

Techno-Economic Proposal

on

**Enhancement, Maintenance & Support Services
of
National Portal on Mid Day Meal Scheme
Mid Day Meal – Management Information System
(MDM-MIS)
Mid Day Meal – Automated Monitoring System
(MDM-AMS)**

For

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National Informatics Centre Services Inc.
Ministry of Electronics & IT (MeitY)
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I. INTRODUCTION

The **Midday Meal Scheme** is a school meal programme of the Government of India designed to improve the nutritional status of school-age children nationwide. The programme supplies free lunches on working days for children in primary and upper primary classes in government, government aided, local body, Education Guarantee Scheme, and alternate innovative education centres, Madarsa and Maqtabas supported under Samagra Shiksha, and National Child Labor Project schools run by the ministry of labor. Presently Serving about 120,000,000 children in over 1,265,000 schools and Education Guarantee Scheme centres, it is the largest such programme in the world.

The key objectives of the programme are:

- protecting children from classroom hunger
- increasing school enrolment and attendance
- improved socialisation among children belonging to all castes
- addressing malnutrition
- social empowerment through provision of employment to women

II. National Portal for Mid Day Meal

The Portal is a single point information provider regarding MDM, with all latest Rules, notifications, Reports related to release of central assistance to the States/UTs, State wise fund, food grain allocation etc. Documents related to Programme Approval Board meetings; guidelines for implementation of Mid Day Meal scheme; relevant reports on observations of joint review mission, important notifications, circulars, office orders. The user interface of the website will be improvised on the lines of Shagun. The Portal with MDM-MIS was launched in June 2012.

III. Mid Day Meal –Management Information System (MDM-MIS)

The MIS was launched in June, 2012 as a part of the portal to collect authentic data online and to monitor mid day meal scheme - uniformly by all the levels of administration, across the country.

The MIS captures important parameters/details, like category wise student enrolment, contact detail of teacher in charge of MDM, cook-cum-helpers detail with social composition, availability of Infrastructural facilities like Kitchen -Cum-stores & Kitchen devices, mode of cooking, drinking water, toilet facilities etc.

The States/UTs are also inputting monthly data into the portal, which helps in monitoring the critical components/ indicators of the MDMS such as no. of meals served, utilization of food grain & cooking cost, honorarium paid to cook -cum- Helpers, school details etc.

The sequence of flow of information from school level onwards is School->Block->District-> State->Centre. In the National Portal for MDM, the data is being compiled through MPR, QPR & APR from schools provisioning the MDM to students as per the defined schedules.

The central system which is being maintained, for which the current proposal is being submitted would validate, analyzes and deciphers to the stakeholders all the essential information for better

and effective management of the services. As part of the services alerts through SMS and email are being generated and also being displayed through dashboards on variations of reported data based on the norms prescribed for the implementation of the scheme.

The MIS also captures information of food-grain allocation, fund released from Ministry to states/ UT, states/ UT to districts and so on.

This MIS generates Annual work plan & budget for states/ UT on the basis of norms and requirement of states/ UT to calculate required quantity of food-grain, fund for next financial year.

IV. Modules in MDM-MIS:

- a) Master data Entry
 - User Creation
 - School directory updation
 - Creation and freezing of State/UT norms
 - Lifting agency entry and mapping with districts
 - District wise working days
 - NGO Master Entry and mapping with Schools
 - SHG Master Entry and mapping with schools
 - Entry of opening balances
 - No. of Children having Aadhar
- b) Annual and monthly data entry on critical components of MDM
- c) Offline data entry to enable data entry in districts/blocks with poor internet connectivity
- d) Fund flow, food grain management, payment to lifting agency as well as Food Corporation of India (FCI).
- e) Online District Wise AWP&B Submission by State and reports
- f) MDM MIS Integration with DBT and Reports

V. National Portal for Automated Monitoring System (MDM-AMS):

After successful completion of design, development and implementation of MIS for Mid Day Meal Scheme (MDM-MIS), The Ministry has proposed for a National Portal for Automated Monitoring System (MDM-AMS) to Report and Monitor online, daily Meals served, National/State/District/School Level, using data collected by states/UTs by different communication modes (like SMS, IVRS, Mobile APPs, Online web applications). Also, in case meals are not served, the reason there of, will also be collected. Feed back on quality of meal will be collected.

Scope of the project:

The Planned Features of new System:

Daily Data collection from Schools using SMS, IVRS, and Cell phone apps, Web applications.

All State level, Service Providers to Push the Data to NIC Data centre at a pre-defined frequency.

NIC to integrate, compare & analyze data from All Service providers and generate reports for all the Stakeholders.

Status of Project:

The application is ready for launch, now daily data from 36 states /UTS are collected, Reports are generated and displayed online in the Central dashboard.

Following steps are being proposed to improve the percentage of schools reporting daily data on AMS:

S. No.	Proposed strategy to increase the coverage	Action Plan
1.	Benchmark based SMS notifications:	Based on the level of performance of States as per AMS, SMS may be sent to officers right from the level of MDM coordinators to State Secretaries.
2.	Summary reports to District/Block	Summary report of schools under a block/district may be shared to officers at Block/District level for validation/authentication.
3.	Training and review of district level officials (in the lines of MDM-MIS) in the poor performing (below 40%) States/UTs	<ol style="list-style-type: none">1. Collation of detail on mode of data collection by States i.e. SMS/IVRS/Mobile/Web App.2. Collation of detail on agency involved in data collection i.e. State-NIC/ HP-NIC/Other agencies3. Preparation of State specific training module/ review proforma as per agency/mode of data collection.4. Training of district level officials by MDM-MIS consultants.5. Discussion on technical issues faced by States/UTs & districts.6. Resolution of issues.
4.	Bulk SMS to teachers.	Periodic bulk SMS to teachers using NIC SMS gateway to ensure that they send daily data.

VI. Achievements of MDM-MIS in FY 2019-20

- Almost 40 thousand users at all levels, accessing the data and Reports
- Master directory consists of almost 11.2 lakh schools
- Annual data entered at 94.45% schools in FY 2019-20.
- Monthly data entered at 80.10% schools till December 2019.
- Health data entered at 9.25% schools till 3rd quarter in FY 2019-20.
- Mater Data Replication
- MDM MIS Integration with DBT
- User friendly Module for DBT Data Entry by State/UT and Various reports for Centre and State/UT
- Bulk SMS has been sent to Teachers informing /remaining about the NAT and to encourage them to participate.

- Bulk SMS has been sent to Teachers informing /remaining about the Pariksha Pe Charcha 2020
- Bulk SMS has been sent to DEO's about the Pariksha Pe Charcha 2020
- Synchronization of School DISE Code with UDISE+
- Comparison Report between MIS and AMS
- Schools rearrangement when District or block is bifurcated
- Customized reports (format designed by state/district) as per the requirement of ministry / State / UT.
- Application/ Database server synchronization, cleaning and backup on regular basis
- Updates have been installed on servers to prevent possible attack wannacry ransom ware.
- SMB ports have been disabled on servers to prevent wannacry ransom ware.
- Data base contains valuable micro and macro level data of Financial Years from 2012 -13 to 2019-20
- Inclusion of feedback received from the State level users during interactive/workshop sessions
- Users query, suggestion, problems are rectified on daily basis in MIS

VII. Achievements of MDM-AMS in FY 2019-20

- All 36 states/UT are pushing daily school meals served data on MDM AMS Portal.
- Master directory consists of almost 11.2 lakh schools
- Daily school data reported almost 60.0%.
- Almost 12.6 crore children enrolled.
- Comparison Report between MIS and AMS
- Schools rearrangement when District or block is bifurcated
- Customized reports (format designed by state/district) as per the requirement of ministry / States.
- Application/ Database server synchronization, cleaning and backup on regular basis
- Updates have been installed on servers to prevent possible attack wannacry ransom ware.
- SMB ports have been disabled on servers to prevent wannacry ransom ware.
- Daily reported schools status alerts sent to concerns via email
- Average and Miscellaneous reports have been incorporated in AMS
- Synchronization with state pushing daily MDM data Integration with Centralized db
- Data entry status communicated periodically to competent authorities
- Inclusion of feedback received from the State level users during interactive/workshop sessions
- Users query, suggestion, problems are rectified on daily basis in MIS/AMS

VIII. Application Software Development for Samagra Shiksha - Jal Suraksha & Vriksha Ropan.

Samagra Shiksha Jal Suraksh

Inspired by the Honorable Prime Minister' s impetus on Jal Sanchay, Government of India has launched the Jal Shakti Abhiyan (JSA) to revive India back to a sustained system of water

conservation and efficient irrigation. Jal Shakti Abhiyan (JSA) is a time bound campaign with a mission mode approach.

Department of School Education & Literacy, Ministry of Human Resource Development has come up with a Shala Jal Shakti Abhiyan (SJSa) Programme to promote water conservation activities for the school students in our country.

Samagra Shiksha Vriksha Ropan

Inspired by the Honorable Union Minister of Human Resource Development's appeal made during the launch of 'Samagra Shiksha Jal Suraksha' campaign, the Ministry has requested all the States and UTs that every student must plant a tree on his/her birthday. The students may be encouraged to plant a tree, take a selfie with it and show it to their school teachers. The best efforts of students in tree plantation may be awarded suitably. The activities may be taken up through the Eco-Clubs also.

The Website for SS JS& VR (<http://>) (<http://164.100.68.163/sjsa>) Site may be made online after necessary third party auditing.

System Flow of Samagra Shiksha -Jal Suraksha & Vriksha Ropan:

Every Daily Principal / Head Teacher /Teacher designated will key in the Daily Water saved and tree planted, by the students' data, from his registered mobile number.

Data will be collected in the Central Server.

Based on the data collected, Online Dashboard and drilldown reports on water saved & Trees Planted will be displayed on following headings:

Total Number of Schools Registered in the SSJS and SSVR

Schools Reported Today

Water Saved in litres, and Trees Planted by the reported schools daily

Cumulative Water Saved and Trees Planted by the reported schools under SS-JS & VR

Periodical Alert SMS /email will be sent to Block/District/State officers on non reporting schools.

Online facility to edit/add/delete the schools registered in the master data

Online facility to add/delete/ modify and rearrange reporting priority of teachers, of Registered Schools.

IX. Ongoing scope of work from 2019-20:

- State / District / Block / Village Codes mapping with LGD Codes
- School DISE Code mapping with UDISE Code
- Integration of MDM MIS and AMS with Samagra Shiksha
- User friendly interface of MDM DBT Module
- Redesigning the Present Static MDM Website in to a dynamic website
- Introduction of CMS Based Web site updation
- Redesigning the Home Page and adding New Reports
- More attractive, user friendly and responsive Report design of MDM-MIS & MDM-AMS
- Design and developing comparative reports using AMS and MIS data of critical Indicators such as daily number of meals served.
- Provision to generate adhoc reports by users
- Both MDM-MIS & MDM-AMS Applications Maintenance, Enhancement & Support Services
- Graphical Dashboards for various levels of monitoring
- MDM MIS Data archival

- Website Enhancement & updation
- Website & Application Security Audit
- Summary report of MDM AMS Data of schools under a block/district may shared to officers at Block/District level for validation/authentication.
- Training, workshop for users on new modification /Developments
- Development of new drilldown analytical reports
- Automated system, Dashboard for dynamic daily meals served / not served data of all the States using daily MDM-AMS data collected from schools

X. SMS Service for NAT and to communicate with MDM Teachers

The Scheme of National Award to Teachers with the object of raising the prestige of teachers and giving public recognition to the meritorious services of outstanding teachers working in Primary, Middle and Higher Secondary Schools.

Every Year bulk SMS communications were sent to teachers informing /remaining about the NAT and to encourage them to participate.

Also time to time bulk SMS where sent to MDM teachers regarding MDM activities.

This year MDM, MHRD has proposed following new SMS Notifications:

S. No.	Proposed strategy to increase the coverage	Action to be Taken / Plan
1.	Benchmark based SMS notifications:	Based on the performance level of "Daily Meals Served SMS "in the MDM AMS Application, advisory SMS may be sent to State MDM officers right from the level of coordinators to State Secretaries
2.	Bulk SMS to MDM In charge teachers	Bulk SMS to MDM In charge teachers reminding them to send daily meals data.

XI. Integration with Samagra Shiksha Application

After discussion with the Ministry, it has been proposed to integrate following essential parameters of MDM MIS & AMS with Samagra Shiksha:

Following activities are proposed to be carried out for integration of database of MDM with UDISE +

- i) Mapping of schools in MDM-MIS with UDISE+
- ii) Sharing the data of major indicators viz. coverage of children, working days, availability of kitchen-cum-stores, kitchen devices.
- iii) Ensuring the visibility of MDM related parameters on Dashboard.
- iv) MDM data to be GIS mapped:
 - Plotting the data of identified parameters of MDMS on GIS.
 - Data on performance of States as per AMS may be plotted on GIS.

- Data on availability/development of kitchen gardens will be captured through MDM-MIS. Also Krishi Vigyan Kendras will be mapped with corresponding States and districts. This may be plotted on GIS.
- Data on Rashtriya Bal Swasthya Karyakram, distribution of IFA may be shown through GIS.

a) Performance Grading Index: MDM parameters

Two parameters of MDM i.e. coverage of children against PAB approval and coverage of working days are already part of 70 parameters of MDM. The data on same parameters may also be provided district-wise as per the requirement.

b) Shagun: Uploading MDM related documents/videos

ii) Major documents related revision of MDM guidelines may be shared from MDM website to Shagun portal (under "Major Documents" section)

iii) Shagun Repository: Selected/ shortlisted images and videos of MDMS may be displayed on Shagun website after requisite approval process.

XII. Implementing Agency:

National Informatics Centre Services Inc
Ministry of Electronics and Information Technology, (MeitY)
Government of India, New Delhi.

XIII. Agency of Project Deliverables:

Department of School Education and Literacy
Ministry of Human Resource Development,
Government of India, New Delhi.

XVI. Budgetary Details:

a) Sanction and Release of funds for 2019-20:

Financial Year	Amount Approved	Expenditure incurred
2019-20	52.56 Lakh	21.80 Lakh

b) Status of Proposed Activities for 2019-20

PAB-MDM 2019-20 approved components. :-

Sr. No.	Component	Activity	Status of the Activities	Estimated Cost (Rs. In Lakhs)
1	For redesign of MDM website and interlinking with Samagra Shiksha Website	Development of Content management system and integration	Ongoing	12.00
		Compliance to GIGW guidelines		
2	AMS, MIS portal and integration with UDISE+	Maintenance of portal (2 manpower for 1 year)	Completed for the Financial Year 2019-20	24.77
		Aligning master and transaction data with UDISE+ (1 manpower: DBA for 12 months)	Ongoing	8.75
		Hardware	After completion of Component 1	1.18
		Security audit	After Completion of Component 1	2.50
		Capacity building/ training modules/ training and orientation for on boarding of States/UTs (1 resource person to resolve technical issues to accompany with MHRD/TSG)	After completion of Component 1	1.00
4	SMS Services	SMS Services for : a) Benchmark based SMS notifications for AMS b) National Award to Teachers	Completed for Financial Year 2019-20	2.36
	Total			52.56*

* includes NICS administrative charges and GST@18%

Rs. 52.56 Lakh was Sanctioned In the PAB-MDM 2019-20 for above mentioned components, is under process and requested to be released in an early date.

c) Proposal for 2020-21

No.	Activity to be undertaken in 2020-21	Proposal for 2020-21 (Rs. In lakh)
1	Maintenance, Enhancement & support Services of MDM-MIS, MDM-AMS Portal	18.76
2	SMS Services For notifications for AMS, National Award to Teachers and Pariksha Pe Charcha etc	6.00
Total		24.76**

* * includes NICSI administrative charges and GST@18%

Note: All the funds may be transferred in favour of NICSI, New Delhi.