Management Inform ation System (MIS)

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Focus

- Information System : Why it required ?
- Needs of SEMIS
- About SEMIS
- Its Requirements
- Points to remember to maintain quality of Data
- Data Quality At present
- Strategies for year 2012-13
- Tentative Schedule for SEMIS implementation
- Few Indicators
- Tables for AWP & B
- S³- Tool for Planning

- Each and every Field officers maintain their registers or Diary with the information related to :
 - Schools
 - Enrolment by Caste & Category
 - Classrooms / Sections
 - Infrastructure like Water / Toilets / Furniture
 - Teacher (Subject Wise/ Trained)
 - Examination results etc.

- To capture these data's , field level officer collect information from the schools established in remote areas.
- It takes more than a week time to collect these information from each schools, and another week time to consolidate these data's.
- It means that we required some sort of system to consolidate these type of data's and generates report as per our requirement whenever we needed.

- This type of system is already given to you by Govt. of India i.e. SEMIS (Secondary Education Management Information System).
- This system works on DCF (Data Capture Format) given to you by MHRD
- To used this system, get your DCF filled correctly by each schools and fed into the System and you will get the reports generated as per your requirement.

- What you have to do is ,only concentrate on the quality of data which is coming from school in the form of DCF
- After maintaining the SEMIS software you will see the result, that the data which is coming manually in a weak from a field can be generated within a minute at your district/state office.
- If you are not capable to generate the required report at district level, ask your state MIS coordinator to generate the report and sent to you.
- For any help, your state MIS coordinator can contact Edcil Tsg (MIS Cell) for further assistant

Why SEMIS ?

- You at field level, collect and analyze information on the education system to improve planning, resource allocation, monitoring , policy information and decision making.
- You required to monitor that all secondary schools should have physical facilities and trained teaching staff.
- You should ensure that each schools equipped with infrastructure like, Black Board, Furniture, Libraries, Science & Mathematics Laboratories, computer labs, toilet cluster etc.

About SEMIS

- Its an online software required an internet enabled computer system to operate.
- Can access from office, home, cyber cafe etc.
- Consists Secondary and Higher Secondary schools level information.
- Capable to manage and generate education related information for planning , monitoring and resource allocation.

Requirement

- Master list : List of all schools executing class IX – XII (Government or private)
- Data Capture Format : Printing of DCFs in regional language
- Distribution of DCFs : Ensure the distribution of DCF to all schools listed in Master lists
- Collection of DCFs: Ensuring collection of filled DCFs from all schools
- Computer with good internet connectivity
- User Name & Password to access SEMIS

Points to remember to maintain quality of data

- Before starting Data entry of DCFs on SEMIS system, kindly ensure that the following fields is filled correctly :
 - School Category / Funded By / SMDC related information
 - Number of Classroom in each grade should match with classroom status given in Infrastructure column and in Condition of classrooms (Pucca, Major & Minor)

Points to remember to maintain quality of data

- Location of Schools Rural / Urban
- Enrollment with Caste , gender should match with Enrolment in Single age in Classes VIII, IX , X, XI and XII
- Teach Provision of Regular / Part Time teacher should match with Number of Teachers given in Educational Qualification details
- Ensure that each column in School facilities like Labs / Laboratory / Toilets / Water / Library room / HM room etc filled with Y/N and Number of rooms as and were required.
- Examination results

Points to remember to maintain quality of data

- Before freezing your data, get your data checked by State so that there is no inconsistency left
- Before freezing get your **District Report Card** from state for re-checking. The card will show the comparison of your data with last year data.
- After checking all parameters given in Report Card freeze your data.

Tentative Time Schedule

- Printed of DCFs should completed by 31st July of each year.
- Master list to be prepared by each District for each schools executing the class IX-XII for Government / Private Schools by mid of August.
- Training should be provided to all officers / school head masters for collecting the DCFs from school, so that before receiving the form it should free from inconsistencies, by 31st August of each year
- DCFs form should be distributed to all schools listed in the Master list by 25th September of each year
- The district level officer should ensure that the DCFs should collected from each schools listed in the Master list by 15th October.

Tentative Time Schedule

- After collection of DCFs , the 5% sample DCFs should be verified by District officials by 30th October.
- Data entry should be completed at district level . To maintained the quality of data, no outsource for data entry should be initiated at any level for data entry. The data entry should be completed by 30th November.
- Re-checking the data , removing the inconsistency and generation of reports should be done by 15th December.
- After checking and removing inconsistency , the finalization report should be sent to State by 20th December.
- The State should check the inconsistency and quality of data entered. After checking the state should intimate the district to freeze their data by 31st December

For Any Help regarding SEMIS CONTACT me at : semis.edcil@gmail.com

Importance of Education Indicators

Importance of Education Indicators

Educational indicators are the mirror of educational development in a nation. These indicators are common worldwide such as, Gross Enrolment Ratio (GER), Dropout Rates, Gender Parity Index (GPI), Gender Gap, Pupil Teacher Ratio (PTR), % age of Trained Teachers, Literacy Rate and per capita expenditure on education etc. Through these indicators, we can rank a nation at appropriate place in the field of education.

Gross Enrolment Ratio (GER)

- It shows the coverage of population in a particular school going age group.
- It shows level wise coverage, we also measure it in terms of SC, ST and in rural areas.
- In educationally developed countries it remains 100%.
- This shows full coverage of eligible school going population.
- It decline as we step on lower to higher level of education.

Importance of Education Indicators

Dropout Rate : The lower dropout and higher retention are the good sign for a nation.

Gender Parity Index : It shows gaps between boys and girls coverage.

Per capita expenditure on education : It shows that the educationally developed countries spend more on education and educationally backward countries less.

Formulas to Calculate Education Indicators

GER of classes IX-X

Enrolment in classes IX-X =----- X 100 Population in the age group 14-16 year

NER of classes IX-X

Net enrolment in classes IX-X (14-15 Years)

----- X 100

Population in the age group 14-16 years

Gender Parity Index (GPI)

Ratio of the female –to-male values of a given indicator. A GPI of 1 indicates parity between both sexes.

GPI at Secondary Level

GER of Girls in classes IX-X

GER of boys in classes IX-X

Gender Gap at Secondary Level

Enroll of boys in IX-X _ Enroll of girls in IX-X

----- X 100

Total Enrolment in IX-X (Boys + Girls)

Dropout

Pupil who leaves school before the completion of a school stage or leaves at some intermediate or non-terminal point of a given level of education (school stage).

Pupil-Teacher Ratio (PTR)

Average number of pupils (students) per teacher at a specific level of education in a given school-year.

<u>PTR</u>

No. of students in classes IX-X

No. of teachers teaching classes IX-X

Trained Teacher

A Trained Teacher is one who has successfully undergone a course of training through a recognized teacher training institute.

Percentage of trained teachers at Sec Level

No. of trained teachers at Sec level ------ X 100 Total No. of teachers at Sec level (T+UT)

Transition Rate from ClassVIII to IX

Enrolment in Class IX – repeaters in class IX ------ X 100 Enrolment in Class VIII in the previous year

Dropout Rate for Secondary

Enroll in Class IX in 2009-10 – Enroll in Class X in 2010-11 ------ X100

Enrolment in class IX 2009-10

<u>Retention Rate for Secondary</u> 100 – Dropout Rate