

## MANAGEMENT INFORMATION SYSTEM (MIS)

### Background:

Management Information System(MIS) is basically intended to collect, analyze, extract, retrieve and integrate data from various sources in order to supply necessary information for managerial decision.

a)

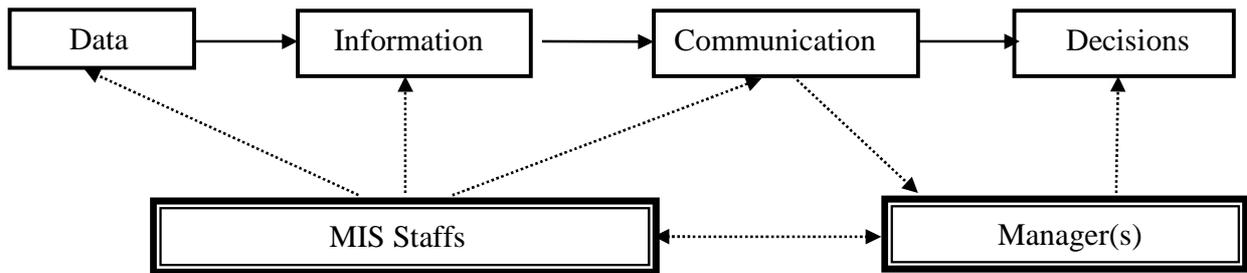


Fig 1: Logical Entity of MIS.

b)

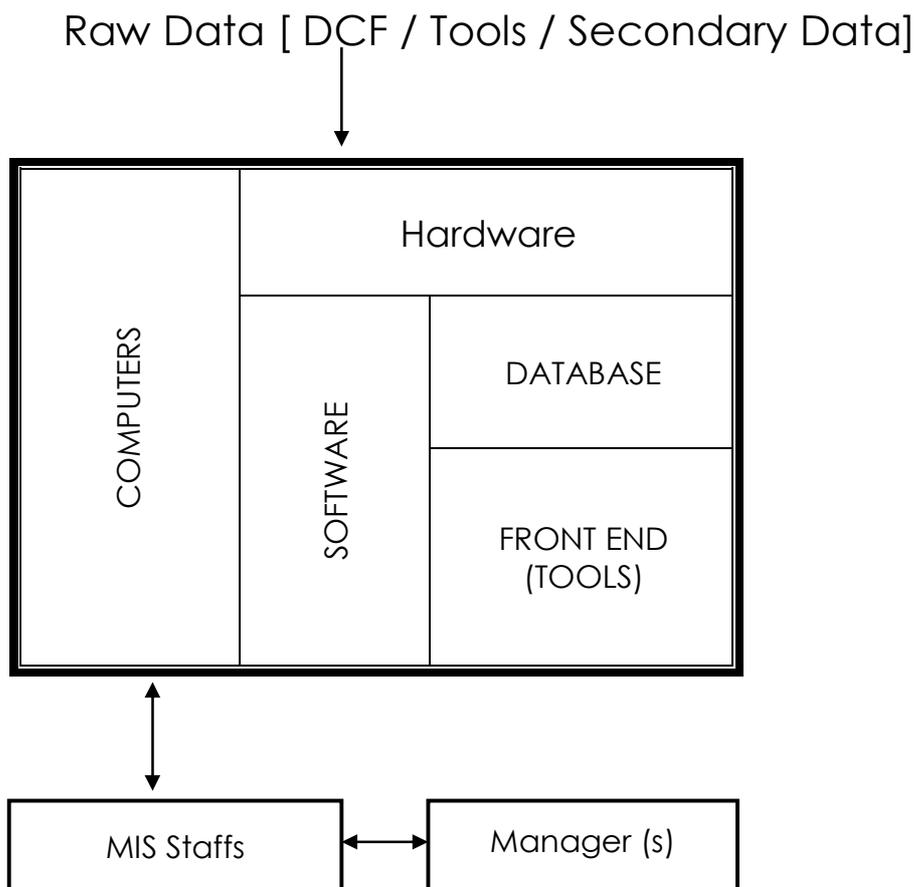


Fig 2: Physical Entity of MIS.

Computers are important for more quantitative than qualitative approach. It has some special features like speed, accuracy and storage of large amount of data.

In view of above, for better functions following goals have been set:

- a. Effective and efficient management.
- b. Planning process to be driven by database.
- c. Decision making process with the use of information base.
- d. Multi-directional flow and sharing data and information base at all levels (District, Circle, CRC and School).

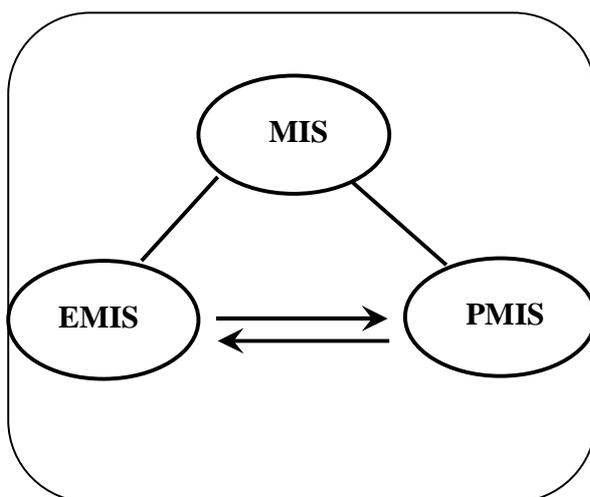
MIS provides several benefits to the organization: the means of effective and efficient coordination between Departments; quick and reliable referencing; access to relevant data and documents; improvement in organizational and departmental techniques; day-to-day assistance in a Department and closer contact with the rest of the world.

### Objectives

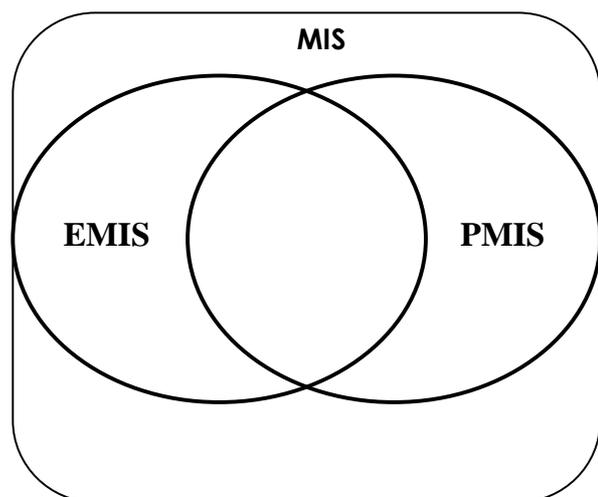
- To create comprehensive database at primary education level at the district level and review the status every year.
- Improvement of MIS activity to an extent so that it can act as Decision Support System (DSS).
- To evaluate monitor enrolment and retention.
- Evaluating and monitoring of pupils' achievement with special emphasis on girl's education, education of deprived section, minorities.
- To ensure the informative approach for the implementation of all programme.
- Publishing reports and data through National Web portal of SSA.
- Finally to achieve the target of SSM.

### Relationships between EMIS and PMIS under MIS:

As the SSA is itself an Educational project PMIS may be consider as a subset of EMIS. On the other hand SSA programme is a project then EMIS may be consider as a subset of PMIS. So the model depicted below may be accepted.



Tree structure



Venn Diagram

### **DISE in Educational Management Information System(EMIS):**

Management Information System (MIS) plays a pivotal role in every organization by acquiring , storing and retrieving necessary and relevant information from database to place before Managers for their necessary plans.

There are three components of Management Information System (MIS)

1. General User.
2. Database Administrator / System Analyst/MIS-In-Charge.
3. Computer and Peripherals.

In the last component (computer and peripherals) there must be some dedicated tools /softwares for collecting, storing and querying data. For Example, District Information System for Education (DISE) is one of the coherent tools in implementing **Educational Management Information System (EMIS)** in Sarva Shiksha Mission,Kolkata.

### **PMIS (Project Management Information System):**

In Management Information System(MIS), Sarva Shiksha Mission there exist PMIS, which is running very well along with EMIS with the following activities:

1. Enterprise Resource Planning(ERP) has been implemented( Tally ERP 9.0 is going on with full swing by keeping all financial component of SSM).
2. Spreadsheet management technique has been used for other type of PMIS activity.
3. Finally National Web Portal, may be considered as a part of E-Governance System has also been implemented.

### **MIS through DISE (Data collection method and etc.)**

Three parts of DISE have been taken into consideration for DISE programmes every year.

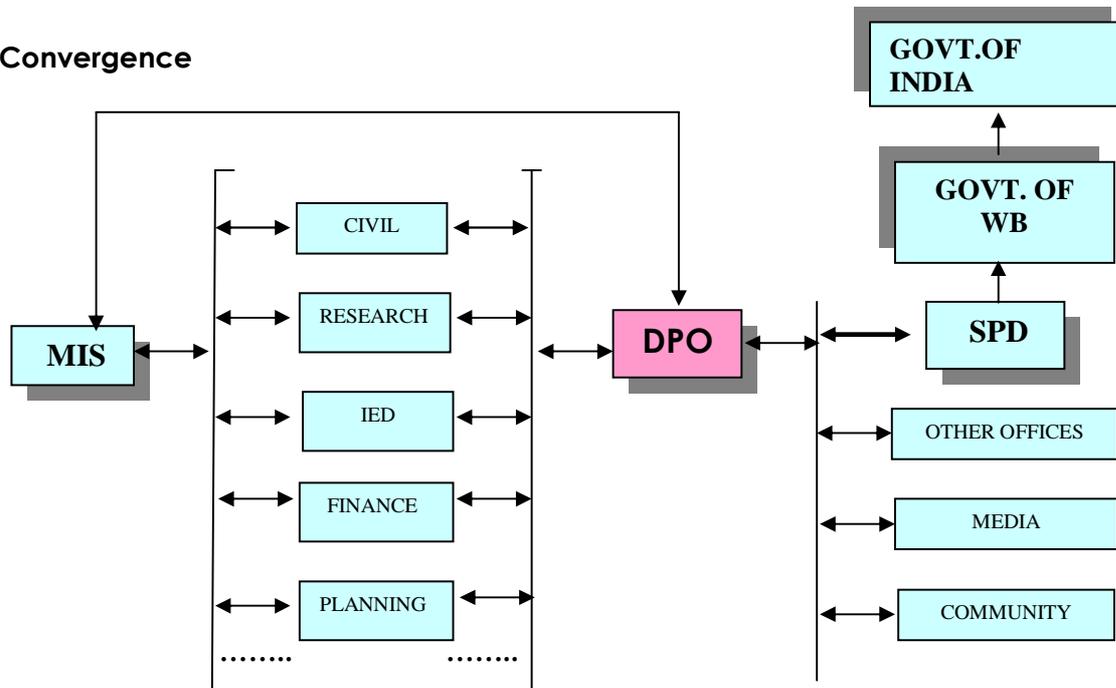
1. Data collection through DISE Data Capture Format (DCF) from every school as on 30<sup>th</sup> September each year.
2. Consistency checking which is followed by Data Entry to DISE database through a Graphic User Interfaced Front End, that is designed keeping in view the DCF.
3. Consistency checking which is succeeded by regular reporting from the software to the administrator for planning and monitoring the education system.

### **About DISE Software:**

DISE-District Information System for Education, a very well tuned database and the front end software, developed by National Institute for Educational Planning and Administration (NIEPA) in collaboration with UNICEF.

The software is running in the Client-Server architecture where the database is a very worldwide and well known efficient ORACLE database.

## Convergence



## Progress overview

Management Information System(MIS) is going on with high performance with the following activities at the District level in Sarva Shiksha Mission, Kolkata.

1. Creation and maintenance of database (DISE) keeping records below.
  - Infrastructure of the school.
  - Student Enrolment Record.
  - Regarding Incentives of students.
  - Teacher Record.
  - Examination Result.
  - No of Children with Disabilities.
  - Ward Information.
  - Etc.
2. Creation and maintenance of database (COHORT,CWSN, EBBBAS &etc).
3. Created software to monitor civil grant and other grant (PMIS activity).
4. **Created software For Child tracking(CWSN children).**
5. Updating databases.
6. Reporting & supplying information frequently.
7. Spreadsheet making (mainly for PMIS activity).
8. **EDI data analysis and Circle level EDI ranking Journal published on 29.07.09 based on DISE data.**
9. **GIS has been Introduced.**

10. Documentation of various activities.
11. Cover page/Vignette design of various Journals/study material/teaching material published by SSM, Kolkata.
12. Data collection process is going on for Private schools

### **Future activities:**

Some sub-system of Management Information System will be proposed to set up at the District level and the following programmes will be taken up.

1. Creation of record of Total children in the age group 5+ to 13+.
2. Creation of records of Name-wise particulars of enrolled children and out-of-school children.
3. Creation of database of students belonging to Minority Community.
4. Updating of National Web Portal of SSA.
5. Maintenance of database like IED, SCK, DISE & etc.
6. Pupil achievement in various school subjects.
7. Enrolment, retention and completion rate.
8. Progress in different activities.
9. Optimization of Information Acquisition Process.
10. Pay-Roll, stock control(EOQ model) may be included under PMIS activity.
11. Reducing anomalies of data (checking consistency).
12. To aware the necessity/importance of EMIS (MIS/Information Technology) to School/Community people and other people attached with SSM, Kolkata by taking different activity (e.g., conducting seminar etc.).

### **13. Website Development.**

### **14. Decentralized Database, i.e., URC level Data Bank Creation.**

### **15. Full implementation of GIS.**

### **Challenges**

1. To collect Information from all schools (all categories and management) in Kolkata. Viz.,
  - Govt. schools.
  - Govt. Aided Schools
  - Private aided schools
  - Kendriya Vidyalaya
  - DA getting schools
  - Christian missionary Schools
  - Private unaided schools
  - ICSE & CBSE schools etc.
2. Introduce child census software to create database of all children in Kolkata.
3. Data entry to monitor civil works and other grant.
4. Create software to monitor Project Management activities.
5. To setup a database system at URC and CRC level for proper monitoring.

### **Infrastructure required for implementation of successful MIS :-**

- Computer Laboratory Environment.
- Provision of computers and peripherals.
- Training of MIS staffs.
  - SQL Statement Tuning training of MIS-In-Charge and PMIS Coordinator.
  - GIS training of MIS-In-Charge and PMIS Coordinator.
  - Accounting Package Training of PMIS Coordinator and DEO.
- Motivation.
- Typing activity should be separated from the MIS-Cell to support the importance of MIS reporting.