MDM SMS Based Monitoring System

USER MANUAL
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1. Introduction

1.1 Purpose
MDMODISHA a project being developed for School & Mass Education Department, Govt. of Odisha to monitor the Mid Day Meal performance by collecting the information on Student enrollment, student attendance, Mid Day Meal serving, various expenses related to Mid Day Meal. Mid day meal programme is the popular name for the school meal programme in India. This is a SMS based monitoring system that allows users to update data on Daily/weekly/monthly basis just by sending one SMS to a given number from a registered number. The system also captures the daily MDM attendance status of children provided mid day meal, monthly cooking expenses and food grain and school expenses through SMS, web application as well as mobile application. The primary purpose of this project is to compare the amount allotted to all the schools applicable for MDM and actual expenditure.

1.2 Scope
The scope of this document is to explain the steps and procedure of capturing the daily enrollment status of children through SMS, web application as well as mobile application.

1.3 Getting Started
To start using the application, enter the url in the browser to view the following login screen:
In the displayed login screen, enter the **User Name** and **Password** of the authorized user in the respective textbox and click the **LOGIN** button.

After login, the user can now enter the application.
In the above displayed MDM dashboard, the users can view the summary of MDM attendance, food grain consumption, school expenditure, etc.

The important global links to be discussed are-

- **Master**
- **Transaction**
- **MIS**

## 2. MDM Scheme

An Online MDM reporting form is designed, hosted to the central server & available through web for access by concerned officials to register the mobile number of the school Head Master/Mistress (HM) through which SMS will be accepted by the system at central server. In the event of any change in mobile number(s) of the HM or MDM In-charge teacher, the concerned school will send a request for Updation of the mobile number to the Administrator through HQ District Inspector of Schools, who will approve the inclusion of the new mobile number(s) into the system database.
MDM SMS Based Monitoring System

Each Mid Day Meal in-charge teacher of a school is identified through a Registered Mobile number. Every time the mobile text message is sent to a fixed number that should come from the specific registered mobile number. Each message sent by the teacher received at the SMS server will be validated with the master data for source mobile numbers and with their demographic details such as village name, gram Panchayat/ward name block/urban local bodies name, district name, School name & date format. Once the data is received and validated, then the central database will get updated with the MDM data on that particular date. Mobile based application may be used for data Updation. User has to login with their mobile number as user id and password. The concerned teacher of the School will update the details of Mid Day Meal through the system. Schools having computers and internet facility for CAL & ICT programs can use this application for uploading daily information on Mid day meal activities. The MDM in-charge teacher can install the application on his/her own android mobile and send information as desired. The User can also update the data through the web base system also wherever internet facility is available in a computer using his/her user id & password.

Different MIS reports should be generated from the application software by CSMPL. The lists of reports are set out in the work order

2.1 Master

For enrollment of schools located at various locations into the MDM scheme and updating the respective school contacts, a master for each of the section needs to be created.

The master can be discussed under the following three primary links-
- MDM Enrollment
- School Contacts

2.1.1 MDM Enrollment

For enrollment of the schools, satisfying all the criteria and eligibility, into the MDM Scheme, click the MDM Enrollment primary link under Master-
To choose for the school names, select the name of the District and Block from the respective drop down lists and click the Show button-

On doing so, the school codes and name of the schools are displayed for the respective village/location along with their type.

Select the checkbox for the schools that are eligible to be included under the MDM scheme and click the Update button. By default, Govt. Schools and govt. Aided schools will remain selected. User has to verify those schools and click on submit button.

### 2.1.2 School Contacts

The schools that are included under the MDM Scheme, needs to update their contact details in order to SMS their daily attendance and monthly expenditure to the department.

#### 2.1.2.1 Update

For updating the contact details, click the School Contacts primary link wherein Update is the default page-
To display the names of the schools, select the name of the District and Block from the respective drop down list and click the Show button:

The list of school names along with their code are displayed for various locations and school type.

To update the contact details, enter the contact number of the Head Master and Asst. Teacher/Others Mobile number in the required space for the respective schools. Schools should update the contact details of those any one of two members who will be responsible for sending daily SMS.

Click the Update button to save the changes made.

The contact details updated can be used for reference.

2.1.2.2 View
To view for the contact details of the respective school authorities, click the View tab-

To display the contact details of the schools, select the name of the District and Block from the respective drop down list and click the Show button:
The list of school names along with their code are displayed for various locations and school type.

To modify any of the contact details of the schools, click the Edit option for the respective school code:

Enter changes for the mobile numbers of the respective authorities and click the Update option to save the modified data.

2.1.2.3 Search
To search for the details of a particular school and view for its contact details, click the Search tab:
Select the name of the District to display the schools for that location. Enter either the School Name or School Code whichever is known in the respective textbox provided and click the Show button.

The details of the school as per the given criteria are displayed. Enter changes if any in the space provided.

Select the checkbox if the respective school is eligible for MDM scheme or not and click the Update option to save the modifications done.

**2.1.2.4 Edit User**

Each block has users tagged to it depending on their type who has to look after the schools in that locality.

To view and modify the user details, click the Edit User tab to view the following screen-

To search for the user ids, select the User Type from the drop down list provided with the user Designation and name of the District.

Click the Show button to display the user details as shown below-
The Email ids of the users are displayed as per the user type selected.

Enter the Mobile Number for the respective user Name along with making changes in the Email id.

Select the checkbox for the block names which has to be updated and click the **Update** button.

### 2.2 Transaction

The details of the transactions taking place between the schools for providing meals to the school children with respect to various aspects.

The Transaction can be discussed under the following four primary links-

- **MDM Attendance**
- **Monthly Expenses**
- **Delete SMS**
- **SMS Alert**

#### 2.2.1 MDM Attendance

To view the details of the items supplied to the schools for providing mid day meals to the children of various locations, click the **MDM Attendance** primary link under Transaction-
From the options provided, select the name of the District where the school is located along with the Block/ULB name from the respective drop down list and click the Show button. The user can also select the transaction date if already known.

The details of transaction from the schools of selected block are displayed with their strength and amount provided to the primary and upper primary along with the Source Type through which the data is updated i.e. either Web or SMS.

Enter the figure for the transaction details provided to the respective schools and click the Update option to save the data entered.

2.2.2 Monthly Expenses
For maintaining a track of the total usage of the MDM items by a school for a particular period or for a month, click the Monthly Expenses primary link-

2.2.2.1 Update Expenses
The Update Expenses is the default screen wherein the user can update the monthly expenses for any financial year-
Select the **Financial Year** for which the expense details are required. By default the current financial year is selected.

Select a **Monthly Expense Type** for which the expenditure is made.

Select a **Month** for expenses along with the **Transaction Date** from the respective drop down list.

Select Yes if the School Code is known else choose No.

If Yes, then select the District name where the school is located providing the School Code in the desired textbox provided-

Click the **Next** option to proceed to the next screen as shown below-
The details of the school as per the code given are displayed along with their type.
- Enter the details of the expense for the type already selected i.e. Opening Balance, Amount Received and the total Expenditure in the respective textboxes provided.
- Provide the Source of updating the expense details and click the Update button to save the data entered.

In case the school code is not known, then choose No and click the Next option to view the following screen-

Select the name of the District, Block/ULB and Village from the respective drop down lists to locate the school.

Select the School Name for the location as chosen and click the Show option-

Enter the expense details for the respective school and Update the same.

**2.2.2 Monthly Expenses**
To update the transaction expenses on a monthly basis, click the Monthly Expenses tab-
Select the name of the District, Block/ULB, Year and Month from the respective drop down lists to choose for the expense details for the respective month.

Click the Choose File option to display the excel sheet where the data is entered in the desired format and Upload the same.

2.2.3 **Delete SMS**

For removing the MDM expense details for a school updated through SMS, click the **Delete SMS** primary link-

To display the expense details of a school, select the name of the **District**, **Block**, **Village** and **SMS Type** from the respective drop down list.

Select the **Year** and **Month** for which the expense details are required.

Select the **School** name whose MDM expense details are updated through SMS and click the **Show** button-
The expense details are displayed as per the selected criteria along with their Source type. Select the checkbox for the respective school code whose details are updated through SMS and click the **Delete** button to remove the record from the list.

### 2.2.4 SMS Alert

For sending the SMS Alert to the authorized officials of the district regarding the MDM expenses, click the **SMS Alert** primary link-

Enter the SMS Content that is intimated to the officials regarding the MDM expenses for the schools of the district. Select the checkbox for the designation of the officials to whom SMS is to be sent and click the **Show Mobile Number** option.

On doing so, the following mobile numbers are displayed-
Select the checkbox for the official names along with their mobile number to whom SMS is to be sent and click the Submit button.

On doing so, the SMS is sent to the selected authorities.

2.3 MIS

For all the activities carried out during the implementation of the MDM Scheme and usage of the same, click the MIS global link in the left menu.

2.3.1 Reports

To view the MIS reports for the MDM expenses, click the Reports primary link.

<table>
<thead>
<tr>
<th>SL.No.</th>
<th>District</th>
<th>Mobile Number</th>
<th>Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>State</td>
<td>9437692385</td>
<td>Sri Aravinda Agarwal</td>
</tr>
<tr>
<td>2</td>
<td>State</td>
<td>9700400271</td>
<td>Sri Ranjit Mohanty</td>
</tr>
<tr>
<td>3</td>
<td>State</td>
<td>9437650178</td>
<td>Bhawani Prahari</td>
</tr>
<tr>
<td>4</td>
<td>State</td>
<td>9437609900</td>
<td>Shri A.K. Panda</td>
</tr>
<tr>
<td>5</td>
<td>State</td>
<td>9437933383</td>
<td>Sri Debasis Mohra</td>
</tr>
<tr>
<td>6</td>
<td>State</td>
<td>9437865778</td>
<td>Sri Mahendra K.H. Mallick</td>
</tr>
</tbody>
</table>
The Reports can be discussed under three sections-

- **General**
- **Exceptional**
- **Graphical**

### 2.3.1.1 General

The general reports can be viewed under the following links-

a. **Mobile Number Update Status**

To update the mobile number of the schools included under the MDM scheme at various districts, click the **Mobile Number Update Status** link-
The count of schools updated number of mobile numbers for various districts is displayed along with the total figure.

To view the details of each, click the respective figure-

**b. Invalid SMS Report**

To get the detailed report of the SMS that seemed to be invalid, click the **Invalid SMS Report** link. Select the **Date** and **SMS Type** when the SMS was sent and click the **Show** option-

**c. Valid SMS Report**

To tracking the details of the total valid SMS sent to the officials for the MDM transaction, click the **Valid SMS Report** link-
Select the Date and SMS Type from the respective drop down list to choose for the type of SMS successfully sent.

The SMS report is displayed as per the selected SMS type with the School code, name and message sent.

To view the SMS history, for the respective school, click the SMS History link -

**d. SMS Success Rate**

To get the details of the SMS sent for the MDM Transaction to various numbers on various days, click the **SMS Success Rate** link -

By default Year and Month remains selected for the current day. Select the SMS Type for which the message was sent and click the **Show** button -

The SMS success rate for various dates is displayed with the total wrong SMS and total correct SMS sent.

**e. SMS History Report**
To view the detailed history of the SMS sent to various officials regarding MDM transaction, click the **SMS History Report** link-

Enter the 10 digit mobile number of the official to whom SMS was sent selecting the **SMS Type** and click the **Show** button-

The details of the SMS sent to the respective number are displayed along with its type and timings.

**f. School Participation Report**

To view the detailed report of the schools for a district eligible for MDM scheme and included for the same, click the **School Participation Report** link-

The list of total no. of schools located in various districts are displayed along with that participating in various activities are displayed.

**g. Deleted SMS Report**
For deleting the MDM transaction SMS details sent to various officials of a district, click the **Deleted SMS Report** link-

Select the location details from the respective drop down list along with the Year and month and click the Show option.

The deleted SMS report is displayed as per the chosen criteria.

**h. Daily Status Report**

To view the total number of schools in a district that are included under the MDM scheme and the status report of the same, click the **Daily Status Report** link-

Select the date for which the MDM transaction status is required and click the Show button.

The total number of schools in the respective district along with the schools taking part in the MDM scheme is displayed.

To view the school details for a district, click the respective district link-
i. Month wise Transaction Report

To generate the MDM transaction report for schools included under the MDM scheme on a monthly basis click the Month wise Transaction Report link-

The list of schools name are displayed as per the selected criteria along with the month wise MDM transaction details spent for various expense types.

j. Transaction Participation Report

To view the total number of schools of a district participating in the MDM scheme, click the Transaction Participation Report link-
Select the Year and Month along with the SMS Type through which data is updated and click the **Show** option.

The total number of schools included under the MDM scheme is displayed along with the schools participating and not participating.

### k. Genderwise Capacity Report

To view the number of girl and boy students studying in schools of various districts, click the **Genderwise Capacity Report** link-

On selecting the District and Block, the school capacity located at different districts are displayed with the total figure.

### l. School Management Type Wise Participation Report
To view the list of schools participated in various management types, click the **School Management Type Wise Participation Report** link-

![School Management Type Wise Participation](image)

Select the Year and Month from the respective drop down list for which the details are required along with the **Management Type** in which the schools have taken part and click the **Show** button-

![School Management Type Wise Participation](image)

The list of schools for the selected management type is displayed along with the figure for the total number of schools participating in the said activity.

**m. School Having Children Less Than or Greater Than 50% for MDM**

To view the list of schools having children less or greater than 50% for MDM, click the **School Having Children Less Than or Greater Than 50% for MDM** link-

![School Having Children Less Than Or Greater Than 50% For MDM](image)

Select the Date and Percentage for MDM schools from the respective drop down list and click the Show button.

The list of school names having children less or greater than the selected percentage is displayed.

**n. School Expenditure Comparison**
To view and compare the expenditure figure for different schools for the amount received for MDM, click the **School Expenditure Comparison** link-

![School Expenditure Comparison](image)

Select the name of the **District**, **Block** along with the **Year** and **Month** from the respective drop down lists for which the details are required and click the **Show** button-

![School Expenditure Comparison](image)

The list of schools for the selected district and Block are displayed giving the MDM expenditure details against the amount received for the same.

**o. List of School Not Served MDM**

To view for the schools names that have not served the mid day meals to the children, click the **List of School Not Served MDM** link. Select the name of the **District**, **Block** along with the **Year** and **Month** from the respective drop down lists for which the details are required and click the **Show** button-
The school names along with their code, school type, mobile number and no. of days the respective school has not served MDM to the students.

p. Average Meal Served

To view the details of the average quantity of meal served for the school children of various villages, click the Average Meal Served link. Select the name of the District, Block along with the Year and Month from the respective drop down lists for which the details are required and click the Show button-

The details of average meal served to the children of various school types are displayed along with the total school strength and total working days.

Click the Print option to generate printout of the average meal served.
2.3.1.2 Exceptional

The exceptional reports for MDM transaction of various schools can be viewed under the following links-

a. School Having no valid SMS

To view for the detailed report of the schools having no valid SMS for MDM transaction click the School Having no valid SMS link-

Select the name of the District and click the Show option to display the school names and their codes having no valid SMS for MDM transaction details.

b. School not involved in Transaction

To track the details of the schools not involved in the MDM transaction, click the School not involved in Transaction link-

The names of the schools along with their code are displayed for those that are not involved in MDM transaction for the respective district.

c. School Having no Mobile Number

To view the school names and their codes that have no mobile number contact, click the School Having no Mobile Number link-
Schools Having No Mobile Number

<table>
<thead>
<tr>
<th>Sl#</th>
<th>District Name</th>
<th>Block Name</th>
<th>Village Name</th>
<th>School Code</th>
<th>School Name</th>
<th>School Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>ANGUL</td>
<td>Angerabanda</td>
<td>Angerabanda</td>
<td>0108101</td>
<td>Angerabanda PS</td>
<td>GOVT.</td>
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<tr>
<td>2</td>
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<td>Ankula</td>
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<td>Ankula PS</td>
<td>GOVT.</td>
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<tr>
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<td>GOVT.</td>
</tr>
</tbody>
</table>

The school names and their codes are displayed along with their type that have no mobile number contact to update the MDM status.

d. School Having MDM allotment more than strength of School

Click the **School Having MDM allotment more than strength of School** link to view for the school names having the mid day meal allotment more as compared to that of the school strength-

Select the Date and name of the District from the respective drop down list to display the school names for the respective district.

2.3.1.3 **Graphical**

To view for the graphical representation of the MDM transaction of various schools click the following links-

a. **Graphical Analysis of District wise School Participation**

To view for the graphical report of the schools participating in the MDM scheme, click the **Graphical Analysis of District wise School Participation** link-
By default the current financial year is selected.

Select the transaction Type and click the **Show** option.

The rise in the above graph is for the selected transaction type for the respective district.

**b. Graphical Analysis of Block wise School Participation**

Click the **Graphical Analysis of Block wise School Participation** link to view the rise in the graph for block wise school participation in the MDM SMS-

Select the Financial Year and District for which the school participation details are required.

The graph for respective district shows the maximum no. of schools participating in the scheme for the respective district.
c. Pie Chart representing percentage of School participated

To view the details of the schools participating in the MDM scheme in form of pie chart, click the **Pie Chart representing percentage of School participated** link.

Select the Financial Year and MDM transaction type from the respective drop down list for which the schools have participated and click the Show button.

The pie chart for schools participating is displayed as per the selected type.

**d. Pie Chart representing percentage of School not participated**

To view the details of the schools not participating in the MDM scheme in form of pie chart, click the **Pie Chart representing percentage of School not participated** link.
Select the **Financial Year** and MDM transaction **type** from the respective drop down list for which the schools have not participated and click the **Show** button.

The pie chart for schools not participating is displayed as per the selected type.