



## MDMS (Medical Diagnostics Management System)

# Laboratory Information System

The Laboratory Information system module is used by the pathology lab to record and disseminate the information regarding the tests performed. The Laboratory department receives online request from doctors and also allows laboratory personnel to generate requests. The Laboratory module supports to perform various tests under the following disciplines: Biochemistry, Cytology, Hematology, Microbiology, Serology, Neurology and Radiology. Tests are grouped under various sections and sample type (specimen). Based on the request the user can input the sample and generate the sample number and get a sample number printed. Results can be entered based on the sample type either to one test or multiple tests. If the test result requires approval, the supervisor has to approve the result and it is made available to concerned doctors.

### Unique Features of Laboratory Information System:

- Online receipt of request for investigations.
- Search by using unique patient ID/Record ID/ Name /between any two Dates.
- Information gathering about date of Visit, Referred Doctor name etc.
- Auto generation of sample number for subsequent samples.
- Printing of stickers with bar codes for sample identification.
- Separate & Modified way to handle Culture & Sensitivity.
- Complete Inventory Management.
- Generate Test Reports and receipt generation for printing
- Real time communication of the test result to the Clinicians.
- Normal & abnormal test result values are differentiated on screen & on printouts.
- Doctor's referrals and amount collected from relevant patients.
- Records of Incentives are also calculated doctor wise & can be analyzed between any two dates.

It comprises a wide range of computer programs which stores, manages as well as process data from different stages of medical tests and processes. Lab technicians or physicians take the help of LIS for supervising several varieties of outpatient and inpatient testing, microbiology, immunology etc. Generally LIS offers features to manage result entry, patient's check-in, patient demographic etc. Using laboratory management software, organizations can provide excellent and outstanding services to the customers. LIS are mostly the part of integrated informatics which includes several disparate applications.

Laboratory Information system is a highly configurable system which offers huge variety of workflow models too. There are several vendors offering full Laboratory Information system services and solutions for handling all needs of hospitals and other specific modules. There are



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different variations of LISs available depending upon the types of lab work. Its use is a critical IT spectrum of clinical department and is mainly aimed to offer overall care to the patients. Its use has satisfied lots of users and it has received good response too.

## Radiology Information System

Electra HMIS is a modern software and best around when it comes to dealing with Imaging. It offers to capturing images directly from Radiology Machines and converts them in JPG images for the purpose of displaying and storing them into Computer systems or networked Server. It then integrates medical imaging results into the complete clinical data flow of a patient from registration to final billing. The Images thus stored in the system can be labeled and printed using a standard PC and a normal printer. The Images can also be sent in electronic format by e-mail for action or consultation or published on a website for various purposes. This in fact saves on time and cost on manual report.

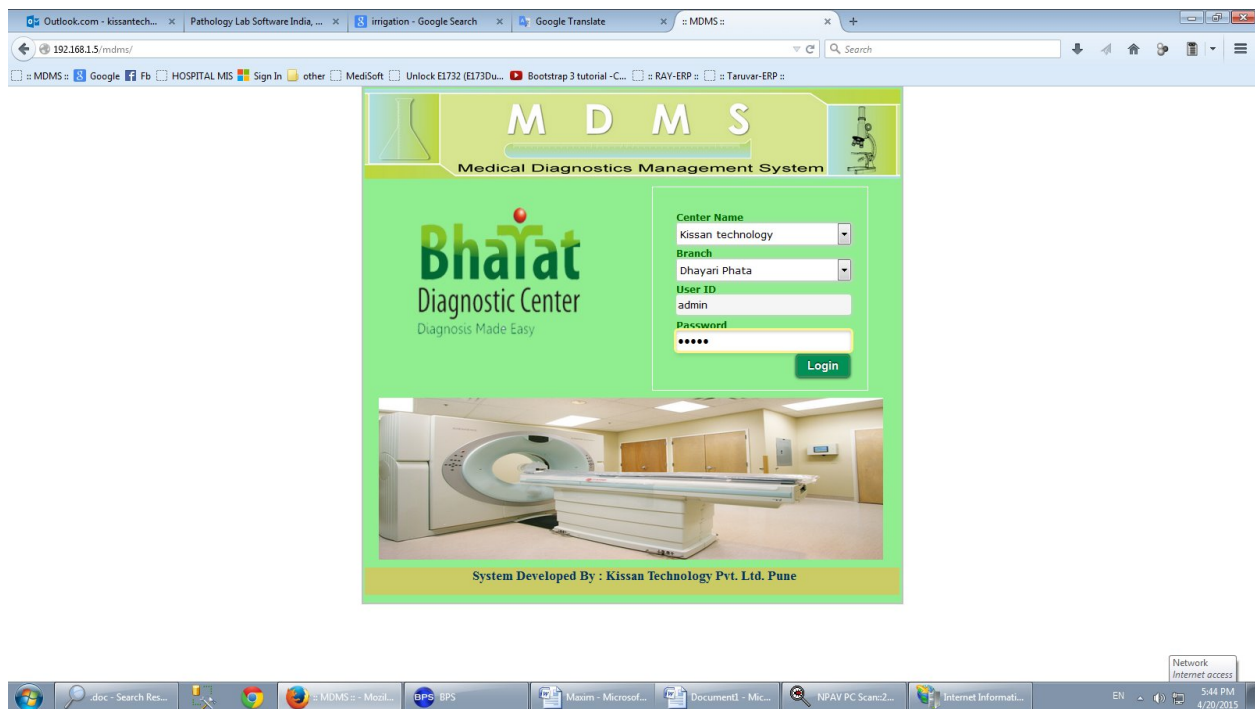
### Features of Radiology Information System Module

- Provision to club radiology images with the EMR of the patient.
- Provision for advance booking of the Diagnostic equipment.
- Real time communication of results to clinicians.
- Clinical decision support tools at the point of care.
- Predefined report formats for various tests.
- Provision to send images via E-mail to other hospitals and/or patients.
- Charts for monitoring patients of Nuclear Medicine.
- Indicators to highlight abnormal findings.
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# MDMS (Medical Diagnostics Management System)

## Screen Shot





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The screenshot shows the MDMS Main Panel. At the top, there is a navigation bar with links for Google, Facebook, HOSPITAL MIS, Sign In, other, MediSoft, Unlock E1732 (E173Du...), Bootstrap 3 tutorial - C..., RAY-ERP, and Taruvar-ERP. The main header features the text "Medical Diagnostics Management System" and "Report At Ease" next to the "Bharat Diagnostic Center" logo. Below the header, there are three circular icons representing "DIAGNOSTIC CENTER", "INVENTORY", and "USER MANAGEMENT". The "DIAGNOSTIC CENTER" icon lists: Lab Management, Patient Information, Collection Center Info, and Account Management. The "INVENTORY" icon lists: Item Details, Stock Details, Auto Stock Level, and Item Status. The "USER MANAGEMENT" icon lists: User Information, Role Authorization, Role Policy, and User Status. At the bottom of the main panel, it says "Kissan Technology Pvt. Ltd. Pune".

The screenshot shows the MDMS Patient Registration/ Test Work Status page. The page has a navigation menu with items: Admin, Masters, Registration, Test Accession, Patient Result, Report, Authorization, and Search. On the left, there is a sidebar with user information: Welcome: Admin, Hospital Name: Kissan technology, Branch: Dhayan Phata, Login Date: 4/20/2015, Login Time: 5:44 PM, Change Password, Logout, and News. The main content area is titled "Sample Status" and contains a search form with fields for "Select Center Name" (Kissan technology), "From Date" (20/04/2015), "To Date" (20/04/2015), "Status" (All), "Patient ID/ Name", and "Mobile No". Below the search form is a table with the following columns: Patient Id, Patient Name, Age, Entry Date, Mobile No, Doctor Name, Bill Amount, and Balance Amount. The table is currently empty, and the text "Total Records : 0" is displayed above it. At the bottom of the page, there is a footer with the text "© 2014-2015, All Rights Reserved by Kissan Technology" and "System by : Kissan Technology Pvt. Ltd."

The screenshot shows the Windows taskbar at the bottom of the screen. It includes the Start button, a search bar, and several open applications: .doc - Search Res..., Diagnostic Center..., BPS BPS, Maxim - Microsof..., Document1 - Mic..., NPAV PC Scanc2..., and Internet Informati... The system tray on the right shows the date and time as 5:44 PM on 4/20/2015.



# MDMS (Medical Diagnostics Management System)

Outlook.com - kissantech... Pathology Lab Software India, ... Irrigation - Google Search ... Google Translate ... MDMS ...

192.168.1.5/MDMS/PatientRegistration/DirectPatientRegistration.aspx

MDMS :: Google Fb HOSPITAL MIS Sign In other MediSoft Unlock E1732 (E173Du... Bootstrap 3 tutorial -C... RAY-ERP Taruvar-ERP

Admin Masters Registration Test Accession Patient Result Report Authorization Search

Welcome : Admin

Hospital Name: Kissan technology

Branch: Dhayari Phata

Login Date: 4/20/2015

Login Time: 5:45 PM

Change Password

Logout

News

1. Sunday center is closed so enjoy the weekend

2. dd

### Direct Patient Registration

Show Me List

Center Name : Kissan technology Patient ID : 0000754 Sub ID : 754-2  Select Existing : 754-1Rakesh Sharma

Patient Name\* : Mr Rakesh Sharma Age\* : 33 Year Gender\* : Male

Ref. Doctor :  Enter Referral Doctor Ref Customer : Mobile No :

Email-ID : Address : Pune Clinical History :

Barcode : Remark :

Lab Test Sonography X-Ray UserName : Rakesh754 Password : bdc123 Active/Deactive

Select Test / Profile \* :

Haematology  HIV I AND II ANTIBODIES

Biochemistry  Dengue IgG and IgM Antibodies

Serology Report  Dengue NS1 Antibody

Serology

Clinical Pathology

Cytology

Microbiology

Test/Profile Code	Test/Profile Name	Rate	Delete
BLG	Blood Group	100	
PTC	Platelets Count	100	
AEC	Absolute Eosinophil Count	100	
BTT	Bleeding Time	100	
DNS	Dengu NS1 Antibody	400	
HIV	HIV I AND II ANTIBODIES	350	

Total Amount in Words : One Thousand One Hundred and Fivety only

Disc. Amt Per : Rs. Total Bill : 1150

Advance Paid : Balance : 1150

New Save Modify Close

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Taskbar: .doc - Search Res... MDMS - Mozil... BPS Maxim - Microsof... Document1 - Mic... NPAV PC Scanc2... Internet Informati... Network Internet access 5:46 PM 4/20/2015



# MDMS (Medical Diagnostics Management System)

Outlook.com - kissantech... Pathology Lab Software India, ... irrigation - Google Search Google Translate MDMS : 192.168.1.5/MDMS/Accession/DirectSpecimanCollection.aspx

MDMS : Google Fb HOSPITAL MIS Sign In other MediSoft Unlock E1732 (E173Du... Bootstrap 3 tutorial -C... RAY-ERP : Taruvar-ERP :

Admin Masters Registration Test Accession Patient Result Report Authorization Search

### Direct Speciman Collection

Welcome : Admin  
Hospital Name: Kissan technology  
Branch: Dhayani Phata  
Login Date: 4/20/2015  
Login Time: 5:46 PM  
Change Password  
Logout  
News  
1. Sunday center is closed so enjoy the weekend  
2. dd

Select Center Name :

From Date :  To Date :

Patient ID/ Name :  Mobile No :

Total Records : 1

Patient ID	Patient Name	Referral Doctor	Age	Test Names	Barcode	Bulb Types	Accept/Reject	Submit	Submit & Enter
754-2	Rakesh Sharma	Dr.Dr Nilima Hulage	33-Year	Blood Group , Platelets Count , Absolute Eosinophil Count , Bleeding Time , Dengu NS1 Antibody , HIV I AND II ANTIBODIES		<input type="button" value="Select Bulb Types"/>	<input type="button" value="Accept"/>	<input type="button" value="Submit"/>	<input type="button" value="S &amp; Enter"/>

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Taskbar: .doc - Search Res... MDMS - Mozil... BPS BPS Maxim - Microsof... Document1 - Mic... NPAV PC Scanz2... Internet Informat... Network Internet access 5:46 PM 4/20/2015

Outlook.com - kissantech... Pathology Lab Software India, ... irrigation - Google Search Google Translate MDMS : 192.168.1.5/MDMS/PatientResult/TestResultEntry.aspx

MDMS : Google Fb HOSPITAL MIS Sign In other MediSoft Unlock E1732 (E173Du... Bootstrap 3 tutorial -C... RAY-ERP : Taruvar-ERP :

Admin Masters Registration Test Accession Patient Result Report Authorization Search

### Sample Worksheet

Welcome : Admin  
Hospital Name: Kissan technology  
Branch: Dhayani Phata  
Login Date: 4/20/2015  
Login Time: 5:47 PM  
Change Password  
Logout  
News  
1. Sunday center is closed so enjoy the weekend  
2. dd

From Date :  To Date :

Patient ID/ Name :  Mobile No :

Doctor Name :  Test Name :

Total Records : 1

Sub ID	Patient Name	Age	Referral Doctor	Test Names	Status
754-2	Mr. Rakesh Sharma	33-Year	Dr.Dr Nilima Hulage	Blood Group , Platelets Count , Absolute Eosinophil Count , Bleeding Time , Dengu NS1 Antibody , HIV I AND II ANTIBODIES	Accepted

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Taskbar: .doc - Search Res... MDMS - Mozil... BPS BPS Maxim - Microsof... Document1 - Mic... NPAV PC Scanz2... Internet Informat... Network Internet access 5:47 PM 4/20/2015



# MDMS (Medical Diagnostics Management System)

Outlook.com - kissantech... Pathology Lab Software India, ... irrigation - Google Search... Google Translate... MDMS ::

192.168.1.5/MDMS/PatientResult/ActualTestEntryForm.aspx?0

MDMS :: Google Fb HOSPITAL MIS Sign In other MediSoft Unlock E1732 (E173Du... Bootstrap 3 tutorial -C... RAY-ERP :: Tarunar-ERP ::

Admin Masters Registration Test Accession Patient Result Report Authorization Search

Welcome Admin

Hospital Name: Kissan technology

Branch: Dhayan Phata

Login Date: 4/20/2015

Login Time: 5:47 PM

Change Password

Logout

News

**Enter Test Result Entry**

Patient ID : 754-2 Patient Name : Mr. Rakesh Sharma Age : 33-Year Sex : Male

Haematology  Serology  Blood Group  Platelets Count  Absolute Eosinophil Count  Bleeding Time

Test Name	Test Result	Normal Value	Remark	Authorization
Blood Group	5			<input type="checkbox"/> Authorize
Platelets Count	15555	150000-400000		
RESULTS	RECS AND ECKER			
METHOD				
Absolute Eosinophil Count	130	40-400		
Bleeding Time	3	1-5		

New Save Preview & Save Close

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Outlook.com - kissantech... Pathology Lab Software India, ... irrigation - Google Search... Google Translate... MDMS ::

192.168.1.5/MDMS/Search/SearchPatient.aspx

MDMS :: Google Fb HOSPITAL MIS Sign In other MediSoft Unlock E1732 (E173Du... Bootstrap 3 tutorial -C... RAY-ERP :: Tarunar-ERP ::

Admin Masters Registration Test Accession Patient Result Report Authorization Search

Welcome Admin

Hospital Name: Kissan technology

Branch: Dhayan Phata

Login Date: 4/20/2015

Login Time: 5:49 PM

Change Password

Logout

News

Search Patient Here.

From Date : 20/04/2015 To Date : 20/04/2015

Patient ID : Mobile No :

Total Records : 1

Pat. Subid	Pat. Name	Ref. Doctor	Test Name	Bill Amount	Amount
754-2	Mr. Sha	Dr. Dr Nilima Hulage	Absolute Eosinophil Count, Bleeding Time	1150.00	1150.00

Select Test To Print.

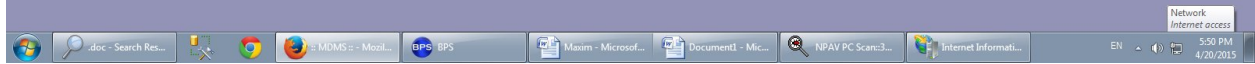
Patient Name : Mr. Rakesh Sharma  
Sub ID : 754-2 Age : 33-Year  
Ref. Doctor : Dr. Dr Nilima Hulage

Sub Department  Test Name

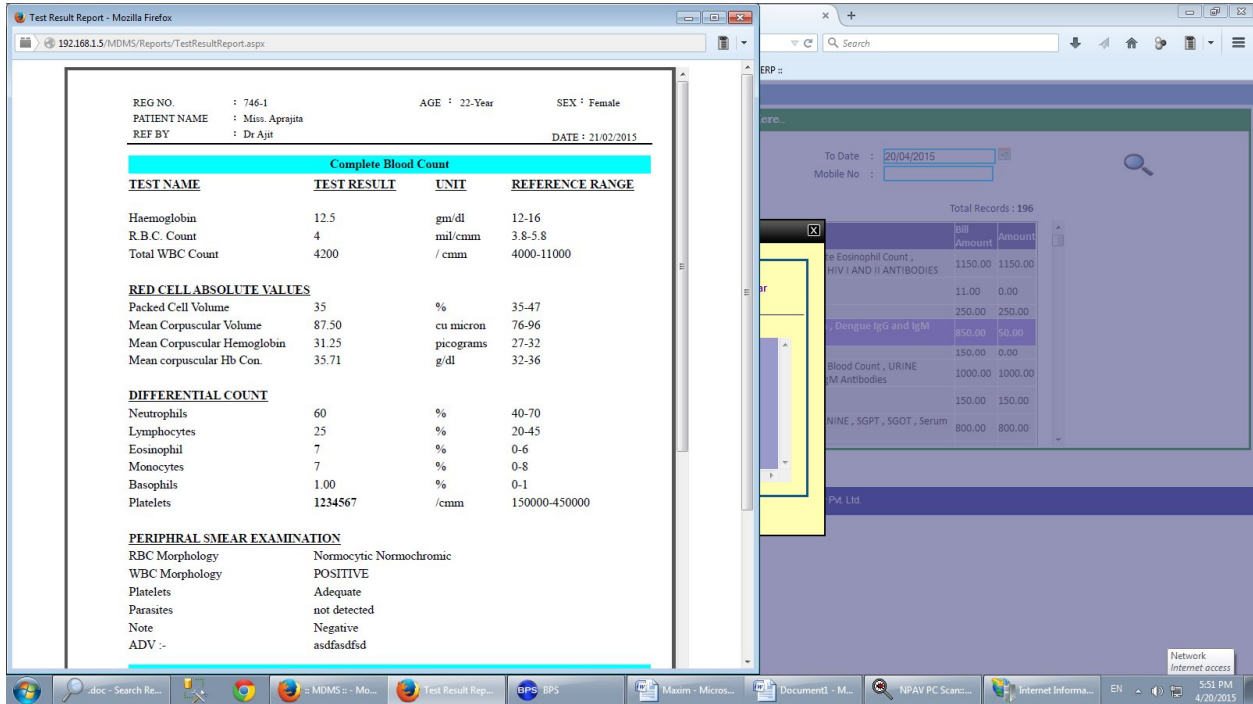
Haematology  Blood Group  Platelets Count  Absolute Eosinophil Count  Bleeding Time  Dengu NS1 Antibody  HIV I AND II ANTIBODIES

Sign On Print Preview

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The screenshot displays the MDMS software interface. On the left, a 'Test Result Report' window shows patient details and a complete blood count. On the right, a main window displays a search interface and a billing summary table.

**Test Result Report - Mozilla Firefox**  
 192.168.1.5/MDMS/Reports/TestResultReport.aspx

REG NO : 746-1      AGE : 22-Year      SEX : Female  
 PATIENT NAME : Miss. Aprajita  
 REF BY : Dr. Ajit      DATE : 21/02/2015

**Complete Blood Count**

TEST NAME	TEST RESULT	UNIT	REFERENCE RANGE
Haemoglobin	12.5	gmi/dl	12-16
R.B.C. Count	4	ml/cmm	3.8-5.8
Total WBC Count	4200	/cmm	4000-11000

**RED CELL ABSOLUTE VALUES**

Packed Cell Volume	35	%	35-47
Mean Corpuscular Volume	87.50	cu micron	76-96
Mean Corpuscular Hemoglobin	31.25	picograms	27-32
Mean corpuscular Hb Con.	35.71	g/dl	32-36

**DIFFERENTIAL COUNT**

Neutrophils	60	%	40-70
Lymphocytes	25	%	20-45
Eosinophil	7	%	0-6
Monocytes	7	%	0-8
Basophils	1.00	%	0-1
Platelets	1234567	/cmm	150000-450000

**PERIPHERAL SMEAR EXAMINATION**

RBC Morphology : Normocytic Normochromic  
 WBC Morphology : POSITIVE  
 Platelets : Adequate  
 Parasites : not detected  
 Note : Negative  
 ADV :- asdfasfd

**ERP**

To Date : 20/04/2015  
 Mobile No : [Search]

Total Records : 196

	Bill Amount	Amount
Eosinophil Count , HIV I AND II ANTIBODIES	1150.00	1150.00
	11.00	0.00
	250.00	250.00
Dengue IgG and IgM	550.00	50.00
	150.00	0.00
Blood Count , URINE M Antibodies	1000.00	1000.00
	150.00	150.00
NINE , SGPT , SGOT , Serum	800.00	800.00

Pvt. Ltd.

Network Internet access  
 5:31 PM 4/20/2015