

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.

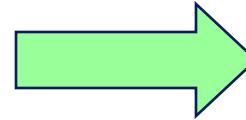
PUBLIC HEALTH CARE OBJECTIVES: (Contd)

- 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**

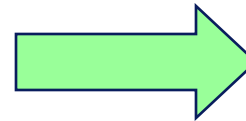
- Ad-Hoc
- Not Synchronized
- Duplication
- No Centralized Control



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

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