



# MIRSAC Newsletter

Mizoram Remote Sensing Application Centre  
(An Autonomous Govt. Institution under Science & Technology, Planning Department, Govt. of Mizoram)

Volume: 2

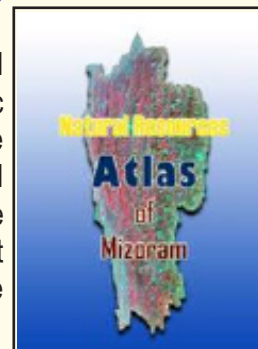
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## *Natural Resources Atlas of Mizoram*

Natural Resources Atlas of Mizoram prepared by MIRSAC envisages at providing a synoptic and comprehensive view of the valuable natural resources that the State is endowed with. It also highlights and quantifies the statistical aspect of Natural resources present based on data analysed through Remote Sensing and GIS.



In addition to the natural resources, the inclusion of climatic data (Temperature and Rainfall) collected during a span of 22 years (1986-2008) makes this Atlas a much valuable asset to the users interested in various fields of research and development.

The Atlas is an exhaustive repository of maps and statistical data categorised into 10 themes (including Temperature & Rainfall). Data for the entire state of Mizoram covering an area of 21,087 Sqkm; further categorized in district wise formats is illustrated in this 147 paged Atlas. Baseline data for extraction of natural resources were done using IRS imagery LISS III and PAN. The mapping was done on a scale of 1:50,000 which provides much of the information required for planning at regional level.

### **Governing Body of MIRSAC**

Chairman : Pu C. Lalsawta  
Principal Secretary  
Planning Department

Vice Chairman : Pu Yograj Chhetry  
Principal Adviser /  
Ex-Officio Addl. Secretary,  
Planning Department

Member Secretary : Dr. R.K.Lallianthanga  
Project Director,  
MIRSAC

Members : 15 members from  
various State Departments

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The Atlas was released on 10th December 2009 by Pu Lalthanzara, Parliamentary Secretary, Govt. of Mizoram at Chief Minister's conference room, Mcdonald Hill. Pu Lalthanzara appreciated the efforts given by the centre and said that the data would provide important information in different aspects of developmental and planning programmes. Pu Joseph Lalhimpuia, Vice Chairman, Lunglei High Powered Committee also gave positive comments about the Atlas. The release function was attended by officers of various State Departments, scholars, researchers and media personels. Copies of the Atlas were given to all the officers of line departments who attended the release function.



## From Editor's desk

The milestones for achieving accuracy, reliability and data flexibility in today's geospatial information-based-economy becomes a competitive workspace for every player in the field of Remote Sensing and GIS. Geospatial information, increasingly becomes the driving force for decision making across different platforms of local and national level. MIRSAC has been involved in this race since its inception in Mizoram and still strives towards providing valuable geospatial information to those in need.

Its gives me great pleasure that the second issue of MIRSAC newsletter is published again within a short span of time. This issue of the newsletter highlights most of the projects and activities of MIRSAC, participation and services rendered to various state departments in execution of user demand projects.

## Visitors at MIRSAC



Shri. P.P. Srivastav, Honorable Member of NEC, Shillong visited MIRSAC on 12th January 2010.



Shri. Anil Pogate, Consultant to CM had a courtesy visit to MIRSAC on 19th March 2010.



Mr. B.K. Handique, Scientist SD, NESAC Shillong visited MIRSAC to discuss matters concerned with Sericulture development project on 25th May 2010.

## From Project Director's

MIRSAC has made progress in enhancing the utilities of Remote sensing & GIS technology in various application fields for the benefit the state of Mizoram. The noteworthy on-going project taken up by the Centre is *Disaster Management System* Project sponsored by NEC. Under this project-Landslide Hazard Zonation and Flood Hazard Zonation at 1:50,000 scale covering the entire state and Landslide Hazard Zonation for selected major towns and city at 1:5000 scale, and Earthquake Hazard Zonation are the main highlights of importance. Other User paid projects are *Mapping of Surface Water and Ground water Potential* for PHED, Mizoram and *Digitization of Core Network* under Mizoram PWD (PMGSY), which are detailed to be completed by this year.

MIRSAC is also co-ordinating with various Space Organisations like ISRO, NRSC, SAC and NESAC for carrying out most of the nation-wide projects for Mizoram. *10K Thematic Mapping and Geospatial Database Generation* is one of the important projects taken up by the Centre. This is a part of ISRO project on space based information support for decentralised planning (SIS-DP) under NNRMS. *National Urban Information System (NUIS)* is a nation wide project coordinated by NRSC, Hyderabad. Under this project two towns viz. Lunglei and Champhai will be mapped. *Nation-Wide Wasteland Change Analysis*, a project funded by Department of Land Resources, MRD, New Delhi and coordinated by NRSC, Hyderabad is also one of the project to be executed by MIRSAC. *Spatial Assessment of Soil Carbon Pool* is a project launched by ISRO, coordinated by NESAC and for the state of Mizoram is executed by MIRSAC.

A project funded by Central Silk Board and coordinated by NESAC- Sericulture Development Project is also at its final stage of completion. The Centre is also participating in preparing *Forest Working plan inputs for Mizoram* in collaboration with NESAC and Environment and Forest Department, Government of Mizoram.

There is a large scope in utilizing Remote Sensing and GIS for planning and implementation of various developmental projects. Owing to this scope, various departments are yet to make extensive use of these data.



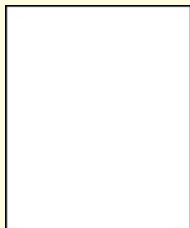
## On-going Projects at MIRSAC

1. Disaster Management System
2. Sericulture Development Project
3. Integrated Land Use Planning - Serchhip District
4. Surface Water & Ground Water Potential Mapping
5. Digitization of Core Network under Mizoram PWD (PMGSY)
6. Remote Sensing & GIS Inputs for Forest Working plan
7. Spatial Assessment of Soil carbon pool
8. National Urban Information System (NUIS) - (Lunglei & Champhai town)
9. 10K Thematic Mapping
10. Wasteland Change Analysis

## MIRSAC DATA UTILIZATION BY VARIOUS USERS (2009-2010)

MIRSAC has been providing spatial and non-spatial data and rendering its services in various Remote Sensing and GIS related works for the State. Usually, reports and maps are given free of cost to the invitees at the time of release function. In addition to that, reports and maps are provided to the users on demand basis at nominal charge. During the financial year 2009-2010, the Centre has prepared several maps and issued reports at the request of the users as listed below.

### MAP DATA



Sl.No.	Name of Department	No.
1.	Environment & Forests Department	24
2.	Rural Development Department (including DRDA)	8
3.	Minor Irrigation Department	4
4.	Agriculture Department	3
5.	P.H.E. Department	2
6.	A.H. & Vety Department	1
7.	UD&PA Department	1
8.	PWD	1
9.	Mizoram University	3
10.	Others	11
<b>TOTAL :-</b>		<b>58</b>

### REPORTS



Sl.No.	Name of Department	No. of copies
1.	Environment & Forests Department	17
2.	Rural Development Department (including DRDA)	12
3.	Minor Irrigation Department	3
4.	Agriculture Department	12
5.	DM&R Department	1
6.	Soil & Water Conservation Department	1
7.	Sericulture Department	1
8.	LAD	2
9.	Economic & Statistics Department	1
10.	SIRD	4
11.	Town & Country Planning Department	2
12.	KVK	3
13.	Mizoram University	25
14.	Others	57
<b>TOTAL :-</b>		<b>141</b>

## NEWS &amp; ACTIVITIES

\* The centre organised a Consultation meeting on Integrated Land Use Planning for Serchhip district at D.C Conference hall, D.C Office, Serchhip on 9th February 2010 under the chairmanship of Pu H.Darzika, DC Serchhip. Pu Lalnunsiana Colney, Senior Scientists, Pu K.Lalrammuana, Scientific Officer, Robert Lalchhanhima Sailo, Scientist & Pu H.Lalchhandama,



\* Pu Lalnunsiana Colney (Senior scientist), Pu F.Lalramchuana (Scientific Officer), Pi Hmingthanpuii (Scientist) & Pu Edward Lalzuithanga (Scientist) attended and presented papers on Remote Sensing and GIS Applications under relevant science streams during the Lecturer's refresher course programme held at Mizoram University Campus during March 2010.

\* Dr. R.K. Lallianthanga, Project Director was invited at the Apex Body meeting of NLUP on 19th May 2010 at Tourist Lodge, Chaltlang which was chaired by Pu.Lalthanhawla, Hon'ble Chief Minister of Mizoram. Project Director, MIRSAC gave a presentation on the capabilities of Remote Sensing and GIS for Land Use planning. The maps prepared by the centre under different themes were displayed at the venue.

\* Z.D. Laltanpuia, Scientist attended 'Workshop on Earthquake Hazard and Mitigation in North-East India' at NEIST, Jorhat, Assam on 7th June 2010.

\* Dr. R.K. Lalianthanga, Project Director attended a meeting of the Head of Remote Sensing Centre of North Eastern region at NESAC, Umium, Maghalaya on 10th June 2010

\* Maps and relevant data were put on display by the Centre at the "State Level Workshop on NLUP" at Tourist Lodge, Chaltlang on 11th June 2010. Pu Lalbiakmawia & Pu H.Lalhmachhuana, Scientists of MIRSAC attended the workshop and gave necessary information about the maps displayed.

\* Pu F. Lalramchuana, Scientific Officer attended 'Training of Application of Geo-informatics in Disaster Management' at National Institute of Disaster Management (NIDM), Ministry of Home Affairs, New Delhi during 21st-25th June 2010.

## Meeting on Sericulture Dev. Project



## MIRSAC's Day Out @ West End, Lengpui

