

Employers' Requirement List

Admin Module

- User Management
- Creation and updating of users
- Assigning user rights
- General Masters Management
- Hospital Admin Management
- Hospital Billing and Rates Management
- Insurance Policy Master
- Insurance Policy Master
- Pre-Registration
- IP Registration
- OP Registration
- Outside Patient Registration
- OP-IP Conversion
- Edit of registration details
- Medico Legal cases registration
- Printing of registration cards
- Admission profile
- Follow up information for OP and IP visits
- Bulk registration of camp patients using Excel file

Required Features

- Printing of bar codes for patient numbers
- Mandatory uploading of scanned insurance cards (based on settings)
- User created registration fields
- Photo capture
- One click registration and payment receipt for fast OP registration
- User definable OP consultation types, giving flexibility to take care of homecare visits, emergency consultations, etc.
- Optional multiple OP registration at the same time to let patients get different treatments under different insurance cards
- Generates a Medical Record number for the patient which will be unique throughout his visits to the hospital.
- Monitor the patient's progress by the doctor by viewing the records of the patient's earlier visits.
- Automatic updating of all relevant files, and electronically communicates/ send alerts to the various departments.
- Customization of all data required by the clinic (e.g. doctor's data, consultation, fees, diagnosis databases, reports, etc.)
- Efficient handling of patient care by tracking every step from appointment booking to consultations to drugs dispensation to final billing.

Appointment and Scheduling Module
This module is master scheduler that is used to schedule all schedulable items in the hospital.
Required Features
• Schedules appointments
• Blocks appointment slots
• Reserves an empty time slot for a patient
• Automatically searches for the earliest available appointment
• Provides appointment slips/sms to patients mobile to give details of the patient and department along with date, time and place of appointment
• Makes a list of patients scheduled for appointments during a given period of time
• Appointments which cater to similar case investigations are grouped together
• Cancel the appointment already given to a patient
• Automatically gives cancelled appointment slot to the next patient in queue
• Auto SMS reminder to all the appointees on the day of appointment
• Auto SMS configurable
• Intergrate with the web site to enable online appointment booking
• Concise and accurate information on patient's appointment.
• Scheduling of appointments for users to view the list of patients.
• View Individual appointment books for each physician with respect to the specialty.
• Decentralized appointment booking, accessible to Hospital staff based on log in permissions
• Cancel and Reschedule appointments
• View, track and print appointments
Stores and Purchase Management
The Inventory Management module oversees the data related to procurement of materials, stocks maintenance, distribution, reorders etc. Material Resource Planning (MRP) Management, material forecast, material issues management, and reporting and enquiry.
Inventory Management
• Sales and Issues – Pharmacy Sales, Sales return, Pending prescriptions for sales, Duplicate sales bills, Sales reports, Pending credit bills, Estimates for medicines, Issues to patients and Returns from patients, Issues to users and returns from users, Stock details.
• Procurement – Stock entry, GRN entry, LPO creation, Approval Pos, Supplier returns/replacements with debit note facility,
Purchase details reports
• Store Management – Raise indent, approve indent, process indent and receive indent, Stock transfers, Stock adjustment, Assets
approval, Stock checkpoint, Stock ledger, Audit log for stores transactions
Required Features
• Generating or recording of bar codes for items. This ensures the items are tracked easily
• Multiple sub-stores and restrictions on which users can work and access stores
• Checkpoint facility for easy stock checking
• Item categorization for easy analysis of various types of stock
• Facility to track fixed assets
• Linkage of fixed assets to Maintenance and Contracts module.
• Item Master Details
• Vendor Master Details
• Area Master
• Supply Order Entry
• Invoice Detail Entry
• Items received from the supplier inspected and to be added to the stock.
• Indenting items by various sub location stores from the central store.
• Issue of Items from the Central Store
• Issue of items by the sub-location Stores
• Gate Pass and Entry Pass for outgoing items of the hospital.
• Goods Arrival Report, Discrepancy Report, and Stock Report.
• Provides up to date information on current stock levels and location

• Records, controls and values stock items
• Schedules for stock taking
• Reimbursement of stocks levels for the user departments
• Reports to identify fast and slow moving stock items
• Downloads stock list to handheld devise (including barcodes) for semi-automated stock take
• Goods receive reports(GRRS)
• LPO's for stock items sourced locally and from outside the country
• Stock codes, Unit of measurement, Description, Unit Price, Delivery lead time, Location by store, Picture and Barcode
• Details of supplier including Names & Addresses& Items supplied
• Re-Orders levels for each stock item
• Inventory status for each stock items
• Stock transfer notes between stores and between bins with in a store
• Transaction which must be identified by individual transaction details
• Inter store and inter-bin transfers
• Miscellaneous issues and receipts
• Issue of items on FIFO policy on consumption of stock
• Update stock balances against receipts, consumption and rejects
• Date and quantity of last issue and receipt, forecast requirement, re-order lead time, cost specifications etc.
• Support for import of drugs and other stock items
• Stock movement history for a user defined period
• Enquiry on stock status across single or all locations
• Supports purchase order tracking & purchase assistance information
Reports:
• Transaction history for a user defined period, by LPO
• Stock item quantity balance, allocated balance and net available
• Analysis of highest, lowest and current purchase price per item and material for a user defined period
• Monthly stock items valuation report
• Economic order quantity analysis
• Over-Stocked items based on forecasts for a user defined period
• Slow moving stocks at the end of a month
• Future stock levels predicted by period
• Stock turnover report, price variation report and graph over a user defined period
• Stock items with potential for stock outs i.e. lower stock than the re-order level
• Monthly stock report including opening stock , stock on order, re-order level , total receipt, total consumption, stock over, closing stock
• Actual lead-time analysis per stock item and supplier
• Pending & overdue orders, suggested orders, suppliers performance, purchase budgets and variances
Billing
Patient Billing module involves posting into individual accounts, printing vouchers, preparation of bills, generation of Income and Expenses Analysis, etc. This can be integrated with the Reception for Bill Collection, Pharmacy-Center for details of Medicines issued, Wards Management for details of tests / treatments etc.
Required Features
• Creation of various rate plans
• Creation of various service heads
• Creation of cash bills and credit bills
• Payment of advance bills.
• Discounts and rate changes
• Insurance or corporate bills
• Payment options through credit card, bank transfers (SWIFT).
• Printing of bills
• Verification of billing transactions
• All billing transactions from the point of registration to the stage of discharge/completion of a visit.
• Flexible billing based on specific hospital rules
• Accounts receivable and GL modules to the post invoices and customer receipts.
• Patient billing group

• Billing rules for insurance patients
• Bills generated for each patients at individual transactions/function levels or by service
• Bills generated at predefined intervals during the period of stay or on discharge and after discharge
• Integrates with account receivables module to post invoices and customer receipts
• Billable charge calculated based on the billing rules setup
• Sufficient cashier function available to process all point of receipts and refunds
• Automatic calculation of total/partial patient bills
• Outpatients bills for all the services
• Additional discounts percentage of the amount after generation of bill prior to printing
Reports:
• Invoices
• Billing history report per patient
• Cash counter wise/shift wise statements on collections and reports
• Departmental/hospital wide collection reports for any period of time
Accounts Receivable
Capture, store, and retrieve any type of billing information along with monitoring collections and follow-up of dues.
Required Features
• Facilitates matching of cash received to sales invoices
• Updates the GL automatically for summarized cash received transactions
• Monitors credit control debt collection by all the company debtors
• Effective credit control and collection of debtors by generating age wise dues lists
• Credit ratings for Insurance companies and HMOs
• Access to all client account information (individuals, Insurance, corporate clients, etc.)
• Invoice, debt credit note details
• Online cash receipts or check details
• closure or deletion of accounts
• Transaction process by updating the debtors account and total value of transaction
• Provide ability to raise sundry debits and credits notes, including the automatic generation of relevant posting to the GL
• Statement of invoices falling due from customers
• Cash collection forecasts for all amounts outstanding
• Amending dispute invoices
• Credit application against invoices
Reports:
• Listing of invoices due for debt collection
• Monthly debtor statement
• Monthly list of debtors account with credit balances
• Weekly list of suspended accounts
• Daily collection on the total issues of credit invoices
Contract Management
This module handles credit patients billing charges /collections to /from different categories of patients online, for the services rendered by the health care unit across its network. Integrated with Finance module, it enables raising, credit bills, production of bills, statements, claim forms etc. for insurance covered patients, etc.
Required Features
• Management of all types of contracts including Insurance, corporates, organizations etc.
• Credit billing
• Integration with Financial Accounting module
• Entry of agreements/contract/tie-up with corporate/insurance including tariff, package and surgery
• Insurance Company details, patient insurance details like expiry/ validity of insurance limits etc
• Types of bed- eligibility services, packages inclusive /exclusive of pharmacy, O.T consumable items.
• Service-wise, company-wise tariff details.
Reports:
• Package / Company / Service wise tariff details & their limits
• Account wise patient details, claims processed etc
Medical Records Modules

This module will maintain a detail record of each patient who will be registered or admitted to the hospital. The patient medical record containing treatment details, investigations, pharmacy requirements, procedure and surgery details and the discharge summaries.

Out-Patient Management

This module is for the OP consulting doctor to enter the doctor's observations, notes and do prescriptions. Following are the facilities available as part of this module.

- Triage or vital parameters entry by nurse prior to doctor seeing the patient
- Doctors notes (customizable for each doctor department with different headings)
- Entry of primary and secondary diagnosis with ICD Codes
- Prescriptions for tests, medicines and other services
- Linking of Predefined Diagnosis with set of Medicine
- Cross refer to another doctor inside and outside the hospital
- IP admission referral
- Recording of patient information through customizable case forms
- Patient EMR view and patient information dash board view

Required Features

- List of registered outpatient as per appointment schedule
- Prints investigation requisition forms
- Creation and maintenance of patient visit records
- Sourcing of patient registration details
- Access to patient records for treatment update/case notes/investigation results/medication
- Maintains single record for patient visit
- Interface to other departments (pharmacy, laboratory, admission, wards and accounts department)
- Prints reports (visit record, investigation reports, medical certificates, insurance bills etc.)
- Allots beds to the patients waiting to be admitted
- View and print OPD summary, Investigation reports, patient statistics
- Preview and print patient history
- Stock control of clinic equipment and consumables
- Ordering of stocks and supplies from main stores
- Order stocks information and reorder levels
- Tracks and places order for linen with housekeeping, maintenance request
- Audit of services offered and used by patients and billing against the same.
- Sorting of invoices by department code
- Staff schedule according to a shift-system
- Managing staff leave plans

Reports

- Run standardized and customized reports
- Monthly, Quarterly & Annual Reports on patient statistics
- Monthly, Quarterly & Annual Report on stock control

In-Patient Management/ ADT (Admission, Discharge and Transfer) Module

The main purpose is to manage the various IP activities.

- Doctors visits and Doctor prescriptions
- Prescribe and order
- Diagnostic tests
- Services
- Medicines
- Lab tests
- Diet
- OT
- Bed Allocation
- Bed shifting
- Bed Bill finalization
- Bed release
- Bed blocking
- Bed utilization view

• ICD Codes
• CPT Codes
• Patient demographics
• Shift-wise Nursing staff allocation
• Generic Documents like birth, death and medical certificates
Required Features
• Manages hospital patient admission, discharges and transfers
• Registers first-time patients in the Patient Index
• Calls up existing patient records and updates them as required
• Groups and manages multiple admissions data on a per patient basis
• Manages the bed-availability status across the hospital
• Generates patient admission labels/wristbands with the unique patient registration numbers
• Manages a waiting list for admission according to case priority and classification of treatment
• Support registration into the Patient Index which includes: mode of arrival, symptom, anatomical site affected, duration of complaint, type of accident etc.
• Supports entry of triage details into the patient's medical records
• Patient treatment details and discharge details including information about discharge by death
• Linking of A & E service request to pharmacies, laboratory, radiology, Patient Billing and Cashier functions, Wards, ICU, OT and
Accounts functions
• Manages follow-up appointments, reservations for day surgery, ICU, OT and Ward admission
• Admissions and discharges information in order to obtain information about ward/bed availability
• Bill generation after patient is served and issue a receipt after payment of the bill
• Calls up existing patient records and updates as required
• Groups & manages multiple admissions data per patient
• Generate filled admission form
• Stores and retrieves details of all medical/patient records
• Issues & tracks the location and/or movement of records
• Flags overdue records and electronic files that are not in use
• Patient management at wards, OT, casualty, A&E, ICU, admissions & discharge, accounts etc.
• Provides information about birth/death register & statistics, mortality statistics by date, ward
• Provides information about bed occupancy statistics
• Provides statistics about Accident and Emergency, ICU, Radiology, Laboratory, Operation Theatre,etc.
• During a transfer, automatically updates the vacated and occupied bed
• Enables cancellation of bed reservations or transfers
• Provides admission and discharge check list in order to raise alarms/flag
• Initiate discharge process
• Generate electronic discharge advice
• Interface with other departments to check if all charges accrued by patient have been posted accurately allow other departments to validate discharge slip
• Automatically updates bed availability after discharge
• Ability to view disease/Infection incidence and trends by diagnostic related coding
• Generates Doctor/Consultant activity reports
• Visit summaries, medications, reports of all Investigations and clinical Information
• Scanned records uploaded into the system
• Images and Films uploaded into the system
• Display of trend reports of lab results over a period of time in tabular or graphical way.
Reports
• Bed availability
• List of patients admitted, discharged, transferred by ward, doctor, date
• Type of admission by ward, doctor, date
• Trends in admissions by period, type
• Mortality reports (list of deaths by ward, doctor, date)
Finance and General Accounting Module

<ul style="list-style-type: none"> • This Module manages Cash / credit, receipts/payments, journal vouchers, ledgers etc. Various books of accounts are maintained using this module. Reports like trial balance, balance sheet and profit and loss statement etc are generated through this module.
Required Features
<ul style="list-style-type: none"> • Supports master chart of accounts for all entities and cost centers • Supports user-defined fields to classify individual accounts(i.e. assets, liabilities, expenses, other user defined codes) • Provides an alphanumeric, flexible account code structure • Maintains account descriptions (user-defined length) to assist with inquiry view and reporting • Adds/deletes/changes or activates /deactivates chart of accounts based on security level at each level • Provides totals for subgroups of accounts within chart accounts and consolidation accounts • Maintains the user responsible for account balancing • Assists with efficient cash management • Provides bank reconciliation facilities • Produces cheque and remittance advice • Maintains an up to date balances of bank accounts • Records all receipts and payments for the hospital • Generates posting for currency gain/loss • Provides detailed reports as specified by the hospital • Effective cash management and reminders to creditors by generating age wise credit list • Reconciling creditors statements • Updates the GL automatically for supplier transactions • Details of transactions with supplier • Credit notes printing of remittance advice notes • Supports electronic transfer facility for electronic payments • Standard reports allowing report presentations to be customized by individual users • Consolidation of reports through all significant levels of the chart of accounts • Reporting by department, group and activity • Allow posting in multiple user defined periods • Audit reports of all system transactions • Retain data for each GL account , Account balance, Current budget by period and year, Previous two years transactions and budgets
Reports
<ul style="list-style-type: none"> • Chart of accounts listing • Yearly budgets • Trial balance both the summary and the detail report • Income and expenditure statements • Balance sheet • Budget and actual comparison (variance) report
Personnel and Payroll
<p>To track the entire staff of the hospital and their personnel details. The system maintains the entire payroll system of the hospital. The staffs pay slips as well as addition and deductions to their salaries are maintained by the system. The system also keeps track of the staffs' paid and unpaid leaves.</p>
Doctors and Other Payments
<ul style="list-style-type: none"> • Payment Rules to Doctors • Payments to consulting Doctors • Payments to Vendors / Suppliers • Payments to any external labs that may be used • Miscellaneous payments
Referral Payments
<ul style="list-style-type: none"> • Referral doctor master • Payment rules to referral Doctors • Sales people assigned to referral Doctors, their targets and performance
Required Features
<ul style="list-style-type: none"> • Hospital payroll system • Online capture of information which will include the following

• Skills and competence data bank which can be updated from HR as staff attend various training programme for competence profiling
• Supports online application for vacant position both internally and externally
• Provides online leave application, online approval, scanned application forms certificate
• Provides inputs for Performance Management and employee relations
• Supports Electronic transfer facility for electronic payments
• Payroll adjustment: Salary increment, grade changes allowances, deduction etc
• Maintains ID, educational & training history details of the employee
• Maintains demographic details like next of kin, bank details, history and other payroll details
• Maintains job application data including contact databases, educational qualification, language, previous employment details
• Supports automated application evaluation, capture interview results, generate automated reply letters, capture security and medical results of all interviewed applicants and generate an automated letter of invitation
• Supports generation of staff cards automatically
• Capability to process leave requests, travel requests, promotion transfers, suspension, annual increment and termination
Reports
• A list of terminated employee master file and general employees master files
• Payroll variance analysis reports and other payroll reports including pay slips, pay Register, Bank statement(Summary & Details), Coinage analysis(Summary & Details), overtime report, leave without pay report, allowance analysis, deduction analysis, also
• Personnel report like contract expiry list, Salary data, Sick leave and absenteeism, Indemnity, leave accrual report
• Computation of final settlement
Personnel and Payroll
• Recruitment
• Position Management
• Multiple CV Definitions
• Screening and Filtering of CVs
• Interview and short listing
• Appointment Letters
Employee Information
• User-Definable Employee Master
• Joining, Appraisal Dates
• Passport and Visa information
• Vacation and Flight Sector Information
• Shift Information
• Earnings, Deductions and Leaves Information
• Attendance
• Daily/Hourly Attendance Entry
• Integration with Swipe Card Output
• Attendance by Site/Job
• Leave Information
• Payroll Processing
• Calculation of payroll from daily attendance
• Loans, Loss of pay deductions
• Posting of Payroll Entries to GL
• Vacation Salary
• Salary Slip and Bank Advice Reports
Security and Administration
Application and user level security to be administered by this module. The details of every staff member (user) will be maintained online and a username and password will be provided to each user so that they can log on to the system and perform functions/activities related to their respective department(s).
Required Features
• Users with proper access and rights can add, delete and modify records of the existing users t the system
• Saves all hospital transaction insert/updates with the user/login/In patient details inserted in the database to track the changes effectively
• Assigning of respective user rights

• Function restrictions based on access rights
• Maintain the log of a set of actions performed, based on the access privileges given to each user
MIS and Department Reports
The system provides various reports for management, department heads and users respectively. The reports can be viewed and can be printed both in Text or windows format.
Required Features
• Provides information form across the hospital organization
• Provides access to standard and customized reports
• Maintains and provides access to historical information and trends
• Ability to cross-relate, analyze and compare multifaceted data
• Provides specific information on predetermined performance indicators
• Parameters/variables to design customized reports
• Requests to departments for information
• Options to access details/summarized data
• Provides an alarm or flagging system for measures outside limits or normal ranges
• Integrated search facilities
• Provision of historical data
Hospital Dash-board
• Patient type wise
• Procedure wise
• Consultant doctor-wise
• Patient Search
• Patient Wise reports
• Financial Reports
• Department-wise reports
• Doctor's revenue
• Patient dues
• Corporate revenue
• Report of all discounts given
• Report of 'consultant' revenues
• Report on Insurance amounts due
• Report on corporate dues
• Report on 'lab' revenues
• Department trend report
• Doctor Analysis
• Patient Reports
• Lab & radiology Reports
• Insurance Reports
Insurance packages and Billing
Comprehensive insurance module. The insurance module gives many features to make it easy for hospital to handle insurance cases. Insurance modules are organized as below.
• Insurance Plans and Co-pay
• Define the co-pay rules and deductibles rules for various types of insurance plans.
• E-claims for Insurance
• Prepare e-claim XML file based on standards defined by insurance authority
• Receive remittance XML files from insurance authority
• Record rejections by insurance authority and automatically close the bills that are approved and paid
• Submit re-claims again through XML with facility to attach clinical documents
• Track history and send documents
• Insurance report
• On line pre-approval gateway
Medical Packages

Static and Dynamic Packages. Static packages support fixed set of services to patient on fixed price basis. There is option to print the details of services provided as part of the bill or to print only summary package name. This is useful for Executive Health Checkup kind of packages. The other, Dynamic Packages, allow hospital to define packages for surgeries with limits of number of days of stay, medicines, tests, etc. Here hospital prepares the bill as they normally do and then at time of discharge system calculates the actual billable amount based on the package definition.

In case of Multiple package configuration of price percentage wise

- Master definition of static and dynamic packages
- Prescription of packages, automatic ordering of corresponding services or tests
- Bill calculation taking into account the limits of packages for various service heads
- Reports on profitability of packages

Operation Theatre Management

Operation Theatre and day case Management module maintains the data related to scheduling surgery, day cases, making arrangements like organizing surgical instruments, medical equipment for anesthesia, etc. The various Functions covered by this module are as follows:

- Operation Theatre/Day case Unit Scheduling: Allows the allotment, cancellation and rescheduling of Operation theatres/Day case units.
- Raising and validating an operation/day case procedure: The operations scheduled have to be validated by the senior surgeon.
- Preparing an operation/day case procedure dossier: The dossier for each operation/day case procedure is prepared by the system once the senior Consultant validates the operation/day case procedure
- Entering Operation/day case procedure record: Assists in entering and validating the detailed Operation/day case procedure record.
- Entering Anesthesia record: Assists in entering and validating the detailed Anesthesia record along with the provision for maintaining Post-op/day case procedure progress.

Required Features

- Provides the option of taking up online investigation for material retrieved during surgery/day case procedure
- Access to patient records for treatment update/case notes/medication used/patient condition/procedural details etc.
- Allows electronic signatures or other security feature to validate request by addition of information
- Schedules and books patient appointments (pre booked and emergency cases)
- Maintains records of case details for research purposes
- Performs materials management
- Electronically maintains doctors preference for the information of nurses
- Send a requisition for blood to the blood bank in case of blood requirement during surgery/day case procedure
- Provides a ward-wise daily operation/day case procedure list
- Reports on Operation/day case procedure dossier
- Provides a bill for items consumed during operation/day case procedure
- Treatment Updates/case notes/on patient file
- Procedure prescriptions
- Test/other service requests
- Charges for each patient
- Transfer information
- Linen requests
- Stock Orders
- Theatre/day case unit Stock control
- Order stocks and supplies from main stores
- Stocks information and accounts information regarding re-order levels
- Track and place orders for linen with laundry, housekeeping, maintenance requests
- Access to pharmacy stock information
- Enter electronic procedure prescriptions
- Provide daily theatre/day case unit schedule in order for wards to get real time information
- Service tracking interface to allow follow up progress of services requested
- Ability to flag urgent requests/information
- Ability to receive and respond to queries from other departments
- Ability to handle time based charging system
- Posting patient charges at local workstation
- Handles staff scheduling according to shift system and Staff leave plans

Reports
• Reports on theatre/day case unit occupancy/utilization
• Reports on theatre/day case unit stock control
• Operation/day case procedure details by patient
• Details of all operations/day case procedures undergone by patient
• Theatre/day case unit waiting list
• Daily theatre/day case Unit schedule
• Staff assignment
• Statistics on theatre/day case unit utilization by surgeon
Blood Bank
Through this module, the system keeps the track of blood requirements. It will generate automated reports keep in track of inventory for stock of bloods for different blood group and their expiry.
Required Features
• Provides access to patient records for case notes/patient post transfusion condition to update antibody & antigen details
• Electronically schedules appointments for unit preparation/transfusions
• Maintains electronic patient and donor records
• Performs materials Management
• Supports specimen collection and testing
• Provides a blood unit inventory
• Provides an interface to other departments particularly laboratories, wards, accounts, etc.
• Transfusion schedules
• Inventory details
• Housekeeping requests
• Stock orders
Required Features
• Receiving electronic requests from doctors
• Reservation of units
• Automated cancellation of reservation after procedure
• Access to surgery/theater schedules in order to plan blood supply
• Internal equipment and item stock control
• Ability to order stock and supplies from main stores
• Ability to access stock information and accounts information regarding re-order levels
Reports
• Numbers of patients who have received transfusions
• Report on number and typed and units used against doctor medical procedure etc.
• Statistics of patient and donor information at selected intervals
• Search for Patients/specimen/inventory data
CSSD
CSSD module allows managing the various functions of CSSD department. The department will be responsible for collecting, decontamination, assembling, packing, sterilization, storing and distribution of a multiplicity of goods and equipment to areas in the hospital like sample collection, Operation theaters etc. that provide patient care.
Required Features
• Performs Item stock management
• Performs sterilization operational data management
• Manage equipment maintenance
• Interface with the stores to enable online requesting of stock and know stock levels
• Lists and manages laundry/sterilization requests from the entire department.
• Job assignment from wards
• Stock requisition
• Stock record of item stock held by each department with expiry date
• Working scheduling
• Report on bio marker results on various batch samples
Reports
• Report on items held in the ward/OT/ICU or other units at any one particular time

<ul style="list-style-type: none"> • Report on daily activities in department, number of items brought in per OT, ICU ward, number issues out and the items processed per day
<ul style="list-style-type: none"> • Report on Stock held within CSSD
Biomedical and Maintenance
The total medical equipment management and maintenance will be taken care of through this module. The items included will be major, minor, disposable and non-disposable equipment and their proper maintenance.
Required Features
<ul style="list-style-type: none"> • Register of equipment specification, user manual, spare part list, user videos and pictures • Automated help desk functionality where a user log a support request online • Preventive maintenance plan and management • Online support of spare part order requisition • Stock details with cost and depreciated value of the equipment • Scheduled maintenance plan for any biomedical equipment • User requests for support and engineer input after successful user request resolution • Automated order of spare parts to purchasing and supply department
Reports:
<ul style="list-style-type: none"> • Print out of all scheduled maintenance for the month/week/day etc. • Listing of all available spares stocks and an enquiry into the availability of a particular spare item • Listing of non-resolved /resolved user request per day/month/week • Print out of all costs to a particular serviceable equipment • Downtime hours and repair hours • Consumption of maintenance materials • Summary of all maintenance costs
Lab & Radiology Services
Required Features
<ul style="list-style-type: none"> • Automatically shares and transfers data between the various departments within a lab. • Identifies source of reference (OP, ER, day procedure, IP and other hospitals). • Creates flexible work list formats for a single test or related tests, enables user-defined work lists (size, format and sequence), besides detecting and entering all incomplete tests into the work list. • Archiving of all test results for specified periods of time in an easily accessible format. • Data on standard procedures for various radiological tests, Radiological codes and sizes. • Posting of multiple investigations across various departments of the laboratory • Customizable investigation reports by department, status and date • Integration of Laboratory bills with Inpatient and Out-patient bills. • Diagnostic schedules • Sample Collection and bar code printing • Pending Tests • Test Cancellation • Conducting tests and reports • Incoming Sample Registration, Billing, & Conduct • Outgoing tests • Duplicate reports • Flexible template creation • Addition of images to the diagnostic reports • Sample id creation (automatic or user defined) • Bar code printing of sample ids • Master definition of lab reference values based on gender and age. Flexible expression based formulas to define which results are normal, abnormal or impossible.
Laboratory Management System
Lab equipment interfacing and automated reporting. The samples are tracked and an inventory is in place for the reporting and billing processes.
Required Features
<ul style="list-style-type: none"> • Accesses data such as master patient index for name, address, ID number • Medical records interface that provides access to the patient files • Manages revenue/charges for both in-patient and out-patient cases

• Capture requests from various sites and on-line enquiries
• Supports digital archiving for lab results
• Cost of various tests
• Shares and transfers medical data between the various departments within a lab
• Provides a repository for data that can be readily accessed and reported to external authorities
• Supports integrated laboratory inventory management and maintenance scheduling for lab instruments
• Provides a web interface to enable ordering of tests over the intranet/internet
• Accesses data such as Master patient Index for name, address, ID number
• Identification of the referral doctor
• Identification of specimen requirements for specific tests together with any handling instructions
• Identification of hazardous specimens as “high risk”
• Printing/generation of patient detail labels/bar code
• Report to highlight abnormal results and compare with reference data and previous results
• Interfaces with equipment systems and facilitate automated reporting
• Results of individual test, group of tests or range of tests with the facility to preprint .
• Create flexible work list formats for a single test or related test user defined work lists
• Highlight urgent work list and data transmitted directly into on-line analyzers
• Quality control through user-defined techniques including calculation of means standard deviation and coefficient of variation for each quality control sample.
• Archiving of all the results for user definable periods of time
• Name of staff carrying out test for accountability purposes
• Tracking the test and result modifications
• Stock requisition
• Charge details
• Automated billing and receipting
• Interface with patient billing to allow posting of charges to in-patient
• Accounting details on patient billing, insurance details, company details if any
• Bar codes reader from registration cards/patient wristbands to generate bar codes and labels for specimens
• Result printing until they are verified
• Information about repeat tests due to result dispute etc
• Comments space to attach them to test results
• Abnormal result flagging
• Comparison of various tests and performs statistical analysis
• Enter, edit, and cancel inpatient requests
• Enter and track the status request data and service date of an order
• Avail work-in-progress details
• Record and report lab results for each patient
• In built security/ audit trail
• Historical records for future reference
• Stock records for reagents and supplies with in lab
• Automatic calculation and alarm system for re-order levels
• Alarm for unusual usage of stocks
• Data export in a reusable format by standard packages e.g. MSExcel
Reports
• Statistics of tests by date, patient, type, source of request
• Test result statistics by type of tests, numbers of abnormal results
• Reports on test results in dispute/for re-testing
• Reporting formats should allow for local modifications for changing needs Lab Equipment Supported:
Radiology Management System
Radiology Management System focuses on examination orders, scheduling appointments tracking patients, reporting results and tracking films.
Required Features
• Accesses data such as Master patient Index for name, address, ID number
• Medical records interface that provides access to the patient files
• Support digital archiving and retrieval of x-ray films and records

• Manages revenue/charges for both in-patient and out-patient cases
• Identifies source of reference (OP, ER, day procedure, IP, other hospitals)
• Identify the referral doctor
• Identify radiology investigations required with levels of priority
• Schedule patients and examinations according to staffing levels, priority levels and referring department
• Enable results to be reported using a variety of optional media: digital imaging, film, written report(s) – standard text or free
formed text with facility for signature of approving radiologist
• Facilitates archiving of results as required
• Provides a stock management system for digital image sensors, contrast, other material
• Test details and results
• Registration and acknowledgement of ward requisitions
• Stock requisition
• Mode of payment i.e. Cash, insurance company
• Data on standard procedures for various radiological tests
• Allows Online requisition of stocks and enquiries on availability of certain items
• Capture data generated from the technical radiological system
• Allow cancellation of appointments due to doctor or patient request
• Automatic generation of records for patients
• Automatic updates of patient file in the main patients medical file database
Reports:
• Test statistics by date, patient type, test group, referral source
• Statistics on items used per patient, time period, category of patient
• Reports on patient appointments by type and patient
Radiology Equipment to be supported:
• C, MRI, X-Ray, C-Arm, Mobile X-Ray, BMD, Mammogram, Ultra Sound
Pharmacy Services
Pharmacy Management module shall maintain the data related to the pharmacy department that caters to the in-patients and the out-patients. The module keeps track of the prescription and dispensing of drugs with improved accuracy and speed. The module shall also maintain data related to stock requisition, maintenance and distribution.
Required Features
• Pharmacy module should integrate with Vinavi for real-time approvals and data exchange with Aasandha.
• Allow the dispensing of drugs against the drug medication orders and prescriptions for patients.
• Patient bed side medication chart
• Enable the pharmacist to authorize restricted drugs that are prescribed before releasing them.
• Maintain a complete drug formulary with information on the generic name, the trade name, standard dosages, contra-indications, interactions, physical and chemical characteristics etc.
• Partial issues of stocks for both normal and repeat orders.
• Numeric, trade or generic name search and allow easy & quick retrieval of drug item.
• Warning incase prescription simultaneously includes interacting drug items.
• Provide for supervisory approval before issue of controlled drugs.
• Credit drugs for discharge patients.
• Storage of information of all the drugs, sutures and consumables.
• Vendor Master Details
• Unit Item Grouping
• Supply Order Entry
• Invoice Detail Entry
• Inspection of items which have been received from the supplier and added to the stock & enter it down in the record
• Local Supply Entry
• Raising of indents from various Area Stores
• Issue of items from the Central Store
• Return of items to Central Stores
• Issue of items by the Area Stores to the patients, as they are billed accordingly. The area store also issues miscellaneous items that are billed in way that total cost of all the miscellaneous items is distributed among the total strength of patients in that ward.

• Dispensing of drugs against the drug medication orders and prescriptions for patients
• Authorizing restricted drugs that are prescribed before releasing them
• Highlight drug contra-indication and interactions while entering a prescription request
• Maintain a complete drug formulary with information on the generic name, the trade name, standard dosages, contra-indications, interactions, physical and chemical characteristics etc
• Supports the capture of both billing and purchase of drugs
• Record receipts, requisitions, issues, returns, transfers, and adjustments
• Automatic and manual requisitions
• Returned drugs
• Physical stock verification
• Requisitions to other pharmacist or to the purchasing and stores department
• Drugs expiry dates and warning system before the set time for stock return to the supplier
• Master codes including drug forms, route & instructions for admission and patient information brochure
• Contra-indication definitions & contra indication by generic group
• Drug code and information
• Re-order levels
• Issues towards and other departments
• Medication orders for IP to be identified by admission numbers so that medications can be connected to each terms of stay separately and billed accordingly
• System support of partial issues of stocks for both normal and repeat orders
• Numeric , trade or generic name search to enable easy & quick retrieval of drug item codes
• Medication orders for the same inpatient, verifying for a drug allergy on earlier prescriptions
• Warning in case prescription simultaneously includes 2 interacting drug items
• Provides for supervisory approval before issue of controlled drugs
• Credits drugs for discharge patients
• Automatically prints a dispensing label with the usage directions and cautionary language
• Support warnings/flagging /alarms for repeat prescriptions according to predefined rules
Clinical Decision Support
Electronic Drug Database supported by Clinical decision support system
Must contains global generics
Real time alerts For :
Drug -Drug Alert
Drug – Allergy alert
Drug- Health Condition
Drug-Duplicate Alert
Drug- Pregnancy Alert
Drug- Lactation Alert
Drug- Dose Alert
Complete Drug information through Generic Monographs.
Integration through fast track API's
Provision of regular updates of electronic drug database.
Ability to configure as per required and process flow of IGMH
Helps in Patient education.
• List of inpatient medication orders by document, patient, ward and doctor
• List of repeating orders
• Controlled drugs register
• List of discontinued drugs
• Stock status reports
• Stock ledger
• Consumption statement by item, by ward, clinic
• Stock analysis indicating fast, slow and non-moving stock items
• Valuation statements by costing units
• Expiry list by period
• Items to be re-ordered
• Overstocked items report

• Daily transactions details report
• Receipts for drugs issued
• Daily performance by pharmacist
• Daily items dispensed analyzed hourly
• Revenue profile per section (Main pharmacy, OP, Inpatient pharmacy, Discharges)
• Dispensing fee collected
Dietary Management
This module allows hospital F&B and the dietitian to coordinate schedule and deliver the dietary requirements for patients.
• Allow doctor/dietitian to enter nutritional needs of patient in OP care and IP case sheet.
• Prepare the Diet sheet
• View the clinical data of the patient such as diagnosis, conditions, allergies, prescriptions.
• Enter types of diet like diabetic diet/ high protein diet/ low fat diet etc.
• View the diet sheet written by the dietitian.
• Enter the diet details like veg/on veg or likes and dislikes or food allergies.
• Patient and family education screen to educate the dietary requirements.
• Nursing station to view these details and place order with dietary department for specific requirements