**Proposal for Lab and Diagnostic Information System**

Investigation Module will be designed to streamline the diverse activities of laboratories in the areas of Biochemistry, Micro-biology, and Pathology etc. It also covers radiological functions and investigative procedures. Investigation module also captures information related to various investigations required for the routine functioning of the hospital.

Investigation Module has Diverse and typical tests configurable across multiple laboratory (Bio chemistry, Pathology etc), enhanced UI with Bookmarking Facility for Doctors and Lab Technicians, Management of Large Scale patient Data for lab reports, SMS/Email alerts, Investigation Report Archival.

**Processes Covered:**

* Provision of combining into single process.
* Requisition Raising (Online/Offline) and Billing Test Sample collection and Bar-coding.
* Sample Acceptance (Integrated with lab machines) /Patient acceptance (X-ray, USG).
* Result Entry (Integrated with machine for auto entry).
* Result Validation and Revalidation.
* Report Printing, Archival of Reports and Online Report Viewing.

**Process Flow:-**

1. Patient Registration

This is the first step used for registering the patient.

1. Investigation Raising

This step is used for generating the requisition for laboratory test for the patient.

# **3. Sample Collection**

# This step is used to collect samples of the patient in the hospital. The samples can be collected only for registered patients and for the outside patients. An SMS is sent to the patient on his/her registered mobile number mentioning that the sample has been collected.

# **4. Result Entry**

# This step is used to enter the result of tests which were performed in laboratories. Result entry can be done either manually or values can be uploaded directly by the integrated LAB Machines.

# **5. Result Validation**

# This form is used to validate the results which were entered by the result entry technician or uploaded by integrated LAB Machines. The result validation is done to verify the results or to correct the mistakes which were happened during the result entry. There are two options in the result validation one is to validate the results and second is to modify the results. Modification of results is done in that case if the result entered /uploaded is incorrect.

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# **6. Result Report printing**

# This form is used to print result report. Final result of the report is printed after the result re-validation process. An SMS is sent to the patient that his / her test report is ready.

# **7. Duplicate Result Printing**

# This form is used for the duplicate result printing. Duplicate result printing is done in case patient looses the original report of results.

It will be implemented in all District Hospitals

# Requirement:

# Computer Operator - 2 for Lab in each District Hospital.

# Budget Proposal

|  |  |  |
| --- | --- | --- |
| Salary of Computer Operator | 10,000 per month |  |
| Cost of 1 District Hospital | 2\*10,000 | 20,000 |
| Cost for 22 District Hospitals | 22\*20,000 | 4,40,000 |
| **Cost for 1 Year** | **4,40,000\*12** | **52,80,000** |
| **Operational Cost** |  |  |
| Expenses | 1000 per DH |  |
| Cost for 22 District Hospitals | 22\*1000 | 22,000 |
| **Cost for 1 Year** | **22,000\*12** | **2,64,000** |
| **Total Cost** |  | **55,44,000** |