Malnutrition Monitoring System
Fostering the Implementation of ICDS in Malda, West Bengal

The system helps to sort the data based on different key parameters like child growth, MUAC (Mean Upper Arm Circumference) and breastfeeding status, and therefore to identify areas of concern and implement directed intervention. This system has recently upgraded to incorporate detailed information regarding own building of ICDS centres including those under construction with photograph and geospatial information.

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Nutritional status of a child is one of the most important indicators of the nation's health. Common indicators of malnutrition include underweight, wasting and stunting of growth. The District of Malda has a high prevalence of underweight children. 28.88 percent of the children in the zero to five age group are found to be underweight. Lack of quality monitoring system with feedback mechanism is a major challenge to the successful implementation of the Integrated Child Development Scheme (ICDS). The **Malnutrition Monitoring System** is a web enabled system based on open source tools. Its target is to create a healthy practice of continuous supervision and tackling the situation through various measures such as food supplement, referring the child to the doctor and intimating the parents concerned etc.

DELIVERABLES OF THE SOFTWARE

- Easy operation based on user roles, management and menus
- Option for Batch and Quick Data Entry, Edit and update with automatic Child ID
- Insertion of new item MUAC (Mean Upper Arm Circumference)
- Availability of various reports
- Bar Diagram for Project wise Severely Malnourished/ Malnourished Children
- Performance report with Pie Chart in 3 different ways (As reported by Supervisors, Age-vs-Weight, Height-vs-Weight)
- Individual Child Status with Graph
- Anganwadi Centre-wise details
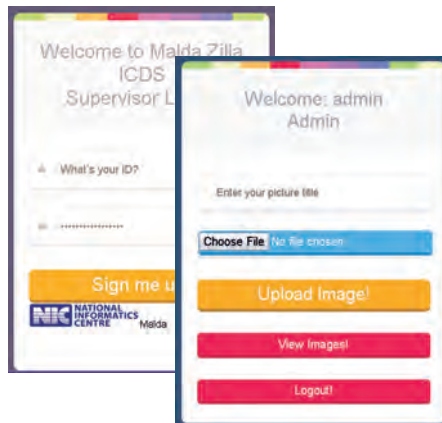- Project/ Supervisor/ Centre-wise list of Severely Malnourished/ Malnourished Children against the parameter (Age-vs-Weight) OR (Height-vs-Weight) OR (As reported by Supervisor
- Uploading Bulk photo from Client / Server
- Menu based Data backup

> " I am happy to know about the implementation of Malnutrition software for the children of Malda District. I appreciate NIC's initiative and I am sure that through proper monitoring, the malnutrition levels in the district will be controlled. A system is as good as the people who run it. I assure you necessary support in motivating the CDPOs, the Supervisors and Anganwadi Workers.
>
> **ROSHNI SEN, IAS**
> **Secretary**
> **Department of Women & Child Development & Social Welfare**
> **Govt. of West Bengal** "

MOBILE APPLICATION FOR CENTRE VISIT BY THE SUPERVISORS AND CDPOS

To monitor the field visit and centre visit by the CDPOs and Supervisors, a mobile application has been developed and implemented. Supervisors capture the activities at the Anganwadi Centre during their centre visit and upload into the portal through their Mobile phone installed with mobile App. These facilitate monitoring of field visit by the ground level officials and activities at the centre.

APPLICATION FOR ICDS INFRASTRUCTURE

To monitor the existing infrastructure under ICDS and to strengthen the infrastructure through proper monitoring, a web-based application has been developed and implemented in the District during August, 2017. The application provides login by the CDPOs and upload details of their own building, under construction building of Anganwadi Centre along with photograph. Administrative user can log in to view and monitoring.

> **NIC Malda has played a pivotal role in aiding the administration to track the status of malnutrition among the children in various forms with this web enabled Malnutrition Monitoring System. It helps to sort the data based on different key parameters like child growth, MUAC (Mean Upper Arm Circumference) and breastfeeding status, and therefore to identify areas of concern and implement directed intervention.**
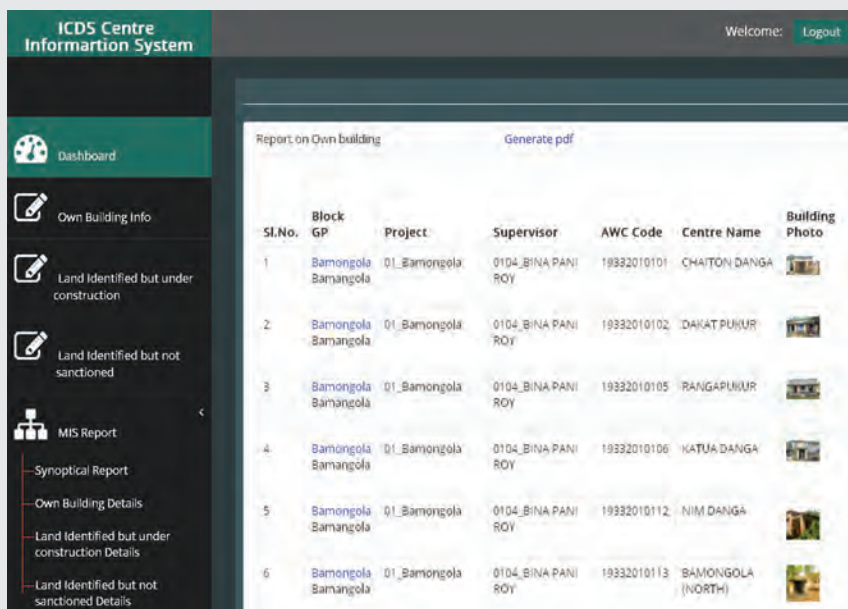>
> **KAUSHIK BHATTACHARYA, IAS**
> **District Magistrate & Collector**
> **Malda, West Bengal**

from 65,365 as on date.

• Total child records increased to 4,82,072 from 3,22,698 in the database.

• As per WHO's standard table, the health status of each child is evaluated and plotted on a graph.

• Performance of Project, Supervisors, and Anganwadi Centres are evaluated and plotted on Pie diagram.

RESULTS & OUTCOME

• The classification of the child is done on the lines of Growth Charts provided by the World Health Organization. The status of the child is plotted against age and is shown as a graph.

• Severely malnourished children reduced to 6,327 from 23,078, Moderately malnourished reduced to 35,763