Monitoring Of Handloom Schemes Of Manipur Using GIS:
Enabling Better Management

GIS based applications are being used widely for analyzing and providing decision support for various activities. MOHSOM software uses the technology to track the events and activities of the handloom schemes being implemented in a Cluster and thereby provide support in decision-making to the State Department

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The online Monitoring of Handloom Schemes of Manipur (MOHSOM) is a GIS based system developed by NIC Manipur for the Department of Commerce & Industry, Government of Manipur. The system was launched by Shri Gaikhangam, Hon'ble Deputy Chief Minister of Manipur on 19th June 2015 in the Bishnupur District.

Launching of MOHSOM by Shri Gaikhangam, Hon'ble Deputy Chief Minister of Manipur

The Handloom Section of the Department uses this online application for monitoring the implementation of the Handloom Schemes and various related activities. Activities included under this scheme are the distribution of looms & accesso-ries, training for skill development, construction of work sheds and other miscellaneous events.

GIS based applications are being widely used for making analysis and decision support for various activities. Similarly, MOHSOM software using GIS can track the event and activities of the Handloom schemes being implemented in a Cluster and thereby provide support in decision-making to the State Department. One such scheme being implemented in Manipur is the NERTPS (North East Regional Textile Promotion Scheme), funded by Government of India since the year 2015. Under this scheme, 51 clusters have been approved and are spread all over the 9 districts in Manipur. It is a challenging task for the department to

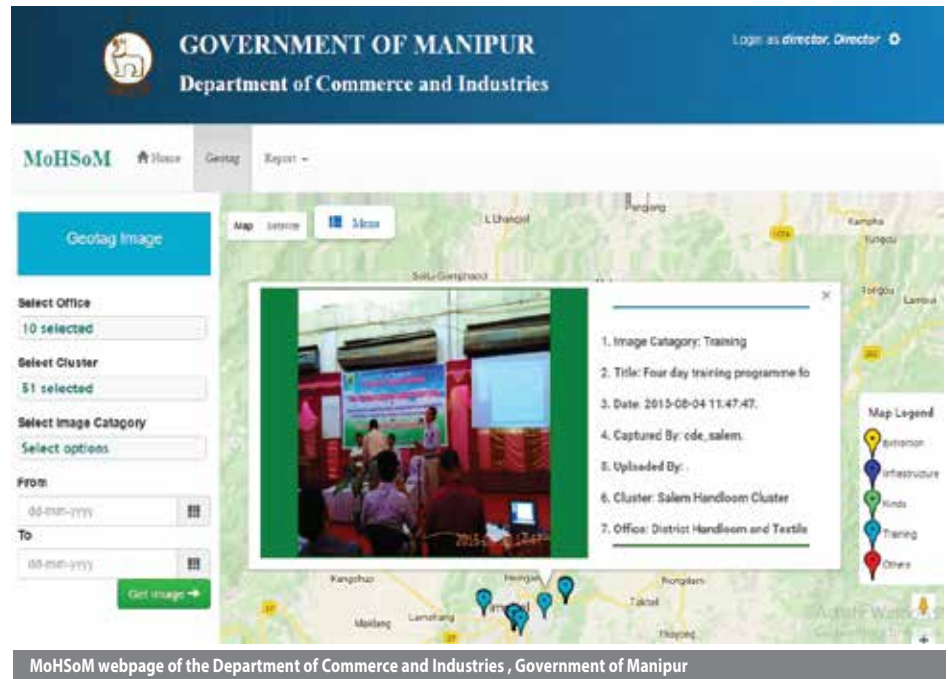inspect the status and progress of implementation of these 51 clusters.

Considering various parameters of the scheme, NIC Manipur has developed the MOHSOM software using GIS for monitoring the progress of construction of work sheds, conducting training of weaving design and skill development at the registered clusters.

DEVELOPMENT OF THE SOFTWARE

This online application has been developed in Open Source Technologies and Standards using PHP 5.4. The back end database is MySQL 2.2 with Apache web server 2.3. The freely available Google Maps is used for rendering the satellite/terrestrial or images by web browsers. A smart phone application (MOHSOM) has been developed for geo tagging and time stamping of each photograph. Any Smartphone or mobile phone with android version 2.3 or higher can be installed with this App.

The application is hosted at NIC Manipur Mini Data Centre, Imphal under the URL http://ehlmanipur.nic.in. The software is built with the emerging trends of industry standard technologies and best practices.

> Using MOHSOM, the department can easily monitor the work progress of handloom schemes implemented in clusters in all the districts of Manipur without physical inspection at the sites. Assessment of work activities under the handloom schemes implemented by Government of Manipur, funded by the Government of India has been streamlined using MOHSOM.

MoHSoM webpage of the Department of Commerce and Industries , Government of Manipur

FEATURES OF THE SYSTEM

Under the NERTPS scheme, Cluster Division Executives (CDE) are appointed in each Cluster to assist the District Project Manager in the implementation of the Handloom Scheme. Using the App (MOHSOM) on a Smartphone, the CDE captures the photographs of the activity or events in a Cluster. Additional information of the type of activities and description are also recorded while saving the photographs. These captured Photographs are then uploaded to the MOHSOM application which is used to display on a GIS map with information of date & time, and description of a particular event. Based on this information, the department can easily monitor the work progress of handloom schemes implemented in clusters in all the districts of Manipur without physical inspection at the sites.

The abstracts of fund flow from the Directorate to the Project Managers in the Districts or to any stakeholders under the scheme are also captured for transparency and accounting purposes. Receipts and payments of money are also monitored using the system.

The portal also provides information on stakeholders, SHG and details of the beneficiaries in cluster-wise and district wise formats.

MANAGEMENT INFORMATION SYSTEM

The system generates reports with satellite image for the various types of activities viz., Infrastructure development, Training, Exhibitions, and other miscellaneous with the description of the activity in the particular Cluster. These kinds of reports are very helpful in verifying the status of the scheme activity for that Cluster and saves time and effort of a physical visit to the remote and difficult to visit hilly areas in the districts.

SUMMARY

MOHSOM software is a boon for monitoring the progress of the implementation of Handloom Schemes under NERTPS project since 2015. Assessment of work activities under the handloom schemes implemented by the Government of Manipur and funded by the Government of India has been streamlined using MOHSOM.

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