

Recommendations for 'Health Management Information System (HMIS) Deployment'



MACRO BENEFITS AND OBJECTIVES FOR GOVERNMENT

- ◆ Structured Health Management across the state
- ◆ Improved Image of the Government to the Masses
- ◆ National and International credit for Improved Healthcare
- ◆ Political Windfall of Effective Governance

PUBLIC HEALTH CARE OBJECTIVES:

- Provide and monitor the Public Health Care requirements
- Improve Health Infrastructure, Skilled Manpower and other related facilities
- Increase Institutional Deliveries by creating awareness
- Strengthen Immunization of children
- Track & Control Communicable Diseases & Outbreaks.
- Increase Health Awareness among the people
- Provide Health care from Village level up to State Level
- Collection, Compilation and Dissemination of information for statutory purpose.

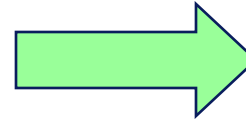
PUBLIC HEALTH CARE OBJECTIVES: (Contd)

- Train the Health Personnel in upgrading their skills and tune them to the needs of the various Health Programs undertaken by the Government
- Plan, monitor and execute strategies to reduce IMR, MMR, TFR and to combat public health issues
- Execute & closely monitor the various Health Programs with comprehensive Decision Support System, for improved effectiveness & desired results.
- Carry out planning, budgeting and financial management of all Programs & Department functioning.

Today's scenario

- **Processes**

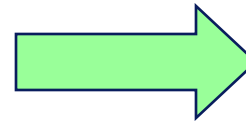
- Ad-Hoc
- Not Synchronized
- Duplication
- No Centralized Control



- Approx. 70% more turnaround time in providing healthcare services.

- **People**

- Higher work load due to manual systems
- In-effective people tracking
- Low employee morale due to lack of proper systems



- Approx. 50% of working time lost.

- **Challenges Faced**

- Delay in implementation of time bound projects like Pulse Polio Immunization
- Quality of Health Care Services not up to the mark
- Improper tracking of allocated funds
- Delay in Report Generation.

PROJECT OBJECTIVES FOR HMIS DEPLOYMENT

Project Objectives:

- Provide immediate and accurate information from various health centers across the state to facilitate improved Planning and Resource allocation by the Department.
- Improve Planning, Allocation, Deployment & Training etc. of Medical Officers and Staff employed under the various Health Programmes
- Single interface for procurement of medicines, medical and other equipment
- Accurate data with regards to the Health of Citizens, mapping of areas prone to Disease outbreaks, health problems, etc, and therefore allowing improved resource planning and deployment
- Improve response time in providing health services to citizens

Welcome to the Proposed



‘Smart’ Health Information Management System

BROAD FEATURES OF THE APPLICATION

- ◆ Define Health Departments.
- ◆ Capturing of Input Data.
- ◆ Auto Aggregation and Dissemination of Data and Report.
- ◆ Periodic and Annual Reports.
- ◆ Hospital and Clinic Management System
- ◆ Medical Campuses.
- ◆ Affiliated Medical Centers.
- ◆ Facility Management.
- ◆ Integration with the Central & State Funds Mechanism
- ◆ Integration with UIDAI (Aadhaar) for beneficiaries under schemes

PROPOSED HMIS MODULES

Module for Hospitals, Clinics, Health Centers:

HIS- Hospital Information System:

This module will be having following sub-modules,

Sub-Module:

Registration	Store or Pharmacy
OPD	Operation Theatre
IPD	Emergency or Casualty
Cash Counter and Billing	Autopsy or Mortuary
Medical Record Department	Telemedicine
Blood Bank	House Keeping Module
Pathology / Laboratory	F & B Module
Radiology or imaging services	CSSD

HMIS MODULES CONTD.

Module for Health Programs

- ❖ Pulse Polio Program
- ❖ Malaria Program
- ❖ National Vaccination Program
- ❖ National TB Control Program
- ❖ National Leprosy Control Program
- ❖ National AIDS Control Program
- ❖ National Blindness Control Program

Module for National Rural Health Mission (NRHM)

- ❖ Family Welfare
- ❖ Maternal & Child Health
- ❖ Immunization
- ❖ Other Programs

APPLICATION OBJECTIVES:

- ◆ Make the entire process transparent, fast, cost effective and scaleable.
- ◆ TCP/IP network communication.
- ◆ Extension of the concept to all the centers, sub-centers and health departments.
- ◆ WWW technologies as the core method.
- ◆ Communications between government and all participants

SOCIAL OBJECTIVES

- ◆ Process Transparency.
- ◆ Effective Monitoring and Control.
- ◆ Easy & Fastest Communication.
- ◆ Scalable for perpetual technology.
- ◆ Cost Effective.
- ◆ User Friendly.
- ◆ Revenue Generation.
- ◆ Provide interface between the government, officers, state administrators and the beneficiaries.
- ◆ Providing unique reporting models to ensure that the health schemes are assessed and improvised.

TECHNICAL OBJECTIVES

- ◆ Centralized database.
- ◆ Fast performance.
- ◆ Secured access.
- ◆ Stable and Scalable system.
- ◆ Stable Communication & Network.

Tools and Technologies to be used in the development

Requirement	Technology
User Security Management Logical Access Control. Physical Authentication. To prevent hackers and unauthorized from accessing the network.	Microsoft Passport Sign-In services. Biometric Solution : Fingerprint Sensor, Smart Card. Internet Security and Acceleration Server
HMIS Enterprise Application	Microsoft ASP.Net. Macromedia Flash. Macromedia Dreamweaver.
Integrated Back Office Finance & Accounts. Human Resource Development. Administration. Operation or Section Specific	Microsoft VB.Net,C# and Microsoft ASP.Net
Centralized Database	Microsoft SQL Server 2005
Common pool of data exchange across boundaries	SOAP XML
Integrate business processes across the boundaries to include partners, other university, colleges.	Biz Talk Server, Microsoft Office Sharepoint Server. (Future Needs)

BENEFITS OF COMPUTERIZATION

- ◆ Increased transparency and immediate updation of data.
- ◆ Better distribution of schemes and services.
- ◆ Increased return from existing IT investments.
- ◆ Faster access to reach target institutions.
- ◆ Greater process efficiency.
- ◆ Reduced Web publishing costs.
- ◆ Reduced paper or mailing activity costs.
- ◆ Reduced costs resulting from human error.
- ◆ Achievability of uniform online communication.
- ◆ Maintaining a cohesive health strategy.
- ◆ Gaining increased people satisfaction.
- ◆ Improvements in internal specialist knowledge due to greater employee specialization.

Benefits Of Computerization

- ◆ Reduced work load, faster communication, instant reports, greater transparency for the staff.
- ◆ Faster communication and transparency to the society and health sector participants.

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Thank You