Minutes of Pre-Bid Meeting for Selection of Agency for Development, Implementation and Maintenance of Laboratory Information Management System (LIMS) including Supply of related IT equipment and associated Services (Bid Ref. No. SAMS/FIND/LIMS/38/2017 dated 09/06/2017)

The Pre-Bid Meeting was held on 19/06/2017 at 03:00 PM in the office of Strategic Alliance Management Services Pvt. Limited (SAMS), New Delhi. The following were present in the pre-bid meeting:

SAMS officials:
1)   Mr. Satya Verma, GM (Procurement)
2)   Ms. Jyoti Singh Sr. Manager (Procurement)
3)   Mr. Dinesh Kumar, Procurement Officer
4)   Ms. Parul Koul, Dy. Manager (Procurement)

FIND officials:
1)   Dr. Tarak Shah, Medical Officer
2)   Dr. Manoj Toshniwal, Consultant
3)   Ms. Madhu Agarwal, Procurement officer
4)   Ms. Rajashree Sen, Senior Manager

Bidders' representatives:
1)   Mr. Ajay Zarabi (Project Manager), Paramarsh Informatics Pvt. Ltd, Gurgaon
2)   Mr. Bhupesh Maggo (Sales Manager), Sterling Infoways Pvt. Ltd, Gurgaon
3)   Mr. Gaurav Jaswal (Manager), KPMG, Noida
4)   Mr. Shivam Dixit (Head Sales), Navyug Infosolutions Pvt. Ltd., Noida
5)   Mr. Sanjeev (Asst. Manager), IAP Company (P) Ltd., Gurgaon
6)   Mr. Rakesh Singh (Asst. Manager BD), IAP Company (P) Ltd., Gurgaon
7)   Mr. Vishal Nagpal, Itdose Inforsystems Pvt. Ltd, Noida

Proceeding of the pre-bid meeting are as follows:
1. At the outset, SAMS made a briefing about the purpose of the pre-bid meeting and scope of services required under bid along with major terms and conditions of the tender.
2. Thereafter, prospective bidders were requested to put up their queries related to scope and terms and conditions given in the Bid Document.
3. The queries from prospective bidders were appropriately responded.
4. The queries sought from prospective bidders as asked during the pre-bid meeting and purchaser's responses / amendment against each query is summarized in the table given at **Annexure-A**.

The Pre-Bid Meeting ended with vote of thanks.

(Satya Verma)
G.M. (Procurement)

Responses / Amendments (Amendment No.1) with regard to queries/suggestions received for Bid Document for Selection of Agency for Development, Implementation and Maintenance of Laboratory Information Management System (LIMS) including Supply of related IT equipment and associated Services
(SAMS/FIND/LIMS/38/2017 dated 09/06/2017)

Sl. No.	Para / Clause Reference in the Bid Document	Description of Para / Clause in the Bid Document	Query/Suggestions as received from prospective bidders	Response (plane text) / Amendments (bold text)
1.	Chapter-I: Instructions to Bidder, ITB Para 4.1 (Bidder's Eligibility And Qualification)	This invitation for bids is open to all Organizations (Proprietorship Firms, Partnership Firms, Limited Liability Partnership Firms, Companies registered under Companies Act, 1956 or Societies Act, Trusts, Societies registered under respective Act and Jurisdiction in India) who fulfil the eligibility and qualification criteria as specified below. The bidder may form Consortium with other firms to enhance their qualifications. In such a case, the lead firm / bidder along with all the Consortium members shall be jointly and severely liable for satisfactory performance of services, in case contract is awarded	To confirm whether as a foreign company, if we could apply as a bidder for project of SAMS vide tender no. SAMS/FIND/LIMS/38/2017, considering clause. We were not sure whether "registered under respective Act and Jurisdiction in India "was related to all bidders or only to "companies".	It is to clarify that foreign bidders i.e. companies registered in their respective countries may also submit their bids. The Para is being amended as under. **"This invitation for bids is open to all Organizations (Proprietorship Firms, Partnership Firms, Limited Liability Partnership Firms, Companies registered under Companies Act, 1956 or Societies Act, Trusts, Societies registered under respective Act and Jurisdiction in India <u>or in foreign country</u>) who fulfil the eligibility and qualification criteria as specified below. The bidder may form Consortium with other firms to enhance their qualifications. In such a case, the lead firm / bidder along with all the Consortium members shall be jointly and severely liable for satisfactory performance of services, in case contract is awarded."**

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2	Chapter-I: Instructions to Bidder, ITB Para 4.3 (Bidder's Eligibility And Qualification)	The bidder and consortium partner(s) (as the case may be) together should have achieved an average annual turnover of at least Rs. 5.0 Crores during last three financial years (2013-14, 2014-15 and 2015-16)	It was requested to decrease the turnover requirement mentioned in the bid which seems to be very high and this may lead to non-participation of may technically competent vendors for the bid.	The request has been considered. The para is being amended as follows:- **"The bidder and consortium partner(s) (as the case may be) together should have achieved <u>cumulative</u> turnover of at least Rs. 5.0 Crores during last three financial years (2013-14, 2014-15 and 2015-16)".**
3.	Chapter – II: Technical Specification Requirements (TSR) Para D.3	Implementation of the LIMS in 61 C&DST laboratories including in-house training for all staff for data entry and output generation	Will it be trainers training all staff	It is to clarify that selected agency should provide onsite training to all staff for data entry and output generation at each lab. Also training of personnel (Training of Trainers) for 2 person from each lab (total 122 Nos. in 4 batches) to be conducted at regional level.
4.	Chapter – II: Technical Specification Requirements (TSR) Para D.4	"Training of personnel (Training of Trainers) for 2 person from each lab (total 122 Nos. in 4 batches)"	Who will provide training location/ logistics etc. and what will be the training duration in days.	1. Location of training would be any one of the regional TB training center. The venue shall be arranged by FIND. 2. Expenses towards organizing training (such as training material,, stationary for participants, refreshments, AV arrangement) as well as boarding & lodging will be the responsibility of the Agency. 3. Expenses towards travel of the trainees shall not be the responsibility of the Agency. 4. The duration of training shall be at least 3 days.

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5.	Chapter – II: Technical Specification Requirements (TSR) Para E.4. a)	The lab maintains records of all personal such as joining report, health records, records of bank account details, leave/ attendance, qualifications/ training/ retraining/ absence/ complaints/ irregularities, etc.	What will be leave & attendance management system in the lab? Whether it will be biometric or interface. Whether Leave policy varies from state to state across India. What will be no. of working days in lab or holidays?	It will not be required in LIMS software. Leave/attendance not required in LIMS software The para is being amended as under; **The lab maintains records of all personal such as joining report, health records, records of bank account details, qualifications/ training/ retraining/ absence/ complaints/ irregularities, etc.**
6	Chapter – II: Technical Specification Requirements (TSR) Para E.5. a)	The labs maintain various documents and records about the equipment including supplier information, source of equipment funding, equipment manuals, installation records (including place where located), routine servicing records including calibration, records of breakdown, repairs and re-introducing them, follow up with vendors, etc.	How currently vendors are being followed up by labs? Through SMS or email.	Currently vendor management is mostly through mail/ phone calls. The same should be flagged by LIMS in the lab, the lab in-charge will take further action; no SMS /email for other person outside the lab is required (unless specifically asked for)
7	Chapter – II: Technical Specification Requirements (TSR) Para E.6. b)	In general, the lab maintains a stock register for each item (receipts with batch no/ date of expiry, transfer in, consumption, transfer out and balance remaining. It is important that the lab keeps a tab of impending stock out/ short supply of	Is there any standard coding system for Consumables items in the lab?	Currently, there is standard coding of consumables supplied to TB Labs. However, the software should have flexibility to add/ deleted/ modify the requirement as per need.

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		consumables. LIMS can help in doing so.		
8	Chapter – II: Technical Specification Requirements (TSR) Para F.2. c)	Data from the local server should be periodically pushed to the Nikshay database.	Please confirm whether it is local server or something else.	It is Local Server and both Pull and Push data mechanism from local server should be available.
9	Chapter – II: Technical Specification Requirements (TSR) Para F.2. c)	Data from the local server should be periodically pushed to the Nikshay database.	Integration scope includes integration of /data push from central server to NIKSHAY, integration of the LIMS solution with existing equipment software or in some cases integration with other information management systems already under use in the implementing labs.	Majority of the labs do not have any other information system within the lab. However, some of the larger labs may have a HIS system of the institution. LIMS should be able to provide the necessary information as an output to the local HMIS software for seamless integration. This is apart from integration with NIKSHAY and data acceptance from the equipment wherever the interface provided with equipment is available (eg: CBNAAT)
10	Chapter – II: Technical Specification Requirements (TSR) Para G.4.	Logistics/Consumables* (OPTIONAL)	Whether Logistics/Consumables Module of LIMS mentioned as OPTIONAL in bid document are need to be quoted or not.	The Logistics/Consumables Module should be quoted as OPTIONAL. The selected agency may be required to develop and implement this module at the additional cost quoted by it.
11	Chapter – II: Technical Specification Requirements (TSR) Para N. Sr. No. 6 – sub-para 9)	Migrating data from any IT based system/tools to LIMS database and uploading the digitized data (digitized from manual register by Labs) will be the responsibility of the Consultant	-What do you mean by data digitization? -What is Existing Data and Format of data? -Also specify volume of data per center i.e. how much digital / hard copy. Please clarify on the scope of Data Digitization	One calendar month's patient record can be used during testing period. No other data needs to be digitized from the period before LIMS implementation. **The para stands deleted.**

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			Please clarify on the scope of data migration? From which of the existing systems, data shall be migrated to the LMIS module? In case of data migration, API of the system shall be provided to the bidder	
12			Whether Master will be managed Centrally	Bidders to provide detailed proposed solution in their technical proposal
13			Whether Local Master are to be managed Locally	Bidders to provide detailed proposed solution in their technical proposal
14			Please clarify whether Security Audit shall be conducted by Third Party first and then by NIC.	Security Audit shall be conducted as per the protocol of NIC (first by Third Party and then by NIC). Vendor is responsible for audit/ obtaining permission to host central database on the NIC server until which time the staging server should be used
15	Chapter – II: Technical Specification Requirements (TSR) Para D.5	Data push from the NIC server to Nikshay	What will be NIC - Nikshay Interface. API or Import-Export?	Nikshay is hosted at NIC and information will be provided as per NIC guidelines. Agency has to coordinate for seamless integration with NIC with support from CTD/FIND. The Para is being amended as under: **Data push/pull from the NIC server to Nikshay**
16	Chapter – V (Conditions of Contract) Clause	Payment shall be made against the claim received from Solution Provider as per payment terms given below:	Whether Payment to consortium shall be made separately	Payment shall be made only to Lead Partner, not to the Consortium.

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	15.1 (Terms and Mode of Payment)	---		
17	Chapter – II: Technical Specification Requirements (TSR) Para F. 1. e)	Users should be able to access the server through the LAN so that operations can continue without internet access	How many Users are to be created for Local Server or Master Server	At the lab level, the number of users depends on the lab workload on local level with an average of 15-25 users per lab across 61 labs. Apart from this, there will be around 100-200 users across central/ regional/ state/ technical agencies
18	General	--	What will be Lab Local System - Desktop Windows or Web Application based.	Either, provided it is able to cope with local internet outages
19	General	--	Which technology would be preferred- Open Source or MS Technology	Preference for Microsoft for support purposes
20	Chapter – II: Technical Specification Requirements (TSR) Para F. 2. a)	The centralised data server collects data from the Local LIMS systems to provide and aggregated, normalised dataset	Central Server - Technology, OS , Server Details / Java/PHP/Open source/Windows	Bidders to provide detailed proposed solution in their technical proposal, considering the fact that the data will be hosted at NIC server with provision of integration with NIKSHAY
21			Is clustering via shared storage to be considered for the centralized server? If yes what should be the protocol used (FC/ISCSI)?	Bidders to provide detailed proposed solution in their technical proposal
22	Chapter – II: Technical Specification Requirements (TSR) Annexure-A, Sr. No. 10 & 11	Recommended Hardware Specifications (INDICATIVE)	Please specify if any particular specification for barcode printer and scanner is required. Is the barcode scanner are to be connected to a tablet or a PC.	The specification of Barcode Scanner and Printer is given in the Bid document. Bidders may quote accordingly. Barcode scanner should be connected at least to the PC

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23	Chapter – II: Technical Specification Requirements (TSR) Annexure-A,		What is the type of SLA required for the supplied hardware items?	LIMS to be maintained for two years post 'Go live' by the agency. Post this period, the laboratory / program will take care of the maintenance. Accordingly SLA may be proposed as per the OEM terms.
24	Chapter – II: Technical Specification Requirements (TSR) Para N. Sr. No. 9. 2)	The Consultant shall provide help-desk support during maintenance period on all working days during normal office hours	Is performance monitoring and Help desk services solution required?	The helpdesk can be centrally located for remote trouble-shooting. Escalations must be serviced through in-person visit to the lab in question as per the protocol
25	Chapter – II: Technical Specification Requirements (TSR) Para F.1	Local LIMS Server	Will each server per location host a single application only? If multiple, then whether server virtualization required?	It is anticipated that each server with host a single application to manage the individual sites however bidders to provide detailed proposed solution in their technical proposal
26	Chapter – II: Technical Specification Requirements (TSR) Para E.4 a)	The lab maintains records of all personal such as joining report, health records, records of bank account details, leave/ attendance, qualifications/ training/ retraining/ absence/ complaints/ irregularities, etc.	In which format records are maintained now? Do we need to take a picture? Or use a scanner?	Currently HR Records are maintained in excel and Register only the information that is available should be allowed to be entered into LIMS (no need of uploading scanned copies)
27	Chapter – II: Technical Specification Requirements (TSR) Para F.1 c)	Access to laboratory management modules also occurs via the LIMS UI (see sections below)	Why? Where this shall be provided too?	Access to the lab management modules of the LIMS UI is as per the description in RFP
28	Chapter – II: Technical Specification Requirements (TSR) Para F.1 f)	The local servers should periodically synchronize with the Centralized Data Server securely with encryption	What do you mean by encryption: https protocol with certificates, or data encryption prior sending it?	Bidders to provide detailed proposed solution in their technical proposal; the requirement is that no unencrypted data shall be sent between servers

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29	Chapter – II: Technical Specification Requirements (TSR) Para F.2 a)	The centralized data server collects data from the Local LIMS systems to provide and aggregated, normalized dataset	« Collect »? = Pull or Get. Is it ok if we push the data from the local server to the central server?	This is to be done as per the NIC policy/guidelines.
30	Chapter – II: Technical Specification Requirements (TSR) Para F.2 b)	During testing, a deployment server provided by vendor will serve as central database with the NIC server serving as the final central server, post approval from NIC (including security audit)	Can you elaborate? We don't understand this process flow. What is NIC? Please clarify on the requirement of local and centralized server. Whether this will be provided by SAMS/FIND or the bidder has to arrange?	The NIC means **National Informatics Centre,** is the premier science & technology organisation Govt. of India in informatics services and information and communication technology (ICT) applications. The NIC is a part of the Indian Ministry of Electronics and Information Technology's Department of Electronics & Information Technology. Refer website http://www.nic.in The central database for all collated data from the local server is to be hosted on the National Information Centre (NIC) server/cloud which is government owned and operated. The vendor will be responsible for obtaining necessary permissions with support from CTD/FIND
31	Chapter – II: Technical Specification Requirements (TSR) Para F.2 c)	Data from the local server should be periodically pushed to the Nikshay database	"Periodically"-Is it ok if data is pushed in real time once the results are approved by the lab manager or do you wish to have the transfer at a given periodicity every day.	Local server should be online synchronized with central server. The trigger should be the publishing of test results or whenever the internet connection is available.

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32	Chapter – II: Technical Specification Requirements (TSR) Para G.1	The system must capture results in formats required to parse data to Nikshay	The data must be parsed in the required format to be pulled and pushed to Nikshay. Or is it pulled only? We don't understand the sentence.	Data push and pull to NIKSHAY will be required based on the availability/ creation of NIKHAY ID and publishing the result.
33	Chapter – II: Technical Specification Requirements (TSR) Para G.1	--	Does Nikshay have an API? Please provide more information about the API.	There is an API which will be provided (Nikshay is hosted at NIC and information will be provided as per NIC guidelines. Agency has to coordinate for seamless integration with NIC).
34	Chapter – II: Technical Specification Requirements (TSR) Para G.2	The system must have a training module to enable the laboratory to conduct training of the staff involved in using the LIMS. E-version self-administered training module should be available to suffice the requirement of the installation, operationalization and solutions to common errors for LIMS	Who does/provides the training content? What is the format of these training?	Bidder is responsible for creation of content as well as providing the training in the following 2 formats a) Training of the trainer (2 people may be chosen from each of the labs as the "trainers" b) On-site training for all users at each of the labs
35	Chapter – II: Technical Specification Requirements (TSR) Para H.a)	The purpose of the data entry tablet is to allow users in different rooms within the lab setting to process tests and capture the results electronically into the Local LIMs system and avoid any paper based workflow	Where is the test order created in the process flow? By whom?	Test order is created at various work stations as per the algorithm (please refer to Figure 1 of RFP)
36	Chapter – II: Technical Specification Requirements (TSR) Para K	Creation of support and troubleshooting guides	Do you wish guides and e-learning tools or only guides (PDF) ?	At least PDF versions

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37	Chapter – II: Technical Specification Requirements (TSR) Para K	The LIMS software & code will be sole proprietary of Central TB Division, MoH&FW, GoI	We distribute our software in other countries. There is no license fee linked to it. Would it be acceptable to provide you with a non- exclusive unlimited in time free license to use the software and the code in India so that we can later still use the software in other settings? If we would lose the ownership of our software (which is already installed in 7 countries) we would not be able to bid. Please specify whether the bidder has to handover the source code of the developed LMIS platform to client?	The software should preferably be open source with sharing of code to the purchaser. Otherwise, it is requested that the vendor provides a non-exclusive, unlimited in time, free license to use the software and the code in India (usable at program labs for unlimited machines)- rights for the code-sharing will be required only for future updates/ customizations of the software for the laboratories participating in the program.
38	Chapter – II: Technical Specification Requirements (TSR) Annexure-B Sr. No. 13	Annexure I – to be auto-back-up, email with auto-cc function for email, print for filling; Annexure IV – Hard copy to be printed after 3 months (e.g. Jan to be printed on 1st May);	What are Annexure I and IV?	**Sample formats of data entry variables in lab (Annexure I and IV are provided (as Annexed)**
39	Chapter – II: Technical Specification Requirements (TSR) Annexure-A	--	Is there requirement for Data Switches in the laboratories?	Yes, there is (If the lab doesn't already have them)
40	Chapter – II: Technical Specification Requirements (TSR) Annexure-A	--	How will the Wi-FI access points be powered?	Usually the laboratory is in an average area of 1000-1500 sq ft with 5-9 sections/lab across 61 labs. Agency to estimate and put the appropriate # of access points/cabling job charges. The requirement may vary from lab to lab.
41			How many LAN points are required per Location?	
42			How do we derive cable requirement for laboratories?	

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43			Are you looking for structured cabling or just hand crimped network connections?	We expect structured cabling work from the Agency
44	Chapter – II: Technical Specification Requirements (TSR) Para F. 4. b)	Connection from the Local LIMS server to Centralised Data Server is required	What would be the mode of connectivity from locations to NIC Data centre? IPSec VPN or MPLS VPN?	IPSec VPN envisaged but bidder should seek clarification regarding MPLS availability
45	Chapter – II: Technical Specification Requirements (TSR) Para F. 4. c)	In some cases, due to location and infrastructure this may require the use of cellular data connections	How many locations are there where cellular connectivity may be required?	Existing internet connectivity within the laboratories to be used for sharing the data.
46	Chapter – II: Technical Specification Requirements (TSR) Para N. Sr. No. 9. 2)	The Consultant shall provide help-desk support during maintenance period on all working days during normal office hours	RFP asked for Help desk, therefore we would like to know whether help desk will be at all the 61 locations or there will be any central location where help desk will be set up.	The helpdesk can be centrally located for remote trouble-shooting. Escalations must be serviced through in-person visit to the lab in question as per protocol
47	Chapter – II: Technical Specification Requirements (TSR) Annexure-A,	--	As per H/w BOM and as per our understanding, we need to consider one server & desktop /one network/barcode, tablet, scanner support for all 61 one locations. So we need to know whether the BOM mentioned in the RFP will deploy at all the said locations mentioned.	Yes
48	Chapter – II: Instructions to Bidders (ITB) Para 25.3	The bids evaluated as technically responsive as above shall be further evaluated based on Criteria, sub-criteria and point system as under (as per Table)	Considering the fact that experience of the bidder in Information Systems Projects in WHO/CTD/MoHFW would be similar to experience in working in any Health related Information	**The table has been amended (as Annexed)**

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			Systems Projects which has been rolled out/implemented by any of the State Governments (as WHO/CTD/MoHFW projects are at the end implemented through the State Government Health machinery only) similarly all the ESIC hospitals/Labs come under the Ministry of Labour & Employment hence we request the tender authority to modify the clause	
49	Chapter – II: Instructions to Bidders (ITB) Para 26.1	The combined evaluation of bids shall be carried out by giving weights to Technical and Financial bids in the ratios of 80:20 i.e.	--	The para is being amended as under: The combined evaluation of bids shall be carried out by giving weights to Technical and Financial bids in the ratios of 70:30
50	Chapter – II: Instructions to Bidders (ITB) Para 26.2	Bids shall be ranked according to their combined technical (St) and financial (Sf) scores using the weights (T = the weight given to the Technical Bids i.e. 80%; P = the weight given to the Financial Bids i.e. 20%; as follows: S = St x T% + Sf x P%.	--	The para is being amended as under: Bids shall be ranked according to their combined technical (St) and financial (Sf) scores using the weights (T = the weight given to the Technical Bids i.e. 70%; P = the weight given to the Financial Bids i.e. 30%; as follows: S = St x T% + Sf x P%.
51	Chapter – II: Technical Specification Requirements (TSR) Para G. 2)	• The system must be able to display the training status for lab staff by different technologies i.e. when initially trained, certificates held. • The system must have a training module to enable the laboratory to conduct training of	Please clarify on the functionalities of HR management module. Whether this also includes Leave Policy Management, attendance recording etc.	Leave/attendance module & Online training modules in HR management are not required.

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		the staff involved in using the LIMS. E-version self-administered training module should be available to suffice the requirement of the installation, operationalization and solutions to common errors for LIMS. • The system should be able to manage vacancy alerts for different categories of staff i.e. new lab technician required	Also please clarify on the importance of online training modules in HR management and who shall provide the content for the same?	
52	Chapter – II: Technical Specification Requirements (TSR) Para G. 3)	• The system MUST be able to track equipment details (model, make & year, date of installation, warranty status, functional status) and information placement in various sections • The system must be able to track equipment calibration & servicing, details and reminders • The system must be able to track equipment breakdown, follow-up, service status	In equipment management module, do we require to built-in workflows for notification triggers in case of equipment servicing/calibration required? In case this is required, is the bidder responsible for SMS/Email gateway integration?	Yes, notification triggers in case of equipment servicing/calibration required are need to be integrated in the software. The flag should be in the lab, the lab in-charge will take further action; no sms/email for other person outside the lab (unless specifically mentioned)
53	Chapter – II: Technical Specification Requirements (TSR) Para G. 4)	• Item code / Opening balance / Receipts / Consumption (including transfers) /Closing balance / expiry • Flag up – critical stock status	Please specify on the requirement for consumables & lab Supplies Management module	The Logistics/Consumables Module of LIMS are mentioned as OPTIONAL in the bid document and bidders should quote for the same

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54	Chapter – II: Technical Specification Requirements (TSR) Para N)	The deliverables and proposed time-lines are as under (As per Table provided)	Considering the fact that the overall LIMS solution shall be custom developed we request if the overall timelines can be slightly relaxed specifically considering development period.	Overall proposed timeline for completion (Go Live) of LIMS shall remain same. The milestones (timelines) for different stages of LIMS may be relaxed/ as per the need of the development of software, which can be discussed and finalized before signing of contract with selected Agency.
55	Chapter – II: Technical Specification Requirements (TSR) Para F. 1. e)	Users should be able to access the server through the LAN so that operations can continue without internet access	Please mention an approximate number of concurrent users	It will be approximate average of 15-20 users/lab at any point of time
56	Chapter – IV: "Financial Bid – Standard Forms"	FORM FIN-5: COST OF IT EQUIPMENT AND ACCESSORIES	In serial number 14 the quantity of Server related has been mentioned as 61 kindly change/modify according to requirements	No Central Server is required. **The Sr. No. 14 is being deleted.**
57	General	--	It was requested to provide web link of input data available/ currently maintained by labs under RNTCP project	Please refer to RNTCP website (http://tbcindia.gov.in/) for the different formats maintained by labs. **Additionally, Annexure 1 & 4 are being provided (As Annexed)**
58	Chapter-I: Instructions to Bidder (Bid Prices), ITB Para 12.3	The price of Services component must exclude all taxes and duties, payable, if the Contract is awarded. The taxes and duties, as applicable at the time of award of contract shall be assessed and included in the Contract	It was requested to clarify that how to quote tax part as GST may be applicable very soon	As the bid submission is to happen post-GST implementation (i.e. after 1 July, 2017, bidders are required to consider and include GST in their Financial Bid, as applicable, taking in to account input tax credit on goods and services quoted.

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				The text 'taxes and duties as applicable' are being amended to 'GST payable' (ITB Para 12.3)
59	Chapter-I: Instructions to Bidder (Bid Prices), ITB Para 12.4	The prices for Goods component of the Information System are to be expressed as follows: a) Unit prices of Goods shall be quoted on an EXW (ex-factory, ex-works, ex-warehouse or off-the-shelf, as applicable) basis. b) Cost of Inland transportation, insurance and related costs incidental to the delivery of Goods up to final destination consignee locations. c) Cost towards installation, commissioning and testing including any other cost towards incidental services d) Amount of duties and Taxes, payable if contract is awarded		**The text 'amount of duties and taxes payable' are being amended to 'GST payable' (ITB Para 12.4)**
60	Chapter-I Instructions to Bidders, ITB Para 10.1 A).iv). d)	Copy of Sales Tax / VAT registration of the bidder and Consortium partner(s) (as the case may be)	--	The para is being amended as under; **Copy of Sales Tax / VAT/GST/other applicable tax registration of the bidder and Consortium partner(s) (as the case may be)**
61	Chapter – II: Technical Specification Requirements (TSR) Annexure-A	Recommended Hardware Specifications *(INDICATIVE)*	It was requested to clarify whether same Make are to be supplied as mentioned under Brand of Hardware required for the project at Annexure-A.	The Make mentioned against some of the Hardware items are mentioned to INDICATE quality standard only. Bidder may substitute them with equivalent Brand

Sl. No.	Para / Clause Reference in the Bid Document	Description of Para / Clause in the Bid Document	Query/Suggestions as received from prospective bidders	Response (plane text) / Amendments (bold text)
				The Table has been amended and is provided herewith (As Annexed)
62	Chapter-I: Instructions to Bidder (Documents Comprising the Bid), ITB Para 10.1 A) iv) h)	--	How to submit Soft copy of technical proposal against bid (CD or Pen Drive)	The new ITB sub-Para h) is being added as under: **The bidders are required to additionally submit soft copy of technical proposal (only) in Pen Drive or CD**
63	Chapter-I: Instructions to Bidder (Earnest Money Deposit), ITB Para 16.3	No exemption is allowed in EMD. Without valid EMD, bid shall be rejected	--	The text as under is being added at the end of ITB Para 16.3 **The bidders who are registered with NSIC are exempted from submission of bid security. In such case, bidder should submit copy of NSIC registration and documents showing exemption from submission of bid security, in lieu of bid security.**
64	Chapter-III: Technical Bid – Standard Forms, Form TECH-3	Methodology and Preliminary Project Execution plan	--	Para c) is being added at the end of Form TECH-3 **"Bidder should also mention plan of maintenance support for both software and hardware for the 2 years specifically with details of remote and on-site support, plan for minor updating/revision of software as per program need"**
65	Chapter-III: Financial Bid – Standard Forms	FIN-1 to FIN-7	-	**The FORM FIN-1 to FIN-7 have been amended (as Annexed)**

Sl. No.	Para / Clause Reference in the Bid Document	Description of Para / Clause in the Bid Document	Query/Suggestions as received from prospective bidders	Response (plane text) / Amendments (bold text)
66	Chapter – V: Conditions of Contract (COC), Clause 15.B. a)	100% amount of IT Equipment and accessories shall be paid upon delivery of all goods at 61 C&DST labs	--	The Clause is being amended as under: a) **80% amount of IT Equipment and accessories shall be paid upon delivery of all goods at 61 C&DST labs** b) **Remaining 20% contract value of IT Equipment and accessories shall be paid upon successful installation and testing of IT Equipment, accessories along with LIMS at all 61 C&DST Labs**
67	Chapter – V: Conditions of Contract (COC), Clause 16	PENALTY PROVISION AND TERMINATION OF CONTRACT	--	Following Clause (16.4) is being added under Para 16 16.4.**"Extension of timelines of various deliverables as per para N of Chapter-II (Technical Specification Requirements) can be permitted with or without imposition of liquidated damages, taking in to account the reasons for delay.**
68	Chapter-V: Conditions of Contract (COC) Clause 6.1	Within twenty one (21) days from date of the issue of intimation letter/ notification of award by the Purchaser, the Solution Provider, shall furnish Performance Security to the Purchaser for an amount equal to five per cent (5%) of the contract value, valid up to one hundred and twenty (120) days after the date of	--	The Clause is being amended as under: **Within twenty one (21) days from date of the issue of intimation letter/ notification of award by the Purchaser, the Solution Provider, shall furnish Performance Security to the Purchaser for an amount equal to ten per cent (10%) of the contract value (inclusive of cost of hardware**

SI. No.	Para / Clause Reference in the Bid Document	Description of Para / Clause in the Bid Document	Query/Suggestions as received from prospective bidders	Response (plane text) / Amendments (bold text)
		completion of all contractual obligations by the Solution Provider, including the warranty obligations		**and other contractual obligations), valid up to one hundred and twenty (120) days after the date of completion of all contractual obligations by the Solution Provider, including the warranty obligations**

(Satya Verma)
G.M. (Procurement)

Amended Table - Under ITB Para 25.3
(Please refer clarification / Response Sr. No. 48)

The bids evaluated as technically responsive shall be further evaluated based on Criteria, sub-criteria and point system as under:

Sr. No.	Description of Criteria / Sub-Criteria	Max. Marks
(i)	**Specific experience (Health Sector)**	**20**
(a)	Bidder and consortium partner(s) (as the case may be) together should have executed at least 3 (three) similar information systems[1] during last five years as on the due date for submission of bids	10
(b)	Bidder and consortium partner(s) (as the case may be) together should have executed 4-5 similar information systems[1] during last five years as on the due date for submission of bids	15
(c)	Bidder and consortium partner(s) (as the case may be) together should have executed more than 5 similar information systems[1] during last five years as on the due date for submission of bids	20
(ii)	Bidder and its consortium partner (as the case may be) together has executed similar information systems[1] Projects with MoH&FW or CTD or UN agency like WHO or State Health Department / Society during last 5 years as on due date of submission of bid (1 Mark for each Project subject to max. 5 Projects)	5
(iii)	**General experience (other than Health Sector);** Bidder and its consortium partner (if any) together has executed Information Systems Projects with Government or NIC during last 5 years as on date of bid opening (1 Mark for each Project subject to max. 5 Projects)	**5**
(iv)	**Adequacy of the proposed methodology and work plan in response to the terms of reference**	**40**
(a)	Adequacy of Technical methodology & work plan	20
(d)	Adequacy of overall organisation & staffing to demonstrate ability to deliver project of described scale	20
(v)	**Key professional staff: Qualification & competency for the assignment/job. Qualifications and competency of each of the key professional will be evaluated separately**	**30**
(a)	**Team Leader / Project Manager-** min. experience of 10 years	10
(b)	**Software Engineer** #1– min. experience of 5 years	10
(c)	**Software Engineer** #2– min. experience of 5 years	10
	For evaluation of each of the key professionals above, the following sub-criteria shall be followed:	
	i Educational qualifications	20%
	ii Adequacy for the assignment/job (Experience in carrying out similar assignments)	60%
	iii Experience of the region & language	20%
	Total Marks - (i) + (ii) + (iii) + (iv) + (v)	**100**
	Minimum Marks to qualify in Technical Evaluation	**70**

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[1] Similar Information Systems' means such information systems which have been developed, implemented in Health Sector (Private or Govt.) giving solution to Client's management information need, involving data collection, analysis and reporting in multi-user, multi-layered and multi-location environment

Amended Table – Annexure-A (Recommended Hardware Specifications *(INDICATIVE)*

(Please refer Clarification / Response Sr. No. 61)

S. No.	Item	Description*/Configuration
1	Local server	Dell T30 Tower server - Intel Xeon E3-1225v5 (Quad Core) 3.2GHz, 8MB Cache 1600MHz, 1x8GB RAM (4 slots), 1x1TB SATA 3.5" 7.2k rpm Simple Swap HDD (4 Bay), DVD Writer, Onboard RAID 01, Inbuilt RPS Standard (Max 1), 3 Year Onsite NBD
2	Operating System	Microsoft Windows Server 2012 5-Pack User Purchaser Access License (OEM, 64-Bit)
3	Monitor, Keyboard and Mouse	At least 18.5 inch HD LED Monitor at least 110 keys with wireless Keyboard Mouse Combo
4	UPS	1.5 KVA for at least 2 hours of backup (compatible battery backup 12V 150Ah or equivalent)
5	Firewall	NETGEAR FVS318 ProSafe VPN Firewall 8 with 8-Port 10/100 Switch with 16 MB RAM *-recommended brand to ensure security*
6	Router + Modem	WIFI DSL MODEM ROUTER with min. 300 Mbps speed (compatible with Netgear Firewall)
7	Desktop	7th Generation Intel® Core™ i5-7400 processor Windows 10 Home Office Home and Student 2016 min. 8GB RAM, min. 1TB HDD Integrated Graphics 18"-20" monitor HD-LED Atleast 2 USBs in front panel, 4 USB at back panel Mouse+ keyboard
8	Andriod Tablets with flip cover	OS Android RAM atleast 2 GB Size atleast 7" and above Wireless communication technologies wifi Connectivity technologies WiFi Camera Rear 5 MP and above, Front 2 MP and above Colour Black/white Battery Power Rating 2800-4000
9	Antivirus	Multi user license for 15 machines/tablets - Cost per year - Requires annual subscription
10	Barcode Scanner	Automatically switches from "pulse mode" to continuous beaming when a bar code is detected - USB,

11	Barcode Printer	Colour Black - Operating System Windows Included Components Barcode Printer, CD, Power Cable, Ribbon Holder, Power Adaptor, Label Holder kit,
12	AC for server room	1.5 Ton, min. 3 Star Rating, White, Copper wiring
13	CAT5 Cabling	As per the lab layout
14	Backup hard-drive	Min. 1 TB

Note: These are indicative recommendations, if your proposed solution requires additional or other specifications of hardware, kindly propose this as part of your solution. However do quote using only branded hardware. Any changes in specification of OS or hardware should be made considering its implications for long term in-country, onsite maintenance.

Amended FINANCIAL PROPOSAL-STANDARD FORMS – FIN-1 to FIN-7

(Please refer Clarification / Response Sr. No. 65)

FINANCIAL PROPOSAL-STANDARD FORMS
FORM FIN- 1: Form of Bid (Financial)

To,
Director
M/s Strategic Alliance Management Services Pvt. Ltd. (SAMS)
B01-03 Vardhaman Diamond Plaza, Community Centre,
D.B. Gupta Road, Paharganj,
New Delhi 110055

Subject: Bid for "Development, Implementation and Maintenance of Laboratory Information Management System (LIMS) including Supply of related IT equipment and associated Services - Bid Ref. No. SAMS/FIND/LIMS/29/2017

Dear Sir,

1. We, [***Name of Bidder***], hereby submit a bid for the construction of the above-referenced works in response to the above-referenced Bid:

2. We warrant that in preparing and submitting this bid, we have complied with, and are willing to be bound by, any and all of the requirements and provisions of the above-referenced ITB, including the terms and conditions of the Contract as set out in the Bid Documents.

3. Based on the above, our proposed **Total Cost (A+B+C+D) is Rs. _____ inclusive of all relevant duties and taxes** (amount in words) and as per Form FIN-2 to FIN-5 attached. The FIN-6 and FIN-7 are also enclosed.

4. I, the undersigned, certify that I am duly authorized by [***insert name of bidder***] to sign this bid and bind [***insert name of bidder***]:

Name: _____
Title: _____
Date: _____
Signature: _____

FINANCIAL PROPOSAL- STANDARD FORMS

FORM FIN-2: SUMMARY OF COSTS

Sr. No.	Particulars	Amount in Rupees
A	Remuneration (towards Cost of development, implementation/maintenance of LIMS)	
B	Reimbursable	
C	Cost of IT Equipment and Accessories	
	Total (A + B + C)	
D	Service Tax / Sales Tax / VAT/GST/other applicable tax, if contract is awarded *(please mention rate and amount as applicable)*	
	Total Cost **Total (A + B + C + D)**	

Authorized Signature
Name: ………………
Designation ………………
Name of firm:
Address:

FINANCIAL PROPOSAL- STANDARD FORMS

FORM FIN-3: BREAKUP OF REMUNERATION
(towards Cost of Development, Implementation, Maintenance)

Sr. No.	Name of Staff	Position	Person-Day / Person-Month Rate (Rs.) (A)	Proposed No. of Person-Day / Person-Month (B)	Total Amount (A x B)
	Total (A)				

Total Remuneration = _____**Amount in Rupees**
(Amount in Words)

Note:

1. Professional Staff should be indicated individually;
2. Positions of Professional Staff shall coincide with the ones indicated in Form TECH-8;

FINANCIAL PROPOSAL- STANDARD FORMS
FORM FIN-4: BREAKUP OF REIMBURSABLE

(Note: Reimbursable expenses for travel will be quoted only for work related travel outside the place of work. It can also include travel from the Headquarter of the consultant to the place of work).

N°	Description[2]	Unit Type	Unit Cost[3]	Quantity	Total Cost
	TRAVEL				
	Per diem allowances	Day			
	Travel cost	Trip			
	Accommodation	Day			
	Miscellaneous travel expenses	Trip			
	Conveyance	Trip			
	OTHERS				
	Communication costs between [*Insert place*] and [*Insert place*]				
	Drafting, reproduction of reports				
	Equipment, instruments, materials, supplies, etc. (give details)				
	Postage & Courier				
	Use of computers, software				
	Subcontracts				
	Local transportation costs				
	Office rent, clerical assistance				
	Other Admin Costs (give details)				
	Total Costs (B)				

Total Reimbursable: = _____

Amount in words:

FINANCIAL PROPOSAL- STANDARD FORMS

FORM FIN-5: COST OF IT EQUIPMENT AND ACCESSORIES (valid for 1 year from date of award of contract)

Sr. No.	Description	No. of TB Labs[2]	Quantity per TB Lab	Total Quantity for 61 TB Labs	Unit Price EXW (ex-factory, ex-works, ex-warehouse or off-the-shelf) basis	Total Cost	Cost of Inland transportation, insurance and related costs incidental to the delivery of Goods up to final destination consignee locations	Cost towards installation, commissioning and testing including any other cost towards incidental services	Net Total Cost	Amount of duties and Taxes, payable if contract is awarded
A	B	C	D	E = C x D	F	G = D x F	H	I	J=G+ H+I	J
1	Local server	61	1	61						
2	Operating System	61	1	61						
3	Monitor Keyboard and Mouse	61	1	61						
4	UPS	61	1	61						
5	Firewall	61	1	61						
6	Router + Modem	61	1	61						
7	Desktop	61	1	61						
8	Andriod tablets with flip covers	61	10	610						
9	Antivirus	61	1	61						

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[2] The IT equipment and accessories required for up-scaling the LIMS in additional Labs, if required shall be supplied by the selected firm considering the rates quoted in this table.

Sr. No.	Description	No. of TB Labs[2]	Quantity per TB Lab	Total Quantity for 61 TB Labs	Unit Price EXW (ex-factory, ex-works, ex-warehouse or off-the-shelf) basis	Total Cost	Cost of Inland transportation, insurance and related costs incidental to the delivery of Goods up to final destination consignee locations	Cost towards installation, commissioning and testing including any other cost towards incidental services	Net Total Cost	Amount of duties and Taxes, payable if contract is awarded
10	Barcode Scanner	61	4	244						
11	Barcode Printer)	61	2	122						
12	AC for server room (1.5 T)	61	1	61						
13	CAT5 Cabling (as per lab Layout)	61	1 job / site	61 jobs						
14	Backup hard drive (1 TB space)	61	1	61						
	TOTAL COST (C)									

FINANCIAL PROPOSAL- STANDARD FORMS

FORM FIN-6: COST OF MAINTENANCE SUPPORT BEYOND 2 YEARS POST GO-LIVE

S.N	Description	Total Price (exclusive of all applicable taxes and duties)	Amount of Taxes and Duties, if contract is awarded (as currently applicable)
	Cost of setting op off-site maintenance support facility, including, infrastructure, IT equipment etc. (after warranty / maintenance support period of 2 years)		
1	Year-3		
2	Year-4		
3	Year-5		
	TOTAL COST		

Note:

a) **The cost quoted as above shall not be considered for the purpose of evaluation and ranking and also not included in contract.**

b) **However, the selected bidder may be required to provide services after warranty / maintenance support period of 2 years at the rate quoted here. Separate contract shall be signed for these services.**

FINANCIAL PROPOSAL- STANDARD FORMS

FORM FIN-7: COST OF OPTIONAL AND ADDITIONAL SERVICES

S.N	Description	Total Price (exclusive of all applicable taxes and duties)	Amount of Taxes and Duties, if contract is awarded (as currently applicable)
1	Cost of developing / testing and implementing Logistics / Consumables Module		
2	Cost of Implementing LIMS in each additional Lab (without the cost of required IT Equipment and Accessories including 2 years maintenance support		

RNTCP Request Form for examination of biological specimen for TB
(Required for Diagnosis of TB, Drug Sensitivity Testing and follow up)

Patient Information			
Patient name		**Age (in yrs):____**	**Gender:** ☐M ☐F ☐TG
Patient mobile no. or other contact no.		**Specimen date of collection**	☐ **Sputum** ☐**Other (specify)_____**
Aadhar no.		(DD/MM/YY) _____	
Patient address with landmark		**HIV Status:** ☐Reactive ☐Non-Reactive ☐Unknown	
		Key populations: ☐Contact of known TB Patient ☐Diabetes ☐Tobacco ☐Prison ☐Miner ☐Migrant ☐Refugee ☐ Urban slum ☐Health-care worker ☐Other(specify) _____	

Name and Type of referring facility (PHI/DMC/TU/ DTC/ICTC/ART/Medical College/DR-TB Centre/Private Others, specify): _____

Health Establishment ID (NIKSHAY): _ _ _ _

CDL NIKSHAY ID: _ _ - _ _ _ _ - _ - **C** - _ _ - _ _ _ _ _

RNTCP TB Reg No. _____
      Or
☐ Not Applicable

State: _____   **District:**_____   **Tuberculosis Unit (TU):** _____

Reason for Testing:

Diagnosis and follow up of TB	
Diagnosis (NIKSHAY ID_____)	Follow up (Smear and culture)
H/O anti TB Rx for >1 month: ☐ Yes ☐ No	RNTCP TB Reg No _____ NIKSHAY ID:_____
☐ Presumptive TB ☐ Repeat Exam ☐ Private referral ☐ Presumptive NTM	Predominant symptom _____ Duration _____ days	Regimen: ☐New ☐ Previously Treated Reason: ☐ End IP ☐ End CP Post treatment: ☐ 6m ☐ 12m ☐ 18m ☐ 24m

(Note: the "Predominant symptom / Duration" block sits in a sub-column under Diagnosis; Regimen/Reason/Post treatment sits under Follow up.)

Diagnosis and follow up Drug-resistant TB	
Drug Susceptibility Testing (DST)	Follow up (Culture)
Presumptive MDR TB — ☐ New ☐ Previously treated ☐ At diagnosis ☐ Contact of MDR/RR TB ☐ Follow up Sm +ve ☐ Private referral ☐ Discordance resolution	PMDT TB No _____ DR TB NIKSHAY ID: _____ Regimen: ☐ Regimen for INH mono/poly resistant TB ☐ Regimen for MDR/RR TB ☐ Shorter regimen*
☐ Presumptive H mono/poly	☐ Modified Regimen for MDR/RR-TB + FQ /SLI resistance ☐ Regimen for XDR TB ☐ Modified Regimen for mixed pattern resistance
Presumptive XDR TB — ☐ MDR/RR TB at Diagnosis ☐ ≥ 4 months culture positive ☐ 3 monthly for persistent culture positives (treatment month _____) ☐ Culture reversion ☐ Failure of MDR/RR-TB regimen ☐ Recurrent case of second line treatment ☐ Discordance resolution	☐ Regimen with New Drug for MDR-TB Regimen + FQ/SLI resistance ☐ Regimen with New Drug for XDR-TB ☐ Regimen with New Drug for failures of regimen for MDR TB ☐ Regimen with New Drug for failures of regimen for XDR-TB ☐ Regimen with New Drug for mixed pattern resistance Treatment ☐ Month ☐ Week :_____

Test requested:

☐Microscopy ☐TST ☐IGRA ☐Chest X-ray ☐Cytopathology ☐Histopathology ☐ CBNAAT ☐ Culture ☐DST ☐Line Probe Assay ☐Gene Sequencing ☐Other (Please Specify) _____

Requestor Name, Designation and Signature: _____

Contact Number:_____   Email ID:_____

Results: **NIKSHAY ID** Generated: _____   **CDL NIKSHAY ID:** _____

Microscopy (☐ ZN ☐ Florescent)							
	Lab Sr. No	Visual appearance	— Result				
			Negative	Scanty	1+	2+	3+
Sample A							
Sample B							

Date tested: _____   **Date Reported:**_____   **Reported by:**_____
                                                          (Name and Signature)

Cartridge Based Nucleic Acid Amplification Test (CBNAAT)

Sample	☐ A	☐ B		
M. Tuberculosis	☐ Detected	☐ Not Detected	☐ N/A	
Rif Resistance	☐ Detected	☐ Not Detected	☐ Indeterminate	☐ N/A
Test	☐ No Result	☐ Invalid	☐ Error – Error Code_____	(Please arrange for fresh sample)

Date tested: _____ Date Reported:_____ Reported by:_____
(Name and Signature)

Culture (☐ LJ   ☐ LC)

Lab Sr. No	Negative	Positive	NTM (write species)	Contamination

Date Result: _____ Date Reported:_____ Reported by:_____
(Name and Signature)

Line Probe Assay (LPA)

☐ Direct ☐ Indirect   Lab serial _____

First line LPA

RpoB: ---- **locus control:** ☐ present ☐ absent

WT1: ☐present ☐ absent   **WT2:** ☐ present ☐ absent   **WT3:** ☐ present ☐absent   **WT4:** ☐ present ☐ absent

WT5: ☐ present ☐ absent   **WT6:** ☐ present ☐absent   **WT7 :** ☐ present ☐absent **WT8 :** ☐ present ☐ absent

MUT1 (D516V): ☐ present ☐absent   **MUT2A (H526Y):** ☐ present ☐absent   **MUT2B (H526D):** ☐ present ☐absent   **MUT3 (S531L):** ☐ present ☐absent

Kat G: ----- locus control: ☐ present ☐ absent	**Inh A:-----** locus control: ☐present ☐absent
WT1 (315): ☐ present ☐ absent	**WT1 (-15, -16):** ☐ present ☐ absent **WT2 (-8):** ☐ present ☐ absent
MUT1 (S315T1): ☐ present ☐ absent **MUT2 (S315T2):** ☐ present ☐ absent	**MUT1 (C15T):** ☐ present ☐ absent **MUT2 (A16G):** ☐ present ☐ absent **MUT3A (T8C):** ☐ present ☐ absent **MUT3B (T8A):** ☐ present ☐ absent

Second line LPA

gyrA:--	**gyrB:----**	**rrs:-----**	**eis:-----**
locus control: ☐ present ☐ absent	**locus control:** ☐present ☐absent	**locus control:** ☐present ☐absent	**locus control:** ☐present ☐absent
WT1 (85-90): ☐ present ☐ absent **WT2 (89-93):** ☐ present ☐ absent **WT3 (92-97):** ☐ present ☐ absent	**WT1 (536-541):** ☐ present ☐ absent	**WT1 (1401-02):** ☐ present ☐ absent **WT2 (1484):** ☐ present ☐ absent	**WT1 (37):** ☐ present ☐ absent **WT2 (14, 12, 10):** ☐ present ☐ absent **WT3 (2):** ☐ present ☐ absent
MUT1 (A90V): ☐ present ☐ absent **MUT2 (S91P):** ☐ present ☐ absent **MUT3A (D94A):** ☐ present ☐ absent **MUT3B (D94N/Y):** ☐ present ☐ absent **MUT3C (D94G):** ☐ present ☐ absent **MUT3D (D94H):** ☐ present ☐ absent	**MUT1 (N538D):** ☐ present ☐ absent **MUT2 (E540V):** ☐ present ☐ absent	**MUT1 (A1401G):** ☐ present ☐ absent **MUT2 (G1484T):** ☐ present ☐ absent	**MUT1 (C-14T):** ☐ present ☐ absent

Final LPA Interpretation: ---

MTB result   ☐ MTB positive ☐ MTB Negative
RIF   ☐ Sensitive ☐ Resistant ☐ Indeterminate   **INH**   ☐Sensitive ☐Resistant ☐ Indeterminate
Quinolone   ☐ Sensitive ☐ Resistant ☐ Indeterminate   **SLID**   ☐Sensitive ☐Resistant ☐ Indeterminate

Date Result: _____ Date Reported:_____ Reported by:_____
(Name and Signature)

Drug Susceptibility Test (DST) results

Lab Sr.No	1st line drugs						SLI			FQ			Other							
	R	H (inhA)	H (katG)	S	E	Z	Km	Cm	Am	Lfx	Mfx (0.5)	Mfx (2)	Eto	PAS	Lzd	Cfz	Clr	Azi		

Date Result: _____ Date Reported:_____ Reported by:_____
R: Resistant; S: Susceptible; C: Contaminated; -- Not done   **(Name and Signature)**

Other tests for TB diagnosis

Test (Please Specify): _____
Result:_____
_____
Date reported:_____   Reported by:_____
(Name and Signature)

TB Laboratory Register

Lab. Serial No.	Date of collection of first specimen	Name (in full)	Age	Sex M/ F/TG	Complete address (for diagnosis patients) & Phone No.	Key Population[1]	Name and type of referring health facility[2]	Reasons for Examination						
								Presumptive TB / RE / Presumptive NTM	Predominant symptom[3] & its duration[4]	History of >1 month ATT (Yes/No)	Follow-up			
											Nikshay ID	Regimen New (N) / Previously Treated (PT)	Month	Post Treatment follow up month

[1] Key population – 1. Contact of TB/DRTB case, 2. Tobacco, 3. Prison inmates, 4. Miner, 5. Migrant, 6. Refugee, 7. Urban slum, 8. Health-care worker, 9. Other (specify)
[2] Name of referring health facility-PHI/DMC/TB/DTC/ICTC/ART/Medical College/DR-TB centre / Private/ Others, specify
[3] Predominant symptoms: Cough-C, Fever-F, Haemoptysis-H, Weight loss-W, Night Sweat - N Others-O, No symptoms - NS
[4] Duration of predominant symptoms should be recorded in days

Type of specimen	Visual appearance[5]		Results		Date of Result	HIV status (Reactive/ Non Reactive/ Unknown)	Diabetic status (Diabetic/ Non Diabetic/ Unknown)	Sample for DST sent (Y/N) with date	DST result[7] (write the drugs to which resistance is demonstrated)	NIKSHAY ID (notification no.)	Treatment initiation details (TB No. & TU details) / Referral for treatment	Signature	Remarks[8]
	a[6]	b[6]	a[6]	b[6]									

[5]Visual appearance- mention M, B, or S., Mucopurulent, Blood stained or Saliva

[6]a- stands for supervised spot sample, b- stands for early morning sample

[7] Sensitive= if sensitive to tested drugs, Name of drug if resistant to any – R= Rifampicin, H=Isoniazide, E=Ethambutol, Z=Pyrazinamide, SM=Streptomycin Lx=Levofloxacin, Mx (0.5) or (2) =Moxifloxacin, Km=Kanamycin, Cm=Capreomycin, Am=Amikacin, Eto=Ethionamide, Lzd=Linezolid, Cfz=Clofazimine

[8] Remarks column can include date of starting treatment, treatment regimen, TB no., referral details with date, remarks on un blinded rechecking, etc.