives of the firm etc. Also if the consultant has formed a consortium, details of each of the member of the consortium, name of lead members etc. shall be provided]

B - Consultant's Experience

[Using the format below, provide information on each Assignment/job for which your firm, and each partner in the case of consortium or joint venture, was legally contracted either individually as a corporate entity or as one of the major partners within an association, for carrying out consulting Assignment/job similar to the ones requested under this Assignment/job (If possible, the employer shall specify exact assignment / job for which experience details may be submitted). In case of consortium, association of consultant, the consultant must furnish the following information for each of the consortium member separately]

1. Firm's name:

| | | |
|-----|--|--|
| 1 | Assignment/job name: | |
| 1.1 | Description of Project | |
| 1.2 | Approx. value of the contract (in Rupees): | |
| 1.3 | Country: | |
| 1.4 | Location within country: | |
| 1.5 | Duration of Assignment/job (months) : | |
| 1.6 | Name of Employer: | |
| 1.7 | Address: | |

| | | |
|------|---|--|
| 1.8 | Total No of staff-months of the Assignment/job: | |
| 1.9 | Approx. value of the Assignment/job provided by your firm under the contract (in Rupees): | |
| 1.10 | Start date (month/year): | |
| 1.11 | Completion date (month/year): | |
| 1.12 | Name of associated Consultants, if any: | |
| 1.13 | No of professional staff-months provided by associated Consultants: | |
| 1.14 | Name of senior professional staff of your firm involved and functions performed. | |
| 1.15 | Description of actual Assignment/job provided by your staff within the Assignment/job: | |

Note: Please provide documentary evidence from the client i.e copy of work order/ contract/ work completion certificate/ client satisfactory work certificate etc. for each of above mentioned assignment. The experience shall not be considered for evaluation if such requisite support documents are not provided with the proposal.

Form TECH-3

Comments and Suggestions on the Terms of Reference and on Counterpart Staff and Facilities to be provided by the Employer

A - On the Terms of Reference

[Suggest and justify here any modifications or improvement to the Terms of Reference you are proposing to improve performance in carrying out the Assignment/job (such as deleting some activity you consider unnecessary, or adding another, or proposing a different phasing of the activities). Such suggestions should be concise and to the point, and incorporated in your Proposal.]

B - On Inputs and Facilities to be provided by the employer

[Comment here on Inputs and facilities to be provided by the Employer according to Paragraph 6 of the Part II Special information to consultants including: administrative support, office space, Domestic transportation, equipment, data, etc.]

Form TECH-4

Description of Approach, Methodology and Work Plan for Performing the Assignment/Job

[Technical approach, methodology and work plan are key components of the Technical Proposal. You are suggested to present your Technical Proposal divided into the following three chapters:

- a) Technical Approach and Methodology,
- b) Work Plan, and
- c) Organization and Staffing,

- a) **Technical Approach and Methodology**:- In this chapter you should explain your understanding of the objectives of the Assignment/job, approach to the Assignment/job, methodology for carrying out the activities and obtaining the expected output, and the degree of detail of such output. You should highlight the problems being addressed and their importance, and explain the technical approach you would adopt to address them. You should also explain the methodologies you propose to adopt and highlight the compatibility of those methodologies with the proposed approach.
- b) **Work Plan**:- The consultant should **propose and justify** the main activities of the Assignment/job, their content and duration, phasing and interrelations, milestones (including interim approvals by the Employer), and delivery dates of the reports. The proposed work plan should be consistent with the technical approach and methodology, showing understanding of the TOR and ability to translate them into a feasible working plan. A list of the final documents, including reports, drawings, and tables to be delivered as final output, should be included here. The work plan should be consistent with the Work Schedule of Form TECH-8. The PM plan should also be mentioned clearly. The plan for validation/ testing /calibration of equipment / facility should be clearly mentioned.
- c) **Organization and Staffing**. The consultant should **propose and justify** the structure and composition of your team. You should list the main disciplines of the Assignment/job, the key expert responsible, and proposed technical and support staff.

Write clearly the details of Headquarter / Office for implementation of the work in each of the Schedule. The name of the city / town where the proposed personnel will be based should be clearly mentioned. The distance of such location with the laboratories will help to access the travel time to support the lab. Include proposed plan to increase the required staff in case of future addition of new labs under contract.

Main project features:
Positions held:
Activities performed:

14. Certification:

I, the undersigned, certify that to the best of my knowledge and belief, this CV correctly describes myself, my qualifications, and my experience. I understand that any wilful misstatement described herein may lead to my disqualification or dismissal, if engaged.

Date:
Place:

[Signature of staff member or authorized
representative of the staff]

[Full name of authorized representative]:

Form TECH-7

Staffing Schedule

| Sl. No. | Name of Staff | Staff input (in the form of a bar chart) | | | | | | | | | | | | Total Months |
|---------|---------------|--|---|---|---|---|---|---|---|---|----|----|----|--------------|
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | |
| 1 | | | | | | | | | | | | | | |
| 2 | | | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |

Note:

- 1 For Professional Staff the input should be indicated individually; for Support Staff it should be indicated by category (e.g.: draftsmen, clerical staff, etc.).
- 2 Months are counted from the start of the Assignment/job. For each staff indicate separately staff input for home and field work.

**Form TECH-8
Work Schedule**

| Sl. No. | Activity | Months | | | | | | | | | | | | Total Months |
|---------|----------|--------|---|---|---|---|---|---|---|---|----|----|----|--------------|
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | |
| 1 | | | | | | | | | | | | | | |
| 2 | | | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | | | |

1. Indicate all main activities of the Assignment/job, including delivery of reports (e.g.: inception, interim, draft and final reports), and other benchmarks such as Employer approvals. For phased Assignment/jobs indicate activities, delivery of reports, and benchmarks separately for each phase.

2. Duration of activities shall be indicated in the form of a bar chart

Form TECH-9

Comments / Modifications Suggested On Draft Contract

[Here the consultant shall mention any suggestion / views on the draft contract attached with the RFP document. The consultant may also mention here any modifications sought by him in the provisions of the draft contract. This information shall be used at the time of the negotiations. However, the Employer is not bound to accept any/all modifications sought and may reject any such request of modification.]

Form TECH-10

Information Regarding any Conflicting Activities and Declaration Thereof

Are there any activities carried out by your firm or group company or any member of the consortium which are of conflicting nature as mentioned in para 5 of section 2. If yes, please furnish details of any such activities.

If no, please certify,

We hereby declare that our firm, our associate / group firm or any of the member of the consortium are not indulged in any such activities which can be termed as the conflicting activities under para 5 of the section 2. We also acknowledge that in case of misrepresentation of the information, our proposals / contract shall be rejected / terminated by the Employer which shall be binding on us.

Authorized Signature [In full and initials]:

Name and Title of Signatory:

Name of Firm:

Address:

Section 4.

Financial Proposal - Standard Forms

Form FIN - 1

Financial Proposal Submission Form

[Location, Date]

To:

Associate Director (MCS),
Strategic Alliance Management Services Pvt. Ltd.
1/1 B, Choudhary Hetram House, Bharat Nagar,
New Friends Colony, New Delhi 110025, India

Dear Sirs:

We, the undersigned, offer to provide the consulting Assignment/job for *[Insert title of Assignment/job]* in accordance with your Request for Proposal dated *[Insert Date]* and our Technical Proposal. Our attached Financial Proposal is for the sum of *[Insert amount(s) in words and figures]*. This amount is inclusive of the Domestic taxes. We hereby confirm that the financial proposal is unconditional and we acknowledge that any condition attached to financial proposal shall result in reject of our financial proposal.

Our Financial Proposal shall be binding upon us subject to the modifications resulting from Contract negotiations, up to expiration of the validity period of the Proposal, i.e. before the date indicated in Paragraph 4 of the Part II Data Sheet.

Commissions and gratuities paid or to be paid by us to agents relating to this Proposal and Contract execution, if we are awarded the Contract, are listed below:

| Name and Address of Agents | Amount and Purpose of Commission | Gratuity |
|-------------------------------|----------------------------------|----------|
|-------------------------------|----------------------------------|----------|

We understand you are not bound to accept any Proposal you receive.

We remain,

Yours sincerely,

Authorized Signature [In full and initials]:
Name and Title of Signatory:
Name of Firm:
Address:

Form FIN - 2

Summary of Costs

Schedule wise Cost (in INR only) of Financial Proposal

| Sl. No. | Schedules under RFP | Total Amount for AMC (INR) |
|--------------------------------------|--|----------------------------|
| 1 | Schedule I - BSL 3 facility (North Region) | |
| 2 | Schedule II - BSL 3 facility (South Region) | |
| 3 | Schedule III - BSL 3 facility (East Region) | |
| 4 | Schedule IV - BSL 3 facility (West Region) | |
| 5 | Schedule V - BSC and Laminar Flow (North Region) | |
| 6 | Schedule VI - BSC and Laminar Flow (South Region) | |
| 7 | Schedule VII - BSC and Laminar Flow (East Region) | |
| 8 | Schedule VIII - BSC and Laminar Flow (West Region) | |
| Other TB Laboratory Equipment | | |
| 9 | Schedule XI- Autoclave | |
| 10 | Schedule X- Hot Air Oven, Distillation Unit, Water bath, Inspissator, Thermometer (Flexible), Micro Incinerator and Weighing Balance | |
| 11 | Schedule XI- Walk in Cold Room and Walk in Incubator | |
| 12 | Schedule XII- Incubator | |
| 13 | Schedule XIII- Pipette, Thermo cycler, Microliter Centrifuge and Refrigerated Centrifuge | |
| | Sub Total Amount | |
| | Service Tax @ -----(or as applicable) | |
| | Total Amount (INR) | |

Initially the Contract for AMC shall be for one year period only; in case of satisfactory performance the contract may be extended beyond one year period. The consultants may provide for percentage increase, if any in the Annual AMC cost from year 2 onwards in the following table:

| Sl. No. | Consecutive Years after end of 1 st year of AMC Contract | Percentage increase in the Annual AMC Cost |
|---------|---|--|
| 1 | Year 2 | |
| 2 | Year 3 | |

Important Notes to be considered by Consultants while preparing proposal:

1. The technical and financial evaluation will be carried out individually for each Schedule.
2. Financial evaluation shall be done considering total cost of AMC for year one (1) only as proposed by the consultants in Form FIN 2. The proposed AMC price for year 2 and 3 is taken for future consideration, if required.
3. The Consultant must quote fixed price in Indian rupees towards cost of services to be carried out under each schedule considering total number of equipments in each laboratories or number of BSL-3 facilities under each Schedule (Refer Inventory under Section-7). Variable price proposals will be treated as non responsive and summarily rejected.
4. The service tax element must be defined separately along with service tax registration number, copy of Service Tax Registration No. and PAN Card should be enclosed.
5. The total AMC fee for each Schedule should be fixed and inclusive of all taxes, expenditures on third party validation and expenditure on manpower such as daily allowances, traveling expenses etc. The Consultant should estimate the approximate duration of stay of Personnel at Laboratory's Premises and include the expenditure thereof in the total AMC fee of each laboratory quoted. Laboratory will not provide any facilities (like guest house or vehicles) apart from allowing the AMC of the equipment.

Form FIN – 3

Breakdown of Remuneration (BREAKDOWN of Costs by individual Laboratories under each Schedule)

Since it is a Lump-Sum contract assignment, information to be provided in this Form shall only be used to demonstrate the basis for the calculation of the Contract's ceiling amount and, if needed, to establish payments to the Consultant for possible additional services requested by the Client.

Consultants must quote laboratory wise cost under each Schedule in the format below, otherwise their proposal shall be treated as non responsive and summarily rejected.

| Schedule I - BSL 3 Lab Facility (North Region) | | | |
|---|---------------|-------------------------|------------------------|
| Sl. No. | State | Name of the Lab* | AMC Cost in INR |
| 1 | Delhi | NDTBC | |
| 2 | Haryana | IRL Karnal | |
| 3 | Punjab | IRL Patiala | |
| 4 | Chandigarh | PGI Chandigarh | |
| 5 | Uttar Pradesh | IMS, BHU Varanasi | |
| 6 | Uttar Pradesh | IRL Agra | |
| 7 | Uttar Pradesh | IRL Lucknow | |
| Total Cost for Schedule - I : | | | |

| Schedule II - BSL 3 Lab Facility (South Region) | | | |
|--|----------------|-------------------------|------------------------|
| Sl. No. | State | Name of the Lab* | AMC Cost in INR |
| 1 | Telangana | IRL Hyderabad | |
| 2 | Andhra Pradesh | Vizag | |
| 3 | Karnataka | KIMS Hubli | |
| 4 | Karnataka | IRL Bangalore | |
| 5 | Kerala | IRL Thiruvanthapuram | |
| 6 | Tamil Nadu | IRL Chennai | |
| 7 | Puducherry | IRL Puducherry | |
| 8 | Karnataka | ICELT Bangalore | |
| Total Cost for Schedule - II : | | | |

| Schedule III - BSL 3 Lab Facility (East Region) | | | |
|--|--------------|-------------------------|------------------------|
| Sl. No. | State | Name of the Lab* | AMC Cost in INR |
| 1 | Assam | IRL Guwahati | |
| 2 | Bihar | IRL Patna | |
| 3 | Chhattisgarh | IRL Raipur | |
| 4 | Jharkhand | IRL Ranchi | |
| 5 | Odisha | IRL Cuttack | |
| 6 | West Bengal | IRL Kolkata | |
| 7 | West Bengal | NBMC Siliguri | |
| Total Cost for Schedule - III: | | | |

| Schedule IV - BSL 3 Lab Facility (West Region) | | | |
|---|----------------|-------------------------|------------------------|
| Sl. No. | State | Name of the Lab* | AMC Cost in INR |
| 1 | Gujarat | IRL Ahmedabad | |
| 2 | Maharashtra | IRL Nagpur | |
| 3 | Rajasthan | SMS Jaipur | |
| 4 | Gujarat | IRL Jamnagar | |
| 5 | Madhya Pradesh | IRL Indore | |
| 6 | Maharashtra | IRL Pune | |
| 7 | Rajasthan | IRL Ajmer | |
| Total Cost for Schedule - IV : | | | |

| Schedule V - BSCs and Laminar Flow (North Region) | | | |
|--|------------------|-------------------------|------------------------|
| Sl. No. | State | Name of the Lab* | AMC Cost in INR |
| 1 | Uttar Pradesh | IRL Agra | |
| 2 | Delhi | NDTC | |
| 3 | Himachal Pradesh | IRL, Dharampur | |
| 4 | Punjab | IRL Patiala | |
| 5 | Uttar Pradesh | IRL Lucknow | |
| 6 | Delhi | AIIMS | |
| 7 | Uttar Pradesh | IMS BHU | |
| 8 | Haryana | IRL Karnal | |
| Total Cost for Schedule - V : | | | |

| Schedule VI - BSCs and Laminar Flow (South Region) | | | |
|---|----------------|-------------------------|------------------------|
| Sl. No. | State | Name of the Lab* | AMC Cost in INR |
| 1 | Tamil Nadu | IRL Chennai | |
| 2 | Kerala | IRL Trivandrum | |
| 3 | Karnataka | KIMS,Hubli | |
| 4 | Telangana | IRL Hyderabad | |
| 5 | Andhra Pradesh | Vizag | |
| 6 | Karnataka | IRL Bangalore | |
| 7 | Karnataka | ICELT Bangalore | |
| 8 | Puducherry | IRL, Pondicherry | |
| Total Cost for Schedule - VI : | | | |

| Schedule VII - BSCs and Laminar Flow (East Region) | | | |
|---|--------------|-------------------------|------------------------|
| Sl. No. | State | Name of the Lab* | AMC Cost in INR |
| 1 | West Bengal | IRL Kolkata | |
| 2 | Assam | IRL Guwahati | |
| 3 | Bihar | IRL Patna | |
| 4 | Chhattisgarh | IRL Raipur | |
| Total Cost for Schedule - VII : | | | |

| Schedule VIII - BSCs and Laminar Flow (West Region) | | | |
|--|----------------|-------------------------|------------------------|
| Sl. No. | State | Name of the Lab* | AMC Cost in INR |
| 1 | Rajasthan | Ajmer | |
| 2 | Rajasthan | SMS Jaipur | |
| 3 | Madhya Pradesh | IRL Indore | |
| 4 | Gujarat | Ahmedabad | |
| 5 | Gujarat | Jamnagar | |
| 6 | Maharashtra | Pune | |
| 7 | Maharashtra | Nagpur | |
| 8 | Maharashtra | Mumbai | |
| 9 | Maharashtra | Aurangabad | |
| Total Cost for Schedule - VIII : | | | |

| Schedule IX - Autoclave | | | |
|---------------------------------------|------------------|-------------------------|------------------------|
| Sl. No. | State | Name of the Lab* | AMC Cost in INR |
| 1 | Andhra Pradesh | Vizag | |
| 2 | Assam | IRL Guwahati | |
| 3 | Bihar | IRL Patna | |
| 4 | Delhi | AIIMS | |
| 5 | Delhi | NITRD/ LRS | |
| 6 | Gujarat | Ahmedabad | |
| 7 | Gujarat | Jamnagar | |
| 8 | Himachal Pradesh | IRL, Dharampur | |
| 9 | Jammu & Kashmir | IRL Srinagar | |
| 10 | Karnataka | ICELT | |
| 11 | Karnataka | KIMS, Hubli | |
| 12 | Kerala | IRL, Trivandrum | |
| 13 | Madhya Pradesh | IRL Indore | |
| 14 | Maharashtra | Aurangabad | |
| 15 | Maharashtra | Mumbai | |
| 16 | Maharashtra | Nagpur | |
| 17 | Maharashtra | Pune | |
| 18 | Puducherry | IRL, Pondicherry | |
| 19 | Punjab | IRL Patiala | |
| 20 | Rajasthan | Jodhpur | |
| 21 | Rajasthan | SMS Jaipur | |
| 22 | Telangana | IRL, Hyderabad | |
| 23 | Uttar Pradesh | AMU Aligarh | |
| 24 | Uttar Pradesh | IMS BHU | |
| 25 | Uttar Pradesh | IRL Agra | |
| 26 | Uttar Pradesh | IRL Lucknow | |
| Total Cost for Schedule - IX : | | | |

| Schedule X - Hot Air Oven, Distillation Unit, Water bath, Inspissator, Thermometer (Flexible), Micro Incinerator, Weighing Balance | | | |
|---|------------------|-------------------------|------------------------|
| Sl. No. | State | Name of the Lab* | AMC Cost in INR |
| 1 | Andhra Pradesh | Vizag | |
| 2 | Assam | IRL Guwahati | |
| 3 | Bihar | IRL Patna | |
| 4 | Bihar | Bhagalpur | |
| 5 | Chandigarh | PGIMER, Chandigarh | |
| 6 | Chhatisgarh | IRL Raipur | |
| 7 | Delhi | NDTC | |
| 8 | Delhi | AIIMS | |
| 9 | Delhi | NITRD/ LRS | |
| 10 | Gujarat | Ahmedabad | |
| 11 | Gujarat | Jamnagar | |
| 12 | Haryana | IRL Karnal | |
| 13 | Himachal Pradesh | IRL, Dharampur | |
| 14 | Jammu & Kashmir | IRL Srinagar | |
| 15 | Jharkhand | IRL Ranchi | |
| 16 | Karnataka | IRL, Bangalore | |
| 17 | Karnataka | KIMS, Hubli | |
| 18 | Karnataka | ICELT | |
| 19 | Kerala | IRL, Trivandrum | |
| 20 | Madhya Pradesh | BMHRC Bhopal | |
| 21 | Madhya Pradesh | IRL Indore | |
| 22 | Maharashtra | Aurangabad | |
| 23 | Maharashtra | Nagpur | |
| 24 | Maharashtra | Mumbai | |
| 25 | Maharashtra | Pune | |
| 26 | Odisha | IRL Cuttack | |
| 27 | Odisha | RMRC Bhubaneswar | |
| 28 | Puducherry | IRL, Pondicherry | |
| 29 | Punjab | IRL Patiala | |
| 30 | Rajasthan | Jodhpur | |
| 31 | Rajasthan | Ajmer | |
| 32 | Rajasthan | SMS Jaipur | |
| 33 | Tamil Nadu | IRL, CHENNAI | |
| 34 | Tamil Nadu | NIRT | |
| 35 | Telangana | IRL, Hyderabad | |
| 36 | Uttar Pradesh | AMU Aligarh | |
| 37 | Uttar Pradesh | JALMA | |
| 38 | Uttar Pradesh | IMS BHU | |
| 39 | Uttar Pradesh | IRL Agra | |
| 40 | Uttar Pradesh | IRL Lucknow | |
| 41 | Uttarkhand | Dehradun | |
| 42 | West Bengal | IRL Siliguri | |
| 43 | West Bengal | IRL Kolkata | |
| Total Cost for Schedule - X : | | | |

| Schedule XI - Walk in Cold Room and Walk in Incubator | | | |
|--|------------------|-------------------------|------------------------|
| Sl. No. | State | Name of the Lab* | AMC Cost in INR |
| 1 | Andhra Pradesh | Vizag | |
| 2 | Assam | IRL Guwahati | |
| 3 | Bihar | IRL Patna | |
| 4 | Delhi | NDTC | |
| 5 | Delhi | NITRD/ LRS | |
| 6 | Gujarat | Ahmedabad | |
| 7 | Haryana | IRL Karnal | |
| 8 | Himachal Pradesh | IRL,Dharampur | |
| 9 | Jammu & Kashmir | IRL Srinagar | |
| 10 | Karnataka | IRL, Bangalore | |
| 11 | Karnataka | KIMS,Hubli | |
| 12 | Karnataka | ICELT | |
| 13 | Kerala | IRL, Trivandrum | |
| 14 | Madhya Pradesh | BMHRC Bhopal | |
| 15 | Maharashtra | Aurangabad | |
| 16 | Maharashtra | Nagpur | |
| 17 | Maharashtra | Mumbai | |
| 18 | Odisha | RMRC Bhubaneswar | |
| 19 | Puducherry | IRL,Pondicherry | |
| 20 | Punjab | IRL Patiala | |
| 21 | Rajasthan | Ajmer | |
| 22 | Tamil Nadu | IRL,CHENNAI | |
| 23 | Telangana | IRL, Hyderabad | |
| 24 | Uttar Pradesh | IRL Agra | |
| 25 | Uttar Pradesh | IRL Lucknow | |
| 26 | West Bengal | IRL Siliguri | |
| 27 | West Bengal | IRL Kolkata | |
| Total Cost for Schedule - XI : | | | |

| Schedule XII - Incubator | | | |
|---------------------------------|------------------|-------------------------|------------------------|
| Sl. No. | State | Name of the Lab* | AMC Cost in INR |
| 1 | Andhra Pradesh | Vizag | |
| 2 | Assam | IRL Guwahati | |
| 3 | Bihar | IRL Patna | |
| 4 | Delhi | AIIMS | |
| 5 | Delhi | NITRD/ LRS | |
| 6 | Gujarat | Ahmedabad | |
| 7 | Gujarat | Jamnagar | |
| 8 | Haryana | IRL Karnal | |
| 9 | Himachal Pradesh | IRL,Dharampur | |
| 10 | Jammu & Kashmir | IRL Srinagar | |
| 11 | Karnataka | IRL, Bangalore | |
| 12 | Karnataka | KIMS,Hubli | |
| 13 | Kerala | IRL, Trivandrum | |
| 14 | Madhya Pradesh | BMHRC Bhopal | |
| 15 | Madhya Pradesh | IRL Indore | |

| | | | |
|--|---------------|------------------|--|
| 16 | Maharashtra | Nagpur | |
| 17 | Maharashtra | Mumbai | |
| 18 | Maharashtra | Pune | |
| 19 | Odisha | RMRC Bhubaneswar | |
| 20 | Puducherry | IRL,Pondicherry | |
| 21 | Punjab | IRL Patiala | |
| 22 | Rajasthan | SMS Jaipur | |
| 23 | Uttar Pradesh | AMU Aligarh | |
| 24 | Uttar Pradesh | IMS BHU | |
| 25 | Uttar Pradesh | IRL Agra | |
| 26 | Uttar Pradesh | IRL Lucknow | |
| Total Cost for Schedule - XII : | | | |

| Schedule XIII - Pipette, Thermo cycler, Microliter Centrifuge and Refrigerated Centrifuge | | | |
|--|----------------|-------------------------|------------------------|
| Sl. No. | State | Name of the Lab* | AMC Cost in INR |
| 1 | Assam | IRL Guwahati | |
| 2 | Bihar | IRL Patna | |
| 3 | Delhi | NDTC | |
| 4 | Delhi | AIIMS | |
| 5 | Delhi | AIIMS | |
| 6 | Gujarat | Ahmedabad | |
| 7 | Jharkhand | IRL Ranchi | |
| 8 | Kerala | IRL, Trivandrum | |
| 9 | Madhya Pradesh | BMHRC Bhopal | |
| 10 | Odisha | RMRC Bhubaneswar | |
| 11 | Puducherry | IRL,Pondicherry | |
| 12 | Punjab | IRL Patiala | |
| 13 | Rajasthan | Ajmer | |
| 14 | Uttar Pradesh | AMU Aligarh | |
| 15 | Uttar Pradesh | JALMA | |
| 16 | Uttar Pradesh | IRL Lucknow | |
| Total Cost for Schedule - XIII : | | | |

***Consignee details are given at Annexure-5 under Section 5: TOR**

Note: Inventroy of Equipment under each lab of each schedule is given at Annexure-3.

Cost for addition of new BSL-3 lab and BSC, Laminar flow and TB Laboratory Equipment: There is possibility to include upcoming BSL-3 laboratories, BSC/Laminar Flow and other TB lab equipment under the purview of AMC. **The AMC cost proposed for one new BSL-3 laboratory and unit cost of AMC for additional BSC/ laminar flow and other laboratory Equipment under each Schedules (whichever quoted by consultants) must be submitted in following table.** The cost quoted for new BSL-3 lab and unit AMC cost of BSC and Laminar Flow will not be considered for evaluation purpose.

| Sl. No. | Schedule | AMC cost for | Unit AMC cost (INR) |
|---------|--|---|-------------------------|
| 1 | Schedule I - BSL 3 facility (North Region) | unit rate for additional BSL3 lab | |
| 2 | Schedule II - BSL 3 facility (South Region) | | |
| 3 | Schedule III - BSL 3 facility (East Region) | | |
| 4 | Schedule IV - BSL 3 facility (West) | | |
| 5 | Schedule V - BSC and Laminar Flow (North Region) | unit rate of AMC for additional BSC and Laminar Flow | BSC- |
| 6 | Schedule VI - BSC and Laminar Flow (South Region) | | Laminar Flow- |
| 7 | Schedule VII - BSC and Laminar Flow (East Region) | | BSC- |
| 8 | Schedule VIII - BSC and Laminar Flow (West Region) | | Laminar Flow- |
| 9 | Schedule XI- Autoclave | unit rate of AMC for additional each Laboratory equipment | BSC- |
| 10 | Schedule X- Hot Air Oven, Distillation Unit, Water bath, Inspissator, Thermometer (Flexible), Micro Incinerator and Weighing Balance | | Laminar Flow- |
| 11 | | | Hot Air Oven- |
| 12 | | | Distillation Unit- |
| 13 | | | Water bath- |
| | | | Inspissator- |
| | | | Thermometer (Flexible)- |
| | Micro Incinerator- | | |
| | Weighing Balance- | | |
| | Walk in Cold Room- | | |
| | Walk in Incubator- | | |
| | Incubator- | | |
| | Pipette- | | |
| | Thermo cycler- | | |
| | Microliter Centrifuge- | | |
| | Refrigerated Centrifuge- | | |

Form FIN – 4

Breakdown of Reimbursable Expenses

The Spares required for major repairs and maintenance of BSL-3 Labs and related equipment, BSC, Laminar Flow and TB Laboratory Equipment are expected to be procured from reputed manufacturers/ authorized dealers, and cost of such spares will be reimbursed at actuals on submission of original bills.

Form FIN – 5
Miscellaneous Expenses

-Deleted-

Section 5

Terms of Reference

TERMS OF REFERENCE

Background

Global Fund for Aids, Tuberculosis and Malaria (GFATM) has given grant for equipping and maintaining of Laboratories for diagnosis of tuberculosis with Central TB Division, Ministry of Health & Family Welfare, Government of India as Principal Recipient (PR) and Foundation for Innovative New Diagnostics (FIND) as Sub Recipient (SR).

Strategic Alliance Management Services Pvt. Ltd. (SAMS) is acting as Procurement Agent to FIND for rendering Procurement Consultancy Services. SAMS, on behalf of FIND intends to engage agencies to carry out Annual Maintenance Services (AMC) for the BSCs & Laminar flow cabinets, BSL 3 Lab facility and Medical Equipment as per the GFR guidelines. The agency will be responsible for the services detailed under Preventive Maintenance (PM) Checklist (**Annexure 1**) including calibration and validation of the equipment available in individual laboratory as set out in each schedule (**Annexure 2**) as per terms & conditions of Contract.

Objective:

SAMS on behalf of FIND intends to hire the services of agencies to carry out AMC of the BSL3 Lab Facility, Bio Safety Cabinets (BSC), Laminar flow and other TB laboratory Equipment including PM, calibration and validation as specified in **Annexure 1**. The detailed inventory list of equipments installed in each of the Laboratory under relevant schedules is provided in **Annexure 3**.

Schedules and Categories of Equipment (Annexure 2 and 3):

The laboratories under Contract for AMC Services are divided in Schedules. There are total Thirteen Schedules. Schedules are made as per four regions of India for three different categories of equipment i.e. BSL3 Lab Facilities and Bio Safety Cabinets (BSC), Laminar flow and Medical Equipment respectively.

- Schedule I to IV comprises of AMC of BSL3 Lab Facilities.
- Schedules V to VIII comprises of AMC of Bio Safety Cabinets (BSC) and Laminar flow.
- Schedules IX to XIII comprised other TB Laboratory Equipment

The inventory of BSL 3 Lab Facility and Bio Safety Cabinets (BSCs), Laminar flow and other TB laboratory Equipment at each of the Laboratory is provided in **Annexure 3**. The bidders must submit their proposal considering all the labs/ inventory of equipment included in each Schedule. **The agency, based on their expertise and capacity, can apply for any or all schedules under RFP**

Tasks to be carried out:

On receipt of NOA/ Contract, the agency will carry out following tasks:

Scope of Work for TB Laboratory Equipment

1. To carry out AMC including Preventive Maintenance, calibration/ validation of TB laboratory equipment as per work flow process defined for breakdown calls and preventive maintenance in the TOR.

2. To share the PM/ Calibration/Validation schedule as well as the type of assistance required from the laboratory to the SAMS/FIND and designated representative of the laboratory and seek their convenience.
3. To ensure that the services are conducted as per Standard Operating Procedure with pre-defined manufacturer protocols.
4. To carry out maintenance of each equipment on the pre-defined protocols (to be shared with the laboratory) as per manufacturer's directions.
5. To carry out calibration of the parameters wherever specified against NABL ISO/IEC 17025 and ISO 15189-2012 Standards
6. To prepare report after each visit and provide the activities carried out including the traceability of the standards used.

Workflow Process for Breakdown Calls for BSL-3 facilities and other TB Lab Equipment

1. Agency shall be informed by lab /SAMS about any breakdown calls with, details of equipment and nature of breakdown.
2. The same complaint shall be copied to all concerned FIND officials (Regional Biomedical Engineer and Medical Officer of respective lab) also for needful support through mail. The same information shall also be available on Google Docs for reference of all concerned to minimize timelines on actions from different individuals. **Any other suggestion of participating agency for streamlining the complaint system and ways to minimize timelines for attending the breakdown calls is encouraged to be included in their proposal under methodology and work plan. Such suggestions will be given extra weightage in technical evaluation.**
3. Agency should also provide their unique complaint log number for each breakdown call logged immediately or within one working day through an email communication and on Google doc.
4. Agency to contact the lab regarding the nature of breakdown of equipment and provide assistance for troubleshooting in a time bound manner based on the categorization as mentioned below and the same will be defined at the time of complaint logging by FIND:
 - a. Remote assistance should be provided within 24 hours of complaint logged
 - b. All Breakdown calls would be identified by FIND in the following categories on the day of complaint logging and after identification of category of complaint it should be resolved within time lines specified, as below;
 - i. Critical Calls: **within 5 working days** from the date of complaint categorization.
 - ii. Urgent Calls: **within 14 working days** from the date of complaint categorization.
 - iii. Normal Calls: **within 21 working days** from the date of complaint categorization.
 - iv. Other Calls: any call not identified under above categories should be attended by agency at the earliest possible or during any interim visit for PM or attending breakdown call visit, whichever earlier.
5. For any visit to lab for rectification of the breakdown, agency should intimate through an email communication to Lab, SAMS, concerned FIND officials (Regional Biomedical Engineer and Medical Officer of respective lab) regarding visit of service engineer, date and other requirements, if any
6. Agency during the period of contract should come up with a price list of common parts being procured for break down call along with quotes and/or invoices, so that FIND could consider having a pre-approved rate list to minimize the time required for financial approval at its end.

7. Agency should also maintain good coordination with manufacturer of equipment under Contract (Refer Inventory) to ensure availability of spare parts from any manufacturer as and when required. They should also keep updated standard price list of spares of all manufacturers of equipment under AMC Contract.
8. If any spare part is required for resolving the breakdown complaint, agency should submit quote for approval to SAMS in the manner as mentioned below;
 - a. If the spare part is in the pre-approved rate list, the approval to go ahead will be provided within a day.
 - b. Agency needs to submit quote for spares beyond the pre-approved list from respective original equipment manufacturer for approval of SAMS/FIND, confining to the timeline of resolving the issue as mentioned above in point no. 4.
 - c. Agency should submit minimum three quotations taken from from different agencies for procurement of spares, for approval of SAMS/FIND, for which manufacturer is not available or spare is not available from manufacturer, confining to the timeline of resolving the issues as mentioned above in point no.4.
 - d. Quotations to be submitted for approval in a time bound manner in order to ensure that the breakdowns can be rectified in a time bound manner in line with point 4.
 - e. Any delay in the prescribed timelines, should be upfront intimated to FIND in a time bound manner (in line with timelines described in point 4) with justification for delays, seeking an approval from FIND/SAMS on alternate timelines, on case to case basis.
 - f. If the cost of spare part to be replaced is within Rs.5000, then agency may change spare instantaneously arranging from local supplier / from authorized agency/ manufacturer after approval from SAMS/ FIND regional team. No need of submitting quotations and PO from SAMS in such cases.
9. Once the problem has been resolved, agency should send an email communication for call closure within one working day to Lab, SAMS and FIND officials.
10. Service Report to be submitted for each call attended and completed to Lab Manager on the day call is attended and within five working days to FIND-SAMS.
11. Service report should flag any irreparable equipment available in lab and justification letter should be submitted for the same by agency.
12. Agency should submit the standard operating procedures for breakdown service and troubleshooting to FIND and SAMS
13. Selected agency to submit the breakdown service report / Calibration report format to FIND and SAMS for review and approval on receipt of NOA for undertaking the AMC services
14. The agency should provide both verbal and written guidance to the lab on ways to minimize the given break-down.
15. Agency should submit status report of breakdown call in standard format on weekly basis to FIND and SAMS.
16. Agency should have Field Service Engineers based regionally (Specially four regions: North, East, West and South), or for the applied regions.

Workflow Process for Preventive Maintenance and Calibration for BSL-3 facilities and other TB Lab Equipment

1. Agency should submit Preventive Maintenance (PM)/ calibration/ Validation schedule for each lab in advance for approval of SAMS/ FIND. The first PM/calibration/ validation schedule should be in sync with previous PM /calibration/ validation date of completion of lab equipment of each lab
2. Agency has to carry out PM and calibration visit as specified below;

- a. Annual PM and annual calibration should be carried out for all equipment covered under the contract
 - b. For Pipettes and Centrifuges, PM and calibration should be done on six monthly basis
3. For preventive maintenance call; Agency should intimate concerned labs, SAMS and FIND officials (Regional Biomedical Engineer and Medical Officer of respective lab) through an email communication regarding the scheduled preventive maintenance visit to lab as per contract.
4. During first preventive maintenance visit, agency should carry out initial inspection/ calibration of each equipment as per prescribed jobs annexed and submit report for the services carried out.
5. In case there is any change in PM Visit as per schedule, Agency should intimate in advance to the Lab and confirm the date keeping FIND and SAMS in loop.
6. Agency should carry out service and maintenance of each equipment in line with the standard operating procedures, with pre-defined service protocols and as per manufacturer's directions.
7. If any equipment is required to taken out for calibration, it should be taken in two tranches(approx 50% quantity in each) depending upon the workload of the labs and should be returned within 10 days to the lab and proper record should be maintained by agency and information should be shared immediately with FIND and SAMS.
8. Agency should submit the Standard Operating Procedures for Preventive Maintenance / calibration of equipment to FIND and SAMS within one month of the Award of Contract for AMC services.
9. Agency to submit the Preventive Maintenance report, calibration report and PM checklist format to FIND and SAMS for review and approval within fifteen (15) days of receipt of NOA for undertaking the AMC services
10. Agency should carry out calibration of the parameters wherever specified to meeting the prescribed National/ International Standards as per manufacturer's directions.
11. Agency should submit PM report along with checklist (standard as annexed) suggesting activities carried out for the equipment during visit, calibration report with traceability certificates of standards used for each equipment
12. PM report-checklist should be signed and stamped by Lab Manager on each page and submitted to Lab Manager on the day of completion of PM activities onsite and within five working days to FIND and SAMS
13. Calibration report should be submitted within five working days to Lab Manager, FIND and SAMS.
14. Agency should share in advance about any type of assistance required from the laboratory for conduction PM/ Calibration at their labs.
15. Agency to submit the list of master instrument for calibration and validation along with valid traceability certificates to FIND and SAMS within one month of Award of Contract for AMC Services.
16. Any break-down/malfunction equipment noticed during the PM visit should be reported to Lab, FIND and SAMS along with service report by agency and corrective action may be taken during PM visit only, if possible.
17. Agency should provide training to their staff attending the preventive maintenance and breakdown calls for handling particular equipment. In the inception report of contract, agency should submit their plan to take care of issues when trained staff carrying out activities leaves their organization.

18. The PM report should flag any irreparable equipment available in lab and justification for same should be submitted.
19. The approval for extending the timelines/ approved PM schedule will be required prospectively in each case. No retrospective approval will be considered for waiving the penalty (Liquidated damages). So any request for extension in timelines should be informed with full justification and approvals must be obtained for the same.

Duration of the Assignment/ Contract

1. The duration of the assignment/contract will be for one year initially which may be extended annually upto three years or as per the project needs based on satisfactory performance of the agency.
2. The number of labs under each schedule may be increased or decreased as per project needs. More labs could be added in any schedule as and when required on the pro-rata basis during the Contract period.
3. The equipments which are currently under warranty and is not included in the current inventory list shall be added under AMC Contract for all labs under each Schedules after end of the warranty period of those equipments. However, need based PM & repairs on the request of FIND, of these equipments under warranty fall within the scope of the current contract, at no additional costs, apart from costs of spares.
4. The inventory list (Annexure 3) is not exhaustive and may be subject to additions as per laboratory requirement for which point no. 3 above would apply.

Deliverables/ Reporting

1. The agency shall issue Service/ PM/ Calibration Reports, immediately after the completion of activities, to the Laboratory with copies to FIND, In-charge Procurement-SAMS and any other agency as directed by SAMS.
2. Agency shall submit monthly report in the standard format on the status of breakdown calls and PM/ Calibration visits.

Schedule for completion of tasks:

1. The agency will have to initiate the services within 15 days of receiving of NOA.
2. The agency will have to complete the annual PM/ calibration visit at all labs under Contract within 6 months of the issue of NOA in accordance with existing PM due dates.
3. Unlimited nos. of breakdown calls from any labs under Contract, as and when required should be attended promptly and closed as per timelines given under work flow **process for breakdown calls (sl. No. 4).**

Data to be provided by the SAMS

1. SAMS shall provide detailed scope of work, details and quantity of equipment to be serviced, location, contact details of lab In-Charge to Agency.
2. Any other support required for initiating the services.

Assistance to be provided by the Laboratory

The Laboratory would facilitate the agency for carrying out the AMC / required activities in their working days in office hours.

Review of the Agency work

The performance of the Agency will be reviewed by SAMS/ FIND from time to time. If the performance of the Agency is found to be unsatisfactory at any time during the tenure, the contract of the agency may be cancelled. The following is list of parameters which will be considered while reviewing the performance of agency:

- a) Time taken by agency to initiate the job work / visit for breakdown call
- b) Time taken by agency to complete each of the breakdown call

- c) No. of breakdown calls closed within the prescribed timelines
- d) Time taken by agency for closing the breakdown calls in critical calls
- e) Time taken by agency to issue reports after completion of all activities
- f) Incidences of non-satisfactory performance reported from the laboratories
- g) PM schedule adherence
- h) Completion of PM visit within prescribed timelines

Payment terms

Payments shall be made according to the following schedule:

Lump Sum Contract Cost is divided against two major deliverables under AMC Contract i.e. **Preventive Maintenance- 40% of Contract Cost** and **other AMC/repair Services-60% of Contract cost.**

Payment Schedule:

1. **15% advance** of total Contract cost upon submission of following documents:
 - Signed Contract
 - Submission of Performance Bank Guarantee (PBG) for the amount of 5% of Contract cost. This PBG should remain valid for fourteen (14) months from the date of Contract.
 - Another Bank Guarantee against advance payment of 15% of Contract cost with the validity of minimum eight (8) months from the date of contract.
 - BGs should be submitted within 21 days of signing of the Contract.
 - The BG against advance payment shall be released when the advance payment has been fully set off.
- a. **40% of Contract Cost** on completion of PM/ calibration/validation services on pro-rata basis supported by relevant documents against each labs.
- b. **60%** on completion of other AMC and repair services supported by relevant documents **on quarterly basis (15% every quarter against AMC/ repair services).**

LIST OF KEY PROFESSIONALS AND THEIR QUALIFICATION & EXPERIENCE REQUIREMENTS:

Agency should have minimum following no. of officials working on full time basis for each Schedule quoted:-

| Sl. No. | Key Position | Professional Qualification | Experience Desired | No. of Staff required per schedule of BSL3 (I-IV) | No. of Staff required per schedule of BSC, LF and other TB laboratory equipment (V-XIII) |
|---------|-------------------------------|---|--|---|--|
| 1 | Team Leader* | B. Tech in Bio Medical Instrumentation/B.Sc. or M.Sc. in medical Instrumentation or electronics (preferable) / B. Tech (any stream)/ B.Sc./ M.Sc. in Microbiology, Physics or equivalent | Minimum seven years relevant Experience in maintenance, Calibration and Validation of lab equipment/ BSL-3/ Clean room as per National/ International standards out of which he/she preferably should have three to five years of experience at senior manager position and/or experience of leading/ management of one similar project. | One* (1) | One* (1) |
| 2 | Bio-medical Engineer/ Service | B. Tech in Bio Medical Instrumentation/ Diploma or B.Sc. or M.Sc. in medical Instrumentation or electronics | Minimum three years (for diploma holders five years) of relevant Experience in Maintenance, Calibration and Validation of lab equipment as per National/ International | One (1) | One (1) |

| | | | | | |
|---|--|---|---|---------|---------|
| | Engineer | (preferable) / B. Tech (any stream)/ B.Sc./ M.Sc. in Microbiology, Physics or equivalent | standards. | | |
| 3 | Field Service Engineer (Maintenance and Calibration of analytical equipment) | B. Tech in Bio Medical Instrumentation/ Diploma or B.Sc. or M.Sc. in medical Instrumentation or electronics/ B. Tech (any stream)/ B.Sc./M.Sc. in Microbiology, Physics or equivalent, ITI/ Diploma in relevant subject with minimum five years of relevant experience. | Minimum three years (five years for ITI /diploma) of relevant Experience in maintenance, Calibration and Validation of lab equipment/ BSL-3/ Clean Room as per National/ International standards. | Two (2) | One (1) |

***Consultant may propose only one team leader upto any four schedules quoted.**

Note: -

- **If the agency is submitting proposal for more than one or all Schedules, the agency must propose key officials for executing this project in multiple of above nos. with no. of Schedules quoted, except team leader*.**
- Qualification/experience of the team described in TOR is only “desirable” and the invited consultant may propose the team as they deem fit with better qualification.
- The number of staff will need to be increased on prorata basis and need, in case of addition of work load of additional labs

DETAILED PREVENTIVE MAINTENANCE AND CALIBRATION ACTIVITIES TO BE CARRIED OUT FOR TB LABORATORY EQUIPMENT

PREVENTIVE MAINTENANCE AND CALIBRATION CHECKLIST

1. Refrigerated Centrifuge

- Cleaning of centrifuge.
 - a. Clean the centrifuge chamber to remove the dust with clean cloth /tissue paper
 - b. Cleaning of centrifuge, inner chamber, bucket and rotors should be done with 70% alcohol
 - c. Any damage of chamber should be checked.
 - d. Check the aerosol lids, O-rings of aerosol lids of buckets for any wear and tear.
- Inspection and lubrication / oiling at tuners, hinges, locks and all moving parts.
 - a. Lubrication/oiling should be done for tuners, hinge of rotor, lid locking systems. (Manufacturer recommended lubricant should be used)
- Inspection and external cleaning of refrigeration system.
 - a. Inspection and external cleaning of refrigerator system to remove the dust, to increases the cooling efficiency.
- Checking functions of all switches and checking all connections.
 - a. Checking of ON/OFF switch,
 - b. Checking of operating panel for Temperature, RPM/RCF, Time, Precooling, Lid open & closing and Start/Stop switches for proper functioning.
 - c. Checking of any wear of power supply cord, earthing and electrical shock.
- Checking of refrigeration system current consumption.
 - a. Current consumption of refrigeration system can be checked by Clamp multimeter. First put the clamp meter at the relay end of compressor, when cooling start, wait for 2 min (as compressor get initially charged up so its show high load), then the clamp meter shows the actual current consumption.
- Inspection, calibration and validation of Temperature, sensors (speed, temperature, imbalance) and time measurement.

Calibration of Speed (RPM) & Temperature mapping Timer with device traceable to NABL Standards (ISO/IEC 17025:2005 and ISO 15189:2012):

Instrument used: Calibrated Master Laser Tachometer (Non-contact)

Calibration of: Speed of the Centrifuge (revolutions per minute)

Principle: Laser beam from the Tachometer falls on the reflector tape

Procedure:

- a. Cut a small piece of Reflector tape and stick it between the shaft of the centrifuge and the tube holder
- b. Switch on the centrifuge to the desired speed
- c. Hold the tachometer over the top of the lid of the centrifuge at the center and switch it on.
- d. Hold it in a stable condition till a constant reading is acquired
- e. Note down the first reading.
- f. Take four more consecutive readings.
- g. Calculate the mean of the five Tachometer readings
- h. Calibration of Speed should be with minimum two RPM set points
 - RPM used for regular run cycle
 - Maximum RPM as prescribed by Manufacturer
- i. The acceptable variation should be $\pm 5\%$ of the display reading of the centrifuge.

Calibration of Timer:

Procedure:

- a. The time display of the centrifuge is calibrated against a calibrated master timer.
- b. Once the desired time is set on the centrifuge, start the master timer
- c. Note down the first reading.
- d. Take four more consecutive readings.
- e. Calculate the mean of the five timer readings
- f. The acceptable variation is $\pm 2\%$ of the display reading of the centrifuge.

Calibration of Temperature:

Procedure:

- a. The temperature display of the centrifuge is calibrated against a master Thermometer/master temperature indicator.
 - b. Once the desired temperature is achieved on the centrifuge, take the reading with master thermometer.
 - c. Note down the first reading.
 - d. Then take four more readings.
 - e. Calculate the mean of five temperature readings.
 - f. The acceptable variation should be ± 1 of display reading.
- Noise level detection & remedial measures for optimal performance
 - General performance of Centrifuge includes overall operation of centrifuge, calibration of all parameters done under acceptable range. In case of any deviation then re-calibration should be performed.
 - Centrifuge should be checked by end user once maintenance and calibration is completed.

2. Microliter Centrifuge

- Cleaning of centrifuge.
 - a. Clean the centrifuge chamber to remove the dust with clean cloth /tissue paper
 - b. Cleaning of centrifuge, inner chamber, and rotors should be done as per manufacturer.
- Inspection and lubrication / oiling at tuners, hinges, locks and all moving parts.
- Lubrication/oiling should be done for tuners, hinge of rotor, lid locking systems. (Manufacturer recommended lubricant should be used)
- Checking functions of all switches and checking all connections.
 - a. Checking of ON/OFF switch,
 - b. Checking of operating panel for RPM/RCF, Time, Lid open & closing and Start/Stop switches for proper functioning.
- Checking of any wear of power supply cord, earthing and electrical shocks. Inspection, calibration and validation of sensors (speed, imbalance) and time measurement.
- **Calibration of Speed (RPM) Calibration of Speed (RPM) & Timer with device traceable to NABL Standards (ISO/IEC 17025:2005 and ISO 15189:2012):**

Calibration of speed:

Instrument used: Calibrated Master Laser Tachometer (Non-contact)

Calibration of: Speed of the Centrifuge (revolutions per minute)

Principle: Laser beam from the Tachometer falls on the reflector tape

Procedure:

- a. Cut a small piece of Reflector tape and stick it between the shaft of the centrifuge and the tube holder
- b. Switch on the centrifuge to the desired speed
- c. Hold the tachometer over the top of the lid of the centrifuge at the center and switch it on.
- d. Hold it in a stable condition till a constant reading is acquired
- e. Note down the first reading.

- f. Take four more consecutive readings.
- g. Calculate the mean of the five Tachometer readings
- h. Calibration of Speed should be with minimum two RPM set points
 - o RPM used for regular run cycle
 - o Maximum RPM as prescribed by Manufacturer
- i. The acceptable variation should be $\pm 5\%$ of the display reading of the centrifuge.

Calibration of Timer:

Procedure:

- a. The time display of the centrifuge is calibrated against a calibrated master timer.
 - b. Once the desired time is set on the centrifuge, start the master timer
 - c. Note down the first reading.
 - d. Take four more consecutive readings.
 - e. Calculate the mean of the five timer readings
 - f. The acceptable variation is $\pm 2\%$ of the display reading of the centrifuge.
- Noise level detection & remedial measures for optimal performance:
 - a. Visually check the noise for Motor and rotor assembly system.
 - General performance of Centrifuge includes overall operation of centrifuge, calibration of all parameters done under acceptable range. In case of any deviation then re-calibration should be performed after necessary corrections.
 - Centrifuge should be checked by end user once maintenance and calibration activities are completed

3. Universal Oven/Oven/ Hot Air Oven

• Complete and thorough cleaning of oven

- a. Before cleaning always switch OFF the equipment.
- b. Clean the inner and outer surface with leak warm water and a little detergent. Do not use acid cleaners and chemical solvents. Ensure that water should not penetrate to the electrical components and dry all plates with a cloth

• Cleaning oiling of door movement and lock assembly

- a. Silicon lubricant or oiling should be done at door hinges and door lock systems for proper operation.

• Checking of switches, heater connections.

- a. Checking of all connection and all switches for their proper operation.
- b. Air Velocity should be checked for Hot Air Oven

• Calibration of Temperature in chamber with devices traceable to NABL Standards (ISO/IEC 17025:2005 and ISO 15189:2012).

- a. Instrument used: Master Digital Thermometer/Temperature indicator
- b. Calibration of : Temperature display on the control panel of oven and laboratory thermometer

Procedure:

- a. Cut a cardboard or a thermocol piece and make 2 holes in the center and place it on a beaker containing distilled water.
- b. Insert the master thermometer and the laboratory thermometer through the holes in such a way that the tip of the thermometers immerses in the water in the beaker. (It should not touch the base of the beaker).
- c. Place this assembly in the oven at one rack/Location.
- d. Close the oven and allow the assembly to attain equilibrium with the temperature of the oven for some time.

- e. After one hour take the first reading of the master thermometer and the laboratory thermometer. Then relocate the above assembly to other racks/Location for minimum five locations.
 - f. Take subsequent four more readings at an interval of 10 minutes (and repeat for each location).
 - g. Calculate the mean of five readings of Master and Laboratory Thermometer
 - h. Acceptable variation is $\pm 3^{\circ}\text{C}$ of the Mean Master Thermometer reading with laboratory thermometer and also with display temperature on the oven.
- **Checking general performance of unit.**
 - a. Checking of temperature distribution, noise level detection, overall operation and alarm functioning of equipment.
 - b. Oven should be checked by end user once maintenance and calibration activities are completed
 - c. In case of any deviation, recalibration should be performed after necessary correction

4. Thermal Cyclers/PCR

- **Cleaning of Thermo cyclers:**
 - a. Manufacturer protocols should be followed for Cleaning
- **Check and cleaning of heating chamber and PCR blocks.**
 - a. Power off the Thermal Cycler, and then remove the power cord. Allow the instrument to cool until the heated cover and sample block(s) reach room temperature. Clean the touch screen with any commercially available LCD cleaning product. Be careful not to scratch the screen. Cleaning the Sample Wells If you use any cleaning or decontamination method, except those recommended in the manual, you risk damaging the equipment. Clean the sample wells once a month or as needed.
- **Cleaning of exhaust fan assembly.**
 - a. Cleaning of back side exhaust fan to remove dust while will effects the **Peltier element efficiency.**
- **Checking of switches and board connections.**
 - a. Checking of all inbuilt switches like STOP, EDIT, DELETE, START, Numerical keyboards & ON/OFF switches.
- **Calibration of Temperature with reference sensor with devices traceable to NABL Standards (ISO/IEC 17025:2005 and ISO 15189:2012)**
 - a. Temperature needs to calibrate for below tempests points as per below table (example) with random wells:

| Set Temperature($^{\circ}\text{C}$) | Avg. Temperature of Left corner wells($^{\circ}\text{C}$) | Avg. Temperature of Middle corner Wells($^{\circ}\text{C}$) | Avg. Temperature of Right corner wells($^{\circ}\text{C}$) |
|---------------------------------------|---|---|--|
| 95 | 95.2 | 95.5 | 95.4 |
| 65 | 65.3 | 65.4 | 65.5 |
| 50 | 50.3 | 50.9 | 50.6 |
| 70 | 70.4 | 70.7 | 70.5 |
| 4 | 4.3 | 4.7 | 4.3 |

All Readings are within acceptable range

Acceptable variation is $\pm 1.5^{\circ}\text{C}$ of the Mean Master Thermometer reading with display temperature on the thermocycler

- **Time validation**
 - a. Respective time for each cycles needs to be verified with calibrated master timer.
- **Peltier element efficiency validation(Checking heating and cooling time / regimes / rates of block)**
 - a. Heating & cooling rates needs to be verified with the use of calibrated master Timer & needs to be reported in the calibration report.

- In case of any deviation, recalibration should be performed after necessary correction
- **Thermal block validation using PCR validation kit if available.**
- **Thermocycler/PCR should be checked by end user once maintenance and calibration activities are completed**

5. Pipette:

- Cleaning of all parts of pipette.
- Greasing for moving parts of pipette.
- Checking of all parts of pipette.
- Calibration and validation of pipette (liquid dispensing volume- Take three beakers and weigh with pipeting and take the average as given below).

| WATER TEMP °C | PIPETTE SETTING ul | WEIGHT IN GRAMS | | WEIGHT IN GRAMS | | WEIGHT IN GRAMS | |
|---------------|--------------------|-----------------|--------|-----------------|--------|-----------------|--------|
| RT | 500 | 1 | 0,4830 | 1 | 0,4844 | 1 | 0,4721 |
| | | 2 | 0,9654 | 2 | 0,9666 | 2 | 0,9722 |
| | | 3 | 1,4468 | 3 | 1,4486 | 3 | 1,4515 |
| | | 4 | 1,9283 | 4 | 1,9307 | 4 | 1,9333 |
| | | 5 | 2,4090 | 5 | 2,4007 | 5 | 2,4118 |
| | | 6 | 2,8897 | 6 | 2,8780 | 6 | 2,8810 |
| | | 7 | 3,3703 | 7 | 3,3559 | 7 | 3,3453 |
| | | 8 | 3,8547 | 8 | 3,8501 | 8 | 3,8455 |
| | | 9 | 4,3373 | 9 | 4,3267 | 9 | 4,3204 |
| | | 10 | 4,8220 | 10 | 4,8057 | 10 | 4,8021 |
| AVERAGE | | 0,4822 | 0,4806 | 0,4802 | | | |
| | | SD : 0,00185 | | | | | |

Instrument used: Master Calibrated Balance

Calibration of: Volume of the Micropipette for volume based on NABL Standards (ISO/IEC 17025:2005 and ISO 15189:2012)

Principle: Gravimetric method – Volume is expressed as weight

Procedure

- Set the micropipette to the desired volume to be calibrated (at least three volumes i.e. min, maximum of the pipette and desired volume by the same pipette).
- Place a weigh boat in the balance and add a small quantity of distilled water to it. In case of spatula balance, add a small quantity of distilled water in the spatula/calibrated weighing balance.
- Tare the weight and allow the balance reading to come to zero.
- Dispense the desired set volume to the weigh boat/spatula.
- Note down the first reading.
- Tare the weight again.
- Repeat the above procedure for 9 more consecutive readings.
- Calculate the mean of the 10 readings.
- Note down the temperature and relative humidity of the room.
- Calculate the % accuracy.
- Repeat the procedure for other two volumes

Example:

| Standard reading (mg) | | | 300 |
|-----------------------|--------------|----------|---------------|
| Reading No. | Reading (mg) | z-factor | Final Reading |
| 1 | 300 | 1.004 | 301.2 |
| 2 | 300 | 1.004 | 301.2 |
| 3 | 301 | 1.004 | 302.20 |
| 4 | 300 | 1.004 | 301.2 |
| 5 | 299 | 1.004 | 300.20 |
| 6 | 300 | 1.004 | 301.2 |
| 7 | 300 | 1.004 | 301.2 |
| 8 | 301 | 1.004 | 302.20 |

| | | | |
|------------------|-------|-------|--------|
| 9 | 300 | 1.004 | 301.2 |
| 10 | 300 | 1.004 | 301.2 |
| MEAN | 300.1 | 1.004 | 301.30 |
| SD | | | 0.57 |
| CV% | | | 0.19 |
| Systematic Error | | | 1.300 |

z- factor is conversion factor ($\mu\text{l}/\text{mg}$) as a function of temperature and pressure for distilled water and has standard references.

| Range of pipette | Expected Accuracy |
|---------------------------|--------------------------|
| 0.5 to 10 μL | At least $\pm 5.0-1.0\%$ |
| 2 to 20 μL | $\pm 3.0-1.0\%$ |
| 20 to 200 μL | $\pm 1.8-0.6\%$ |
| 100 to 1000 μL | $\pm 1.0-0.6\%$ |

In case of any deviation, recalibration should be performed after necessary correction
Pipette should be checked by end user once maintenance and calibration activities are completed

6. Incubator: (General Incubator/BOD Incubator/Bacteriological Incubator)

• Check and cleaning of incubator.

- Regular cleaning of the easy-to-clean inside of the chamber prevents deposits which over time can detract from the appearance and the functionality of the stainless steel chamber. The metal surfaces of the oven can be cleaned with commercially available cleaning agents for stainless steel. It is important to ensure that no rust-forming object comes into contact with the chamber or the stainless steel casing. Rust deposits cause infection of the stainless steel. If any contamination causes rust stains on the surfaces of the chamber, such spots must be cleaned off immediately and if already rusted it needs to be polished.
- Manufacturer protocols should be followed for cleaning

• Checking switches and connections of unit.

• Checking of all connection and all switches for their proper operation

• Calibration and validation of temperature and time measurement with devices traceable to NABL Standards (ISO/IEC 17025:2005 and ISO 15189:2012)

Instrument used: Master Digital Thermometer/Temperature indicator

Calibration of: Temperature display on the control panel and laboratory thermometer

Calibration of Temperature

Procedure:

- Cut a cardboard or a thermocol piece and make 2 holes in the center and place it on a beaker containing distilled water.
- Insert the master thermometer and the laboratory thermometer through the holes in such a way that the tip of the thermometers immerses in the water in the beaker. (It should not touch the base of the beaker).
- Place this assembly in the Incubator at one rack/location (and this has to be repeated for five different locations).
- Close the Incubator and allow the assembly to attain equilibrium with the temperature of the Incubator for some time.
- After one hour take the first reading of the master thermometer and the laboratory thermometer and display temperature on the incubator. Then relocate the above assembly to other racks/location.
- Take subsequent 4 more readings at an interval of 10 minutes.

- g. Calculate the mean of 5 readings of Master and Laboratory Thermometer
- h. Acceptable variation is + 1°C of the Mean Master Thermometer reading with laboratory thermometer and also with display temperature on the incubator.
- i. In case of any deviation, recalibration should be performed after necessary correction

- **Checking of general performance of Incubator:**

- a. Checking of temperature distribution, noise level detection, overall operation and alarm functioning of equipment.
- b. Incubator should be checked by end user once maintenance and calibration activities are completed.

7. Weighing Balance:

- **Check and cleaning of Balance.**

- a. Clean your hands before using the instrument. Clean the container and wipe down its outer surface before placing it on the weighing pan. Put off the fan in the vicinity of the instrument.
- b. Ensure that the instrument is not subjected to a draft of air. Handle the glass doors of instrument carefully.

- **Checking switches and connections of unit.**

- a. Checking all connection of battery adapter to the unit and also all the functioning key like ON/OFF key, stand by key, Tare key, Calibration Key should work as per operating manual.
- b. Don't move the weighing balance in any case.
- c. Don't change the configuration of the instrument.
- d. Don't subject the table carrying weighing balance to severe vibrations or shocks, because it can affect the calibration.

- **Calibration weight measurement with NPL certified weight box using NABL Standards (ISO/IEC 17025:2005 and ISO 15189:2012).**

- a. Perform the calibration procedure in an area that is isolated from heat sources, air currents, and vibrations. It is recommended that the calibration to be performed in an environment which is as close to 68 °F (25 °C) as possible.
- b. The balance or scale and the precision mass standards are to be placed in the environment in which they are to be calibrated for a period of at least 24 hours prior to calibration.

Procedure:

- a. Plug the power cord into a power supply compatible to the power requirements of the electronic balance or scale. NOTE 1.-A warm-up period may be required for some electronic balances or scales.
- b. Tare the balance or scale and check for a zero balance reading.
- c. Record the balance or scale reading.
- d. Place precision mass standards Corresponding to Minimum, 25, 50, 75, and 100 percent capacity of the balance or scale on the beam or pan.
- e. Record the mass of the precision mass standard applied and the balance or scale reading for each mass measurement.
- f. Calculate error for each mass measurement.
- g. Calculate percent error for each mass measurement.

Calculations

Calculate error for each mass measurement:

$$(4) = (2) - (3)$$

Where,

(4) = error, g or mg

(2) = mass of precision mass standard, g or mg

(3) = balance or scale reading, g or mg

Calculate percent error for each mass measurement.

$$(5) = 100 (4) / (2)$$

Where,

(5) = percent error

(4) = error, g or mg

(2) = mass of precision mass standard, g or mg

100 = convert from decimal to percent

Percentage of error should be as per manufacturer's acceptable variation

- Repeatability test and eccentricity test needs to be carried out for balance and should be report in the calibration report.
- In case of any deviation, recalibration should be performed after necessary correction

- **Checking general performance of unit**
 - a. Checking of overall performance of balance, ensure that balance calibration should be within acceptable range. In case of any deviation then re-calibration should be performed.
 - b. Balance should be checked by end user once maintenance and calibration activities are completed.

8. Water Bath

- **Check and cleaning of water bath including the water inlet and outlet**
 - a. By regular cleaning, it's easy to clean the tank and residues are avoided which at continuous influence can impair the outfit and function of the water bath.
 - b. Use only detergents and agents appropriate for stainless steel cleaning.
 - c. After cleaning and after draining the water the tank must be rinsed thoroughly with clean water and dried carefully.
 - d. Manufacturer protocols should be followed for cleaning
- **Checking switches and connections of unit.**
 - a. Checking of input power connection and power socket to the bath as per manufacturer instruction.
 - b. Checking for placement of the unit, the unit must be placed on a horizontal and non-flammable surface which can't tilt.
 - c. Checking of all switches for proper functioning.
- **Calibration and validation of temperature with regard to Thermostat / Digital controller with devices traceable to NABL Standards (ISO/IEC 17025:2005 and ISO 15189:2012).**

Procedure:

- a. First set the temperature of water bath for a particular set point.
- b. After attaining temperature place both laboratory thermometer and master thermometer/probe with temperature indicator.
- c. Take first readings for both laboratory and master thermometer and as well as Controller display temperature.
- d. Then take subsequent 4 more readings at an interval of 10 minutes at different locations.
- e. Then calculate mean for all the readings.

- f. Acceptable variation is $\pm 2^{\circ}\text{C}$ of the Mean Master Thermometer reading with laboratory thermometer and also with display temperature on the controller of water bath.
- g. In case of any deviation, recalibration should be performed after necessary correction
- **Minimum and Maximum water level should be checked as per manufacturer.**
 - a. Before start of equipment water level should be maintained in between minimum and maximum level.
- **Checking general performance of unit.**
 - a. Checking of overall operation of the unit and also verifying that calibration range should be within acceptable range.
 - b. Water bath should be checked by end user once maintenance and calibration activities are completed.

9. Inspissator

- **Complete cleaning of Inspissator**
 - a. Clean the Inspissator with a damp cloth after disconnecting the Inspissator from the electricity supply. Avoid the use of solvents for cleaning. Clean the immersed parts using proprietary heating element cleaners.
- **Checking of switches, control panel and connections of unit.**
 - a. Checking of input power connection and power socket to the bath as per manufacturer instruction. Checking for placement of the unit, the unit must be placed on a horizontal and non-flammable surface which can't tilt .Also checking of all switches for proper functioning.
- **Checking the functionality of heating unit.**
 - a. Checking of heater element if there is any visible damage (IF heater element mounted externally).And checking of heating rate means time taken from ambient to reach 85 set point.
- **Calibration and validation of temperature and time measurement with devices traceable to NABL Standards (ISO/IEC 17025:2005 and ISO 15189:2012).**

Procedure:

- a. First set the temperature of Inspissator for a particular set point.
- b. After attaining temperature place both laboratory thermometer and master thermometer/probe with temperature indicator.
- c. Take first readings for both laboratory and master thermometer and as well as Controller display temperature.
- d. Then take subsequent four more readings at an interval of 10 minutes at different locations.
- e. Then calculate mean for all the readings.
- f. Acceptable variation is $\pm 2^{\circ}\text{C}$ of the Mean Master Thermometer reading with laboratory thermometer and also with display temperature on the controller of Inspissator
- g. In case of any deviation, recalibration should be performed after necessary correction
- **Checking general performance of unit.**
 - a. Checking of overall operation of the unit and also verifying that calibration range should be within acceptable range.
 - b. Inspissator should be checked by end user once maintenance and calibration activities are completed

10. Autoclave: Horizontal and Vertical

- Check and cleaning of Autoclave.
- Checking of switches and connection units.
- Check the gasket.
- Degrease and regrease the movable parts like the pressure changeover, hinges of the door etc.
- Check water level in the steam generator.
- Put the autoclave ON.
- Check for the performance, check leaks from the tubings.
- Calibration and validation of temperature and pressure with devices traceable to **NABL Standards (ISO/IEC 17025:2005 and ISO 15189:2012)**.

Calibration of Temperature display:

Procedure:

- a. The temperature display of the Autoclave is calibrated against a master thermometer/master temperature indicator.
- b. Once the desired temperature is achieved, take the reading with master thermometer.
- c. Note down the first reading.
- d. Then take four more readings.
- e. Calculate the mean of five temperature readings.
- f. The acceptable variation should be $\pm 3^{\circ}\text{C}$ of display reading.

Calibration of Pressure Gauge:

Procedure:

- a. The pressure gauge of the Autoclave is calibrated against a master pressure gauge
- b. Once the desired pressure is achieved, take the reading with master instruments.
- c. Note down the first reading.
- d. Then take four more readings.
- e. Calculate the mean of five pressure readings.
- f. The acceptable variation should be ± 2 psi of display reading.

- In case of any deviation, recalibration should be performed after necessary correction
- **Checking the efficacy of aseptic process with Biological Indicator.**
- **Checking general performance of unit.**
 - a. Checking of overall operation of the unit and also verifying that calibration range should be within acceptable range.
 - b. Autoclave should be checked by end user once maintenance and calibration activities are completed

11. Water Distillation Unit:

- Check and cleaning of Water distillation unit as per manufacturer protocols.
- Quality check of water should be checked.
- For removal of Scaling, concentrated HCl may be used.
- Before taking to use, rinse 3-4 times with fed water to remove HCl traces.
- Start the unit, check the pH of the water.
- Checking of switches, connections, inlet, outlet, and power supply unit.
- Element verification should be done
- Recharging of the water softener if present should be done as per manufacturer's protocol
- Checking general performance of unit.
 - a. Checking of overall operation of the unit

- b. Distillation unit should be checked by end user once maintenance activities are completed

12. Electric Micro Incinerator/Loop Sterilizer:

Calibration of Temperature:

Procedure:

- a. The temperature of Loop sterilizer is calibrated against a master thermometer/master temperature indicator.
- b. Once the desired temperature is achieved, take the reading with master thermometer.
- c. Note down the first reading.
- d. Then take four more readings.
- e. Calculate the mean of five temperature readings.
- f. The acceptable variation should be $\pm 5-10$ of display reading.
- g. In case of any deviation, recalibration should be performed after necessary correction

- **Checking general performance of unit.**

- a. Checking of overall operation of the unit, electrical shock, power cord.
- b. Loop Sterilizer should be checked by end user once maintenance and calibration activities are completed

13. Flexible Thermometer:

Calibration of Temperature:

Procedure:

- a. The Laboratory thermometer/Flexible thermometer calibrated with reference to the master calibrated thermometer as per NABL Standards (ISO/IEC 17025:2005 and ISO 15189:2012).
 - b. Once the desired temperature is achieved, take the reading with master thermometer & also for lab thermometer.
 - c. Note down the first reading.
 - d. Then take four more readings.
 - e. Calculate the mean of five temperature readings.
 - f. The acceptable variation should be ± 1 of display reading.
 - g. Minimum and Maximum temperature range for the thermometer should be taken.
 - h. In case of any deviation, recalibration should be performed after necessary correction
- Temperature probe should be checked for any wear and tear.
 - Thermometer should be checked by end user once maintenance and calibration is completed.

14. Walk in Cold Room

- **Cleaning and oiling of door movement and door lock assembly.**

- a. Silicon lubricant or oiling should be done at door hinges and door lock systems for proper operation.

- **Checking of switches, compressor connections.**

- a. Checking of all connection and all switches for their proper operation that means operating keys are working properly.

- **Checking current consumption of each compressor.**

- a. Current consumption can be checked by Clamp multimeter. First put the clamp meter at the relay end of compressor, when cooling start ,wait for 2 min(as compressor get initially charged up so its show high load), then the clamp meter shows the actual current consumption

- **Inspection and cleaning of refrigeration system.**
 - a. Inspection and wet cleaning of outdoor refrigeration system to be done to increase the cooling efficiency.
- **Calibration of Temperature at various locations inside the cold room in respect to standard master thermometer as per NABL Standards (ISO/IEC 17025:2005 and ISO 15189:2012).**

Calibration of Temperature:

Procedure:

- a. The temperature display is calibrated against a master thermometer/master temperature indicator.
 - b. Once the desired temperature is achieved, take the reading with master thermometer.
 - c. Note down the first reading.
 - d. Then take four more readings at different locations.
 - e. Calculate the mean of five temperature readings.
 - f. The acceptable variation should be ± 2 of display reading.
 - g. In case of any deviation, recalibration should be performed after necessary correction
- **Check of temperature pull down:**
 - a. Temperature pull down means how much time taken by the particular equipment to go beyond the acceptable temperature range with set point while door open and after that how much time taken by the equipment to reach the set point.
 - **Checking of general performance of Walk in Cold Room including the followings:**
 - a. Oil and refrigerant leak check;
 - b. Door seal check;
 - c. Temperature control check, using the temperature charts
 - d. Defrosting if needed
 - e. Checking of Ice formation on the evaporator, pipes and fins
 - f. Checking of operator panel(Control panel, digital display)
 - Walk in Cold Room should be checked by end user once maintenance and calibration activities are completed

15. Walk in Incubator Room:

- **Cleaning and oiling of door movement and door lock assembly.**
 - a. Silicon lubricant or oiling should be done at door hinges and door lock systems for proper operation.
- **Checking of switches, compressor connections.**
 - a. Checking of all connection and all switches for their proper operation that means operating keys are working properly.
- **Checking current consumption of each compressor.**
 - a. Current consumption can be checked by Clamp multimeter. First put the clamp meter at the relay end of compressor, when cooling start, wait for 2 min(as compressor get initially charged up so its show high load), then the clamp meter shows the actual current consumption
- **Inspection and cleaning of refrigeration system.**
 - a. Inspection and wet cleaning of refrigeration system to be done to increase the cooling efficiency.
- **Checking of switches, thermostat, heating unit, temperature control unit and display, thermometer and other connections of units.**

- **Calibration of Temperature at various locations inside the incubator room in respect to standard master thermometer as per NABL Standards (ISO/IEC 17025:2005 and ISO 15189:2012).**

Calibration of Temperature:

Procedure:

- The temperature display is calibrated against a master thermometer/master temperature indicator.
 - Once the desired temperature is achieved, take the reading with master thermometer.
 - Note down the first reading.
 - Then take four more readings at different locations.
 - Calculate the mean of five temperature readings.
 - The acceptable variation should be ± 2 of display reading.
 - In case of any deviation, recalibration should be performed after necessary correction
- **Check of temperature pull down:**
 - Temperature pull down means how much time taken by the particular equipment to go beyond the acceptable temperature range with set point while door open and after that how much time taken by the equipment to reach the set point.
 - **Checking general performance of unit:**
 - Walk in Incubator Room should be checked by end user once maintenance and calibration activities are completed

Important Note to be followed by Agency:

- Manufacturer protocols should be followed for cleaning
- For Temperature calibration: Agency should use Master temperature instrument which is certified and traceable as per NABL Standards (ISO/IEC 17025:2005 and ISO 15189:2012) for the range of temperatures of the above equipment used in TB labs.
- End user should check all the equipment once maintenance and calibration activities are completed by Service Engineer before signing the PM report
- Manufacturer protocols, NABL/National/International standards should be followed for calibration and validation
- In case of any deviation in calibration and validation parameter of any equipment, recalibration and validation should be performed after necessary correction and reported.
- Calibration report should be prepared and submitted as per ISO/IEC 17025-2005 (Section 5.10)- reporting the results.

List of Master Instruments:

Calibration, validation and traceability certificate to be provided for each equipment at the time of preventive maintenance/ calibration and validation is done.

| Sl. No. | Testing Instruments | Make | Model | Reference/ Tolerance Range |
|---------|---------------------|------|-------|----------------------------|
| | | | | |
| | | | | |
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SCHEDULES

SCHEDULES are proposed to be made on the basis of four main regions of India. Each Regional Schedule comprise of individuals laboratories comes under those region. Bidder may submit their proposal for any nos. or all schedules mentioned herewith but they must consider all the laboratories under each Schedule Cost.

| Schedule I - BSL 3 Lab Facility (North Region) | | |
|---|---------------|------------------------|
| Sl. No. | State | Name of the Lab |
| 1 | Delhi | NDTBC |
| 2 | Haryana | IRL Karnal |
| 3 | Punjab | IRL Patiala |
| 4 | Chandigarh | PGI Chandigarh |
| 5 | Uttar Pradesh | IMS, BHU Varanasi |
| 6 | Uttar Pradesh | IRL Agra |
| 7 | Uttar Pradesh | IRL Lucknow |
| Total Cost for Schedule - I : | | |

| Schedule II - BSL 3 Lab Facility (South Region) | | |
|--|----------------|------------------------|
| Sl. No. | State | Name of the Lab |
| 1 | Telangana | IRL Hyderabad |
| 2 | Andhra Pradesh | Vizag |
| 3 | Karnataka | KIMS Hubli |
| 4 | Karnataka | IRL Bangalore |
| 5 | Kerala | IRL Thiruvanthapuram |
| 6 | Tamil Nadu | IRL Chennai |
| 7 | Puducherry | IRL Puducherry |
| 8 | Karnataka | ICELT Bangalore |
| Total Cost for Schedule - II : | | |

| Schedule III - BSL 3 Lab Facility (East Region) | | |
|--|--------------|------------------------|
| Sl. No. | State | Name of the Lab |
| 1 | Assam | IRL Guwahati |
| 2 | Bihar | IRL Patna |
| 3 | Chhattisgarh | IRL Raipur |
| 4 | Jharkhand | IRL Ranchi |
| 5 | Odisha | IRL Cuttack |
| 6 | West Bengal | IRL Kolkata |
| 7 | West Bengal | NBMC Siliguri |
| Total Cost for Schedule - III : | | |

| Schedule IV - BSL 3 Lab Facility (West Region) | | |
|---|----------------|------------------------|
| Sl. No. | State | Name of the Lab |
| 1 | Gujarat | IRL Ahmedabad |
| 2 | Maharashtra | IRL Nagpur |
| 3 | Rajasthan | SMS Jaipur |
| 4 | Gujarat | IRL Jamnagar |
| 5 | Madhya Pradesh | IRL Indore |
| 6 | Maharashtra | IRL Pune |
| 7 | Rajasthan | IRL, Ajmer |
| Total Cost for Schedule - IV : | | |

| Schedule V - BSC and laminar Flow cabinet (North Region) | | |
|---|------------------|------------------------|
| Sl. No. | State | Name of the Lab |
| 1 | Uttar Pradesh | IRL Agra |
| 2 | Delhi | NDTC |
| 3 | Himachal Pradesh | IRL, Dharampur |
| 4 | Punjab | IRL Patiala |
| 5 | Uttar Pradesh | IRL Lucknow |
| 6 | Delhi | AIIMS |
| 7 | Uttar Pradesh | IMS BHU |
| Total Cost for Schedule - V : | | |

| Schedule VI - BSC and laminar Flow cabinet (South Region) | | |
|--|----------------|------------------------|
| Sl. No. | State | Name of the Lab |
| 1 | Tamil Nadu | IRL Chennai |
| 2 | Kerala | IRL Trivandrum |
| 3 | Karnataka | KIMS,Hubli |
| 4 | Telangana | IRL Hyderabad |
| 5 | Andhra Pradesh | Vizag |
| 6 | Karnataka | ICELT, Bangalore |
| 7 | Karnataka | IRL Bangalore |
| 8 | Puducherry | IRL, Pondicherry |
| Total Cost for Schedule - VI : | | |

| Schedule VII - BSC and laminar Flow cabinet (East Region) | | |
|--|--------------|------------------------|
| Sl. No. | State | Name of the Lab |
| 1 | West Bengal | IRL Kolkata |
| 2 | Assam | IRL Guwahati |
| 3 | Bihar | IRL Patna |
| 4 | Chhattisgarh | IRL Raipur |
| Total Cost for Schedule - VII : | | |

| Schedule VIII - BSC and laminar Flow cabinet (West Region) | | |
|---|----------------|------------------------|
| Sl. No. | State | Name of the Lab |
| 1 | Rajasthan | Ajmer |
| 2 | Rajasthan | SMS Jaipur |
| 3 | Madhya Pradesh | IRL Indore |
| 4 | Gujarat | Ahmedabad |
| 5 | Gujarat | Jamnagar |
| 6 | Maharashtra | Pune |
| 7 | Maharashtra | Nagpur |
| 8 | Maharashtra | Mumbai |
| 9 | Maharashtra | Aurangabad |
| Total Cost for Schedule - VIII : | | |

| Schedule IX - Autoclave | | |
|---------------------------------------|------------------|------------------------|
| Sl. No. | State | Name of the Lab |
| 1 | Andhra Pradesh | Vizag |
| 2 | Assam | IRL Guwahati |
| 3 | Bihar | IRL Patna |
| 4 | Delhi | AIIMS |
| 5 | Delhi | NITRD/ LRS |
| 6 | Gujarat | Ahmedabad |
| 7 | Gujarat | Jamnagar |
| 8 | Himachal Pradesh | IRL,Dharampur |
| 9 | Jammu & Kashmir | IRL Srinagar |
| 10 | Karnataka | ICELT |
| 11 | Karnataka | KIMS,Hubli |
| 12 | Kerala | IRL, Trivandrum |
| 13 | Madhya Pradesh | IRL Indore |
| 14 | Maharashtra | Aurangabad |
| 15 | Maharashtra | Mumbai |
| 16 | Maharashtra | Nagpur |
| 17 | Maharashtra | Pune |
| 18 | Puducherry | IRL,Pondicherry |
| 19 | Punjab | IRL Patiala |
| 20 | Rajasthan | Jodhpur |
| 21 | Rajasthan | SMS Jaipur |
| 22 | Telangana | IRL, Hyderabad |
| 23 | Uttar Pradesh | AMU Aligarh |
| 24 | Uttar Pradesh | IMS BHU |
| 25 | Uttar Pradesh | IRL Agra |
| 26 | Uttar Pradesh | IRL Lucknow |
| Total Cost for Schedule - IX : | | |

| Schedule X - Hot Air Oven, Distillation Unit, Water bath, Inspissator, Thermometer (Flexible), Micro Incinerator, Weighing Balance | | |
|---|------------------|-------------------------|
| Sl. No. | State | Name of the Lab* |
| 1 | Andhra Pradesh | Vizag |
| 2 | Assam | IRL Guwahati |
| 3 | Bihar | IRL Patna |
| 4 | Bihar | Bhagalpur |
| 5 | Chandigarh | PGIMER,Chandigarh |
| 6 | Chhatisgarh | IRL Raipur |
| 7 | Delhi | NDTC |
| 8 | Delhi | AIIMS |
| 9 | Delhi | NITRD/ LRS |
| 10 | Gujarat | Ahmedabad |
| 11 | Gujarat | Jamnagar |
| 12 | Haryana | IRL Karnal |
| 13 | Himachal Pradesh | IRL,Dharampur |
| 14 | Jammu & Kashmir | IRL Srinagar |

| | | |
|--------------------------------------|----------------|------------------|
| 15 | Jharkhand | IRL Ranchi |
| 16 | Karnataka | IRL, Bangalore |
| 17 | Karnataka | KIMS,Hubli |
| 18 | Karnataka | ICELT |
| 19 | Kerala | IRL, Trivandrum |
| 20 | Madhya Pradesh | BMHRC Bhopal |
| 21 | Madhya Pradesh | IRL Indore |
| 22 | Maharashtra | Aurangabad |
| 23 | Maharashtra | Nagpur |
| 24 | Maharashtra | Mumbai |
| 25 | Maharashtra | Pune |
| 26 | Odisha | IRL Cuttack |
| 27 | Odisha | RMRC Bhubaneswar |
| 28 | Puducherry | IRL,Pondicherry |
| 29 | Punjab | IRL Patiala |
| 30 | Rajasthan | Jodhpur |
| 31 | Rajasthan | Ajmer |
| 32 | Rajasthan | SMS Jaipur |
| 33 | Tamil Nadu | IRL,CHENNAI |
| 34 | Tamil Nadu | NIRT |
| 35 | Telangana | IRL, Hyderabad |
| 36 | Uttar Pradesh | AMU Aligarh |
| 37 | Uttar Pradesh | JALMA |
| 38 | Uttar Pradesh | IMS BHU |
| 39 | Uttar Pradesh | IRL Agra |
| 40 | Uttar Pradesh | IRL Lucknow |
| 41 | Uttarkhand | Dehradun |
| 42 | West Bengal | IRL Siliguri |
| 43 | West Bengal | IRL Kolkata |
| Total Cost for Schedule - X : | | |

| Schedule XI - Walk in Cold Room and Walk in Incubator | | |
|--|------------------|------------------------|
| Sl. No. | State | Name of the Lab |
| 1 | Andhra Pradesh | Vizag |
| 2 | Assam | IRL Guwahati |
| 3 | Bihar | IRL Patna |
| 4 | Delhi | NDTC |
| 5 | Delhi | NITRD/ LRS |
| 6 | Gujarat | Ahmedabad |
| 7 | Haryana | IRL Karnal |
| 8 | Himachal Pradesh | IRL,Dharampur |
| 9 | Jammu & Kashmir | IRL Srinagar |
| 10 | Karnataka | IRL, Bangalore |
| 11 | Karnataka | KIMS,Hubli |
| 12 | Karnataka | ICELT |
| 13 | Kerala | IRL, Trivandrum |
| 14 | Madhya Pradesh | BMHRC Bhopal |
| 15 | Maharashtra | Aurangabad |

| | | |
|---------------------------------------|---------------|------------------|
| 16 | Maharashtra | Nagpur |
| 17 | Maharashtra | Mumbai |
| 18 | Odisha | RMRC Bhubaneswar |
| 19 | Puducherry | IRL,Pondicherry |
| 20 | Punjab | IRL Patiala |
| 21 | Rajasthan | Ajmer |
| 22 | Tamil Nadu | IRL,CHENNAI |
| 23 | Telangana | IRL, Hyderabad |
| 24 | Uttar Pradesh | IRL Agra |
| 25 | Uttar Pradesh | IRL Lucknow |
| 26 | West Bengal | IRL Siliguri |
| 27 | West Bengal | IRL Kolkata |
| Total Cost for Schedule - XI : | | |

| Schedule XII - Incubator | | |
|--|------------------|------------------------|
| Sl. No. | State | Name of the Lab |
| 1 | Andhra Pradesh | Vizag |
| 2 | Assam | IRL Guwahati |
| 3 | Bihar | IRL Patna |
| 4 | Delhi | AIIMS |
| 5 | Delhi | NITRD/ LRS |
| 6 | Gujarat | Ahmedabad |
| 7 | Gujarat | Jamnagar |
| 8 | Haryana | IRL Karnal |
| 9 | Himachal Pradesh | IRL,Dharampur |
| 10 | Jammu & Kashmir | IRL Srinagar |
| 11 | Karnataka | IRL, Bangalore |
| 12 | Karnataka | KIMS,Hubli |
| 13 | Kerala | IRL, Trivandrum |
| 14 | Madhya Pradesh | BMHRC Bhopal |
| 15 | Madhya Pradesh | IRL Indore |
| 16 | Maharashtra | Nagpur |
| 17 | Maharashtra | Mumbai |
| 18 | Maharashtra | Pune |
| 19 | Odisha | RMRC Bhubaneswar |
| 20 | Puducherry | IRL,Pondicherry |
| 21 | Punjab | IRL Patiala |
| 22 | Rajasthan | SMS Jaipur |
| 23 | Uttar Pradesh | AMU Aligarh |
| 24 | Uttar Pradesh | IMS BHU |
| 25 | Uttar Pradesh | IRL Agra |
| 26 | Uttar Pradesh | IRL Lucknow |
| Total Cost for Schedule - XII : | | |

| Schedule XIII - Pipette, Thermo cycler, Microliter Centrifuge, Refrigerated Centrifuge | | |
|---|----------------|------------------------|
| Sl. No. | State | Name of the Lab |
| 1 | Assam | IRL Guwahati |
| 2 | Bihar | IRL Patna |
| 3 | Delhi | NDTC |
| 4 | Delhi | AIIMS |
| 5 | Delhi | AIIMS |
| 6 | Gujarat | Ahmedabad |
| 7 | Jharkhand | IRL Ranchi |
| 8 | Kerala | IRL, Trivandrum |
| 9 | Madhya Pradesh | BMHRC Bhopal |
| 10 | Odisha | RMRC Bhubaneswar |
| 11 | Puducherry | IRL,Pondicherry |
| 12 | Punjab | IRL Patiala |
| 13 | Rajasthan | Ajmer |
| 14 | Uttar Pradesh | AMU Aligarh |
| 15 | Uttar Pradesh | JALMA |
| 16 | Uttar Pradesh | IRL Lucknow |
| Total Cost for Schedule - XIII : | | |

Laboratory wise Inventory**Schedule No. I - BSL 3 Facility (North Region)**

| Sl. No. | Sch I | Region | State | BSL 3 facility | Qty. |
|---------|-------|--------|---------------|-------------------|------|
| 1 | Sch I | North | Delhi | NDTBC | 1 |
| 2 | Sch I | North | Haryana | IRL Karnal | 1 |
| 3 | Sch I | North | Punjab | IRL Patiala | 1 |
| 4 | Sch I | North | Chandigarh | PGI Chandigarh | 1 |
| 5 | Sch I | North | Uttar Pradesh | IMS, BHU Varanasi | 1 |
| 6 | Sch I | North | Uttar Pradesh | IRL Agra | 1 |
| 7 | Sch I | North | Uttar Pradesh | IRL Lucknow | 1 |

Schedule No. II - BSL 3 Facility (South Region)

| Sl. No. | Sch II | Region | State | C&DST lab-BSL 3 facility | Qty. |
|---------|--------|--------|----------------|--------------------------|------|
| 1 | Sch II | South | Telangana | IRL Hyderabad | 1 |
| 2 | Sch II | South | Andhra Pradesh | Vizag | 1 |
| 3 | Sch II | South | Karnataka | KIMS Hubli | 1 |
| 4 | Sch II | South | Karnataka | IRL Bangalore | 1 |
| 5 | Sch II | South | Kerala | IRL Thiruvanthapuram | 1 |
| 6 | Sch II | South | Tamil Nadu | IRL Chennai | 2 |
| 7 | Sch II | South | Puducherry | IRL Puducherry | 1 |
| 8 | Sch II | South | Karnataka | ICELT Bangalore | 1 |

Schedule No. III - BSL 3 Facility (East Region)

| Sl. No. | Sch III | Region | State | C&DST lab-BSL 3 facility | Qty. |
|---------|---------|--------|--------------|--------------------------|------|
| 1 | Sch III | East | Assam | IRL Guwahati | 1 |
| 2 | Sch III | East | Bihar | IRL Patna | 1 |
| 3 | Sch III | East | Chhattisgarh | IRL Raipur | 1 |
| 4 | Sch III | East | Jharkhand | IRL Ranchi | 1 |
| 5 | Sch III | East | Odisha | IRL Cuttack | 1 |
| 6 | Sch III | East | West Bengal | IRL Kolkata | 1 |
| 7 | Sch III | East | West Bengal | NBMC Siliguri | 1 |

Schedule No. IV - BSL 3 Facility (West Region)

| Sl. No. | Sch IV | Region | State | C&DST lab-BSL 3 facility | Qty. |
|---------|--------|--------|----------------|--------------------------|------|
| 1 | Sch IV | West | Gujarat | IRL Ahmedabad | 2 |
| 2 | Sch IV | West | Maharashtra | IRL Nagpur | 1 |
| 3 | Sch IV | West | Rajasthan | SMS Jaipur | 1 |
| 4 | Sch IV | West | Gujarat | IRL Jamnagar | 1 |
| 5 | Sch IV | West | Madhya Pradesh | IRL Indore | 1 |
| 6 | Sch IV | West | Maharashtra | IRL Pune | 1 |
| 7 | Sch IV | West | Rajasthan | IRL Ajmer | 1 |

Schedule No. V - BSCs and Laminar Flow (North Region)

| Sl. No. | State | Site | Equipment Name | Qty. | Make | Model | Serial No. | Installation Date/Month | Warranty Status |
|---------|------------------|----------------|-------------------------------|------|----------------------|---------------|------------------------|-------------------------|-----------------|
| 1 | Uttar Pradesh | IRL Agra | Biosafety cabinet Class II A2 | 1 | Baker Co. | SG403A | 100089 | 2/25/2013 | Out of Warranty |
| 2 | Uttar Pradesh | IRL Agra | Biosafety cabinet Class II A2 | 1 | Baker Co. | SG403A | 100093 | 2/25/2013 | Out of Warranty |
| 3 | Delhi | NDTC | Biosafety cabinet Class II A2 | 1 | Baker Co. | SG403AHE-INT | 1000-2 | 3/15/2011 | Out of warranty |
| 4 | Delhi | NDTC | Biosafety cabinet Class II A2 | 1 | Baker Co. | SG403AHE-INT | 100101 | 3/15/2011 | Out of warranty |
| 5 | Delhi | NDTC | Biological safety Cabinet | 1 | kartos international | -- | CTD/NDTBC/BSC/KARTOS/1 | 1/1/2004 | Out of warranty |
| 6 | Himachal Pradesh | IRL, Dharampur | Biosafety Cabinet Class II B1 | 1 | NUAIRE | NU-427-400E | 1338111103098 | 1/1/2012 | Out of Warranty |
| 7 | Himachal Pradesh | IRL, Dharampur | Biosafety Cabinet Class II B1 | 1 | NUAIRE | NU-427-400E | 133803110209 | 1/1/2012 | Out of Warranty |
| 8 | Punjab | IRL Patiala | Biosafety Cabinet Class II B1 | 1 | NUAIRE | NU-427-400E | 133707102809 | 2/22/2010 | Out of Warranty |
| 9 | Punjab | IRL Patiala | Biosafety Cabinet Class II B1 | 1 | NUAIRE | NU-427-400E | 133800110209 | 2/22/2010 | Out of Warranty |
| 10 | Uttar Pradesh | IRL Lucknow | Biosafety Cabinet Class II B1 | 1 | NUAIRE | NU-427-400E | 133809110309 | 11/26/2010 | Out of Warranty |
| 11 | Uttar Pradesh | IRL Lucknow | Biosafety Cabinet Class II B1 | 1 | NUAIRE | NU-427-400E | 133708102809 | 11/26/2010 | Out of Warranty |
| 12 | Delhi | AIIMS | Biological safety Cabinet | 1 | Haier Medical | HR40-IIB2 | - | 1/1/2008 | Out of Warranty |
| 13 | Delhi | AIIMS | Biological safety Cabinet | 1 | Clean Air | CAB1200 | - | 1/1/2008 | Out of Warranty |
| 14 | Delhi | AIIMS | Biological safety Cabinet | 1 | Clean Air | CAB1200 | - | 1/1/2008 | Out of Warranty |
| 15 | Uttar Pradesh | IMS BHU | Biological safety Cabinet | 1 | Clean Air | CBS1200-II-B2 | 248/2011-12 | 12/1/2013 | Out of Warranty |
| 18 | Uttar Pradesh | IRL Agra | Laminar Air Flow | 1 | Baker Co. | EG-6252 | 100025 | 3/22/2014 | Out of Warranty |

Schedule No. VI - BSCs and Laminar Flow (South Region)

| Sl. No. | State | Site | Equipment Name | Qty | Make | Model | Serial No. | Installation Date/Month | Warranty Status |
|---------|----------------|------------------|---------------------------------|-----|--------------|---------------|-----------------|-------------------------|-----------------|
| 1 | Tamil Nadu | IRL Chennai | Biosafety cabinet Class II A2 | 1 | Baker Co. | SG403A | 100222 | 9/3/2012 | Out of warranty |
| 2 | Tamil Nadu | IRL Chennai | Biosafety cabinet Class II A2 | 1 | Baker Co. | SG403A | 100210 | 9/3/2012 | Out of warranty |
| 3 | Kerala | IRL Trivandrum | Biosafety cabinet Class II A2 | 1 | Baker Co. | SG403A-HE-INT | 100103 | 4/8/2010 | Out of warranty |
| 4 | Kerala | IRL Trivandrum | Biosafety cabinet Class II A2 | 1 | Baker Co. | SG403A-HE-INT | 100106 | 3/9/2011 | Out of warranty |
| 5 | Kerala | IRL Trivandrum | Biological safety Cabinet | 1 | Alpha Linear | BS3422-A2 | 929 | 1/12/2007 | Out of warranty |
| 6 | Kerala | IRL Trivandrum | Biological safety Cabinet | 1 | Alpha Linear | BS3422-A2 | 982 | 6/20/2008 | Out of warranty |
| 7 | Kerala | IRL Trivandrum | Biological safety Cabinet | 1 | Alpha Linear | BS3422-A2 | 973 | 3/15/2010 | Out of warranty |
| 8 | Kerala | IRL Trivandrum | Biological safety Cabinet | 1 | Alpha Linear | BS3422-A2 | 972 | 4/8/2010 | Out of warranty |
| 9 | Kerala | IRL Trivandrum | Biological safety Cabinet | 1 | Clean Air | CBS1200 | IRL-117 | 1/16/2013 | Out of warranty |
| 10 | Karnataka | KIMS,Hubli | Biosafety cabinet Class II A2 | 1 | Baker Co. | SG403A-HE-INT | 100086 | 12/1/2012 | Out of Warranty |
| 11 | Karnataka | KIMS,Hubli | Biosafety cabinet Class II A2 | 1 | Baker Co. | SG403A-HE-INT | 100088 | 12/1/2012 | Out of Warranty |
| 12 | Telangana | IRL Hyderabad | Biosafety cabinet Class II A2 | 1 | Baker Co. | SG403A | 100111 | 4/20/2007 | Out of Warranty |
| 13 | Telangana | IRL Hyderabad | Biosafety cabinet Class II A2 | 1 | Baker Co. | SG403A | 100110 | 4/20/2007 | Out of Warranty |
| 14 | Andhra Pradesh | Vizag | Biosafety cabinet Class II A2 | 1 | Baker Co. | SG403A-HE | 100090 | 11/4/2012 | Out of warranty |
| 15 | Andhra Pradesh | Vizag | Biosafety cabinet Class II A2 | 1 | Baker Co. | SG403A-HE | 100094 | 11/4/2012 | Out of warranty |
| 16 | Karnataka | IRL Bangalore | Biosafety Cabinet Class II B1 | 1 | NUAIRE | NU-427-400E | 133804110209 | 1/1/2012 | Out of Warranty |
| 17 | Karnataka | IRL Bangalore | Biosafety Cabinet Class II B1 | 1 | NUAIRE | NU-427-400E | 133711102809 | 1/1/2012 | Out of Warranty |
| 18 | Karnataka | ICELT Bangalore | Biosafety cabinet Class II A2 | 1 | Baker Co. | SG403A-HE-INT | 100085 | 1/1/2010 | Out of Warranty |
| 19 | Karnataka | ICELT Bangalore | Biosafety cabinet Class II A2 | 1 | Baker Co. | SG403A-HE-INT | 100079 | 1/1/2010 | Out of Warranty |
| 20 | Karnataka | ICELT Bangalore | CLASS 1 TYPE Bio safety cabinet | 1 | Klendzair | NA | NA | 1/1/2011 | Out of Warranty |
| 21 | Karnataka | ICELT Bangalore | CLASS 1 TYPE Bio safety cabinet | 1 | NA | NA | MC 8201A | 1/1/2011 | Out of Warranty |
| 22 | Puducherry | IRL, Pondicherry | Biological safety Cabinet | 1 | Clean Air | NA | IRL_Pondy-LAF-1 | 1/30/2001 | Out of warranty |
| 23 | Puducherry | IRL, Pondicherry | Biological safety Cabinet | 1 | Clean Air | CBS1200 | IRL-Pondy-BSC-1 | 8/3/2004 | Out of warranty |
| 24 | Karnataka | KIMS,Hubli | Laminar air flow | 1 | Baker Co. | EG-6252 | 100107 | 12/1/2012 | Out of Warranty |
| 25 | Andhra Pradesh | Vizag | Laminar air flow | 1 | Baker Co. | EG-6252 | 6252/10099 | 11/4/2012 | Out of warranty |

Schedule No. VII - BSCs and Laminar Flow (East Region)

| Sl. No. | State | Site | Equipment Name | Qty | Make | Model | Serial No. | Installation Date/Month | Warranty Status |
|---------|--------------|--------------|-------------------------------|-----|-----------|---------------|---------------|-------------------------|-----------------|
| 1 | West Bengal | IRL Kolkata | Biosafety cabinet Class II A2 | 1 | Baker Co. | SG403A-HE-INT | 100096 | 5/1/2013 | Out of Warranty |
| 2 | West Bengal | IRL Kolkata | Biosafety cabinet Class II A2 | 1 | Baker Co. | SG403A-HE-INT | 100098 | 5/1/2013 | Out of Warranty |
| 3 | Assam | IRL Guwahati | Biosafety Cabinet Class II B1 | 1 | NUAIRE | NU-427-400E | 133699102809 | 7/3/2011 | Out of Warranty |
| 4 | Assam | IRL Guwahati | Biosafety Cabinet Class II B1 | 1 | NUAIRE | NU-427-400E | 133710102809 | 7/3/2011 | Out of Warranty |
| 5 | Bihar | IRL Patna | Biosafety Cabinet Class II B1 | 1 | NUAIRE | NU-427-400E | 133813110309 | 6/8/2012 | Out of Warranty |
| 6 | Bihar | IRL Patna | Biosafety Cabinet Class II B1 | 1 | NUAIRE | NU-427-400E | 133689102809 | 6/8/2012 | Out of Warranty |
| 7 | Chhattisgarh | IRL Raipur | Laminar Air Flow | 1 | Weiber | NA | CG/RPR/LAF/01 | 6/29/2011 | Out of warranty |

Schedule No. VIII - BSCs and Laminar Flow (West Region)

| Sl. No. | State | Site | Equipment Name | Qty | Make | Model | Serial No. | Installation Date/Month | Warranty Status |
|---------|----------------|------------|-------------------------------|-----|-----------------------|-------------------|------------------------------|-------------------------|-----------------|
| 1 | Rajasthan | Ajmer | Biosafety cabinet Class II A2 | 1 | Baker Co. | SG403A-HE-INT | 100234 | 5/2/2013 | Out of Warranty |
| 2 | Rajasthan | Ajmer | Biosafety cabinet Class II A2 | 1 | Baker Co. | SG403A-HE-INT | 100212 | 5/2/2013 | Out of Warranty |
| 3 | Rajasthan | SMS Jaipur | Biological safety Cabinet | 1 | kartos international | NA | Jaipur/College/kartos/BSC/01 | 9/10/2008 | Out of warranty |
| 4 | Madhya Pradesh | IRL Indore | Biosafety Cabinet Class II B1 | 1 | NUAIRE | NU-427-400E | 1333801110209 | 9/24/2010 | Out of Warranty |
| 5 | Madhya Pradesh | IRL Indore | Biosafety Cabinet Class II B1 | 1 | NUAIRE | NU-427-400E | 1333798110209 | 9/24/2010 | Out of Warranty |
| 6 | Gujarat | Ahmedabad | Biological safety Cabinet | 1 | Khera | NA | IRLAHDBSC-1 | 1/1/2010 | Out of warranty |
| 7 | Gujarat | Ahmedabad | Biological safety Cabinet | 1 | Khera | NA | IRLAHDBSC-2 | 1/1/2010 | Out of warranty |
| 8 | Gujarat | Ahmedabad | Biological safety Cabinet | 1 | Khera | NA | IRLAHDBSC-3 | 1/1/2010 | Out of warranty |
| 9 | Gujarat | Ahmedabad | Biological safety Cabinet | 1 | HMG | BSV-4 | IRLAHDBSC-4 | 1/1/2010 | Out of warranty |
| 10 | Gujarat | Ahmedabad | Biological safety Cabinet | 1 | HMG | BSV-4 | IRLAHDBSC-5 | 1/1/2010 | Out of warranty |
| 11 | Gujarat | Ahmedabad | Biological safety Cabinet | 1 | Kim microsystem | KIM-BSC-BE-400/SP | KIM/BSC/253/16 | 1/12/2016 | Under Warranty |
| 12 | Gujarat | Ahmedabad | Biological safety Cabinet | 1 | Kim microsystem | KIM-BSC-BE-400/SP | KIM/BSC/254/16 | 1/12/2016 | Under Warranty |
| 13 | Gujarat | Jamnagar | Biological safety Cabinet | 1 | LABTECH | LCB-120B | 110600229 | 1/1/2009 | Out of warranty |
| 14 | Gujarat | Jamnagar | Biological safety Cabinet | 1 | LABTECH | LCB-120B | 110600226 | 1/1/2009 | Out of warranty |
| 15 | Gujarat | Jamnagar | Biological safety Cabinet | 1 | LABTECH | LCB-120B | 110600225 | 1/1/2009 | Out of warranty |
| 16 | Gujarat | Jamnagar | Biological safety Cabinet | 1 | LABTECH | LCB-120B | 110600223 | 1/1/2009 | Out of warranty |
| 17 | Gujarat | Jamnagar | Biological safety Cabinet | 1 | LABTECH | LCB-120B | 110600228 | 1/1/2009 | Out of warranty |
| 18 | Maharashtra | Pune | Biosafety Cabinet Class II B1 | 1 | NUAIRE | NU-427-400E | 133808110309 | 8/23/2010 | Out of warranty |
| 19 | Maharashtra | Pune | Biosafety Cabinet Class II B1 | 1 | NUAIRE | NU-427-400E | 133799110209 | 8/23/2010 | Out of warranty |
| 20 | Maharashtra | Nagpur | Biological safety Cabinet | 1 | MSI LT Pvt. Ltd., | Class II A 2 Type | STDC/LAB/B.S.Cabinet/1 | 5/27/2005 | Out of warranty |
| 21 | Maharashtra | Nagpur | Biological safety Cabinet | 1 | MSI LT Pvt. Ltd., | Class II A 2 Type | STDC/LAB/B.S.Cabinet/2 | 5/27/2005 | Out of warranty |
| 22 | Maharashtra | Nagpur | Biological safety Cabinet | 1 | MSI LT Pvt. Ltd., | Class II A 2 Type | STDC/LAB/B.S.Cabinet/3 | 5/27/2005 | Out of warranty |
| 23 | Maharashtra | Nagpur | Biological safety Cabinet | 1 | Kleazone system | Class II A 2 Type | STDC/LAB/B.S.Cabinet/4 | 1/1/2008 | Out of warranty |
| 24 | Maharashtra | Nagpur | Biological safety Cabinet | 1 | Kleazone system | Class II A 2 Type | STDC/LAB/B.S.Cabinet/5 | 1/1/2008 | Out of warranty |
| 25 | Maharashtra | Mumbai | Biological safety Cabinet | 1 | Microfilt | MFIBIO | 6544 | 3/1/2011 | Out of warranty |
| 26 | Maharashtra | Mumbai | Biological safety Cabinet | 1 | Microfilt | MFIBIO | 6543 | 3/1/2011 | Out of warranty |
| 27 | Maharashtra | Mumbai | Biological safety Cabinet | 1 | United Enterprise | NA | MICRO/TB/BSC 4 | 1/1/2009 | Out of warranty |
| 28 | Maharashtra | Mumbai | Biological safety Cabinet | 1 | Kirloskar Electrodyne | MFI BIO | MICRO/TB/BSC 3 | 6/5/2004 | Out of warranty |
| 29 | Maharashtra | Mumbai | Biological safety Cabinet | 1 | Dyna Filter | NA | 116/12-13 | 1/1/2011 | Out of warranty |
| 30 | Maharashtra | Aurangabad | Biological safety Cabinet | 1 | Microfilt | MFI BIO | 6589 | 1/1/2014 | Out of warranty |
| 31 | Madhya Pradesh | IRL Indore | Laminar Air Flow | 1 | Tanco | PLT-271 | 2K4070058 | 1/1/2011 | Out of warranty |
| 32 | Maharashtra | Mumbai | Horizontal Laminar Airflow | 1 | Tanco | NA | MICRO/TB/LF 1 | 1/1/2012 | Out of warranty |

Schedule No. IX – Autoclaves

| Sl. No. | State | Site | Equipment Name | Qty. | Make | Model | Serial No. | Installation Date / Month (DD-MMM-YY) | Warranty Status |
|---------|------------------|---------------|------------------------|------|------------------------------------|---------------|---|---------------------------------------|-----------------|
| 1 | Uttar Pradesh | AMU Aligarh | Vertical Autoclave | 1 | MAC | AV-78 | 0214-073 | 01-Apr-14 | Under Warranty |
| 2 | Uttar Pradesh | AMU Aligarh | Vertical Autoclave | 1 | MAC | AV-78 | 0214-074 | 01-Apr-14 | Under Warranty |
| 3 | Himachal Pradesh | IRL,Dharampur | Autoclave Horizontal | 1 | Surgicojn Mediequipt Pvt Ltd | Large | large 02 | 1-Jan-12 | Out of Warranty |
| 4 | Himachal Pradesh | IRL,Dharampur | Autoclave Horizontal | 1 | Surgicojn Mediequipt Pvt Ltd | Small | small 02 | 1-Jan-12 | Out of Warranty |
| 5 | Himachal Pradesh | IRL,Dharampur | Autoclave Vertical | 1 | Surgicojn Mediequipt Pvt Ltd | SS703035 | G/09/248 | 1-Jan-12 | Out of Warranty |
| 6 | Himachal Pradesh | IRL,Dharampur | Autoclave Vertical | 1 | Ramcon | - | state/dharampur/VA/Ramcon/01 | 1-Jan-12 | Out of Warranty |
| 7 | Uttar Pradesh | IMS BHU | Vertical Autoclave | 1 | Shivam | - | 699429 | 01-Dec-10 | Out of Warranty |
| 8 | Uttar Pradesh | IMS BHU | Vertical Autoclave | 1 | Narang Scientific work | NSW-227 | 227-01-09-2009 | 01-Dec-10 | Out of Warranty |
| 9 | Uttar Pradesh | IRL Agra | Vertical Autoclave | 1 | TOMY | ES 315 | 45135077 | 15-Mar-13 | Out of Warranty |
| 10 | Uttar Pradesh | IRL Agra | Vertical Autoclave | 1 | TOMY | ES 315 | 45135078 | 15-Mar-13 | Out of Warranty |
| 11 | Uttar Pradesh | IRL Lucknow | Autoclave (Horizontal) | 1 | SURGICION MEDEQUIP PVT.LTD | SS-703035 | G/09/244 | 05-Sep-09 | Out of Warranty |
| 12 | Uttar Pradesh | IRL Lucknow | Autoclave (Vertical) | 1 | SURGICION MEDEQUIP PVT.LTD | - | 523357 | 05-Sep-09 | Out of Warranty |
| 13 | Uttar Pradesh | IRL Lucknow | Autoclave (Vertical) | 1 | Science Tech (India) | - | Autoclave/VT/02 | 05-Sep-09 | Out of Warranty |
| 14 | Jammu & Kashmir | IRL Srinagar | Horizontal Autoclave | 1 | Surgicon mediequip Pvt. Ltd | - | IRL -72 | 23-Sep-09 | Out of Warranty |
| 15 | Jammu & Kashmir | IRL Srinagar | Vertical Autoclave | 1 | Narang scientific works | NSW-227(MA-3) | 2270414027/ 402260 | 23-Sep-09 | Under Warranty |
| 16 | Delhi | AIIMS | AUTOCLAVE | 1 | Net Steel Horizontal | 1060 | - | 1-Jan-08 | Out of Warranty |
| 17 | Delhi | NITRD/ LRS | Horizontal autoclave | 1 | Sandeep instruments and chemicals | Sanco | Institute/LRS/HA/Sandeep Instruments/01 | 16-Feb-13 | Under Warranty |
| 18 | Punjab | IRL Patiala | Horizontal Autoclave | 1 | Surgicojn | SS-703036 | IRL-P-8-2009 | 18-Aug-09 | Out of Warranty |
| 19 | Punjab | IRL Patiala | Vertical Autoclave | 1 | Surgicojn | SS-703035 | G/09/241 | 18-Aug-09 | Out of Warranty |
| 20 | Rajasthan | Jodhpur | Autoclave | 1 | M/s Medicare equipment corporation | | 297 | 01-Jan-10 | out of warranty |
| 21 | Rajasthan | SMS Jaipur | Horizontal Autoclave | 1 | PEIG | NA | College/jaipur/HA/pEIG/1 | 10-Aug-12 | Out of warranty |
| 22 | Rajasthan | SMS Jaipur | Horizontal Autoclave | 1 | HE | PJ09 | College/jaipur/HA/HE/1 | 10-Aug-13 | Under Warranty |

| | | | | | | | | | |
|----|----------------|-----------------|-------------------------|---|--------------------------------|---------------|---------------------|-----------|----|
| 23 | Kerala | IRL, Trivandrum | Double door Autoclave | 1 | Mediquip | NA | 8931132 | 13-Jan-11 | NA |
| 24 | Kerala | IRL, Trivandrum | Autoclave-vertical | 1 | Lab Line | AV101 | 09G2716 | 30-Jul-09 | NA |
| 25 | Karnataka | KIMS,Hubli | Autoclave | 1 | TOMY | ES 315 | 45135073 | 01-Dec-12 | NA |
| 26 | Karnataka | KIMS,Hubli | Autoclave | 1 | TOMY | ES 315 | 45135074 | 01-Dec-12 | NA |
| 27 | Telangana | IRL, Hyderabad | Vertical Auto Clave | 1 | UTC | NA | IRL-Hyd-VA-2 | 20-Apr-07 | NA |
| 28 | Telangana | IRL, Hyderabad | Vertical Auto Clave | 1 | UTC | NA | IRL-Hyd-VA-3 | 20-Apr-07 | NA |
| 29 | Telangana | IRL, Hyderabad | Vertical Auto Clave | 1 | UTC | NA | IRL-Hyd-VA-4 | 20-Apr-07 | NA |
| 30 | Puducherry | IRL,Pondicherry | Autoclave- Horizontal | 1 | NAT | NA | IRL_Pondy-HA-1 | 15-Jan-06 | NA |
| 31 | Puducherry | IRL,Pondicherry | Autoclave Vertical | 1 | Rajendra Scientific | NA | IRL-Pondy-VA-1 | 04-Jan-05 | NA |
| 32 | Andhra Pradesh | Vizag | Autoclave | 1 | TOMY | ES 315 | 45135075 | 4-Nov-12 | NA |
| 33 | Andhra Pradesh | Vizag | Autoclave | 1 | TOMY | ES 315 | 45135076 | 4-Nov-12 | NA |
| 34 | Andhra Pradesh | Vizag | Autoclave Horizontal | 1 | Slokrafts Industries | STERICA | 101 | 2-Oct-10 | NA |
| 35 | Karnataka | ICELT | Autoclave | 1 | NA | NA | NA | 01-01-11 | NA |
| 36 | Bihar | IRL Patna | Horozantal Autoclave | 1 | Surgicoïn | NA | BI/PAT/HA/01 | 16-Aug-12 | NA |
| 37 | Bihar | IRL Patna | Vertical Autoclave | 1 | Surgicoïn | SS-703035 | 6/09/245 | 21-Jul-12 | NA |
| 38 | Assam | IRL Guwahati | Horizontal Autoclave | 1 | Surgicoïn | YSU-405 | NA | 04-May-12 | NA |
| 39 | Assam | IRL Guwahati | Vertical Autoclave 20lt | 1 | Equitron | PAD Port-Mini | 7407PAD.ACH.419 | 04-May-12 | NA |
| 40 | Assam | IRL Guwahati | Vertical Autoclave | 1 | Surgicoïn | SS 70303S | G/09/247 | 04-May-12 | NA |
| 41 | Assam | IRL Guwahati | Vertical Autoclave 20lt | 1 | MSW | YSI-402 | ESI 135 | 04-May-12 | NA |
| 42 | Maharashtra | Aurangabad | AUTO CLAVE | 1 | BIOTECHNICS | NA | NA | 1-Jan-14 | NA |
| 43 | Maharashtra | Aurangabad | AUTO CLAVE | 1 | Esteem Industries inc | ESTA 107-A | 13668 | 1-Jan-14 | NA |
| 44 | Gujarat | Ahmedabad | Horizontal Autoclave | 1 | Medicare equipments co. | Mediquip-643 | IRLAHDH.Autoclave-2 | 1-Jan-10 | NA |
| 45 | Gujarat | Ahmedabad | Horizontal Autoclave | 1 | Medicare equipments co. | Mediquip-643 | IRLAHDH.Autoclave-3 | 1-Jan-10 | NA |
| 46 | Madhya Pradesh | IRL Indore | Horizontal Autoclave | 1 | Surgioncoïn Medequip Pvt. Ltd. | - | IRL/MRTB/AUTO/02 | 11-Sep-09 | NA |

| | | | | | | | | | |
|----|----------------|------------|----------------------------------|---|--------------------------------|-------------|----------------------|-----------|----|
| 47 | Madhya Pradesh | IRL Indore | Vertical Autoclave | 1 | Surgioncoin Medequip Pvt. Ltd. | - | IRL/MRTB/AUTO/01 | 11-Sep-09 | NA |
| 48 | Gujarat | Jamnagar | HORIZONTAL AUTOCLAVE | 1 | EMTECH | NA | 38798747 | 7-Oct-11 | NA |
| 49 | Gujarat | Jamnagar | VERTICAL AUTOCLAVE | 1 | Sonar | NA | 9200110 | 7-Oct-11 | NA |
| 50 | Maharashtra | Nagpur | Autoclave Horizontal | 1 | Surgioncoin Medequip Pvt. Ltd. | NA | STDC/LAB/Auto-H(L)/1 | 17-May-05 | NA |
| 51 | Maharashtra | Nagpur | Autoclave Vertical | 1 | Khera Instruments | KI.171(B) | 1021 | 30-Apr-05 | NA |
| 52 | Maharashtra | Nagpur | Autoclave Vertical | 1 | Khera Instruments | KILT(L)(CL) | 1023 | 30-Apr-12 | NA |
| 53 | Maharashtra | Nagpur | Autoclave Vertical | 1 | PSM Scientific Instrument | PSM-VA/05 | VA06120831 | 21-Sep-10 | NA |
| 54 | Maharashtra | Mumbai | Vertical Autoclave | 1 | Bio Technics | NA | MICRO/TB/AUTO 1 | 21-Mar-12 | NA |
| 55 | Maharashtra | Mumbai | Vertical Autoclave | 1 | Bio Technics | NA | MICRO/TB/AUTO 2 | 21-Mar-12 | NA |
| 56 | Maharashtra | Mumbai | Vertical Autoclave | 1 | Brother Surgical | NA | MICRO/TB/AUTO 3 | 21-Sep-11 | NA |
| 57 | Maharashtra | Mumbai | Vertical Autoclave | 1 | Labotech | NA | MICRO/TB/AUTO 4 | 1-Jan-11 | NA |
| 58 | Maharashtra | Mumbai | Vertical Autoclave | 1 | Modi Make | NA | MICRO/TB/AUTO 5 | 12-Mar-09 | NA |
| 59 | Maharashtra | Mumbai | Vertical Autoclave | 1 | Osworld | NA | MICRO/TB/AUTO 6 | 19-Oct-14 | NA |
| 60 | Maharashtra | Pune | Vertical Autoclave | 1 | Surgioncoin Medequip Pvt. Ltd. | ss-703035 | 6/09/246 | 1-Jan-09 | NA |
| 61 | Maharashtra | Pune | Horizontal autoclave cylindrical | 1 | ENVISON BIOTECH | NA | IRL/PNA/02 | 1-Jan-08 | NA |

Schedule No. X – Hot Air Oven, Distillation Unit, Water bath, Inspissator, Thermometer (Flexible), Micro Incinerator, Weighing Balance

| Sl. No. | State | Site | Equipment Name | Qty. | Make | Model | Serial No. | Installation Date / Month (DD-MMM-YY) | Warranty Status |
|---------|------------------|---------------|--|------|-----------------------|------------|---|---------------------------------------|-----------------|
| 1 | Uttar Pradesh | AMU Aligarh | Flexible thermometer for thermocycler and Twincubator validation | 1 | Greisinger electronic | GTH1170 | NA | 12-Aug-14 | Out of Warranty |
| 2 | Uttar Pradesh | AMU Aligarh | Flexible thermometer for thermocycler and Twincubator validation | 1 | Greisinger electronic | GTH1170 | NA | 12-Aug-14 | Out of Warranty |
| 3 | Uttar Pradesh | AMU Aligarh | Electronic Analytical Balance | 1 | Kern | ABT220-5DM | WB13E0098 | 12-Aug-14 | Out of Warranty |
| 4 | Uttar Pradesh | AMU Aligarh | Electronic Precision Balance | 1 | Kern | PCB 3500-2 | WD130067162 | 14-Jan-15 | Out of Warranty |
| 5 | Uttar Pradesh | AMU Aligarh | Water Bath | 1 | MAC | Hpwb-23 | 0214-076 | 08-Apr-14 | Under Warranty |
| 6 | Uttar Pradesh | AMU Aligarh | Hot air Oven | 1 | MAC | MSW-211 | 0214-076 | 08-Apr-14 | Under Warranty |
| 7 | Uttar Pradesh | AMU Aligarh | Electric Micro incinerator | 1 | Sterimax | NA | 14F10111 | 12-08-14 | Out of Warranty |
| 8 | Uttar Pradesh | AMU Aligarh | Electric Micro incinerator | 1 | Sterimax | NA | 14F10125 | Unopened | Under Warranty |
| 9 | Uttar Pradesh | AMU Aligarh | Electric Micro incinerator | 1 | Sterimax | NA | 14F10114 | Unopened | Under Warranty |
| 10 | Uttar Pradesh | JALMA | Ultrasonic bath | 1 | Elma | D-78224 | 6515065 | 16-Jun-10 | Out of Warranty |
| 11 | Uttarkhand | Dehradun | Flexible thermometer for thermocycler and Twincubator validation | 1 | Gresinger electronic | GTH1170 | TTM/Dehradun/thermometer/D-93128/1 | 1-May-12 | Out of warranty |
| 12 | Uttarkhand | Dehradun | Flexible thermometer for thermocycler and Twincubator validation | 1 | Gresinger electronic | GTH1170 | TTM/Dehradun/thermometer/D-93128/2 | 1-May-12 | Out of warranty |
| 13 | Uttarkhand | Dehradun | Flexible thermometer for thermocycler and Twincubator validation | 1 | Gresinger electronic | GTH1170 | TTM/Dehradun/thermometer/D-93128/3 | 1-May-12 | Out of warranty |
| 14 | Uttarkhand | Dehradun | Flexible thermometer for thermocycler and Twincubator validation | 1 | Gresinger electronic | GTH1170 | TTM/Dehradun/thermometer/D-93128/4 | 1-May-12 | Out of warranty |
| 15 | Uttarkhand | Dehradun | Electronic Balance | 1 | SHIMADZU | UX Series | CTd/Dehradun/WB/SHIMADZU/1 | 1-Feb-10 | Out of warranty |
| 16 | Uttarkhand | Dehradun | Analytical Balance | 1 | shimadzu | UW220H | D447110127 | 1-Feb-10 | Out of warranty |
| 17 | Himachal Pradesh | IRL,Dharampur | Flexible thermometer for thermocycler and Twincubator validation | 1 | Gresinger electronic | GTH1170 | FIND/TTM/DHARAMPUR/Flexible thermometer/GTH1170/1 | 1-Feb-13 | Out of Warranty |

| | | | | | | | | | |
|----|------------------|-------------------|--|---|------------------------------------|-------------|---|-----------|-----------------|
| 18 | Himachal Pradesh | IRL,Dharampur | Flexible thermometer for thermocycler and Twincubator validation | 1 | Gresinger electronic | GTH1170 | FIND/TTM/DHARAMPUR/Flexible thermometer/GTH1170/2 | 1-Feb-13 | Out of Warranty |
| 19 | Himachal Pradesh | IRL,Dharampur | Hot Air Oven | 1 | ITL Labs Pvt Ltd | LE-106 | 9607 | 1-Jan-12 | Out of Warranty |
| 20 | Himachal Pradesh | IRL,Dharampur | Hot Air Oven | 1 | ITL Labs Pvt Ltd | LE-106 | 9608 | 1-Jan-12 | Out of Warranty |
| 21 | Himachal Pradesh | IRL,Dharampur | Distilled Water Plant 'Sonar' | 1 | ASSOCIATED SCIENTIFIC TECHNOLOGIES | WSW-5 | F0018790709 | 1-Jan-12 | Out of Warranty |
| 22 | Himachal Pradesh | IRL,Dharampur | Electronic Weighing Machine | 1 | ESSAE-TAROLA Ltd, Bangalore | FB200 | FB-20108168 | 1-Jan-12 | Out of Warranty |
| 23 | Himachal Pradesh | IRL,Dharampur | Water Bath | 1 | ASSOCIATED SCIENTIFIC TECHNOLOGIES | WSB -3230 | F0018730709 | 1-Feb-12 | Out of Warranty |
| 24 | Himachal Pradesh | IRL,Dharampur | Double Distillation Plant | 1 | INFUSIL India Pvt Ltd | DISTLION-20 | 00040414013 | 1-Jan-12 | Out of Warranty |
| 25 | Uttar Pradesh | IMS BHU | Flexible thermometer for thermocycler and Twincubator validation | 1 | Greisinger electronic | GTH1170 | 01/DMB/R/FLT/00001 | 29-Nov-13 | Out of Warranty |
| 26 | Uttar Pradesh | IMS BHU | Flexible thermometer for thermocycler and Twincubator validation | 1 | Greisinger electronic | GTH1170 | 01/DMB/R/FLT/00002 | 29-Nov-13 | Out of Warranty |
| 27 | Uttar Pradesh | IMS BHU | Electronic Analytical Balance | 1 | Kern | - | NA | Unopened | Out of Warranty |
| 28 | Uttar Pradesh | IMS BHU | Electric micro incinerator for loops | 1 | WLD-Tech GMBH | Steri Max | 14F10120 | 10-Dec-14 | Under Warranty |
| 29 | Uttar Pradesh | IMS BHU | Electric micro incinerator for loops | 1 | WLD-Tech GMBH | Steri Max | NA | Unopened | Under Warranty |
| 30 | Uttar Pradesh | IMS BHU | Water Distillation | 1 | - | DZ-5 | MD/2P16202 | 01-Aug-14 | Out of Warranty |
| 31 | Chandigarh | PGIMER,Chandigarh | Flexible thermometer for thermocycler and Twincubator validation | 1 | greisinger | GTH1170 | 110040 | 01-Jan-13 | out of warranty |
| 32 | Chandigarh | PGIMER,Chandigarh | Analytical Balance | 1 | KERN | abt 220-5DM | WB12E0053 | 10-Jan-13 | out of warranty |
| 33 | Chandigarh | PGIMER,Chandigarh | Analytical Balance | 1 | KERN | abt 220-5DM | FIND/UNOPS/WB/kern/1 | 10-Jan-13 | out of warranty |
| 34 | Uttar Pradesh | IRL Agra | Flexible thermometer for thermocycler and Twincubator validation | 1 | Greisinger electronic | GTH 1170 | UP/AGR/FT/01 | 15-Mar-13 | Out of Warranty |
| 35 | Uttar Pradesh | IRL Agra | Flexible thermometer for thermocycler and Twincubator validation | 1 | Greisinger electronic | GTH 1170 | UP/AGR/FT/02 | 15-Mar-13 | Out of Warranty |
| 36 | Uttar Pradesh | IRL Agra | Universal Oven | 1 | MMM | Venticell | C092935 | 22-Mar-14 | Out of Warranty |

| | | | | | | | | | |
|----|-----------------|--------------|--|---|------------------------------------|--------------|-----------------------------|-----------|-----------------|
| | | | | | Medcentre | 222 | | | |
| 37 | Uttar Pradesh | IRL Agra | Electronic micro balance | 1 | Sartorius | CPA4235 | 0024807277 | 15-May-13 | Out of Warranty |
| 38 | Uttar Pradesh | IRL Agra | Electronic Analytical balance | 1 | Kern | ABT220-SDM | WB11E0184 | 15-Mar-13 | Out of Warranty |
| 39 | Uttar Pradesh | IRL Agra | Water Distiller | 1 | GFL | 2004 | 11498909J | 18-Mar-13 | Out of Warranty |
| 40 | Uttar Pradesh | IRL Agra | Hot air oven (samall size) | 1 | Local make | NA | NA | 2000 | Out of Warranty |
| 41 | Delhi | NDTC | Flexible thermometer for Thermocycler and Twincubator validation | 1 | GREISINGER Electronic | GTH 1170 | DEL/NDTC/FT/01 | 26-Mar-11 | Out of warranty |
| 42 | Delhi | NDTC | Analytical Balance/Precision Balance/ Weighing Balance | 1 | Excell | HT-S Series | 11025774 | 26-Mar-11 | Out of warranty |
| 43 | Delhi | NDTC | Hot air oven | 1 | Local make | NA | CTD/NDTBC/hot air oven/LM/1 | 4-Nov-03 | Out of warranty |
| 44 | Delhi | NDTC | distillation plant | 1 | Local make | NA | NDTC/distillation unit/1 | 1-Jan-07 | Out of warranty |
| 45 | Delhi | NDTC | Loop sterlizer | 1 | Biomedical Solutions | NA | NDTC/Loop sterilizer/BS/01 | 7-Oct-11 | Out of warranty |
| 46 | Delhi | NDTC | Loop sterlizer | 1 | Biomedical Solutions | NA | NDTC/Loop sterilizer/BS/01 | 7-Oct-11 | Out of warranty |
| 47 | Delhi | NDTC | Weighing machine | 1 | Kern | ABT220-5DM | WB13E0027 | 21-Apr-15 | Under Warranty |
| 48 | Delhi | NDTC | Analytical Balance/Precision Balance/ Weighing Balance | 1 | Kern | | ABT220-5DM | 7-Aug-11 | Out of warranty |
| 49 | Uttar Pradesh | IRL Lucknow | Flexible thermometer for thermocycler and Twincubator validation | 1 | Gresinger electronic | GTH1170 | Thermometer/01 | 19-Apr-12 | Out of Warranty |
| 50 | Uttar Pradesh | IRL Lucknow | Flexible thermometer for thermocycler and Twincubator validation | 1 | Gresinger electronic | GTH1170 | Thermometer/02 | 19-Apr-12 | Out of Warranty |
| 51 | Uttar Pradesh | IRL Lucknow | Flexible thermometer for thermocycler and Twincubator validation | 1 | Gresinger electronic | GTH1170 | Thermometer/03 | 19-Apr-12 | Out of Warranty |
| 52 | Uttar Pradesh | IRL Lucknow | Flexible thermometer for thermocycler and Twincubator validation | 1 | Gresinger electronic | GTH1170 | Thermometer/04 | 19-Apr-12 | Out of Warranty |
| 53 | Uttar Pradesh | IRL Lucknow | Precision balance | 1 | Kern & Sohn GmbH | ABT 220-5 DM | WB12E0038 | 19-Apr-14 | Out of Warranty |
| 54 | Uttar Pradesh | IRL Lucknow | Water Bath 'Sonar' | 1 | ASSOCIATED SCIENTIFIC TECHNOLOGIES | WSB -3230 | F0018900709 | 07-Aug-09 | Out of Warranty |
| 55 | Uttar Pradesh | IRL Lucknow | Hot Air Oven | 1 | ITL LABS PVT.LTD | LE-105 | 9626 | 13-Feb-10 | Out of Warranty |
| 56 | Jammu & Kashmir | IRL Srinagar | Hot Air Oven | 1 | ITC Labs Pvt Ltd | LE105 | 9612 | 03-Nov-10 | Out of Warranty |

| | | | | | | | | | |
|----|-----------------|--------------|--|---|-------------------------|------------|-----------------------------|-----------|-----------------|
| 57 | Jammu & Kashmir | IRL Srinagar | Hot Air Oven | 1 | ITC Labs Pvt Ltd | LE105 | 9611 | 03-Nov-10 | Out of Warranty |
| 58 | Jammu & Kashmir | IRL Srinagar | Water bath | 1 | Sonar | SWB-3230 | F0018750709 | 20-Feb-12 | Out of Warranty |
| 59 | Jammu & Kashmir | IRL Srinagar | Electronic Analytical Balance | 1 | Kern and Shon | ABT220-5DM | WB13E0100 | unopened | Under Warranty |
| 60 | Jammu & Kashmir | IRL Srinagar | Flexible thermometer for thermocycler and Twincubator validation | 1 | Greisinger Electronics | GTH 1170 | JK/SRN/TM/01 | 16-Dec-14 | Under Warranty |
| 61 | Jammu & Kashmir | IRL Srinagar | Flexible thermometer for thermocycler and Twincubator validation | 1 | Greisinger Electronics | GTH 1170 | JK/SRN/TM/02 | 16-Dec-14 | Under Warranty |
| 62 | Jammu & Kashmir | IRL Srinagar | Electronic Precision Balance | 1 | KERN | PCB 3500-2 | JK/SRN/WB/01 | unopened | Under Warranty |
| 63 | Delhi | AIIMS | Flexible thermometer for thermocycler and Twincubator validation | 1 | greisinger | GTH1170 | D93128 | 29-Dec-10 | Out of Warranty |
| 64 | Delhi | AIIMS | Weighing machine | 1 | WENSAR | HPB220 | 13115 | 1-Jan-12 | Out of Warranty |
| 65 | Delhi | AIIMS | Hot air oven | 1 | - | - | AIIMS/Hot air oven/01 | 1-Jan-11 | Out of Warranty |
| 66 | Delhi | AIIMS | Hot water bath | 1 | Ambassdor | - | AIIMS/waterbath/Ambasddor/1 | 1-Jan-11 | Out of Warranty |
| 67 | Delhi | AIIMS | BACTI-CINERATOR | 1 | - | HM3000A | AS-HMA-1032E | 1-Jan-11 | Out of Warranty |
| 68 | Delhi | AIIMS | BACTI-CINERATOR | 1 | - | HM3000A | AS-HMA-1031E | 1-Jan-11 | Out of Warranty |
| 69 | Haryana | IRL Karnal | Hot Air Oven | 1 | MMM Medcentre | Venticell | 163198 | 01-Nov-06 | Out of Warranty |
| 70 | Haryana | IRL Karnal | Precision Balance | 1 | Sartorius | TE153S-DS | 19103176 | 01-Nov-06 | Out of Warranty |
| 71 | Haryana | IRL Karnal | Weighing Balance | 1 | Sandberg & Schneidewind | OHAUS | - | 01-Nov-06 | Out of Warranty |
| 72 | Haryana | IRL Karnal | Double Distiller | 1 | GFL | 2004 | 101315006 B | 01-Nov-06 | Out of Warranty |
| 73 | Haryana | IRL Karnal | Water Single Distiller | 1 | GFL | NA | 1125050 J | 01-Nov-06 | Out of Warranty |
| 74 | Haryana | IRL Karnal | Flexible thermometer for thermocycler and Twincubator validation | 1 | Greisinger electronic | GTH1170 | - | 13-Aug-12 | Out of Warranty |
| 75 | Haryana | IRL Karnal | Flexible thermometer for thermocycler and Twincubator validation | 1 | Greisinger electronic | GTH1170 | - | 13-Aug-12 | Out of Warranty |
| 76 | Haryana | IRL Karnal | Flexible thermometer for thermocycler and Twincubator validation | 1 | Greisinger electronic | GTH1170 | - | 13-Aug-12 | Out of Warranty |
| 77 | Haryana | IRL Karnal | Flexible thermometer for thermocycler and Twincubator validation | 1 | Greisinger electronic | GTH1170 | - | 13-Aug-12 | Out of Warranty |

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| 78 | Haryana | IRL Karnal | Electronic Analytical Balance | 1 | Kern | YKB-01N | YB120764 | Unopened | Out of Warranty |
| 79 | Haryana | IRL Karnal | Electric Micro Incinerator | 1 | NA | RTCB | 1791729 | 13-Aug-12 | Under Warranty |
| 80 | Delhi | NITRD/ LRS | Flexible thermometer for thermocycler and Twincubator validation | 1 | Greisinger electronic | GTH1170 | D93128 | 20-Dec-11 | out of warranty |
| 81 | Delhi | NITRD/ LRS | ANALYTICAL ELECTRONIC BALANCE | 1 | KERN & SOHN-GMBH | ABT-220-5 DM | WB13E002 | 16-Sep-14 | Under Warranty |
| 82 | Punjab | IRL Patiala | Water bath | 1 | Sonar | WSB3230 | F0018740709 | 17-Jul-09 | Out of Warranty |
| 83 | Punjab | IRL Patiala | Hot air oven | 1 | ITLS Labs | HAO-CTD-45 | IRL-P-6A-2009 | 18-Dec-09 | Out of Warranty |
| 84 | Punjab | IRL Patiala | Hot air oven | 1 | ITLS Labs | HAO-CTD-46 | IRL-P-6B-2009 | 18-Dec-09 | Out of Warranty |
| 85 | Punjab | IRL Patiala | Distilled Water Plant | 1 | Sonar | WSW5 | IRL-P-7-2009 | 17-Jul-09 | Out of Warranty |
| 86 | Punjab | IRL Patiala | Electronic Balance | 1 | Essae, | Essae-FB200 | FB20108174 | 01-Jul-12 | Out of Warranty |
| 87 | Punjab | IRL Patiala | Flexible thermometer for thermocycler and Twincubator validation | 1 | Greisinger electronic | GTH-1170 | IRL-P-12A-2013 | 13-Apr-13 | Out of Warranty |
| 88 | Punjab | IRL Patiala | Flexible thermometer for thermocycler and Twincubator validation | 1 | Greisinger electronic | GTH-1170 | IRL-P-12B-2013 | 13-Apr-13 | Out of Warranty |
| 89 | Punjab | IRL Patiala | Weighing balance | 1 | Kern | ABT 220-SDM | WBI2E0049 | 13-Apr-13 | Out of Warranty |
| 90 | Rajasthan | Jodhpur | Flexible thermometer for thermocycler and Twincubator validation | 1 | GREISINGER ELECTRONIC GmbH | GTH-1170 | FIND/TTM/Jodhpur/Thermometer/GTH/01 | 13-Jan-14 | out of warranty |
| 91 | Rajasthan | Jodhpur | Flexible thermometer for thermocycler and Twincubator validation | 1 | GREISINGER ELECTRONIC GmbH | GTH-1170 | FIND/TTM/Jodhpur/Thermometer/GTH/02 | 13-Jan-14 | out of warranty |
| 92 | Rajasthan | Jodhpur | Precision balance | 1 | Kern & Sohn GmbH | ABT 220-5 DM | 4b13e0099 | 04-Feb-15 | out of warranty |
| 93 | Rajasthan | Ajmer | Flexible thermometer for thermocycler and Twincubator validation | 1 | Greisinger electronic | GTH1170 | -- | 4-Jul-11 | Out of Warranty |
| 94 | Rajasthan | Ajmer | Electronic Balance | 1 | KERN | AB1220-5DM | WV12 E0018 | 01-Dec-12 | Out of Warranty |
| 95 | Rajasthan | Ajmer | Electronic Balance | 1 | SHIMADZU | UW2208 | D447110246 | 1-Sep-07 | Out of Warranty |
| 96 | Rajasthan | SMS Jaipur | Electronic Balance | 1 | KERN | AB1220-5DM | WB13E0034 | 31-Jul-14 | Out of warranty |
| 97 | Rajasthan | SMS Jaipur | Flexible thermometer for thermocycler and Twincubator | 1 | Greisinger electronic | GTH1170 | FIND/TTM/jaipur/Thermometer/gth1170/01 | 21-Apr-08 | Out of warranty |

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| | | | validation | | | | | | |
| 98 | Rajasthan | SMS Jaipur | Precision balance | 1 | PRESICA | XV220A | 2805185 | 20-Jul-08 | Out of warranty |
| 99 | Rajasthan | SMS Jaipur | Distilled water plant | 1 | Bioage | LAB PURE DELTA PLUS | LPU 1556 | 12-Mar-13 | Under Warranty |
| 100 | Tamil Nadu | IRL,CHENNAI | Flexible thermometer for thermocycler and Twincubator validation | 1 | GREISINGER Electronic | GTH1170 | IRLTNCNI-THERMO-1 | 10-Jul-12 | 1 year |
| 101 | Tamil Nadu | IRL,CHENNAI | Flexible thermometer for thermocycler and Twincubator validation | 1 | GREISINGER Electronic | GTH1170 | IRLTNCNI-THERMO-2 | 10-Jul-12 | 1 year |
| 102 | Tamil Nadu | IRL,CHENNAI | Flexible thermometer for thermocycler and Twincubator validation | 1 | GREISINGER Electronic | GTH1170 | IRLTNCNI-THERMO-3 | 10-Jul-12 | 1 year |
| 103 | Tamil Nadu | IRL,CHENNAI | Flexible thermometer for thermocycler and Twincubator validation | 1 | GREISINGER Electronic | GTH1170 | IRLTNCNI-THERMO-4 | 10-Jul-12 | 1 year |
| 104 | Tamil Nadu | IRL,CHENNAI | Distilled water plant | 1 | Local Make | NA | 7655.ACC.445 | 15-Jun-07 | NA |
| 105 | Tamil Nadu | IRL,CHENNAI | Electronic Balance | 1 | UNIBLOC | UW2204 | D447110248 | 10-Jan-07 | NA |
| 106 | Tamil Nadu | NIRT | Flexible thermometer for thermocycler and Twincubator validation | 1 | GREISINGER Electronic | GTH1170 | NA | 02-Jul-12 | 1 year |
| 107 | Tamil Nadu | NIRT | Flexible thermometer for thermocycler and Twincubator validation | 1 | GREISINGER Electronic | GTH1170 | NA | 02-Jul-12 | 1 year |
| 108 | Tamil Nadu | NIRT | Flexible thermometer for thermocycler and Twincubator validation | 1 | GREISINGER Electronic | GTH1170 | NA | 06-Aug-12 | 1 year |
| 109 | Kerala | IRL, Trivandrum | Water Bath | 1 | Lab Line | SWB-4 | 09G.2715 | 30-Jul-07 | NA |
| 110 | Kerala | IRL, Trivandrum | Water Bath | 1 | Lab Line | SWB-2 | IIE530 | 14-May-11 | NA |
| 111 | Kerala | IRL, Trivandrum | Hot Air Oven | 1 | Kemi | KOA3 | 8218 | 21-Mar-06 | NA |
| 112 | Kerala | IRL, Trivandrum | Distillation Unit | 1 | Milipore | Millipore Type -2 water system 10 L/hr | IRL-KETVM-DU-1 | 01-Jan-11 | NA |
| 113 | Kerala | IRL, Trivandrum | Distillation Unit | 1 | Sartorius | Sartorius Type 2 water system 10 | IRL-KETVM-DU-2 | 01-Jan-14 | NA |

| | | | | | | L/hr | | | |
|-----|-----------|-----------------|--|---|-----------------------|------------------------|----------------------|-----------|--------|
| 114 | Kerala | IRL, Trivandrum | Flexible thermometer for thermocycler and Twincubator validation | 1 | GREISINGER Electronic | GTH1170 | IRL-KE-TVM-Thermo-1 | 13-Jan-11 | 1 year |
| 115 | Kerala | IRL, Trivandrum | Flexible thermometer for thermocycler and Twincubator validation | 1 | GREISINGER Electronic | GTH1170 | IRL-KE-TVM-Thermo-2 | 13-Jan-11 | 1 year |
| 116 | Kerala | IRL, Trivandrum | Flexible thermometer for thermocycler and Twincubator validation | 1 | GREISINGER Electronic | GTH1170 | IRL-KE-TVM-Thermo-3 | 13-Jan-11 | 1 year |
| 117 | Kerala | IRL, Trivandrum | Flexible thermometer for thermocycler and Twincubator validation | 1 | GREISINGER Electronic | GTH1170 | IRL-KE-TVM-Thermo-4 | 13-Jan-11 | 1 year |
| 118 | Kerala | IRL, Trivandrum | Flexible thermometer for thermocycler and Twincubator validation | 1 | GREISINGER Electronic | GTH1170 | IRL-KE-TVM-Thermo-5 | 13-Jan-11 | 1 year |
| 119 | Kerala | IRL, Trivandrum | Flexible thermometer for thermocycler and Twincubator validation | 1 | GREISINGER Electronic | GTH1170 | IRL-KE-TVM-Thermo-6 | 13-Jan-11 | 1 year |
| 120 | Kerala | IRL, Trivandrum | Flexible thermometer for thermocycler and Twincubator validation | 1 | GREISINGER Electronic | GTH1170 | IRL-KE-TVM-Thermo-7 | 13-Jan-11 | 1 year |
| 121 | Kerala | IRL, Trivandrum | Balance | 1 | Shimadzu | UW220H | IRL-KE-TVM-Balance-1 | 01-Jan-11 | NA |
| 122 | Kerala | IRL, Trivandrum | Balance | 1 | KERN | ABT220-5 DM | IRL-KE-TVM-Balance-2 | 01-Jan-11 | 1 year |
| 123 | Karnataka | IRL, Bangalore | Precision balance | 1 | Essae | FB200 | FB20108178 | 01-Jan-12 | NA |
| 124 | Karnataka | IRL, Bangalore | Hotair oven | 1 | ITL Labs | Universal Hot air Oven | 9614 | 01-Jan-12 | NA |
| 125 | Karnataka | IRL, Bangalore | Hotair oven | 1 | ITL Labs | Universal Hot air Oven | 9613 | 01-Jan-12 | NA |
| 126 | Karnataka | IRL, Bangalore | Flexible thermometer for thermocycler and Twincubator validation | 1 | GREISINGER Electronic | GTH1170 | IRL-BLR-THERMO-1 | 01-Jan-12 | 1 year |
| 127 | Karnataka | IRL, Bangalore | Flexible thermometer for thermocycler and Twincubator validation | 1 | GREISINGER Electronic | GTH1170 | IRL-BLR-THERMO-2 | 01-Jan-12 | 1 year |
| 128 | Karnataka | IRL, Bangalore | Flexible thermometer for thermocycler and Twincubator validation | 1 | GREISINGER Electronic | GTH1170 | IRL-BLR-THERMO-3 | 01-Jan-12 | 1 year |

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| 129 | Karnataka | IRL, Bangalore | Flexible thermometer for thermocycler and Twincubator validation | 1 | GREISINGER Electronic | GTH1170 | IRL-BLR-THERMO-4 | 01-Jan-12 | 1 year |
| 130 | Karnataka | IRL, Bangalore | Flexible thermometer for thermocycler and Twincubator validation | 1 | GREISINGER Electronic | GTH1170 | IRL-BLR-THERMO-5 | 01-Jan-12 | 1 year |
| 131 | Karnataka | IRL, Bangalore | Flexible thermometer for thermocycler and Twincubator validation | 1 | GREISINGER Electronic | GTH1170 | IRL-BLR-THERMO-6 | 01-Jan-12 | 1 year |
| 132 | Karnataka | IRL, Bangalore | Distillation Unit | 1 | Local Make | Local Made | IRL-BLR-DU-1 | 01-Jan-12 | NA |
| 133 | Karnataka | KIMS,Hubli | Flexible thermometer for thermocycler and Twincubator validation | 1 | GREISINGER Electronic | GTH1170 | KIMS-THERMO-1 | 13-Mar-13 | 1 year |
| 134 | Karnataka | KIMS,Hubli | Hot air oven | 1 | MMM Group | Venticell 222 | C 092937 | 01-Dec-12 | NA |
| 135 | Karnataka | KIMS,Hubli | Distillation unit | 1 | GFL | 2004 | 11503309 J | 01-Dec-12 | NA |
| 136 | Karnataka | KIMS,Hubli | Electronic precision blance | 1 | KERN | ABT220-5 DM | Pack is not Opened | Unopened | 1 year |
| 137 | Karnataka | KIMS,Hubli | Electronic precision blance | 1 | KERN | ABT220-5 DM | Pack is not Opened | Unopened | 1 year |
| 138 | Telangana | IRL, Hyderabad | Flexible thermometer for thermocycler and Twincubator validation | 1 | EUROLAB | NA | IRL-Hyd-Thermo-1 | 12-Apr-10 | 1 year |
| 139 | Telangana | IRL, Hyderabad | Inspissator | 1 | Mini DEMO | NA | IRL-Hyd-Ins-1 | 01-Jan-12 | NA |
| 140 | Telangana | IRL, Hyderabad | Hot air oven | 1 | Electrohelos | NA | IRL-Hyd-Oven-2 | 20-Apr-07 | NA |
| 141 | Puducherry | IRL,Pondicherry | Flexible thermometer for thermocycler and Twincubator validation | 1 | GREISINGER Electronic | GTH1170 | IRL-Pondy-Thermo-1 | 02-Feb-12 | 1 year |
| 142 | Puducherry | IRL,Pondicherry | Flexible thermometer for thermocycler and Twincubator validation | 1 | GREISINGER Electronic | GTH1170 | IRL-Pondy-Thermo-2 | 02-Feb-12 | 1 year |
| 143 | Puducherry | IRL,Pondicherry | Flexible thermometer for thermocycler and Twincubator validation | 1 | GREISINGER Electronic | GTH1170 | IRL-Pondy-Thermo-3 | 02-Feb-12 | 1 year |
| 144 | Puducherry | IRL,Pondicherry | Flexible thermometer for thermocycler and Twincubator validation | 1 | GREISINGER Electronic | GTH1170 | IRL-Pondy-Thermo-4 | 02-Feb-12 | 1 year |
| 145 | Puducherry | IRL,Pondicherry | Weighing Balance | 1 | Shimadzu | AY220 | D432813199 | 12-Dec-01 | NA |
| 146 | Puducherry | IRL,Pondicherry | Weighing Balance | 1 | Shimadzu | AY220 | IRL_Pondy-Bal-1 | 19-Mar-09 | NA |

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| 147 | Puducherry | IRL,Pondicherry | Dry bath Digital | 1 | Labnet | Accublock D1200 | S62623112 | 02-Jan-07 | NA |
| 148 | Puducherry | IRL,Pondicherry | Dry bath Digital | 1 | Genei | SLM-DB-100 | 2009039554 | 14-Mar-12 | NA |
| 149 | Puducherry | IRL,Pondicherry | Water bath | 1 | Genei | PPI Finix 48 | IRL-Pondy-WB-2 | 14-Mar-12 | NA |
| 150 | Puducherry | IRL,Pondicherry | Inspissator | 1 | Hasthas Scientific | Selec PID213 | IRL-Pondy-Inspi-1 | 04-Jan-05 | NA |
| 151 | Puducherry | IRL,Pondicherry | Inspissator | 1 | Hasthas Scientific | Selec PID213 | IRL-Pondy-Inspi-2 | 01-Jun-11 | NA |
| 152 | Andhra Pradesh | Vizag | Hot air oven | 1 | MMM Group | Venticell 222 | C092938 | 4-Nov-12 | NA |
| 153 | Andhra Pradesh | Vizag | Electronic Balance | 1 | KERN | ABT220-5 DM | WB12E0004 | 1-Oct-15 | 1 year |
| 154 | Andhra Pradesh | Vizag | Distilled water plant | 1 | M.C.Dalal | ----- | State/Vizag/DWP/MC DALAL/01 | 5-Dec-11 | NA |
| 155 | Andhra Pradesh | Vizag | Distilled water plant | 1 | GFL | Type 2004 | 11503209 J | 4-Nov-12 | NA |
| 156 | Karnataka | ICELT | Distlwater plant | 1 | achp040k2z | NA | NA | 01-01-11 | NA |
| 157 | Bihar | IRL Patna | Flexible thermometer for thermocycler and Twincubator validation | 1 | Gresinger electronic | GTH1170 | 100980 | 20-Jul-12 | 1 year |
| 158 | Bihar | IRL Patna | Flexible thermometer for thermocycler and Twincubator validation | 1 | Gresinger electronic | GTH1170 | 100981 | 20-Jul-12 | 1 year |
| 159 | Bihar | IRL Patna | Distilled Water Plant | 1 | ASSOCIATED SCIENTIFIC TECHNOLOGIES | WSW - 5 | BI/PAT/DWP/01 | 25-Sep-12 | NA |
| 160 | Bihar | IRL Patna | Water Bath | 1 | ASSOCIATED SCIENTIFIC TECHNOLOGIES | WSB-3230 | BI/PAT/WB/01 | 25-Sep-12 | NA |
| 161 | Bihar | IRL Patna | Electronic weighing Machine | 1 | ESSAE-TERAOKA LIMITED | FB 200G | FB 20108166 | Condemn | NA |
| 162 | Bihar | IRL Patna | Hot Air Oven with stabilizer | 1 | ITL Labs Pvt. Ltd. | NA | 9606 | 25-Sep-12 | NA |
| 163 | Bihar | IRL Patna | Hot Air Ovenwith stabilizer | 1 | ITL Labs Pvt. Ltd. | NA | 9604 | 25-Sep-12 | NA |
| 164 | Bihar | IRL Patna | Electronic Weighing Machine | 1 | Kern & Sohn GmbH | ABT220-5DM | WB11E0180 | 2-Apr-13 | 1 year |

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| 165 | Bihar | Bhagalpur | Electric micro incinerator | 1 | Sterimax | 5.101.000 | 14F10121 | 11-Dec-15 | 1 year |
| 166 | Bihar | Bhagalpur | Electric micro incinerator | 1 | Sterimax | 5.101.000 | 14F10105 | 11-Dec-15 | 1 year |
| 167 | Bihar | Bhagalpur | Electric micro incinerator | 1 | Sterimax | 5.101.000 | 14F10119 | 11-Dec-15 | 1 year |
| 168 | Bihar | Bhagalpur | Flexible thermometer for thermocycler and Twincubator validation | 1 | Gresinger electronic | GTH1170 | GTF-300L0-100GE | 11-Dec-15 | 1 year |
| 169 | Bihar | Bhagalpur | Flexible thermometer for thermocycler and Twincubator validation | 1 | Gresinger electronic | GTH1170 | GTF-300L0-100GE | 11-Dec-15 | 1 year |
| 170 | West Bengal | IRL Siliguri | Flexible thermometer for thermocycler and Twincubator validation | 1 | Gresinger electronic | GTH1170 | NA | 21-Mar-14 | 1 year |
| 171 | West Bengal | IRL Siliguri | Flexible thermometer for thermocycler and Twincubator validation | 1 | Gresinger electronic | GTH1170 | NA | unopened | 1 year |
| 172 | West Bengal | IRL Siliguri | Analytical balance | 1 | Kern & Sohn GmbH | ABT220-5DM | WB 12E0035 | 19-Oct-13 | 1 year |
| 173 | West Bengal | IRL Siliguri | Electric Micro incinerator | 1 | Sterimax | 5.101.000 | 14F10115, | unopened | 1 year |
| 174 | West Bengal | IRL Siliguri | Electric Micro incinerator | 1 | Sterimax | 5.101.000 | 14F10116, | unopened | 1 year |
| 175 | West Bengal | IRL Siliguri | Electric Micro incinerator | 1 | Sterimax | 5.101.000 | 14F10117 | unopened | 1 year |
| 176 | West Bengal | IRL Kolkata | Flexible thermometer for thermocycler and Twincubator validation | 1 | Gresinger electronic | GTH1170 | WB/KOL/FT/01 | 26-Sep-11 | 1 year |
| 177 | West Bengal | IRL Kolkata | Water Bath 'Sonar' | 1 | ASSOCIATED SCIENTIFIC TECHNOLOGIES | WSB -3230 | WB/KOL/WB/01 | 01-Sep-11 | NA |
| 178 | Chhatisgarh | IRL Raipur | Flexible thermometer for thermocycler and Twincubator validation | 1 | Gresinger electronic | GTH1170 | RPR/FTH/01 | OCT-11 | 1 year |
| 179 | Chhatisgarh | IRL Raipur | Precision balance | 1 | Kern & Sohn GmbH | ABT220-5DM | 2011160432311 | NOT INSTALLED | 1 year |
| 180 | Chhatisgarh | IRL Raipur | Precision balance | 1 | SHIMADZU | UX series | RPR/PB/01 | 11-Oct-14 | NA |
| 181 | Jharkhand | IRL Ranchi | Flexible thermometer for thermocycler and Twincubator validation | 1 | Gresinger electronic | GTH1170 | NA | 17-Jul-12 | 1 year |

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| 182 | Jharkhand | IRL Ranchi | Analytical Balance | 1 | Kern & Sohn GmbH | ABT220-5DM | WB 12E0039 | 19-Feb-09 | 1 year |
| 183 | Jharkhand | IRL Ranchi | Electronic Weighing Machine | 1 | ESSAE-TERAOKA LIMITED | FB 200g | D447110126 | 19-Feb-09 | NA |
| 184 | Assam | IRL Guwahati | Flexible thermometer for thermocycler and Twincubator validation | 1 | Gresinger electronic | GTH1170 | NA | 25-Mar-12 | 1 year |
| 185 | Assam | IRL Guwahati | Flexible thermometer for thermocycler and Twincubator validation | 1 | Gresinger electronic | GTH1170 | NA | 25-Mar-12 | 1 year |
| 186 | Assam | IRL Guwahati | Analytical balance | 1 | Kern & Sohn GmbH | ABT220-5DM | WB12E003 | 01-Dec-13 | 1 year |
| 187 | Assam | IRL Guwahati | Analytical balance | 1 | Kern & Sohn GmbH | ABT220-5DM | FB20108165 | 04-May-12 | 1 year |
| 188 | Assam | IRL Guwahati | Weighing Balance | 1 | ESSAE-TERAOKA LIMITED | FB 200g | FB 3520572 | 04-May-12 | NA |
| 189 | Assam | IRL Guwahati | Water Bath | 1 | ASSOCIATED SCIENTIFIC TECHNOLOGIES | YSI - 413 | F0018911942 | 04-May-12 | NA |
| 190 | Assam | IRL Guwahati | Hot Air Oven | 1 | ITL Labs Pvt. Ltd. | NA | NA | 04-May-12 | NA |
| 191 | Assam | IRL Guwahati | Distilled Water Plant(Double Distilation) | 1 | SYMAX INDIA | Borosil | NA | 04-May-12 | NA |
| 192 | Assam | IRL Guwahati | Distilled Water Plant(Single Distilation) | 1 | SONAR | TYPE 2004 | NA | 04-May-12 | NA |
| 193 | Odisha | IRL Cuttack | Flexible thermometer for thermocycler and Twincubator validation | 1 | Gresinger electronic | GTH1170 | OD/CTC/FTM/01 | 01-Sep-11 | 1 year |
| 194 | Odisha | IRL Cuttack | Precision balance | 1 | Kern & Sohn GmbH | ABT220-5DM | 5DVWB12E0050 | 29-Oct-13 | 1 year |
| 195 | Odisha | IRL Cuttack | Analytical balance | 1 | Kern & Sohn GmbH | ABT220-5DM | WB 12E0035 | 29-Oct-13 | 1 year |
| 196 | Odisha | IRL Cuttack | Weighing Balance | 1 | SHIMADZU | 500g | D447110251 | 17-Jul-07 | NA |
| 197 | Odisha | IRL Cuttack | Water Bath | 1 | BD Biotechnika | BLT-58 | 10243 | 22-Nov-14 | NA |
| 198 | Odisha | IRL Cuttack | Water Bath | 1 | BD Biotechnika | BLT-58 | 10242 | 22-Nov-14 | NA |
| 199 | Odisha | RMRC Bhubaneswar | Hot air oven | 1 | Sanyo | MOV-212 | 9010013 | 8-Dec-09 | NA |
| 200 | Odisha | RMRC Bhubaneswar | Flexible thermometer for thermocycler and Twincubator validation | 1 | Gresinger electronic | GTH1170 | NA | Installed | 1 year |

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| 201 | Odisha | RMRC Bhubaneswar | Flexible thermometer for thermocycler and Twincubator validation | 1 | Gresinger electronic | GTH1170 | NA | Installed | 1 year |
| 202 | Odisha | RMRC Bhubaneswar | Electronic Analytical Balance | 1 | Kern & Sohn GmbH | ABT220-5DM | NA | Installed | 1 year |
| 203 | Odisha | RMRC Bhubaneswar | Electronic Precision Balance | 1 | Kern & Sohn GmbH | ABT220-5DM | NA | Installed | 1 year |
| 204 | Odisha | RMRC Bhubaneswar | Electronic Microincinerator | 1 | Sterimax | 5.101.000 | NA | Unopened | 1 year |
| 205 | Odisha | RMRC Bhubaneswar | Electronic Microincinerator | 1 | Sterimax | 5.101.000 | NA | Unopened | 1 year |
| 206 | Odisha | RMRC Bhubaneswar | Electronic Microincinerator | 1 | Sterimax | 5.101.000 | NA | Installed | 1 year |
| 207 | Maharashtra | Aurangabad | Flexible thermometer for thermocycler and Twincubator validation | 1 | GREISINGER ELECTRONIC | GTH1170 | NA | 12-Jan-14 | 1 year |
| 208 | Maharashtra | Aurangabad | Flexible thermometer for thermocycler and Twincubator validation | 1 | GREISINGER ELECTRONIC | GTH1170 | NA | 12-Jan-14 | 1 year |
| 209 | Maharashtra | Aurangabad | Flexible thermometer for thermocycler and Twincubator validation | 1 | GREISINGER ELECTRONIC | GTH1170 | NA | 12-Jan-14 | 1 year |
| 210 | Maharashtra | Aurangabad | Electronic Analytical Balance | 1 | Kern & Sohn GmbH | ABT-220-5DM | WB13E0104 | 17-Oct-14 | 1 year |
| 211 | Madhya Pradesh | BMHRC Bhopal | Analytical Balance | 1 | Kern & Sohn GmbH | ABT 220-5DM | WB-11E-0174 | 19-Jul-12 | 1 year |
| 212 | Madhya Pradesh | BMHRC Bhopal | Analytical Balance | 1 | Denver Instrument, Merck | SI-234 | 22804562 | 29-Jan-09 | NA |
| 213 | Madhya Pradesh | BMHRC Bhopal | Digital Analytical Balance | 1 | Jencons scientific Ltd. | HF-300G | 12918669 | 06-Sep-00 | NA |
| 214 | Madhya Pradesh | BMHRC Bhopal | Flexible thermometer for thermocycler and Twincubator validation | 1 | GREISINGER ELECTRONIC | GTH1170 | Thermometer 6 | 23-Sep-13 | 1 year |
| 215 | Madhya Pradesh | BMHRC Bhopal | Flexible thermometer for thermocycler and Twincubator validation | 1 | GREISINGER ELECTRONIC | GTH1170 | Thermometer 7 | 23-Nov-13 | 1 year |
| 216 | Madhya Pradesh | BMHRC Bhopal | Flexible thermometer for thermocycler and Twincubator validation | 1 | GREISINGER ELECTRONIC | GTH1170 | Thermometer 8 | 21-Sep-14 | 1 year |
| 217 | Gujarat | Ahmedabad | Flexible thermometer for thermocycler and Twincubator validation | 1 | GREISINGER ELECTRONIC | GTH1170 | IRLAHDThermometer-1 | 15-Jan-10 | 1 year |

| | | | | | | | | | |
|-----|----------------|------------|--|---|-----------------------|-------------|--------------------------------|-----------|--------|
| 218 | Gujarat | Ahmedabad | Universal oven | 1 | KHERA | NA | IRLAHDOven-1 | 21-Sep-09 | NA |
| 219 | Gujarat | Ahmedabad | Precision balance | 1 | WIBRO | DJ-150 S | IRLAHDBalance-1 | 5-Aug-11 | NA |
| 220 | Gujarat | Ahmedabad | Precision balance | 1 | METTLER TOLEDO | NA | IRLAHDBalance-2 | 1-Jan-10 | NA |
| 221 | Gujarat | Ahmedabad | Precision balance | 1 | Kern & Sohn GmbH | PCB-3500-2 | WB13E0010 | 12-Aug-13 | 1 year |
| 222 | Gujarat | Ahmedabad | Water bath | 1 | Khera | NA | IRLAHDW.Bath-2 | 1-Jan-09 | NA |
| 223 | Madhya Pradesh | IRL Indore | Flexible thermometer for thermocycler and Twincubator validation | 1 | GREISINGER ELECTRONIC | GTH1170 | IRL/MRTB/THERMO/01 | 17-Dec-11 | 1 year |
| 224 | Madhya Pradesh | IRL Indore | Flexible thermometer for thermocycler and Twincubator validation | 1 | GREISINGER ELECTRONIC | GTH1170 | IRL/MRTB/THERMO/02 | 17-Dec-11 | 1 year |
| 225 | Madhya Pradesh | IRL Indore | Electronic Balance | 1 | Essae-Teraoka Ltd | Essae | FB20108171 | 06-Mar-10 | NA |
| 226 | Madhya Pradesh | IRL Indore | Universal Hot air Oven | 1 | ITL Labs PVT LTD | LE-105 | LE-1051 | 26-Dec-09 | NA |
| 227 | Madhya Pradesh | IRL Indore | Universal Hot air oven | 1 | ITL Labs PVT LTD | LE-105 | LE-1052 | 26-Dec-09 | NA |
| 228 | Madhya Pradesh | IRL Indore | Double Distilled water plant | 1 | BOROSIL | Quartz BI | Cat. No. 3365 (IRL/MRTB/DW/02) | 20-Dec-13 | NA |
| 229 | Madhya Pradesh | IRL Indore | Metal water Distillation plant | 1 | Local Make | - | IRL/MRTB/DW/01 | 28-Aug-09 | NA |
| 230 | Madhya Pradesh | IRL Indore | Electronic Analytical Balance | 1 | Kern & Sohn GmbH | ABT-220-5PM | WB12E0056 | 16-May-13 | 1 year |
| 231 | Madhya Pradesh | IRL Indore | Water Bath | 1 | Sonar | SWB3230 | F00/8690709 | 17-Dec-09 | NA |
| 232 | Madhya Pradesh | IRL Indore | Water Bath | 1 | Labotech | BDI-57 | 20130451 | 1-Jun-13 | NA |
| 233 | Gujarat | Jamnagar | Flexible thermometer for thermocycler and Twincubator validation | 1 | GREISINGER ELECTRONIC | GTH1170 | -- | 30-Oct-11 | 1 year |
| 234 | Gujarat | Jamnagar | Flexible thermometer for thermocycler and Twincubator validation | 1 | GREISINGER ELECTRONIC | GTH1170 | -- | 30-Oct-11 | 1 year |
| 235 | Gujarat | Jamnagar | Flexible thermometer for thermocycler and Twincubator validation | 1 | GREISINGER ELECTRONIC | GTH1170 | -- | 30-Oct-11 | 1 year |
| 236 | Gujarat | Jamnagar | Flexible thermometer for thermocycler and Twincubator validation | 1 | GREISINGER ELECTRONIC | GTH1170 | -- | 30-Oct-11 | 1 year |

| | | | | | | | | | |
|-----|-------------|----------|--|---|-----------------------|-------------|------------------------------|-----------|--------|
| 237 | Gujarat | Jamnagar | Precision balance | 1 | Kern & Sohn GmbH | PCB-3500-2 | WB12E0001 | 22-Sep-12 | 1 year |
| 238 | Gujarat | Jamnagar | HOT AIR OVEN | 1 | BIOCARE | YSI-421D | 21/HOT AIR OVEN/BIOCARE | 9-Jul-11 | NA |
| 239 | Maharashtra | Nagpur | Flexible thermometer for thermocycler and Twincubator validation | 1 | GREISINGER ELECTRONIC | GTH1170 | STDC/LAB/FLEX. Thermometer/1 | 5-May-11 | 1 year |
| 240 | Maharashtra | Nagpur | Inspisator | 1 | Zenith Inspis | INSPI-S | CV235921 | 1-Jun-10 | NA |
| 241 | Maharashtra | Nagpur | De-mineralised Water Plant | 1 | Khera Instruments | NA | STDC/LAB/D.Water/02 | 11-Aug-09 | NA |
| 242 | Maharashtra | Nagpur | Analytical Balance | 1 | VIBRA | DJ 150S | SJ-220CE | un opened | NA |
| 243 | Maharashtra | Nagpur | Analytical Balance | 1 | VIBRA | DJ 150S | 0-22170349 | 11-Jun-12 | NA |
| 244 | Maharashtra | Nagpur | Water Bath | 1 | Khera Instruments | NA | STDC/LAB/W.Bath/1 | 30-Apr-05 | NA |
| 245 | Maharashtra | Nagpur | Hot air Oven | 1 | Khera Instruments | NA | STDC/LAB/H.A.O/1 | 30-Apr-05 | NA |
| 246 | Maharashtra | Mumbai | Flexible thermometer for thermocycler and Twincubator validation | 1 | GREISINGER ELECTRONIC | GTH1170 | GMBH-D-93128 | 25-Apr-11 | 1 year |
| 247 | Maharashtra | Mumbai | Flexible thermometer for thermocycler and Twincubator validation | 1 | GREISINGER ELECTRONIC | GTH1170 | GMBH-D-93128 | 25-Apr-11 | 1 year |
| 248 | Maharashtra | Mumbai | Flexible thermometer for thermocycler and Twincubator validation | 1 | GREISINGER ELECTRONIC | GTH1170 | GMBH-D-93128 | 25-Apr-11 | 1 year |
| 249 | Maharashtra | Mumbai | Flexible thermometer for thermocycler and Twincubator validation | 1 | GREISINGER ELECTRONIC | GTH1170 | GMBH-D-93128 | 25-Apr-11 | 1 year |
| 250 | Maharashtra | Mumbai | Flexible thermometer for thermocycler and Twincubator validation | 1 | GREISINGER ELECTRONIC | GTH1170 | GMBH-D-93128 | 25-Apr-11 | 1 year |
| 251 | Maharashtra | Mumbai | Analytical Balance 1 | 1 | SARTORIOUS | BSA224S-CW | 24791776 | 1-Jun-12 | NA |
| 252 | Maharashtra | Mumbai | Analytical Balance 3 | 1 | Kern & Sohn GmbH | ABT 220-5DM | WB13E01169 | 20-Oct-14 | 1 year |
| 253 | Maharashtra | Mumbai | Water Bath | 1 | Brother Surgical | NA | MICRO/TB/WB II | 12-Apr-11 | NA |
| 254 | Maharashtra | Mumbai | Water Bath | 1 | J Parekh | BTI-40 | 39206 | 29-Dec-12 | NA |
| 255 | Maharashtra | Mumbai | Inspissator | 1 | paras surgical | DTC303 | NRHM/1 | 11-Feb-09 | NA |
| 256 | Maharashtra | Mumbai | Inspissator | 1 | Lab Hosp Crop | NA | 3670209 | 11-Feb-09 | NA |

| | | | | | | | | | |
|-----|-------------|--------|--|---|-------------------------|---------------|----------------|-----------|--------|
| 257 | Maharashtra | Mumbai | Inspissator | 1 | Brother Surgical | NA | MICRO/TB/INP 3 | 17-Aug-13 | NA |
| 258 | Maharashtra | Mumbai | Inspissator | 1 | I-Therm | AI-7982 | MICRO/TB/INP4 | 17-Aug-13 | NA |
| 259 | Maharashtra | Mumbai | Hot air oven | 1 | Tempo | TI115A | 737 | 1-Jan-97 | NA |
| 260 | Maharashtra | Mumbai | Hot air oven | 1 | Bio Technics | BTI 30 | 34207 | 21-Mar-12 | NA |
| 261 | Maharashtra | Mumbai | Hot air oven | 1 | Bio Technics | BTI 30 | 34208 | 21-Mar-12 | NA |
| 262 | Maharashtra | Mumbai | Glass distillation water plant | 1 | BOROSIL | Borosil | MICRO/TB/DA1 | 19-Jul-13 | NA |
| 263 | Maharashtra | Pune | Flexible thermometer for thermocycler and Twincubator validation | 1 | GREISINGER ELECTRONIC | GTH1170 | 110040 | 1-Jun-11 | 1 year |
| 264 | Maharashtra | Pune | Hot Air Oven | 1 | ITL Labs PVT LTD | VGL | 96179618 | 1-Jun-11 | NA |
| 265 | Maharashtra | Pune | Hot Air Oven | 1 | ITL Labs PVT LTD | VGM | 96179619 | 1-Jun-11 | NA |
| 266 | Maharashtra | Pune | water bath | 1 | pathak electrical works | SONAR | IRL/PNA/08 | 1-Jan-08 | NA |
| 267 | Maharashtra | Pune | water bath | 1 | Sonar | WSW - 5 | F0018980709 | 1-Jan-10 | NA |
| 268 | Maharashtra | Pune | Hot Air Oven | 1 | Khera Instruments | Model-100-800 | M166 | Jul-11 | NA |

Schedule No. XI – Walk in Cold Room and Walk in Incubator

| Sl. No. | State | Site | Equipment Name | Equipment by Type | Qty. | Make | Model | Serial No. | Installation Date / Month (DD-MMM-YY) | Warranty Status |
|---------|------------------|---------------|----------------------------|-------------------|------|----------------------------|--------------|--|---------------------------------------|-----------------|
| 1 | Himachal Pradesh | IRL,Dharampur | Walk in Cold Room | WIC | 1 | Frost | - | state/dharampur/WIC /FROST/01 | 1-Jul-14 | Under Warranty |
| 2 | Uttar Pradesh | IRL Agra | WALK-IN-INCUBATOR | WII | 1 | Khanna Engineers | - | UP/AGR/WIC/01 | 01-Mar-06 | Out of Warranty |
| 3 | Uttar Pradesh | IRL Agra | WALK-IN-COLD ROOM | WIC | 1 | Khanna Engineers | - | UP/AGR/WII/02 | 01-Mar-06 | Out of Warranty |
| 4 | Delhi | NDTC | Walk in Cold Room | WIC | 1 | Polaris | HUSKY 35135B | 980007180 | 15-Feb-12 | Out of warranty |
| 5 | Delhi | NDTC | Walk in Incubator Room | WII | 1 | Thermotech | TIC-4000N | -- | 15-Feb-07 | Out of warranty |
| 6 | Uttar Pradesh | IRL Lucknow | Walk in Cold Room | WIC | 1 | Science Tech (India) | STI | Assembled | 15-Mar-07 | Out of Warranty |
| 7 | Uttar Pradesh | IRL Lucknow | Walk-In- Incubator | WII | 1 | Science Tech (India) | STI | Assembled | 15-Mar-07 | Out of Warranty |
| 8 | Jammu & Kashmir | IRL Srinagar | Walk in Cold Room | WIC | 1 | R&B Dept[local contractor] | - | JK/SRN/WIC/01 | 13-May-13 | Out of Warranty |
| 9 | Jammu & Kashmir | IRL Srinagar | Walk in incubator | WII | 1 | R&B Dept[local contractor] | - | JK/SRN/WII/01 | 02-Jul-10 | Out of Warranty |
| 10 | Haryana | IRL Karnal | Walk in Cold Room | WIC | 1 | Khanna Engineers | NA | - | 27-Jun-05 | Out of Warranty |
| 11 | Haryana | IRL Karnal | Walk in Incubator Room | WII | 1 | Khanna Engineers | NA | - | 27-Jun-05 | Out of Warranty |
| 12 | Delhi | NITRD/ LRS | Incubator room | WII | 1 | Sai enterprises | NA | Institute/LRS/WII/Sai enterprises/01 | 1-Apr-05 | out of warranty |
| 13 | Delhi | NITRD/ LRS | Cold room | WIC | 1 | Industrial foams Pvt. Ltd | NA | Institute/LRS/WCC /Industrial Foams/01 | 1-Apr-05 | out of warranty |
| 14 | Punjab | IRL Patiala | Walk in Incubator | WII | 1 | Khanna Engineers | WII-CTD-P-21 | IRL-P-2-2009 | 01-Jul-09 | Out of Warranty |
| 15 | Punjab | IRL Patiala | Walk in Cold Room | WIC | 1 | Khanna Engineers | WIC-CTD-P-14 | IRL-P-3-2009 | 01-Jul-09 | Out of Warranty |
| 16 | Rajasthan | Ajmer | Walk In Cold Room | WIC | 1 | DENFOS | -- | QH 104186883 | 17-Jan-08 | Out of Warranty |
| 17 | Rajasthan | Ajmer | Walk In Incubator Room | WII | 1 | DENFOS | -- | -- | 17-Jan-08 | Out of Warranty |
| 18 | Tamil Nadu | IRL,CHENNAI | Walk in cooler / Cold Room | WIC | 1 | MARS | 4X6X8 ft | IRLTNCNI/WIC-1 | 15-Jun-07 | NA |
| 19 | Tamil Nadu | IRL,CHENNAI | Walk in | WII | 1 | NA | NA | IRLTNCNI/WII-1 | 15-Jun-07 | NA |

| | | | | | | | | | | |
|----|----------------|------------------|--------------------------|-----|---|------------------------------|--------------------------|-----------------------------|------------|----|
| | | | Incubator/Incubator room | | | | | | | |
| 20 | Kerala | IRL, Trivandrum | Walk-In- Incubator | WII | 1 | Lab Line | Custom Made | IRLKETVM-WII-1 | 13-Jan-11 | NA |
| 21 | Karnataka | IRL, Bangalore | Walk in incubator | WII | 1 | Local Make | NA | IRLBLR-WII-1 | 01-Jan-12 | NA |
| 22 | Karnataka | KIMS,Hubli | WIC | WIC | 1 | Custom Made | Custom Made | KIMS-HUBLI-WIC-1 | NA | NA |
| 23 | Karnataka | KIMS,Hubli | WII | WII | 1 | Custom Made | Custom Made | KIMS-HUBLI-WII-1 | NA | NA |
| 24 | Telangana | IRL, Hyderabad | Walk in incubator | WII | 1 | SHIJITEK | NA | IRL-HYD-WII-1 | 01-Jan-12 | NA |
| 25 | Puducherry | IRL,Pondicherry | Walk in cold room | WIC | 1 | Rajendra Scientific | Custom Made | IRL-Pondy-WIC-1 | 01-Oct-11 | NA |
| 26 | Andhra Pradesh | Vizag | Walkin incubator | WII | 1 | Whitenair | ----- | state/Vizag/WII/Whitener/01 | 11-Jul-12 | NA |
| 27 | Karnataka | ICELT | Walk in coldroom | WIC | 1 | Custom Made | achp040k2z | 10451 | 01-01-11 | NA |
| 28 | Bihar | IRL Patna | walk in incubator | WII | 1 | NA | Local made | NA | 27-Nov-12 | NA |
| 29 | West Bengal | IRL Siliguri | Walk in Cold Room (WIC) | WIC | 1 | Refricon, Kalyani, WB | NA | NA | 01.11.2015 | NA |
| 30 | West Bengal | IRL Kolkata | Walk In Incubator | WII | 1 | PRECISION | PTC | Assembled | 01-Aug-11 | NA |
| 31 | Assam | IRL Guwahati | Walk in Incubator Room | WII | 1 | Local made | NA | NA | 01-Jun-11 | NA |
| 32 | Odisha | RMRC Bhubaneswar | Walk-in-incubator | WII | 1 | SR Lab Instruments | SRL-GC-12 | SRL/W11-B | 20-Sep-12 | NA |
| 33 | Maharashtra | Aurangabad | Walk In Cold Room | WIC | 1 | Samrudhi Enterprises | NA | NA | 2-Feb-14 | NA |
| 34 | Maharashtra | Aurangabad | Walk-in incubator room | WII | 1 | Samrudhi Enterprises | NA | NA | 2-Feb-14 | NA |
| 35 | Madhya Pradesh | BMHRC Bhopal | Walk-in incubator room | WII | 1 | subzero, Tecumseh | SZ-7510-P, AWA5522EGE(Q) | Walkin | 01-Aug-12 | NA |
| 36 | Madhya Pradesh | BMHRC Bhopal | Walk In Cold Room | WIC | 1 | Echofrost | EF-7510-P | Walkcr | 01-Aug-12 | NA |
| 37 | Gujarat | Ahmedabad | Walk-in incubator room | WII | 1 | NA | NA | IRLAHDIncubatorplant-1 | 1-Jan-09 | NA |
| 38 | Gujarat | Ahmedabad | Walk In Cold Room | WIC | 1 | Armec | NA | IRLAHDColdroom-1 | 5-Aug-11 | NA |
| 39 | Maharashtra | Nagpur | Walk In Cold Room | WIC | 1 | Huurre | NA | STDC/LAB/W.COOLER/1 | 25-Mar-08 | NA |
| 40 | Maharashtra | Nagpur | Walk-in incubator room | WII | 1 | Khera Instruments | NA | STDC/LAB/W.Incub/1 | 13-Apr-12 | NA |
| 41 | Maharashtra | Mumbai | Walk-in incubator room | WII | 1 | Phoenix instruments pvt ltd. | NA | MICRO/TB/WII 1 | 7-Aug-12 | NA |

Schedule No. XII – Incubator

| Sl. No. | State | Site | Equipment Name | Qty. | Make | Model | Serial No. | Installation Date / Month (DD-MMM-YY) | Warranty Status |
|---------|------------------|---------------|---------------------------|------|--|--------------|-----------------------------------|---------------------------------------|-----------------|
| 1 | Uttar Pradesh | AMU Aligarh | Laboratory Incubator | 1 | Lab Man | LMIO-43 | NA | 04-Mar-14 | Under Warranty |
| 2 | Uttar Pradesh | AMU Aligarh | Laboratory Incubator | 1 | Lab Man | LMIO-124 | NA | 04-Mar-14 | Under Warranty |
| 3 | Uttar Pradesh | AMU Aligarh | Incubator 37 °C | 1 | MAC | NA | NA | 01-Jan-00 | Out of Warranty |
| 4 | Himachal Pradesh | IRL,Dharampur | Incubator (37 Degree) | 1 | Thermolab | T10000400S | 282-07-10-11 | 1-Jan-12 | Out of Warranty |
| 5 | Himachal Pradesh | IRL,Dharampur | Incubator (37 Degree) | 1 | Thermolab | T10000400S | 281-07-10-11 | 1-Jan-12 | Out of Warranty |
| 6 | Himachal Pradesh | IRL,Dharampur | Incubator (37 Degree) | 1 | Suswox | NA | CTD/Dharampur/Incubator/Suswox/01 | 1-Feb-12 | Out of Warranty |
| 7 | Himachal Pradesh | IRL,Dharampur | BOD Incubator | 1 | Thermolab | TP00004009 | 283/08/10-11 | 1-Feb-12 | Out of Warranty |
| 8 | Uttar Pradesh | IMS BHU | Incubator | 1 | NSW India | NSW151 | 01/DMB/R/INC/00001 | 01-Jul-09 | Out of Warranty |
| 9 | Uttar Pradesh | IMS BHU | Incubator | 1 | NSW India | NSW151 | 01/DMB/R/INC/00002 | 01-Jul-09 | Out of Warranty |
| 10 | Uttar Pradesh | IMS BHU | Incubator | 1 | NSW India | NSW151 | 01/DMB/R/INC/00003 | 01-Jul-09 | Out of Warranty |
| 11 | Uttar Pradesh | IMS BHU | Incubator | 1 | WBCON's | INSPI 100S | 01/DMB/R/INS/00001 | 01-Jul-10 | Out of Warranty |
| 12 | Uttar Pradesh | IMS BHU | Incubator | 1 | SI Equipment | - | 01/DMB/R/INS/00002 | 01-Jul-10 | Out of Warranty |
| 13 | Uttar Pradesh | IRL Agra | Precision Incubator | 1 | MMM Medcentre | Incucell 404 | C092946 | 22-Mar-14 | Out of Warranty |
| 14 | Uttar Pradesh | IRL Agra | Precision Incubator | 1 | MMM Medcentre | Incucell 404 | C092939 | 22-Mar-14 | Out of Warranty |
| 15 | Uttar Pradesh | IRL Agra | Cooling incubators (BOD) | 1 | MMM Medcentre | Friocell 222 | B093111 | Not installed | Out of Warranty |
| 16 | Uttar Pradesh | IRL Lucknow | BOD incubator | 1 | THERMOLAB SCIENTIFIC EQUIPMENT PVT.LTD | TB0000400S | 308 | 14-Sep-10 | Out of Warranty |
| 17 | Uttar Pradesh | IRL Lucknow | Bacteriological incubator | 1 | THERMOLAB SCIENTIFIC EQUIPMENT PVT.LTD | TI0000400S | 306 | 14-Sep-10 | Out of Warranty |
| 18 | Uttar Pradesh | IRL Lucknow | Bacteriological incubator | 1 | THERMOLAB SCIENTIFIC | TI0000400S | 307 | 14-Sep-10 | Out of Warranty |

| | | | | | EQUIPMENT PVT.LTD | | | | |
|----|-----------------|-----------------|-------------------------------------|---|--|----------------|----------------------------------|-----------|-----------------|
| 19 | Uttar Pradesh | IRL Lucknow | Incubator | 1 | Servotronics | - | Incubator/03 | 01-Dec-06 | Out of Warranty |
| 20 | Jammu & Kashmir | IRL Srinagar | Incubator | 1 | Thermo Lab Scientific | TI0000400G | 288/07/10-11 | 29-Oct-10 | Out of Warranty |
| 21 | Jammu & Kashmir | IRL Srinagar | Incubator | 1 | Thermo Lab Scientific | TI00004005 | 287/07/10-11 | 29-Oct-10 | Out of Warranty |
| 22 | Jammu & Kashmir | IRL Srinagar | BOD incubator | 1 | Thermo Lab Scientific | TP00004008 | 259/07/10-11 | 29-Oct-10 | Out of Warranty |
| 23 | Delhi | AIIMS | Incubator | 1 | THERMOTECH | IBMSPECIAL | 762/509 | 1-Jan-10 | Out of Warranty |
| 24 | Delhi | AIIMS | Incubator | 1 | THERMOTECH | IBMSPECIAL | 761/509 | 1-Jan-10 | Out of Warranty |
| 25 | Delhi | AIIMS | Incubator | 1 | Thermotech | SKS/16 | | 5-Jan-16 | Under Warranty |
| 26 | Haryana | IRL Karnal | Cooling Incubator | 1 | MMM Medcentre | Friocell | B063099 | 01-Nov-06 | Out of Warranty |
| 27 | Haryana | IRL Karnal | Precision Incubator | 1 | MMM Medcentre | Incucell | B063101 | 01-Nov-06 | Out of Warranty |
| 28 | Haryana | IRL Karnal | Precision Incubator | 1 | MMM Medcentre | Incucell | B063100 | 01-Nov-06 | Out of Warranty |
| 29 | Delhi | NITRD/ LRS | BOD Incubator | 1 | Harrison | NA | Institute/LRS/BODI/HARRISON/01 | 12-Jun-08 | out of warranty |
| 30 | Delhi | NITRD/ LRS | BOD Incubator | 1 | Matrix eco solutions | NES 116 | Institute/LRS/BODI/Matrix eco/01 | 13-Oct-12 | Under Warranty |
| 31 | Delhi | NITRD/ LRS | BOD Incubator | 1 | Matrix eco solutions | NES 116 | Institute/LRS/BODI/Matrix eco/02 | 24-Nov-11 | out of warranty |
| 32 | Punjab | IRL Patiala | BOD Incubator | 1 | Thermolabs | T100004005 | 301/08/10-11 | 27-Aug-10 | Out of Warranty |
| 33 | Punjab | IRL Patiala | BOD Incubator | 1 | Thermolabs | TB00004005 | 302/02/10-11 | 27-Aug-10 | Out of Warranty |
| 34 | Punjab | IRL Patiala | BOD Incubator | 1 | Thermolabs | TB00004005 | 302/07/10-11 | 27-Aug-10 | Out of Warranty |
| 35 | Rajasthan | SMS Jaipur | Bacteriologic Incubator (300 lt)*** | 1 | Authentic | 10CFT | 1583 | 20-Jul-08 | Out of warranty |
| 36 | Kerala | IRL, Trivandrum | BOD Incubator | 1 | Lab Line | NA | 103.2959 | 13-Jan-11 | NA |
| 37 | Karnataka | IRL, Bangalore | Bacteriological Incubator | 1 | Thermolab Scientific Equipment Pvt Ltd | TI0000400S | 110000400S | 01-Jan-12 | NA |
| 38 | Karnataka | IRL, Bangalore | Bacteriological Incubator | 1 | Thermolab Scientific Equipment Pvt Ltd | TI0000400S | 289/07/10-11 | 01-Jan-12 | NA |
| 39 | Karnataka | IRL, Bangalore | Bacteriological Incubator | 1 | Thermolab Scientific Equipment Pvt Ltd | TI0000400S | 291/07/10-11 | 01-Jan-12 | NA |
| 40 | Karnataka | KIMS,Hubli | Incubator | 1 | MMM Group | INCUCELL – 404 | C 092942 | 01-Dec-12 | NA |
| 41 | Karnataka | KIMS,Hubli | Incubator | 1 | MMM Group | INCUCELL – 404 | C 092943 | 01-Dec-12 | NA |
| 42 | Karnataka | KIMS,Hubli | BOD Incubator | 1 | MMM Group | FRIOCELL - 222 | BO93116 | 01-Dec-12 | NA |

| | | | | | | | | | |
|----|----------------|------------------|--|---|--|-----------------|-----------------------------|-----------|----|
| 43 | Puducherry | IRL,Pondicherry | Incubator-Vertical | 1 | Rajendra Scientific | NA | IRL-Pondy-VI-1 | 04-Jan-05 | NA |
| 44 | Puducherry | IRL,Pondicherry | Incubator-Vertical | 1 | Rajendra Scientific | NA | IRL-Pondy-VI-2 | 04-Jan-05 | NA |
| 45 | Andhra Pradesh | Vizag | Incubator | 1 | MMM Group | INCUCCELL – 404 | C092945 | 4-Nov-12 | NA |
| 46 | Andhra Pradesh | Vizag | Incubator | 1 | MMM Group | INCUCCELL – 404 | C092944 | 4-Nov-12 | NA |
| 47 | Andhra Pradesh | Vizag | Cooling incubator | 1 | MMM Group | FRIOCELL - 222 | B093115 | 4-Nov-12 | NA |
| 48 | Bihar | IRL Patna | Bacteriological Incubator | 1 | THERMOLAB SCIENTIFIC EQUIPMENT PVT.LTD | TI0000400S | 277/07/10-11 | 18-Jun-11 | NA |
| 49 | Bihar | IRL Patna | Bacteriological Incubator | 1 | THERMOLAB SCIENTIFIC EQUIPMENT PVT.LTD | TI0000400S | 275/07/10-11 | 18-Jun-11 | NA |
| 50 | Bihar | IRL Patna | Bacteriological Incubator | 1 | THERMOLAB SCIENTIFIC EQUIPMENT PVT.LTD | TI0000400S | 276/07/10-11 | 8-Feb-14 | NA |
| 51 | Assam | IRL Guwahati | Bacteriologic Incubator (300 lt)*** (37°c , 42°c) | 1 | THERMOLAB SCIENTIFIC EQUIPMENT PVT.LTD | TI0000400S | 273/07/10-11 | 01-Mar-11 | NA |
| 52 | Assam | IRL Guwahati | Bacteriologic Incubator (300 lt)*** (37°c , 42°c) | 1 | THERMOLAB SCIENTIFIC EQUIPMENT PVT.LTD | TI0000400S | 261/07/10-11 | 01-Mar-11 | NA |
| 53 | Assam | IRL Guwahati | BOD Incubator(25°c) | 1 | THERMOLAB SCIENTIFIC EQUIPMENT PVT.LTD | TB0000400G | 274/07/10-11 | 01-Jul-11 | NA |
| 54 | Odisha | RMRC Bhubaneswar | Incubator | 1 | SR LAB Instruments | SRL-GC-12 | SRL/WII-B | 20-Sep-12 | NA |
| 55 | Madhya Pradesh | BMHRC Bhopal | CO2 Incubator | 1 | Jencons Millenium | 394-046-LS | 1297-0067 | 06-Sep-00 | NA |
| 56 | Gujarat | Ahmedabad | Incubator(BOD) | 1 | Metalab | NA | IRLAHDIncubator-1 | 1-Jan-09 | NA |
| 57 | Madhya Pradesh | IRL Indore | Bacteriologic Incubator (300 lt) | 1 | Thermolab | TB0000400S | 292/07/10-11 | 30-Sep-10 | NA |
| 58 | Madhya Pradesh | IRL Indore | BOD Incubator | 1 | Thermolab | TB0000400S | 292/07/10-11 | 30-Sep-10 | NA |
| 59 | Gujarat | Jamnagar | INCUBATOR | 1 | BIOCARE | NA | 22/B.O.D. INCUBATOR/BIOCARE | 9-Jul-11 | NA |

| | | | | | | | | | |
|----|-------------|----------|----------------------------------|---|--|------------|-----------------------------|-----------|----|
| 60 | Gujarat | Jamnagar | INCUBATOR | 1 | BIOCARE | NA | 23/B.O.D. INCUBATOR/BIOCARE | 9-Jul-11 | NA |
| 61 | Gujarat | Jamnagar | INCUBATOR | 1 | BIOCARE | NA | 24/B.O.D. INCUBATOR/BIOCARE | 9-Jul-11 | NA |
| 62 | Gujarat | Jamnagar | INCUBATOR | 1 | BIOCARE | NA | 25/B.O.D. INCUBATOR/BIOCARE | 9-Jul-11 | NA |
| 63 | Gujarat | Jamnagar | INCUBATOR | 1 | BIOCARE | NA | 26/B.O.D. INCUBATOR/BIOCARE | 9-Jul-11 | NA |
| 64 | Gujarat | Jamnagar | INCUBATOR | 1 | BIOCARE | N A | 27/B.O.D. INCUBATOR/BIOCARE | 9-Jul-11 | NA |
| 65 | Gujarat | Jamnagar | INCUBATOR | 1 | BIOCARE | NA | 28/B.O.D. INCUBATOR/BIOCARE | 9-Jul-12 | NA |
| 66 | Maharashtra | Nagpur | Incubator | 1 | Khera Instruments | NA | STDC/LAB/W.Incub/1 | 30-Apr-05 | NA |
| 67 | Maharashtra | Nagpur | Incubator | 1 | Khera Instruments | NA | STDC/LAB/Incub/1 | 17-Aug-05 | NA |
| 68 | Maharashtra | Mumbai | General incubator | 1 | OGAWA SEIKI CO | NI-90 D | 111-MC-1/2 NO 8481 | 1-Jan-04 | NA |
| 69 | Maharashtra | Mumbai | General incubator | 1 | Bio Technics | BTI-25 | 323 | 21-Mar-12 | NA |
| 70 | Maharashtra | Mumbai | General incubator | 1 | Bio Technics | BTI-25 | 66045 | 16-Sep-12 | NA |
| 71 | Maharashtra | Mumbai | General incubator | 1 | Bio Technics | BTI-25 | 37956 | 16-Sep-12 | NA |
| 72 | Maharashtra | Mumbai | General incubator | 1 | I-Therm | AI-7982 | MICRO/TB/IC 4 | 1-Jan-14 | NA |
| 73 | Maharashtra | Mumbai | BOD Incubator | 1 | Osworld | OBOD-G-4 | 1782 | 1-Jan-14 | NA |
| 74 | Maharashtra | Pune | Thermal BOD incubator | 1 | THERMOLAB SCIENTIFIC EQUIPMENT PVT.LTD | NA | 567 | 12-Feb-09 | NA |
| 75 | Maharashtra | Pune | Thermal Bacterological incubator | 1 | THERMOLAB SCIENTIFIC EQUIPMENT PVT.LTD | TB0000400S | 568 | 12-Feb-09 | NA |
| 76 | Maharashtra | Pune | Thermal Bacterological incubator | 1 | THERMOLAB SCIENTIFIC EQUIPMENT PVT.LTD | TB0000400S | 569 | 12-Feb-09 | NA |

Schedule No. XIII - Pipette, Thermo cycler, Microliter Centrifuge, Refrigerated Centrifuge

| Sl. No. | State | Site | Equipment Name | Qty. | Make | Model | Serial No. | Installation Date / Month (DD-MMM-YY) | Warranty Status |
|---------|----------------|--------------|--|------|----------|----------------|----------------|---------------------------------------|-----------------|
| 1 | Madhya Pradesh | BMHRC Bhopal | Micro Pipettes, 3µl | 1 | Flexpet | Labnet | 063262 | 01-Mar-05 | NA |
| 2 | Madhya Pradesh | BMHRC Bhopal | Micro Pipettes, 20-200µl | 1 | Labnet | Micropet | 631030066 | 01-Mar-05 | NA |
| 3 | Madhya Pradesh | BMHRC Bhopal | Micro Pipettes, 100-1000µl | 1 | Micropet | Pfact | Pfact 100 | 01-Mar-05 | NA |
| 4 | Madhya Pradesh | BMHRC Bhopal | Micro Pipettes, 5-50µl | 1 | Pfact | Finnipette | 099227 | 01-Mar-05 | NA |
| 5 | Gujarat | Ahmedabad | 1-channel pipette, variable from 1 - 10 ul | 1 | SOCOREX | ACURA 825.0010 | 18012560 | 1-Jan-12 | NA |
| 6 | Gujarat | Ahmedabad | 1-channel pipette, variable from 1 - 10 ul | 1 | SOCOREX | ACURA 825.0010 | 18092121 | 1-Jan-12 | NA |
| 7 | Gujarat | Ahmedabad | 1-chanel pipette, variable from 20 -200 ul | 1 | SOCOREX | ACURA 825.0200 | 18091773 | 1-Jan-12 | NA |
| 8 | Gujarat | Ahmedabad | 1-chanel pipette, variable from 20 -200 ul | 1 | SOCOREX | ACURA 825.0200 | 18091827 | 1-Mar-13 | NA |
| 9 | Gujarat | Ahmedabad | 1-chanel pipette, variable from 20 -200 ul | 1 | SOCOREX | ACURA 825.0200 | 18091845 | 1-Jan-12 | NA |
| 10 | Gujarat | Ahmedabad | 1-channel pipette, variable from 100 - 1000 ul | 1 | SOCOREX | ACURA 825.1000 | 18013102 | 1-Jan-11 | NA |
| 11 | Gujarat | Ahmedabad | 1-channel pipette, variable from 100 - 1000 ul | 1 | SOCOREX | ACURA 825.1000 | 18093576 | 1-Jan-11 | NA |
| 12 | Gujarat | Ahmedabad | 1-channel pipette, variable from 100 - 1000 ul | 1 | SOCOREX | ACURA 825.1000 | 18093677 | 1-Jan-11 | NA |
| 13 | Gujarat | Ahmedabad | 1-channel pipette, variable from 100 - 1000 ul | 1 | SOCOREX | ACURA 825.1000 | 18093567 | 1-Jan-11 | NA |
| 14 | Gujarat | Ahmedabad | 1-channel pipette, variable from 100 - 1000 ul | 1 | SOCOREX | ACURA 825.1000 | 18093183 | 1-Jan-11 | NA |
| 15 | Rajasthan | Ajmer | Pipetting Device | 1 | EFILL | Microlit | -- | 1-Sep-07 | NA |
| 16 | Rajasthan | Ajmer | Pipetting Device | 1 | EFILL | Microlit | -- | 1-Sep-07 | NA |
| 17 | Rajasthan | Ajmer | 1-chanel pipette, variable from 20 -200 ul | 1 | Genric | P 200 N | F144565EN96853 | 4-Jul-11 | NA |
| 18 | Rajasthan | Ajmer | 1-chanel pipette, variable from 20 -200 ul | 1 | Genric | P 200 N | F144565EN90016 | 4-Jul-11 | NA |
| 19 | Rajasthan | Ajmer | 1-chanel pipette, variable from 20 -200 ul | 1 | Genric | P 200 N | F144565HG23179 | 4-Jul-11 | NA |
| 20 | Rajasthan | Ajmer | 1-chanel pipette, variable from 20 -200 ul | 1 | Genric | P 200 N | F144565HG23174 | 4-Jul-11 | NA |
| 21 | Rajasthan | Ajmer | 1-channel pipette, variable from 100 - 1000 ul - Gilson/Hain | 1 | Genric | P 1000 | F123602GK30376 | 4-Jul-11 | NA |
| 22 | Rajasthan | Ajmer | 1-channel pipette, variable from 100 - 1000 ul - Gilson/Hain | 1 | Genric | P 1000 | F123602GK30377 | 4-Jul-11 | NA |

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|----|-----------|-------|--|---|----------|--------|----------------|-----------|----|
| 23 | Rajasthan | Ajmer | 1-channel pipette, variable from 100 - 1000 ul - Gilson/Hain | 1 | Generic | P 1000 | F123602GK30378 | 4-Jul-11 | NA |
| 24 | Rajasthan | Ajmer | 1-channel pipette, variable from 100 - 1000 ul - Gilson/Hain | 1 | Generic | P 1000 | F123602GK30379 | 4-Jul-11 | NA |
| 25 | Rajasthan | Ajmer | Mech.Pipettor 0.5 to 10 microliter | 1 | M-LINE | -- | 9114010 | 4-Jul-11 | NA |
| 26 | Rajasthan | Ajmer | Mech.Pipettor 0.5 to 10 microliter | 1 | M-LINE | -- | 9114011 | 4-Jul-11 | NA |
| 27 | Rajasthan | Ajmer | Mech.Pipettor 0.5 to 10 microliter | 1 | M-LINE | -- | 9114012 | 4-Jul-11 | NA |
| 28 | Rajasthan | Ajmer | Mech.Pipettor 10 to 100 microliter | 1 | M-LINE | -- | 9114328 | 4-Jul-11 | NA |
| 29 | Rajasthan | Ajmer | Mech.Pipettor 10 to 100 microliter | 1 | M-LINE | -- | 9114329 | 4-Jul-11 | NA |
| 30 | Rajasthan | Ajmer | Mech.Pipettor 10 to 100 microliter | 1 | M-LINE | -- | 9114330 | 4-Jul-11 | NA |
| 31 | Rajasthan | Ajmer | Mech.Pipettor 10 to 100 microliter | 1 | M-LINE | -- | 9114331 | 4-Jul-11 | NA |
| 32 | Rajasthan | Ajmer | Mech.Pipettor 10 to 100 microliter | 1 | M-LINE | -- | 9114332 | 4-Jul-11 | NA |
| 33 | Rajasthan | Ajmer | Mech.Pipettor 100 to 1000 microliter | 1 | M-LINE | -- | 9114415 | 4-Jul-11 | NA |
| 34 | Rajasthan | Ajmer | Mech.Pipettor 100 to 1000 microliter | 1 | M-LINE | -- | 9114416 | 4-Jul-11 | NA |
| 35 | Rajasthan | Ajmer | Mech.Pipettor 100 to 1000 microliter | 1 | M-LINE | -- | 9114417 | 4-Jul-11 | NA |
| 36 | Rajasthan | Ajmer | Mech.Pipettor 100 to 1000 microliter | 1 | M-LINE | -- | 9114418 | 4-Jul-11 | NA |
| 37 | Rajasthan | Ajmer | Mech.Pipettor 100 to 1000 microliter | 1 | M-LINE | -- | 9114419 | 4-Jul-11 | NA |
| 38 | Rajasthan | Ajmer | Mech.Pipettor 20 to 200 microliter | 1 | M-LINE | -- | 9119307 | 4-Jul-11 | NA |
| 39 | Rajasthan | Ajmer | Mech.Pipettor 20 to 200 microliter | 1 | M-LINE | -- | 9119308 | 4-Jul-11 | NA |
| 40 | Rajasthan | Ajmer | Mech.Pipettor 20 to 200 microliter | 1 | M-LINE | -- | 9119309 | 4-Jul-11 | NA |
| 41 | Rajasthan | Ajmer | Proline Plus Single Channel Pipette 20 to 200 | 1 | BIOHIT | -- | 400293.01 | 4-Jul-11 | NA |
| 42 | Delhi | NDTC | 1-channel pipette, variable from 1 - 10 ul | 1 | BIOHIT | P10 | 9114008 | 26-Mar-11 | NA |
| 43 | Delhi | NDTC | 1-channel pipette, variable from 20 - 200 µl - Generic | 1 | BIOHIT | P1000 | 9114410 | 26-Mar-11 | NA |
| 44 | Delhi | NDTC | 1-chanel pipette, variable from 0.5 -10 ul | 1 | Nichiryo | P10 | H14781141 | 4-Apr-11 | NA |
| 45 | Delhi | AIIMS | 1-chanel pipette, variable from 20 -200 ul | 1 | Generic | - | EJ-90158 | 29-Dec-10 | NA |
| 46 | Delhi | AIIMS | 1-chanel pipette, variable from 20 -200 ul | 1 | Generic | - | EH-89396 | 29-Dec-10 | NA |
| 47 | Delhi | AIIMS | 1-chanel pipette, variable from 20 -200 ul | 1 | Generic | - | EH-89419 | 29-Dec-10 | NA |
| 48 | Delhi | AIIMS | 1-chanel pipette, variable from 20 -200 ul | 1 | Generic | - | EJ-86825 | 29-Dec-10 | NA |
| 49 | Delhi | AIIMS | 1-channel pipette, variable from 100 - 1000 ul - Gilson/Hain | 1 | Generic | - | EL-56678 | 29-Dec-10 | NA |
| 50 | Delhi | AIIMS | 1-channel pipette, variable from 100 - 1000 ul - Gilson/Hain | 1 | Generic | - | EJ-50520 | 29-Dec-10 | NA |

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|----|-----------|-----------------|--|---|--------------|--------------|------------------------|-----------|----|
| 51 | Delhi | AIIMS | 1-channel pipette, variable from 100 - 1000 ul - Gilson/Hain | 1 | Genric | - | EL-56674 | 29-Dec-10 | NA |
| 52 | Delhi | AIIMS | 1-channel pipette, variable from 100 - 1000 ul - Gilson/Hain | 1 | Genric | - | EK-54224 | 29-Dec-10 | NA |
| 53 | Punjab | IRL Patiala | Pipetting Device | 1 | Lobachemie | PD-CTD-25 | IRL-P-10-2009 | 13-Nov-09 | NA |
| 54 | Kerala | IRL, Trivandrum | 1-channel pipette, variable from 100 - 1000 ul | 1 | Axypet | 100 -1000 ul | EJ50524 | 28-Mar-09 | NA |
| 55 | Kerala | IRL, Trivandrum | 1-channel pipette, variable from 100 - 1000 ul | 1 | Axypet | 100 -1000 ul | EJ50517 | 28-Mar-09 | NA |
| 56 | Kerala | IRL, Trivandrum | 1-channel pipette, variable from 100 - 1000 ul | 1 | Axypet | 100 -1000 ul | EK53902 | 28-Mar-09 | NA |
| 57 | Kerala | IRL, Trivandrum | 1-channel pipette, variable from 100 - 1000 ul | 1 | Axypet | 100 -1000 ul | EK53902 | 28-Mar-09 | NA |
| 58 | Karnataka | KIMS,Hubli | 1-channel pipette, variable from 1 - 10 ul - Gilson/Hain | 1 | Pipetman Neo | P10 | GN25614 | 13-Mar-13 | NA |
| 59 | Bihar | IRL Patna | Schedule III-Pipetting Device | 1 | Lobachemie | NA | BI/PAT/PIPET DEVICE/01 | un opened | NA |
| 60 | Bihar | IRL Patna | Schedule III-Pipetting Device | 1 | Lobachemie | NA | BI/PAT/PIPET DEVICE/02 | un opened | NA |
| 61 | Jharkhand | IRL Ranchi | Pipetting Device | 1 | efill | efill | JH/RNC/EFILL/02 | 19-Feb-09 | NA |
| 62 | Jharkhand | IRL Ranchi | Pipetting Device | 1 | efill | efill | JH/RNC/EFILL/01 | 19-Feb-09 | NA |
| 63 | Assam | IRL Guwahati | 1-channel pipette ,variable from 1010 ul-gilson | 1 | Accupipete | T10 | V41628 | 03-Jul-11 | NA |
| 64 | Assam | IRL Guwahati | 1-channel pipette, variable from 2,0 - 20 ul - Gilson/Hain | 1 | Accupipete | T20 | V42216 | 03-Jul-11 | NA |
| 65 | Assam | IRL Guwahati | 1-chanel pipette, variable from 20 -200 ul | 1 | Accupipete | T2 | V42210 | 03-Jul-11 | NA |
| 66 | Assam | IRL Guwahati | 1-chanel pipette, variable from 20 -200 ul | 1 | Accupipete | T2 | V42194 | 03-Jul-11 | NA |
| 67 | Assam | IRL Guwahati | 1-chanel pipette, variable from 20 -200 ul | 1 | Accupipete | T2 | V42209 | 03-Jul-11 | NA |
| 68 | Assam | IRL Guwahati | 1-chanel pipette, variable from 20 -200 ul | 1 | Accupipete | T2 | V42215 | 03-Jul-11 | NA |
| 69 | Assam | IRL Guwahati | 1-channel pipette, variable from 100 - 1000 ul - Gilson/Hain | 1 | Accupipete | T1000 | V41877 | 03-Jul-11 | NA |
| 70 | Assam | IRL Guwahati | 1-channel pipette, variable from 100 - 1000 ul - Gilson/Hain | 1 | Accupipete | T1000 | V41593 | 03-Jul-11 | NA |
| 71 | Assam | IRL Guwahati | 1-channel pipette, variable from 100 - 1000 ul - Gilson/Hain | 1 | Accupipete | T1000 | V41894 | 03-Jul-11 | NA |
| 72 | Assam | IRL Guwahati | 1-channel pipette, variable from 100 ul generic | 1 | Accupipete | T100 | V42042 | 03-Jul-11 | NA |
| 73 | Assam | IRL Guwahati | 1-channel pipette, variable from 100 ul generic | 1 | Accupipete | T100 | V42174 | 03-Jul-11 | NA |
| 74 | Assam | IRL Guwahati | 1-channel pipette, variable from 100 ul generic | 1 | Accupipete | T100 | V40593 | 03-Jul-11 | NA |

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|----|----------------|------------------|---|---|----------------------------|----------------|-------------|-----------|-----------------|
| 75 | Assam | IRL Guwahati | 1-channel pipette, variable from 100 ul generic | 1 | Accupipete | T100 | V40439 | 03-Jul-11 | NA |
| 76 | Uttar Pradesh | AMU Aligarh | 1-chanel pipette, variable from 20 -200 ul | 1 | Genetics | GTX070077F | DU34099 | 12-Aug-14 | Under Warranty |
| 77 | Odisha | RMRC Bhubaneswar | Thermocycler, 96 positions for 0.2 ml tubes | 1 | G-STORM | GS00001 | GT-11309, | 16-Sep-08 | 1 year |
| 78 | Odisha | RMRC Bhubaneswar | Thermocycler, 96 positions for 0.2 ml tubes | 1 | G-STORM | GS00001 | GT-11311 | 16-Sep-08 | 1 year |
| 79 | Uttar Pradesh | JALMA | Microliter Centrifuge | 1 | Allied Scientific products | Denville 260 D | S706251 | 16-Jun-10 | Out of Warranty |
| 80 | Uttar Pradesh | IRL Lucknow | Refrigerated centrifuge | 1 | Sigma | 3-18k | 147043 | 12-Dec-12 | Out of Warranty |
| 81 | Delhi | AIIMS | Micro CENTRIFUGE | 1 | Sigma | - | 140090 | 1-Jan-11 | Out of Warranty |
| 82 | Puducherry | IRL,Pondicherry | Centrifuge | 1 | Remi | R-23 | J2CI-9363 | 04-Jan-05 | NA |
| 83 | Puducherry | IRL,Pondicherry | Centrifuge | 1 | Remi | R-24 | BXCI-7275 | 04-Jan-05 | NA |
| 84 | Puducherry | IRL,Pondicherry | Centrifuge | 1 | Plastocrafts | Rota-4-V/FA | 2009/122411 | 04-Jan-05 | NA |
| 85 | Puducherry | IRL,Pondicherry | Centrifuge | 1 | Remi | R-40 | BBLO-1394 | 14-Mar-12 | NA |
| 86 | Madhya Pradesh | BMHRC Bhopal | Refrigerated Centrifuge | 1 | Remi | R-8C BL | KBLC-9260 | 01-Feb-10 | NA |

List of testing Instruments:

Calibration, validation and traceability certificate to be provided for each equipment along with preventive maintenance/ calibration and validation reports.

Bidders must submit the details of testing instruments already available with them in the following format in the technical proposal.

| Sl. No. | Testing Instruments | Make | Model | Reference/ Tolerance Range |
|----------------|----------------------------|-------------|--------------|---------------------------------------|
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Contact details of site (Laboratory) under RFP

| State | List of Laboratories | Name of consignee | Postal code | STDC Director/ Medical Superitendent/ HOD | Designation | Tel | Mobile | Email | Alternate Staff | Designation | Mobile | Email |
|----------------|----------------------|--|-------------|---|------------------------|--------------|------------------|--|------------------------|---|-----------------------------|--|
| Telangana | Hyderabad | State TB Training and Demonstration Centre Campus, Besides AP Chest Hospital, Erramnuma(SR Nagar) | 500 038 | Dr. CH. Surya Prakash | STDC Director | 040-23811797 | 9849902451 | stdcts@rntcp.org | Mr. K. Srikant | Microbiologist | 9885033299 | irlaphyd@rntcp.org |
| Andhra Pradesh | Vizag | Culture & DST Lab, Govt. Hospital for (TB) Chest & Communicable Diseases, Paddawaltar, Vishakhapatnam-530017 AndhraPradesh | 530 017 | Dr. N. Vasundhara | DTO | 0891-2552525 | 9849903070 | dtoapvsm@rntcp.org | Dr.CH.Suryamani | Asst.Professor In-charge MicroBiologist (Technical) | 9908833427/ 0891-2561104 | ghccdvsp@gmail.com / dstlabvsm@gmail.com |
| Assam | Guwahati | Intermediate Reference Laboratory Gauhati Medical College Narakasur Hill Top Guwahati-32 Assam | 781 032 | Dr N.K. Hazarika | Director | | 9435116628 | - | Dr. Bandana Choudhury | Microbiologist | 91986405108 1 | irlasgwh@rntcp.org , bandanachoudhury@yahoo.com |
| Bihar | Patna | IRL, Patna TBDC, Agamkuam,Patna | 800 007 | Dr. I D Ranjan | STDC Director | 0612-2636382 | | stdcbi@tbcindia.nic.in ; stdcbi@rntcp.org | Dr. Prashant Goswami | Microbiologist | 9717381275 | irlbiptn@rntcp.org |
| Bihar | Bhagalpur | C & DST Laboratory, RNTCP (TB program), C/o - Superintendent, Jawaharlal Nehru Medical College & Hospital, Mayaganj, Bhagalpur | 812001 | Dr. (Prof.) S. N. Tiwari | Head of the Department | - | 91943121463 9 | sntiwari52@yahoo.com | Mr.Devdatt Mani Prasad | Technical Officer | 9102304725 | dvdttmani@gmail.com ; cdstbibgl@gmail.com |
| Chhattisgarh | Raipur | State TB Training and Demonstration Center Regional Leprosy Training and Research Institute Campus Lalpur, Opp. MMI Hospital Raipur- 492001 Chhattisgarh | 492 015 | - | - | - | - | stdccg@tbcindia.nic.in | Dr. Sachin Chandrakar | Microbiologist | +9198276832 12 | irlcgrpr@tbcindia.nic.in / irlcgrpr@rntcp.org |

| | | | | | | | | | | | | |
|-----------|------------------|---|---------|---------------------|------------------|-------------------------------|------------|--|-------------------------|----------------------------------|---------------|--|
| Gujarat | Ahmedabad | State TB Demonstration & Training Centre(STDC), Campus of B.J. Medical College & Civil Hospital, Asarva | 380016 | Dr. P. M. Patel | Director | 079-22681033/ 079-22680465 | 9727722886 | stdcgu@tbcinda.nic.in; stdcgu@rntcp.org | Dr. Pranav Patel | Microbiologist | 919727722883 | irlguamc@tbcinda.nic.in; irlguamc@rntcp.org; drpranavpatel09@gmail.com |
| Gujarat | Jamnagar | C & DST LAB - Jamnagar M.P. Shah Medical College, Department of Microbiology, Near Mental Hospital, Vikas Gruh Road, Jamnagar 361 008 | 361 008 | Dr Malasinha Saxena | Professor & Head | 0288 2750225 | 9662950846 | mala_sinha56@yahoo.com; IRLGUJMD@rntcp.org | Dr Kundanika | Microbiologist | +919979653268 | IRLGUJMD@rntcp.org; kunip@yahoo.com |
| Karnataka | Bangalore | Lady Wellington State TB Training and Demonstration Centre,SDS TB & RGICD Campus, Someshwar Nagar, DRC Post, Bangalore | 560 029 | Dr. Anil | Director | 080-22726477 | 9448372516 | stdcka@tbcinda.nic.in/stdcka@rntcp.org/danil@gmail.com | Dr. Sangeetha | Specilaist | 9448081893 | san_kirana@yahoo.com |
| Karnataka | NTI Bangalore | National Tuberculosis Institute, Ministry of Health & Family Welfare, Directorate General of Health Servies, "Avalon", 8 Bellary Road, Bangalore | 560 003 | Dr Prahlad Kumar | Director | 88-60487616 | 9884722373 | Nti@ntiindia.org | Dr. George Sebastian | Microbiologist | 9483584564 | georgesebastian05@gmail.com |
| Kerala | Thiruvanthapuram | State TB Demonstration and Training Centre - Thiruvananthapuram State TB Cell Campus, State TB Cell, Red Cross Road, Nr. General Hospital, Trivandrum | 695035 | Dr.Sunil Kumar | Director | 0471-2471544 | 9447155334 | stdckc@dataone.in/ stdcke@tbcinda.nic.in/stdcke@rntcp.org | Dr Praveen Sanker | Microbiologist | 9895251869 | praveensanker@yahoo.com ; psanker@gmail.com |
| New Delhi | NDTC | New Delhi TB Centre - Delhi Jawaharlal Nehru Marg, Delhi Gate | 110 002 | Dr. K.K. Chopra | Director | 011-23239056 | 9811547066 | ndtbc@yahoo.com; stdcdl@rntcp.org | Dr. Hanif Mahmud | HOD- Microbiologist | 9810979064 | irldlndl@rntcp.org hanifmahmud@hotmail.com , mahmudhanifkm@gmail.com |
| | | | | | | | | | Dr. Kaushal K Dwivedi | Consultant Microbiologist (FIND) | 9989371930 | irldlndc@rntcp.org |
| Orissa | Cuttack | Anti TB Demonstration & Training Centre, S.C.B. Medical College Cuttack-753007 Orissa | 753 007 | Dr Sanjit Patnaik | Director | 0671-2414108 | 9437029020 | stdcor@tbcinda.nic.in; irlorbmc@tbcindia.nic.in/stdcor@rntcp.org; irlorbmc@rntcp.org | Dr Paresh Nath Mohanty, | Microbiologist | 9238579352 | irlorbmc@tbcinda.nic.in/pareshmohanty67@gmail.com/ irlorbmc@rntcp.org |

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|------------------|----------------|--|---------|---------------------|---------------------|--------------|---------------|---|--------------------------|--|----------------------------|---|
| Rajasthan | Ajmer | Kamala Nehru State Training & Demonstration Centre (STDC) Near Soochana Kendra, In front of Church, Jaipur Road, Ajmer- 305 001 | 305001 | Dr M.P. Chawla | Director | 0145-2423446 | 9414291903 | stdcrj@tbcindia.nic.in; stdcrj@rntcp.org | Dr Tarun Patni | Microbiologist | +919461904433 | IRLRJAJM@rntcp.org; dr.tarunpatni@yahoo.com |
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| Uttarakhand | Dehradun | State TB Training & Demonstration Centre, Directorate of Medical, Health & Family Welfare, 107, Chandar Nagar, Dehradun Uttaranchal Dehradun248001 | 248 001 | Dr Rajan Arora | STDC Director | - | 919456513207 | stdcur@rntcp.org | Mr Prashant Choudhury | Microbiologist | 9012342359 | irlurddn@rntcp.org |
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| | | | | | | | | | Dr. Abdul Kaleem | | 9900177058 | |
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| Karnataka | ICELT Bangalore | ICELT, National Tuberculosis Institute Avalon No. 8, Bellary Road BANGALORE | 560 003 | Dr. V C Kishore Reddy | FIND Microbiologist | 080-23312106 | 9035022837 | Kishore.Reddy@finddx.org | | | | |

Section 6

STANDARD FORM OF CONTRACT

Consultants' Services

Lump-Sum

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CONTRACT FOR CONSULTANTS' SERVICES

between

[name of the Client]

and

[name of the Consultant]

Dated:

I. Form of Contract

(Text in brackets [] should be filled up appropriately; all notes should be deleted in final text)

This CONTRACT (hereinafter called the “Contract”) is made the [day] day of the month of [month], [year], between, on the one hand, [name of employer] (hereinafter called the “Employer”), of the First Part and, [name of Consultant] (hereinafter called the “Consultant”) of the Second Part.

[Note: If the Consultant consist of more than one entity, the above should be partially amended to read as follows: “...(hereinafter called the “Employer”) and, on the other hand, a joint venture/consortium/association consisting of the following entities, namely, lead consultant [name of lead Consultant] and [name of Consultant/s] (hereinafter called the “Consultant”).

WHEREAS

- (a) the Consultant, having represented to the “Employer” that he has the required professional skills, personnel and technical resources, has offered to provide in response to the Tender Notice dated ____ issued by the Employer ;
- (b) the “Employer” has accepted the offer of the Consultant to provide the services on the terms and conditions set forth in this Contract.
- (c) The “Employer” has been engaged by Foundation for Innovative New Diagnostics (FIND), India vide contract no. PA/GFATM/001/2013-14 dated 25.11.2013 for providing procurement consultancy services for equipment, goods, works and services for use in TB Laboratories across India under GFATM Project. The “Employer” accordingly had invited Proposals for providing Services under this Contract on behalf of FIND. The FIND has received a Grant from The Global Fund, Zeneva towards the cost of the Services and intends to apply a portion of the proceeds of this Grant to eligible payments under this Contract;

NOW, THEREFORE, IT IS HEREBY AGREED between the parties as follows:

1. The following documents attached hereto shall be deemed to form an integral part of this Contract:
 - (a) The General Conditions of Contract;
 - (b) The Special Conditions of Contract;
 - (c) The following Appendices:
 - Appendix A: Description of Services
 - Appendix B: Reporting Requirements
 - Appendix C: Staffing schedule
 - Appendix D: Cost Estimates
 - Appendix E: Duties of the “Employer”
 - Appendix F: Duties of the Consultant
2. The mutual rights and obligations of the “Employer” and the Consultant shall be as set forth in the Contract, in particular:

- (a) the Consultants shall carry out and complete the Services in accordance with the provisions of the Contract; and
- (b) the "Employer" shall make payments to the Consultant in accordance with the provisions of the Contract.

IN WITNESS WHEREOF, the Parties hereto have caused this Contract to be signed in their respective names as of the day and year first above written.

In presence of
(Witnesses)

Signed by -----
1. For and on behalf of the President of India[name of "Employer"]

(i) [Authorized Representative] (ii)

2. For and on behalf of [name of Consultant]

In presence of
(Witnesses)
(i)

(ii) [Authorized Representative]

[Note: If the Consultant consists of more than one entity, all these entities should appear as signatories, e.g., in the following manner:]

3. For and on behalf of each of the Members of the Consultant.

[name of member]
[Authorized Representative]

4. [name of member]
[Authorized Representative]

II. General Conditions of Contract

1. GENERAL PROVISIONS

1.1 **Definitions** Unless the context otherwise requires, the following terms whenever used in this Contract have the following meanings:

- (a) "Applicable Law" means the laws and any other instruments having the force of law in India for the time being.
- (b) "Consultant" means any private or public entity that will provide the Services to the "Employer" under the Contract.
- (c) "Contract" means the Contract signed by the Parties and all the attached documents listed in its Clause 1, that is this General Conditions (GC), the Special Conditions (SC), and the Appendices.
- (d) "Day" means calendar day.
- (e) "Effective Date" means the date on which this Contract comes into force and effect pursuant to Clause GC 2.1.
- (f) "Foreign Currency" means any currency other than the currency of the "Employer's" country.
- (g) "GC" means these General Conditions of Contract.
- (h) "Government" means the Government of India
- (i) "Local Currency" means Indian Rupees.
- (j) "Member" means any of the entities that make up the joint venture/consortium/association; and "Members" means all these entities.
- (k) "Party" means the "Employer" or the Consultant, as the case may be, and "Parties" means both of them.
- (l) "Personnel" means professionals and support staff provided by the Consultants or by any Sub-Consultants and assigned to perform the Services or any part thereof; "Foreign Personnel" means such professionals and support staff who at the time of being so provided had their domicile outside the Government's country; "Local Personnel" means such professionals and support staff who at the time of being so provided had their domicile inside the Government's country; and "Key Personnel" means the Personnel referred to in Clause GC 4.2(a).
- (m) "Reimbursable expenses" means all assignment-related costs [such as travel, translation, report printing, secretarial expenses, subject to specified maximum limits in the Contract]
- (n) "SC" means the Special Conditions of Contract by which the GC may be amended or supplemented
- (o) "Services" means the work to be performed by the Consultant pursuant to this Contract, as described in Appendix A hereto
- (p) "Sub-Consultants" means any person or entity to whom/which the Consultant subcontracts any part of the Services.
- (q) "Third Party" means any person or entity other than the "Employer", or the Consultant
- (r) "In writing" means communicated in written form with proof of receipt

1.2 Relationship Between the Parties

Nothing contained herein shall be construed as establishing a relationship of master and servant or of principal and agent as between the “Employer” and the Consultant. The Consultant, subject to this Contract, has complete charge of Personnel and Sub-Consultants, if any, performing the Services and shall be fully responsible for the Services performed by them or on their behalf hereunder.

1.3 **Law Governing Contract:** This Contract, its meaning and interpretation, and the relation between the Parties shall be governed by the applicable laws of India.

1.4 **Headings:** The headings shall not limit, alter or affect the meaning of this Contract.

1.5 Notices

1.5.1 Any notice, request or consent required or permitted to be given or made pursuant to this Contract shall be in writing. Any such notice, request or consent shall be deemed to have been given or made when delivered in person to an authorized representative of the Party to whom the communication is addressed, or when sent by registered post to such Party at the address specified in the SC.

1.5.2 A Party may change its address for notice hereunder by giving the other Party notice in writing of such change to the address specified in the SC.

1.6 **Location:** The Services shall be performed at such locations as are specified in **Appendix A hereto** and, where the location of a particular task is not so specified, at such locations, as the “Employer” may approve.

1.7 **Authority of Lead Partner:** In case the Consultant consists of a joint venture/consortium/association of more than one entity, the Members hereby authorize the entity specified (Lead Consultant) in the SC to act on their behalf in exercising all the Consultant’s rights and obligations towards the “Employer” under this Contract, including without limitation the receiving of instructions and payments from the “Employer”. However, each member or constituent of Consortium of Consultant shall be jointly and severally liable for all obligations of the Consultant under the Contract.

1.8 **Authorized Representatives:** Any action required or permitted to be taken, and any document required or permitted to be executed under this Contract by the “Employer” or the Consultant may be taken or executed by the officials specified in the SC.

1.9 **Taxes and Duties:** The Consultant, Sub-Consultants and Personnel shall be liable to pay such direct and indirect taxes, duties, fees and other impositions levied under the applicable laws of India.

1.10 Fraud and Corruption

1.10.1 **Definitions:** It is the Employer’s policy to require that Employers as well as Consultants observe the highest standard of ethics during the execution of the Contract. In

pursuance of this policy, the Employer defines, for the purpose of this provision, the terms set forth below as follows:

- (i) "corrupt practice" means the offering, receiving, or soliciting, directly or indirectly, of any thing of value to influence the action of a public official in the selection process or in contract execution;
- (ii) "fraudulent practice" means a misrepresentation or omission of facts in order to influence a selection process or the execution of a contract;
- (iii) "collusive practices" means a scheme or arrangement between two or more consultants, with or without the knowledge of the Employer, designed to establish prices at artificial, noncompetitive levels;
- (iv) "coercive practices" means harming or threatening to harm, directly or indirectly, persons or their property to influence their participation in a procurement process, or affect the execution of a contract;

1.10.2 Measures to be taken by the Employer

- (a) The Employer may terminate the contract if it determines at any time that representatives of the consultant were engaged in corrupt, fraudulent, collusive or coercive practices during the selection process or the execution of that contract, without the consultant having taken timely and appropriate action satisfactory to the Employer to remedy the situation.
- (b) The Employer may also sanction against the Consultant, including declaring the Consultant ineligible, either indefinitely or for a stated period of time, to be awarded a contract if it at any time determines that the Consultant has, directly or through an agent, engaged in corrupt, fraudulent, collusive or coercive practices in competing for, or in executing, a Employer-financed contract;

1.10.3 Commissions and Fees

At the time of execution of this Contract, the Consultants shall disclose any commissions or fees that may have been paid or are agreed to be paid to agents, representatives, or commission agents with respect to the selection process or execution of the contract. The information disclosed must include at least the name and address of the agent, representative, or commission agent, the amount and currency, and the purpose of the commission or fee.

2. COMMENCEMENT, COMPLETION, MODIFICATION AND TERMINATION OF CONTRACT

- 2.1 **Effectiveness of Contract:** This Contract shall come into force and effect on the date (the "Effective Date") of the "Employer"'s notice to the Consultant instructing the Consultant to begin carrying out the Services. This notice shall confirm that the conditions precedent and effectiveness conditions, if any, listed in the SC have been met.
- 2.2 **Termination of Contract for Failure to Become Effective:** If this Contract has not become effective within such time period after the date of the Contract signed by the Parties as specified in the SC, either Party may, by not less than twenty one (21) days written notice to the other Party, declare this Contract to be null and void, and in the event of such a declaration by either Party, neither Party shall have any claim against the other Party with respect hereto.

- 2.3 **Commencement of Services:** The Consultant shall begin carrying out the Services not later than the number of days after the Effective Date specified in the SC.
- 2.4 **Expiration of Contract:** Unless terminated earlier pursuant to Clause GC 2.9 hereof, this Contract shall expire at the end of such time period after the Effective Date as specified in the SC.
- 2.5 **Entire Agreement:** This Contract contains all covenants, stipulations and provisions agreed by the Parties. No agent or representative of either Party has authority to make, and the Parties shall not be bound by or be liable for, any other statement, representation, promise or agreement not set forth herein.
- 2.6 **Modifications or Variations:**
- (a) Any modification or variation of the terms and conditions of this Contract, including any modification or variation of the scope of the Services, may only be made by written agreement between the Parties. Pursuant to Clause GC 7.2 here of, however, each Party shall give due consideration to any proposals for modification or variation made by the other Party.
 - (b) In cases of substantial modifications or variations, the prior written consent of the Employer is required.
- 2.7 **Force Majeure**
- 2.7.1 **Definition**
- (a) For the purposes of this Contract, "Force Majeure" means an event which is beyond the reasonable control of a Party, is not foreseeable, is unavoidable and not brought about by or at the instance of the Party claiming to be affected by such events and which has caused the non-performance or delay in performance, and which makes a Party's performance of its obligations hereunder impossible or so impractical as reasonably to be considered impossible in the circumstances, and includes, but is not limited to, war, riots, civil disorder, earthquake, fire, explosion, storm, flood or other extreme adverse weather conditions, strikes, lockouts or other industrial action (except where such strikes, lockouts or other industrial action are within the power of the Party invoking Force Majeure to prevent), confiscation or any other action by Government agencies.
 - (b) Force Majeure shall not include (i) any event which is caused by the negligence or intentional action of a Party or by or of such Party's Sub-Consultants or agents or employees, nor (ii) any event which a diligent Party could reasonably have been expected both to take into account at the time of the conclusion of this Contract, and avoid or overcome in the carrying out of its obligations hereunder.
 - (c) Subject to clause 2.7.2, Force Majeure shall not include insufficiency of funds or inability to make any payment required hereunder.
- 2.7.2 **No Breach of Contract:** The failure of a Party to fulfill any of its obligations hereunder shall not be considered to be a breach of, or default under, this Contract insofar as such inability arises from an event of Force Majeure, provided that the Party affected by such an event has taken all reasonable precautions, due care and reasonable alternative measures, all with the objective of carrying out the terms and conditions of this Contract.

2.7.3 Measures to be Taken:

- (a) A Party affected by an event of Force Majeure shall continue to perform its obligations under the Contract as far as is reasonably practical, and shall take all reasonable measures to minimize the consequences of any event of Force Majeure.
- (b) A Party affected by an event of Force Majeure shall notify the other Party of such event as soon as possible, and in any case not later than fourteen (14) days following the occurrence of such event, providing evidence of the nature and cause of such event, and shall similarly give written notice of the restoration of normal conditions as soon as possible.
- (c) Any period within which a Party shall, pursuant to this Contract, complete any action or task, shall be extended for a period equal to the time during which such Party was unable to perform such action as a result of Force Majeure.
- (d) During the period of their inability to perform the Services as a result of an event of Force Majeure, the Consultant, upon instructions by the "Employer", shall either:
 - (i) demobilize,; or
 - (ii) continue with the Services to the extent possible, in which case the Consultant shall continue to be paid proportionately and on prorata basis, under the terms of this Contract.
- (e) In the case of disagreement between the Parties as to the existence or extent of Force Majeure, the matter shall be settled according to Clause GC 8.

2.8 **Suspension:** The "Employer" may, by written notice of suspension to the Consultant, suspend all payments to the Consultant hereunder if the Consultant fails to perform any of its obligations under this Contract, including the carrying out of the Services, provided that such notice of suspension (i) shall specify the nature of the failure, and (ii) shall allow the Consultant to remedy such failure, if capable of being remedied, within a period not exceeding thirty (30) days after receipt by the Consultant of such notice of suspension.

2.9 Termination

2.9.1.1 **By the "Employer":**The "Employer" may terminate this Contract in case of the occurrence of any of the events specified in paragraphs (a) through (h) of this Clause GC 2.9.1.1.

- (a) If the Consultant fails to remedy a failure in the performance of its obligations hereunder, as specified in a notice of suspension pursuant to Clause GC 2.8 hereinabove, within thirty (30) days of receipt of such notice of suspension or within such further period as the "Employer" may have subsequently approved in writing.
- (b) If the Consultant becomes (or, if the Consultant consists of more than one entity, if any of its Members becomes and which has substantial bearing on providing Services under this contract) insolvent or go into liquidation or receivership whether compulsory or voluntary.
- (c) If the Consultant fails to comply with any final decision reached as a result of arbitration proceedings pursuant to Clause GC 8 hereof.
- (d) If the Consultant, in the judgment of the "Employer", has engaged in corrupt or fraudulent practices in competing for or in executing this Contract.

If the Consultant submits to the “Employer” a false statement which has a material effect on the rights, obligations or interests of the “Employer”.

- (e) If the Consultant places itself in position of conflict of interest or fails to disclose promptly any conflict of interest to the Employer.
- (f) If the consultant fails to provide the quality services as envisaged under this Contract. The Consultancy Monitoring Committee (CMC) formulated to monitor the progress of the assignment may make judgment regarding the poor quality of services, the reasons for which shall be recorded in writing. The CMC may decide to give one chance to the consultant to improve the quality of the services.
- (g) If, as the result of Force Majeure, the Consultant is unable to perform a material portion of the Services for a period of not less than sixty (60) days.
- (h) If the “Employer”, in its sole discretion and for any reason whatsoever, decides to terminate this Contract.

2.9.1.2 In such an occurrence the “Employer” shall give a not less than thirty (30) days’ written notice of termination to the Consultants, and sixty (60) days’ in case of the event referred to in (h).

2.9.2 **By the Consultant:** The Consultant may terminate this Contract, by not less than thirty (30) days’ written notice to the “Employer”, in case of the occurrence of any of the events specified in paragraphs (a) through (d) of this Clause GC 2.9.2.

- (a) If the “Employer” fails to pay any money due to the Consultant pursuant to this Contract and not subject to dispute pursuant to Clause GC 8 hereof within forty-five (45) days after receiving written notice from the Consultant that such payment is overdue.
- (b) If, as the result of Force Majeure, the Consultant is unable to perform a material portion of the Services for a period of not less than sixty (60) days.
- (c) If the “Employer” fails to comply with any final decision reached as a result of arbitration pursuant to Clause GC 8 hereof.
- (d) If the “Employer” is in material breach of its obligations pursuant to this Contract and has not remedied the same within forty-five (45) days (or such longer period as the Consultant may have subsequently approved in writing) following the receipt by the “Employer” of the Consultant’s notice specifying such breach.

2.9.3 **Cessation of Rights and Obligations:** Upon termination of this Contract pursuant to Clauses GC 2.2 or GC 2.9 hereof, or upon expiration of this Contract pursuant to Clause GC 2.4 hereof, all rights and obligations of the Parties hereunder shall cease, except (i) such rights and obligations as may have accrued on the date of termination or expiration, (ii) the obligation of confidentiality set forth in Clause GC 3.3 hereof, (iii) the Consultant’s obligation to permit inspection, copying and auditing of their accounts and records set forth in Clause GC 3.6 hereof, and (iv) any right which a Party may have under the Law.

2.9.4 **Cessation of Services:** Upon termination of this Contract by notice of either Party to the other pursuant to Clauses GC 2.9.1 or GC 2.9.2 hereof, the Consultant shall, immediately upon dispatch or receipt of such notice, take all necessary steps to bring the Services to a close in a prompt and orderly manner and shall make every reasonable effort to keep expenditures for this purpose to a minimum. With respect to documents prepared by the

Consultant and equipment and materials furnished by the “Employer”, the Consultant shall proceed as provided, respectively, by Clauses GC 3.9 or GC 3.10 hereof.

2.9.5 Payment upon Termination: Upon termination of this Contract pursuant to Clauses GC 2.9.1 or GC 2.9.2 hereof, the “Employer” shall make the following payments to the Consultant:

- (a) If the Contract is terminated pursuant to Clause 2.9.1 (g), (h) or 2.9.2, remuneration pursuant to Clause GC 6.3(h) (i) hereof for Services satisfactorily performed prior to the effective date of termination, and reimbursable expenditures pursuant to Clause GC 6.3(h)(ii) hereof for expenditures actually and reasonably incurred prior to the effective date of termination;
- (b) If the agreement is terminated pursuant of Clause 2.9.1 (a) to (f), the consultant shall not be entitled to receive any agreed payments upon termination of the contract. However, the “Employer” may consider to make payment for the part satisfactorily performed on the basis of Quantum Merit as assessed by it, if such part is of economic utility to the Employer. Applicable Under such circumstances, upon termination, the client may also impose liquidated damages as per the provisions of Clause 9 of this agreement. The consultant will be required to pay any such liquidated damages to client within 30 days of termination date.

2.9.6 Disputes about Events of Termination: If either Party disputes whether an event specified in paragraphs (a) through (g) of Clause GC 2.9.1 or in Clause GC 2.9.2 hereof has occurred, such Party may, within forty-five (45) days after receipt of notice of termination from the other Party, refer the matter to Clause GC 8 hereof, and this Contract shall not be terminated on account of such event except in accordance with the terms of any resulting arbitral award.

3. OBLIGATIONS OF THE CONSULTANT

3.1 General

3.1.1 Standard of Performance: The Consultant shall perform the Services and carry out their obligations hereunder with all due diligence, efficiency and economy, in accordance with generally accepted professional standards and practices, and shall observe sound management practices, and employ appropriate technology and safe and effective equipment, machinery, materials and methods. The Consultant shall always act, in respect of any matter relating to this Contract or to the Services, as faithful adviser to the “Employer”, and shall at all times support and safeguard the “Employer”’s legitimate interests in any dealings with Sub-Consultants or Third Parties.

3.2 Conflict of Interests: The Consultant shall hold the “Employer”’s interests paramount, without any consideration for future work, and strictly avoid conflict of interest with other assignments or their own corporate interests. If during the period of this contract, a conflict of interest arises for any reasons, the Consultant shall promptly disclose the same to the Employer and seek its instructions.

2.2.1 Consultant not to benefit from Commissions, Discounts, etc.:

- (a) The payment of the Consultant pursuant to Clause GC 6 hereof shall constitute the Consultant’s only payment in connection with this Contract and, subject to Clause GC 3.2.2

hereof, the Consultant shall not accept for its own benefit any trade commission, discount or similar payment in connection with activities pursuant to this Contract or in the discharge of its obligations hereunder, and the Consultant shall use its best efforts to ensure that any Sub-Consultants, as well as the Personnel and agents of either of them, similarly shall not receive any such additional payment.

- (b) Furthermore, if the Consultant, as part of the Services, has the responsibility of advising the “Employer” on the procurement of goods, works or services, the Consultant shall comply with the Employer’s applicable procurement guidelines, and shall at all times exercise such responsibility in the best interest of the “Employer”. Any discounts or commissions obtained by the Consultant in the exercise of such procurement responsibility shall be for the account of the “Employer”.

3.2.2 **Consultant and Affiliates Not to Engage in Certain Activities:** The Consultant agrees that, during the term of this Contract and after its termination, the Consultant and any entity affiliated with the Consultant, as well as any Sub-Consultants and any entity affiliated with such Sub-Consultants, shall be disqualified from providing goods, works or services (other than consulting services) resulting from or directly related to the Consultant’s Services for the preparation or implementation of the project.

3.2.3 **Prohibition of Conflicting Activities:** The Consultant shall not engage, and shall cause their Personnel as well as their Sub-Consultants and their Personnel not to engage, either directly or indirectly, in any business or professional activities that would conflict with the activities assigned to them under this Contract.

3.3 **Confidentiality:** Except with the prior written consent of the “Employer”, the Consultant and the Personnel shall not at any time communicate to any person or entity any confidential information acquired in the course of the Services, nor shall the Consultant and its Personnel make public the recommendations formulated in the course of, or as a result of, the Services.

3.4 **Insurance to be Taken out by the Consultant:** The Consultant (i) shall take out and maintain, and shall cause any Sub-Consultants to take out and maintain insurance, at their (or the Sub-Consultants’, as the case may be) own cost but **on terms and conditions approved by the “Employer”**, insurance against the risks, and for the coverages specified in the SC, and (ii) at the “Employer”’s request, shall provide evidence to the “Employer” showing that such insurance has been taken out and maintained and that the current premiums therefore have been paid.

3.5 **Accounting, Inspection and Auditing:** The Consultant (i) shall keep accurate and systematic accounts and records in respect of the Services hereunder, in accordance with internationally accepted accounting principles and in such form and detail as will clearly identify all relevant time changes and costs, and the bases thereof, and (ii) shall periodically permit the “Employer” or its designated representative and/or the Employer, and up to five years from expiration or termination of this Contract, to inspect the same and make copies thereof as well as to have them audited by auditors appointed by the “Employer” or the Employer, if so required by the “Employer” or the Employer as the case may be.

- 3.6 **Consultant's Actions Requiring "Employer"'s Prior Approval:** The Consultant shall obtain the "Employer"'s prior approval in writing before taking any of the following actions:
- (a) Any change or addition to the Personnel listed in Appendix C.
 - (b) Subcontracts: the Consultant may subcontract work relating to the Services to an extent and with such experts and entities as may be approved in advance by the "Employer". Notwithstanding such approval, the Consultant shall always retain full responsibility for the Services. In the event that any Sub-Consultants are found by the "Employer" to be incompetent or incapable or undesirable in discharging assigned duties, the "Employer" may request the Consultant to provide a replacement, with qualifications and experience acceptable to the "Employer", or to resume the performance of the Services itself.
- 3.7 **Reporting Obligations:** The Consultant shall submit to the "Employer" the reports and documents specified in Appendix B hereto, in the form, in the numbers and within the time periods set forth in the said Appendix. Final reports shall be delivered in CD ROM in addition to the hard copies specified in said Appendix.
- 3.8 **Documents Prepared by the Consultant to be the Property of the "Employer":** All plans, drawings, specifications, designs, reports, other documents and software prepared by the Consultant for the "Employer" under this Contract shall become and remain the property of the "Employer", and the Consultant shall, not later than upon termination or expiration of this Contract, deliver all such documents to the "Employer", together with a detailed inventory thereof. The Consultant may retain a copy of such documents, but shall not use anywhere, without taking permission, in writing, from the Employer and the Employer reserves right to grant or deny any such request. If license agreements are necessary or appropriate between the Consultant and third parties for purposes of development of any such computer programs, the Consultant shall obtain the "Employer"'s prior written approval to such agreements, and the "Employer" shall be entitled at its discretion to require recovering the expenses related to the development of the program(s) concerned.
- 3.9 **Equipment, Vehicles and Materials Furnished by the "Employer":** Equipment, vehicles and materials made available to the Consultant by the "Employer", or purchased by the Consultant wholly or partly with funds provided by the "Employer", shall be the property of the "Employer" and shall be marked accordingly. Upon termination or expiration of this Contract, the Consultant shall make available to the "Employer" an inventory of such equipment, vehicles and materials and shall dispose of such equipment and materials in accordance with the "Employer"'s instructions. While in possession of such equipment, vehicles and materials, the Consultant, unless otherwise instructed by the "Employer" in writing, shall insure them at the expense of the "Employer" in an amount equal to their full replacement value.

Equipment and Materials Provided by the Consultants: Equipment or materials brought into the Government's country by the Consultant and the Personnel and used either for the Project or personal use shall remain the property of the Consultant or the Personnel concerned, as applicable.

4. CONSULTANTS' PERSONNEL AND SUB-CONSULTANTS

- 4.1 **General:** The Consultant shall employ and provide such qualified and experienced Personnel and Sub-Consultants as are required to carry out the Services.
- 4.2 **Description of Personnel:**
- (a) The title, agreed job description, minimum qualification and estimated period of engagement in the carrying out of the Services of each of the Consultant's Key Personnel are as per the consultant's proposal and are described in Appendix C. If any of the Key Personnel has already been approved by the "Employer", his/her name is listed as well.
 - (b) If required to comply with the provisions of Clause GC 3.1.1 hereof, adjustments with respect to the estimated periods of engagement of Key Personnel set forth in Appendix C may be made by the Consultant by written notice to the "Employer", provided (i) that such adjustments shall not alter the originally estimated period of engagement of any individual by more than 10% or one week, whichever is larger, and (ii) that the aggregate of such adjustments shall not cause payments under this Contract to exceed the ceilings set forth in Clause GC 6.1(b) of this Contract. Any other such adjustments shall only be made with the "Employer"'s written approval.
 - (c) If additional work is required beyond the scope of the Services specified in Appendix A, the estimated periods of engagement of Key Personnel set forth in Appendix C may be increased by agreement in writing between the "Employer" and the Consultant. In case where payments under this Contract exceed the ceilings set forth in Clause GC 6.1(b) of this Contract, this will be explicitly mentioned in the agreement.
- 4.3 **Approval of Personnel:** The Key Personnel and Sub-Consultants listed by title as well as by name in Appendix C are hereby approved by the "Employer". In respect of other Personnel which the Consultant proposes to use in the carrying out of the Services, the Consultant shall submit to the "Employer" for review and approval a copy of their Curricula Vitae (CVs). If the "Employer" does not object in writing (stating the reasons for the objection) within twenty-one (21) days from the date of receipt of such CVs, such Personnel shall be deemed to have been approved by the "Employer".
- 4.4 **Removal and/or Replacement of Personnel:**
- (a) Except as the "Employer" may otherwise agree, no changes shall be made in the Personnel. If, for any reason beyond the reasonable control of the Consultant, such as retirement, death, medical incapacity, among others, it becomes necessary to replace any of the Personnel, the Consultant shall forthwith provide as a replacement a person of equivalent or better qualifications.
 - (b) If the "Employer" (i) finds that any of the Personnel has committed serious misconduct or has been charged with having committed a criminal action, or (ii) has reasonable cause to be dissatisfied with the performance of any of the Personnel, then the Consultant shall, at the "Employer"'s written request specifying the grounds therefore, forthwith provide as a replacement a person with qualifications and experience acceptable to the "Employer".
 - (c) Any of the Personnel provided as a replacement under Clauses (a) and (b) above, as well as any reimbursable expenditures (including expenditures due to the number of eligible dependents) the Consultants may wish to claim as a result of such replacement, shall be subject to the prior written approval by the "Employer". The rate of remuneration

applicable to a replacement person will be the rate of remuneration paid to the replacement person. Also (i) the Consultant shall bear all additional travel and other costs arising out of or incidental to any removal and/or replacement, and (ii) the remuneration to be paid for any of the Personnel provided as a replacement shall not exceed the remuneration which would have been payable to the Personnel replaced.

- 4.5 **Resident Project Manager** : If required by the SC, the Consultant shall ensure that at all times during the Consultant's performance of the Services a resident project manager, acceptable to the "Employer", shall take charge of the performance of such Services.

5. OBLIGATIONS OF THE "EMPLOYER"

- 5.1 **Assistance and Exemptions** : Unless otherwise specified in the SC, the "Employer" shall use its best efforts to ensure that the Government shall:
- (a) Provide the Consultant, Sub-Consultants and Personnel with work permits and such other documents as shall be necessary to enable the Consultant, Sub-Consultants or Personnel to perform the Services.
 - (b) Arrange for the Foreign Personnel to be provided promptly with all necessary entry and exit visas, residence permits, exchange permits and any other documents required for their stay in India.
 - (c) Issue to officials, agents and representatives of the Government all such instructions as may be necessary or appropriate for the prompt and effective implementation of the Services.
 - (d) Provide to the Consultant, Sub-Consultants and Personnel any such other assistance as may be specified in the SC.
- 5.2 **Change in the Applicable Law Related to Taxes and Duties**: If, after the date of this Contract, there is any change in the Applicable Laws of India with respect to taxes and duties, which are directly payable by the consultant for providing the services i.e. service tax or any such applicable tax from time to time, which increases or decreases the cost incurred by the Consultant in performing the Services, then the remuneration and reimbursable expenses otherwise payable to the Consultant under this Contract shall be increased or decreased accordingly by agreement between the Parties hereto, and corresponding adjustments shall be made to the ceiling amounts specified in Clause GC 6.1(b).
- 5.3 **Services, Facilities and Property of the "Employer"**:
- (a) The "Employer" shall make available to the Consultant and its Personnel, for the purposes of the Services and **free of any charge**, the services, facilities and property described in Appendix E at the times and in the manner specified in said **Appendix E**.
 - (b) In case that such services, facilities and property shall not be made available to the Consultant as and when specified in Appendix E, the Parties shall agree on any time extension that it may be appropriate to grant to the Consultant for the performance of the Services .

5.4 **Payment:** In consideration of the Services performed by the Consultant under this Contract, the “Employer” shall make to the Consultant such payments and in such manner as is provided by Clause GC 6 of this Contract.

5.5 **Counterpart Personnel:**

- (a) If necessary, the “Employer” shall make available to the Consultant free of charge such professional and support counterpart personnel, to be nominated by the “Employer” with the Consultant’s advice, if specified in Appendix E.
- (b) Professional and support counterpart personnel, excluding “Employer”’s liaison personnel, shall work under the exclusive direction of the Consultant. If any member of the counterpart personnel fails to perform adequately any work assigned to such member by the Consultant that is consistent with the position occupied by such member, the Consultant may request the replacement of such member, and the “Employer” shall not unreasonably refuse to act upon such request.

6. **PAYMENTS TO THE CONSULTANT**

6.1 **Total Cost of the Services**

- (a) The total cost of the Services payable is set forth in Appendix D as per the consultant’s proposal to the Employer and as negotiated thereafter.
- (b) Except as may be otherwise agreed under Clause GC 2.6 and subject to Clause GC 6.1(c), payments under this Contract shall not exceed the amount specified in Appendix-D.
- (c) Notwithstanding Clause GC 6.1(b) hereof, if pursuant to any of the Clauses GC 4.2 (c) or 5.2 hereof, the Parties shall agree that additional payments shall be made to the Consultant in order to cover any necessary additional expenditures not envisaged in the cost estimates referred to in Clause GC 6.1(a) above, the ceiling or ceilings, as the case may be, set forth in Clause GC 6.1(b) above shall be increased by the amount or amounts, as the case may be, of any such additional payments.

6.2 **Currency of Payment:** All payments shall be made in Indian Rupees.[In case the payment is to be made in the currency other than Indian Rupees, the same shall be mentioned in stead of Indian Rupees]

6.3 **Terms of Payment :** The payments in respect of the Services shall be made as follows:

- (a) The consultant shall submit the invoice for payment when the payment is due as per the agreed terms. The payment shall be released as per the work related milestones achieved and as per the specified percentage as per SC 13.
- (b) Once a milestone is completed, the consultant shall submit the requisite deliverables as specified in this Contract. The Employer shall release the requisite payment upon acceptance of the deliverables. However, if the Employer fails to intimate acceptance of the deliverables or its objections thereto, within 30 days of receipt of it, the Employer shall release the payment to the consultant without further delay.
- (c) Final Payment : The final payment as specified in SC 13 shall be made only after the final report and a final statement, identified as such, shall have been submitted by the Consultant and approved as satisfactory by the “Employer”. The Services shall be deemed completed

and finally accepted by the "Employer" and the final report and final statement shall be deemed approved by the "Employer" as satisfactory ninety (90) calendar days after receipt of the final report and final statement by the "Employer" unless the "Employer", within such ninety (90) day period, gives written notice to the Consultant specifying in detail deficiencies in the Services, the final report or

final statement. The Consultant shall thereupon promptly make any necessary corrections, and thereafter the foregoing process shall be repeated. Any amount, which the "Employer" has paid or caused to be paid in accordance with this Clause in excess of the amounts actually payable in accordance with the provisions of this Contract, shall be reimbursed by the Consultant to the "Employer" within thirty (30) days after receipt by the Consultant of notice thereof. Any such claim by the "Employer" for reimbursement must be made within twelve (12) calendar months after receipt by the "Employer" of a final report and a final statement approved by the "Employer" in accordance with the above.

- (d) For the purpose of payment under Clause 6.3 (b) above, acceptance means; acceptance of the deliverables by the Employer after submission by the consultant and the consultant has made presentation to the CMC / Employer (Mention this if presentation is required) with / without modifications to be communicated in writing by the Employer to the consultant.
- (e) If the deliverables submitted by the consultant are not acceptable to the Employer / CMC, reasons for such non-acceptance should be recorded in writing; the Employer shall not release the payment due to the consultant. This is without prejudicing the Employer's right to levy any liquidated damages under clause 9. In such case, the payment will be released to the consultant only after it re-submits the deliverable and which is accepted by the Employer.
- (f) All payments under this Contract shall be made to the accounts of the Consultant specified in the SC.
- (g) With the exception of the final payment under (c) above, payments do not constitute acceptance of the Services nor relieve the Consultant of any obligations hereunder, unless the acceptance has been communicated by the Employer to the consultant in writing and the consultant has made necessary changes as per the comments / suggestions of the Employer communicated to the Consultant.
- (h) In case of early termination of the contract, the payment shall be made to the consultant as mentioned here with: (i) Assessment should be made about work done from the previous milestone, for which the payment is made or to be made till the date of the termination. The consultant shall provide the details of persons reasonably worked during this period with supporting documents. Based on such details, the remuneration shall be calculated based on the man month rate as specified. (ii) A reasonable assessment of the reimbursable and miscellaneous expenses shall be made based on details furnished by the consultant in this regard with supporting documents and based on the assessment of the work done and the respective rates as provided. Wherever such an assessment is difficult, the rates should be arrived at by calculating the amount on pro-rata basis. The total amount payable shall be the amount calculated as per (i) and (ii) above plus any applicable tax.

7. FAIRNESS AND GOOD FAITH

- 7.1 **Good Faith:** The Parties undertake to act in good faith with respect to each other's rights under this Contract and to adopt all reasonable measures to ensure the realization of the objectives of this Contract.

- 7.2 **Operation of the Contract:** The Parties recognize that it is impractical in this Contract to provide for every contingency which may arise during the life of the Contract, and the Parties hereby agree that it is their intention that this Contract shall operate fairly as between them, and without detriment to the interest of either of them, and that, if during the term of this Contract either Party believes that this Contract is operating unfairly, the Parties will use their best efforts to agree on such action as may be necessary to remove the cause or causes of such unfairness, but no failure to agree on any action pursuant to this Clause shall give rise to a dispute subject to arbitration in accordance with Clause GC 8 hereof.

8. SETTLEMENT OF DISPUTES

- 8.1 **Amicable Settlement:** Performance of the contract is governed by the terms & conditions of the contract, in case of dispute arises between the parties regarding any matter under the contract, either Party of the contract may send a written Notice of Dispute to the other party. The Party receiving the Notice of Dispute will consider the Notice and respond to it in writing within 30 days after receipt. If that party fails to respond within 30 days, or the dispute cannot be amicably settled within 60 days following the response of that party, clause GC 8.2 shall become applicable.
- 8.2 **Arbitration:** In the case of dispute arising upon or in relation to or in connection with the contract between the Employer and the Consultant, which has not been settled amicably, any party can refer the dispute for Arbitration under (Indian) Arbitration and Conciliation Act, 1996. Such disputes shall be referred to an Arbitral Tribunal consisting of 3 (three) arbitrators, one each to be appointed by the Employer and the Consultant, the third arbitrator shall be chosen by the two arbitrators so appointed by the parties and shall act as Presiding Arbitrator. In case of failure of the two arbitrators, appointed by the parties to reach a consensus regarding the appointment of the third arbitrator within a period of 30 days from the date of appointment of the two arbitrators, the Presiding arbitrator shall be appointed by the Secretary of the Ministry / Department. The Arbitration and Conciliation Act, 1996 and any statutory modification or re-enactment thereof, shall apply to these arbitration proceedings.
- 8.3. Arbitration proceedings shall be held in India at the place indicated in SC and the language of the arbitration proceedings and that of all documents and communications between the parties shall be English.
- 8.4 The decision of the majority of arbitrators shall be final and binding upon both parties. The expenses of the arbitrators as determined by the arbitrators shall be shared equally by the Employer and the Consultant. However, the expenses incurred by each party in connection with the preparation, presentation shall be borne by the party itself. All arbitration awards shall be in writing and shall state the reasons for the award.

9. Liquidated Damages

- 9.1 The parties hereby agree that due to negligence of act of any party, if the other party suffers losses, damages the quantification of which may be difficult, and hence the amount specified hereunder shall be construed as reasonable estimate of the damages and both the parties

agree to pay such liquidated damages, as defined hereunder as per the provisions of this Contract.

9.2 The amount of liquidated damages under this Contract shall not exceed **[10]** % of the total value of the contract as specified in Appendix D.

9.3 **The liquidated damages shall be applicable under following circumstances:**

- (a) If the deliverables (**rectification of breakdown calls and PM services**) are not completed as per schedule as specified in SC 13, the Consultant shall be liable to pay **2% of the total cost of the services for each laboratory** for delay of each week or part thereof.
- (b) If the deliverables are not acceptable to the Employer as mentioned in Clause 6.3 (e), and defects are not rectified to the satisfaction of the Employer within 15 days of the receipt of the notice, the Consultant shall be liable for Liquidated Damages for an amount equal to **1% of total cost of the services for each laboratory** for every week or part thereof for the delay.

10. Miscellaneous provisions:

- i. "Nothing contained in this Contract shall be construed as establishing or creating between the Parties, a relationship of master and servant or principal and agent.
- ii. Any failure or delay on the part of any Party to exercise right or power under this Contract shall not operate as waiver thereof.
- iii. The Contractor/Consultant shall notify the Employer/ the Government of India of any material change in their status, in particular, where such change would impact on performance of obligations under this Contract.
- iv. Each member/constituent of the Contractor/Consultant, in case of a consortium, shall be jointly and severally liable to and responsible for all obligations towards the Employer/Government for performance of works/services including that of its Associates/Sub Contractors under the Contract.
- v. The Contractor/Consultant shall at all times indemnify and keep indemnified the Employer/Government of India against all claims/damages etc. for any infringement of any Intellectual Property Rights (IPR) while providing its services under the Project.
- vi. The Contractor/Consultant shall at all times indemnify and keep indemnified the Employer/Government of India against any claims in respect of any damages or compensation payable in consequences of any accident or injury sustained or suffered by its (the Contractor's/Consultant's) employees or agents or by any other third Party resulting from or by any action, omission or operation conducted by or on behalf of the Contractor/Consultant.
- vii. The Contractor/ Consultant shall at all times indemnify and keep indemnified the Employer/Government of India against any and all claims by Employees, Workman, Contractors, sub-contractors, suppliers, agent(s), employed engaged or otherwise working for the Contractor, in respect of wages, salaries, remuneration, compensation or the like.
- viii. All claims regarding indemnity shall survive the termination or expiry of the Contract.
- ix. It is acknowledged and agreed by all Parties that there is no representation of any type, implied or otherwise, of any absorption, regularization, continued engagement or concession or preference for employment of persons engaged by the (Contractor/Consultant) for any engagement, service or employment in any capacity in any office or establishment of the Government of India or the Employer.

III. Special Conditions of Contract:

| SC Clause | Ref. of GC Clause | Amendments of, and Supplements to, Clauses in the General Conditions of Contract |
|-----------|-------------------|--|
| 1. | 1.5 | <p>The addresses are:</p> <p>1. Employer: Strategic Alliance Management Services Pvt. Ltd. (SAMS) B01-B03, Vardhman Diamond Plaza, Community Centre, D. B. Gupta Road, Paharganj, New Delhi - 110055</p> <p>Attention :Mr. Sanjay Rastogi, Director (MCS), Phone: +91-11-43580626-27 E-mail: procurement@samsconsult.com</p> <p>2. Consultant : _____ _____ Attention : _____ Facsimile : _____ E-mail : _____</p> |
| 2. | 1.7 | <p>{Lead Partner is [insert name of member]}</p> <p>Note: If the Consultant consists of a joint venture/ consortium/ association of more than one entity, the name of the entity whose address is specified in Clause SC 1.6 should be inserted here. If the Consultant consists only of one entity, this Clause SC 1.8 should be deleted from the SC.</p> |
| 3. | 1.8 | <p>The Authorized Representatives are:</p> <p>For the “Employer”: Mr. Sanjay Rastogi - Director (MCS)</p> <p>For the Consultant:</p> |
| 4. | 2.1 | -Deleted- |
| 5. | 2.2 | <p>Termination of Contract for Failure to Become Effective after signing of Contract by both parties:</p> <p>The time period shall be one month.</p> |
| 6. | 2.3 | <p>Commencement of Services:</p> <p>The number of days shall be within 15 days of date of signing of Contract by both parties</p> <p>Confirmation of Key Experts’ availability to start the Assignment shall be submitted to the Employer in writing as a written statement signed by each Key Expert.</p> |
| 7. | 2.4 | <p>Expiration of Contract: The time period of the assignment/contract will be for one year initially which may be extended annually upto three years</p> |

| | | or as per the project needs based on satisfactory performance of the agency. | | | | | | | | |
|---------|---|---|---|--------------------------|----------------------------|---|----|---|---|------------|
| 8. | 3.4 | -Deleted- | | | | | | | | |
| 9. | 3.4 | Consultant will be responsible for taking out any appropriate Insurance Coverage of all staff deployed under this contract. "Employer" does not have any obligations on this account. | | | | | | | | |
| 10. | 4.5 | {The person designated as resident project manager in Appendix C shall serve in that capacity, as specified in Clause GC 4.6.} | | | | | | | | |
| 11. | 5.1 | -Deleted- | | | | | | | | |
| 12. | 6.1(b) | -Deleted- | | | | | | | | |
| 13. | 6.3 | <p><u>Terms of Payment</u></p> <p>Lump Sum Contract Cost is divided against two major deliverables under AMC Contract i.e. Preventive Maintenance- 40% of Contract Cost and other AMC/repair Services-60% of Contract cost.</p> <p>Payment Schedule:</p> <p>15% advance of total Contract cost upon submission of following documents:</p> <ul style="list-style-type: none"> • Signed Contract • Submission of Performance Bank Guarantee (PBG) for the amount of 5% of Contract cost. This PBG should remain valid for fourteen (14) months from the date of Contract. • Another Bank Guarantee against advance payment of 15% of Contract cost with the validity of minimum eight (8) months from the date of contract. • BGs should be submitted within 21 days of signing of the Contract. • The BG against advance payment shall be released when the advance payment has been fully set off. <p>For lump-sum contracts payment will be made based on milestones indicated for each activity as below:</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: center;">Sr. No.</th> <th style="text-align: center;">Milestone (Deliverables)</th> <th style="text-align: center;">Time period for submission</th> <th style="text-align: center;">Payment (as %age of the total service cost)</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">1.</td> <td>Completion of annual PM services on pro-rata basis supported by relevant documents against each labs (as per timelines mentioned in TOR).</td> <td>Within six months of commencement of services</td> <td style="text-align: center;">40%</td> </tr> </tbody> </table> | Sr. No. | Milestone (Deliverables) | Time period for submission | Payment (as %age of the total service cost) | 1. | Completion of annual PM services on pro-rata basis supported by relevant documents against each labs (as per timelines mentioned in TOR). | Within six months of commencement of services | 40% |
| Sr. No. | Milestone (Deliverables) | Time period for submission | Payment (as %age of the total service cost) | | | | | | | |
| 1. | Completion of annual PM services on pro-rata basis supported by relevant documents against each labs (as per timelines mentioned in TOR). | Within six months of commencement of services | 40% | | | | | | | |

| | | | | | | | | | | |
|--------------|--|--|--|--|---|--|--------------|--|--|-------------|
| | | <table border="1"> <tr> <td>3.</td> <td>Completion of other AMC and repair services supported by relevant documents (as per timelines mentioned in TOR).</td> <td>At the end of every quarter from commencement of services</td> <td>60% (15% every quarter)</td> </tr> <tr> <td colspan="3" style="text-align: right;">Total</td> <td>100%</td> </tr> </table> <p>All the above payment shall be made by Employer after due verification and acceptance of invoice along with relevant supporting documents like Service Reports, PM reports, Calibration reports, third party bills for purchasing of spares, warranty certificate etc. duly verified, signed and stamped by lab-In-charge of each lab, as submitted by the consultants.</p> <p>The following provisions shall apply to the advance payment and the advance bank payment guarantee:</p> <p>(1) An advance payment of 15% of Contract amount shall be made within 30 days by the Employer, after the receipt of an Advance Bank Payment Guarantee with minimum validity of eight months. The advance payment will be set off by the Employer in equal portions against next three payments Schedules (refer payment schedule) or before/ by the time 80% of payment made to the Consultant.</p> <p>(2) Bank guarantee shall be in the amount and in the currency of the advance payment.</p> <p>(4) The bank guarantee against advance payment will be released when the advance payment has been fully set off.</p> | 3. | Completion of other AMC and repair services supported by relevant documents (as per timelines mentioned in TOR). | At the end of every quarter from commencement of services | 60% (15% every quarter) | Total | | | 100% |
| 3. | Completion of other AMC and repair services supported by relevant documents (as per timelines mentioned in TOR). | At the end of every quarter from commencement of services | 60% (15% every quarter) | | | | | | | |
| Total | | | 100% | | | | | | | |
| 14 | 6.3 (f) | Accounts of the Consultant <i>[Insert account]</i> | | | | | | | | |
| 15. | 8.3 | <p>The Arbitration proceedings shall take place in Delhi in India.</p> <p>Binding signature of Employer Signed by ___ (for and on behalf of the President of India)</p> <p>Binding signature of Contractor Signed by ___ (for and on behalf of _____ duly authorized vide Resolution No _____ dated _____ of the Board of Directors of)</p> <p>In the presence of (Witnesses)</p> <p>1. 2.</p> | | | | | | | | |

IV. Appendices

APPENDIX A – DESCRIPTION OF SERVICES

This Appendix will include the final Terms of Reference worked out by the “Employer” and the Consultants during technical negotiations, dates for completion of various tasks, place of performance for different tasks/activities, specific tasks/activities/outcome to be reviewed, tested and approved by “Employer”, etc.

APPENDIX B - REPORTING REQUIREMENTS

This Appendix will include the final List of formats, frequency, and contents of reports; persons to receive them; dates of submission; etc.

APPENDIX C – STAFFING SCHEDULE

This Appendix will include agreed (negotiated) staffing schedule including the engagement of sub-contractors, if any

APPENDIX D – TOTAL COST OF SERVICES (Lump Sum Contract Cost)

This Appendix will include rates quoted in the financial proposal or the negotiated rates, whichever is applicable.

APPENDIX E - DUTIES OF THE “EMPLOYER”

This Appendix will include list of Services, facilities and property to be made available to the Consultant by the “Employer”.