



Department of Electronics and Information Technology  
Ministry of Communications and Information Technology  
Government of India



# Digital India

## Workshop on Geo-Informatics

*by Assam - SeMT*  
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**Sr-Consultant(SeMT)**

**- 30 March 2016**

# Progress of Assam in Implementing GIS based Decision Support Systems (DSS)(Done)

Sl. No	Name of the Owning State Department	Name of the Implementing Agency	Implementation Area <e.g. Agriculture, Natural Disaster, Forest, Aviation, Mining, Infra., Health etc.)
1	Amtron	GIS department, Amtron	1> Seismic Microzonation of Guwahati Region . 2> Election Department, Assam 3> Bamboo Coverage Map Of Assam 4> GIIRUPM 5> Geospatial Infrastructure Development and Creation of Rural Geospatial Database for Dimoria CD Block, Kamrup District.

# Assam GIS Implementation Stage

- Whether any coordination mechanism set by the State / UT for GIS related work among its Departments?

**Comments:-** Yes, AMTRON is leading in GIS consultancy is doing coordination with in department when and where any requirement or need come.

- Whether any attempt has been made by the State / UT, for integration among all the available GIS apps

**Comments:-** Yes AMTRON is leading in GIS consultancy in the NE Region of India. GIS division of AMTRON with the high-end software and hardware provides services incorporating GIS & Remote Sensing Technology to its clients with quality output.

- Whether any State/UT wide GIS framework developed?, scale of work undertaken.

**Comments:-** No Idea

- Current Role of SeMT and NIC in GIS State / UT GIS Implementations

**Comments:-** SeMT done the coordination with in Departments and provide the expert data to required department to create effective GIS application.

# GIS Plans / Goals of the State(Done)

- To map complete natural resources of the state
- To Create DEM(Digital Elevation Model) of sub-meter accuracy for the state.
- To Create DTM(Digital Terrain Model) for the state.
- To develop location based solutions for state line departments.
- 3D mapping of urban areas

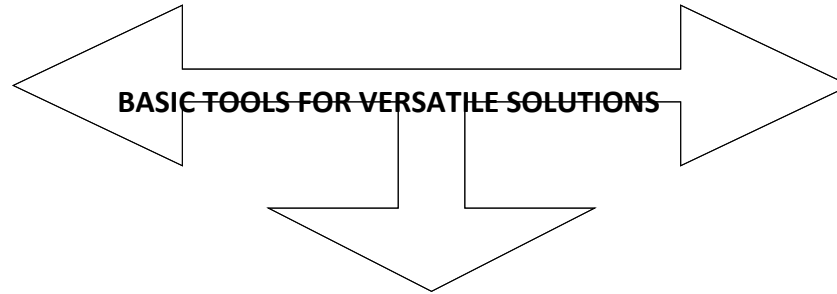
# Support Desired from DeitY(Done)

- DeitY desires to support GIS based governance in various States/UTs using grass root data, based on multi-purpose common database concepts. DeitY can provide the following support on GIS:
  - GIS framework
  - Capacity building w.r.t. GIS
  - Proof of Concept Studies
  - GIS application development / enhancement>

# Major Achievements



GARIIASI  
( Desk Top GIS )



iGARIIASI  
(Web GIS)



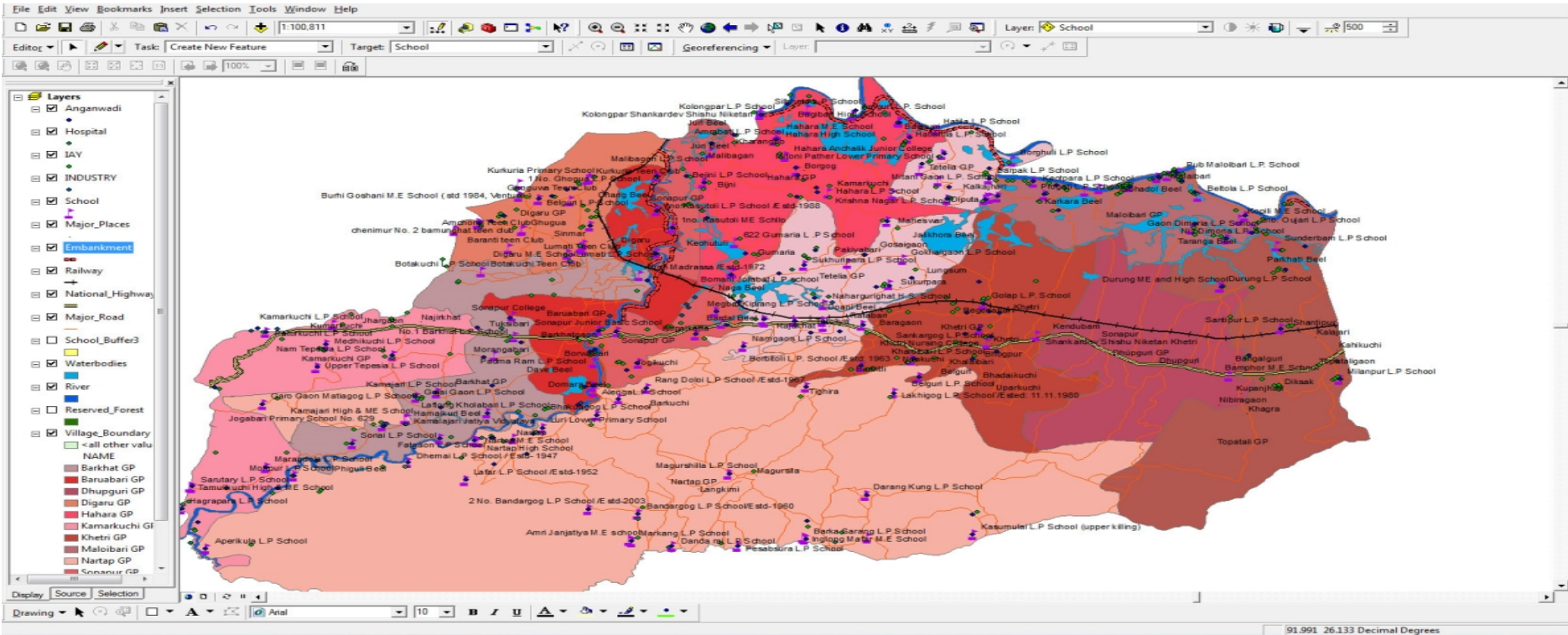
CAARS

(Catalogue Archival & Retrieval System)  
**A GIS & RS Data Management Tool**

# FEW SNAP SHOTS OF THE OUTPUT

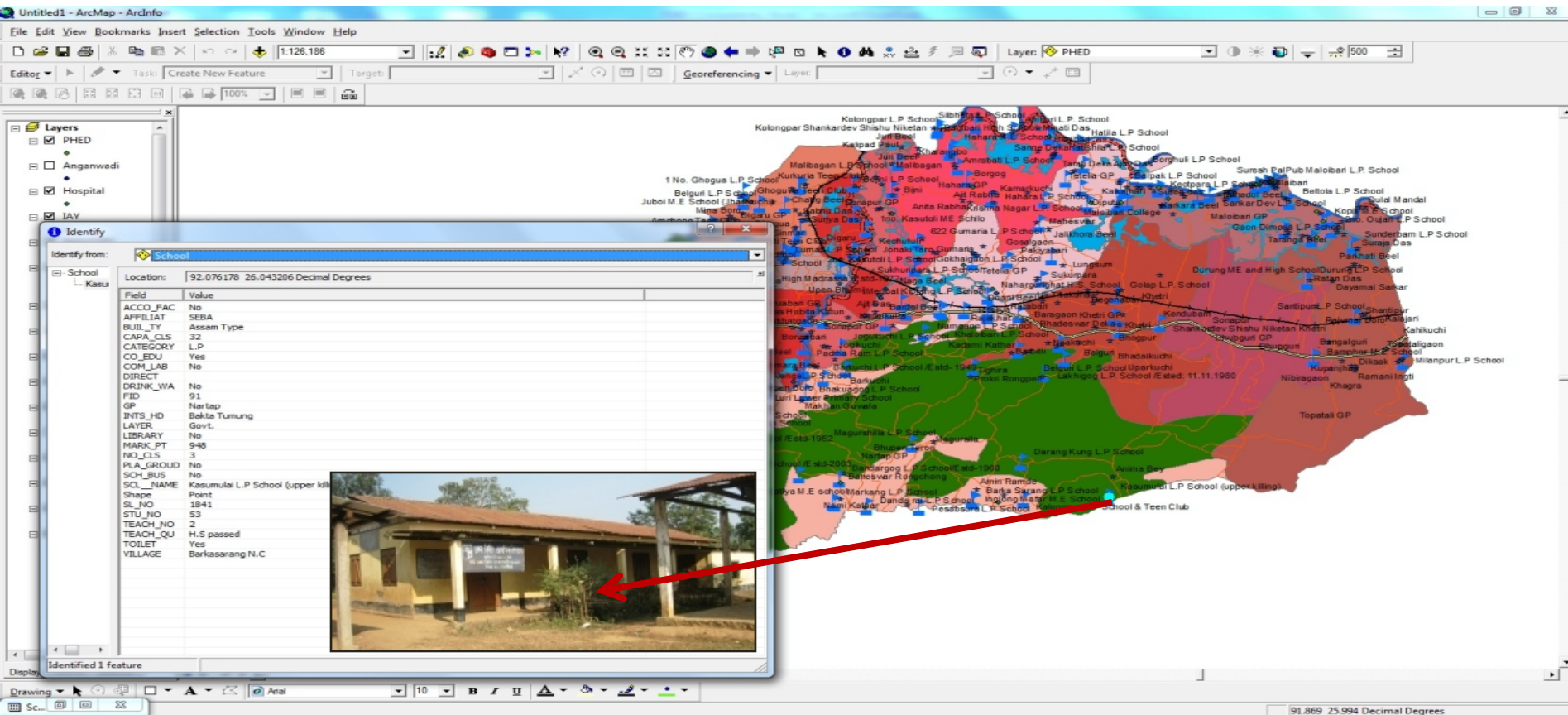


# SNAPSHOT 1

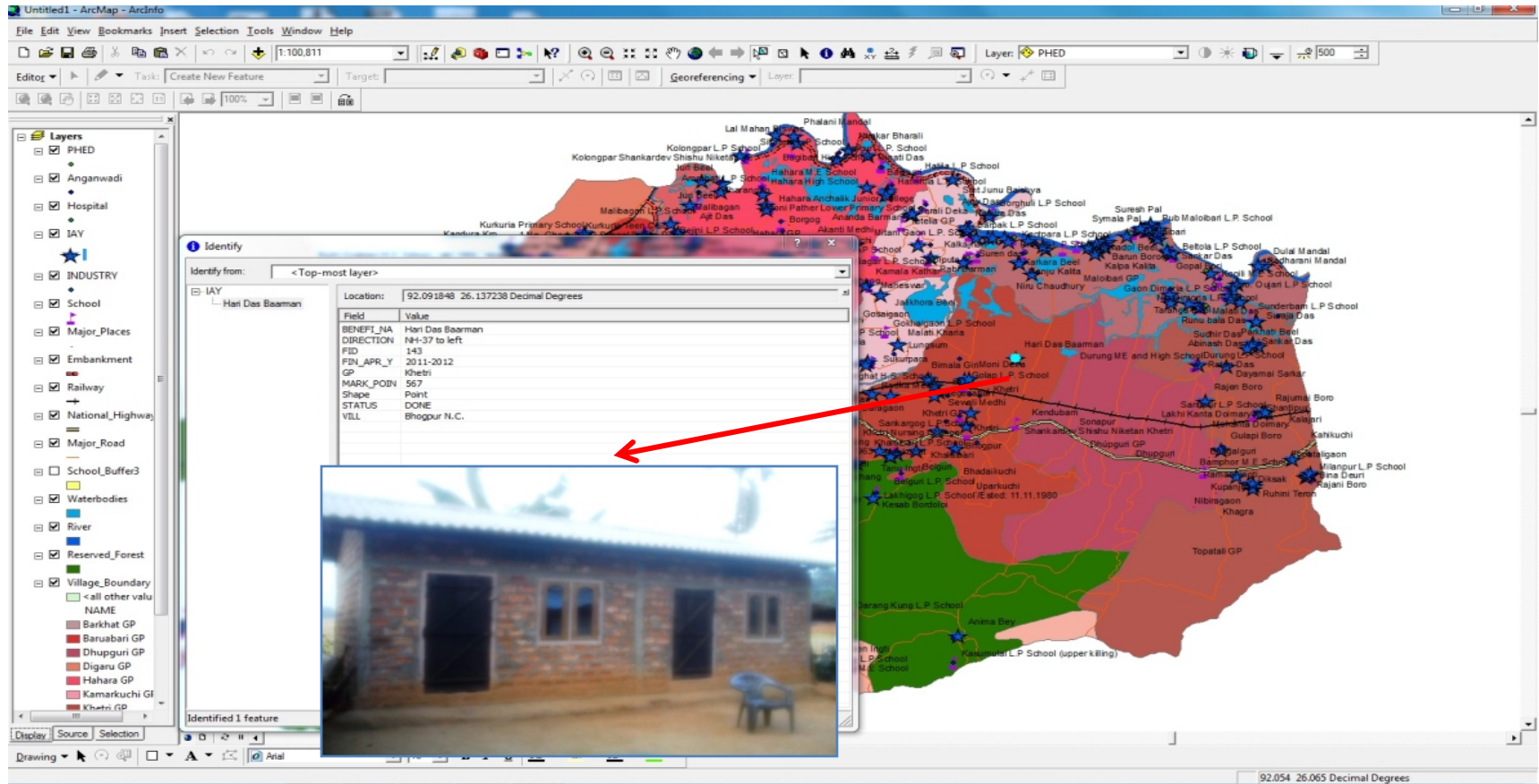


**GP WISE classification of the BLOCK**

# SNAPSHOT 2



Snapshot showing Information of a school of DIMORIA BLOCK



**Showing details of an Indra Awas Yojna House**



# SNAPSHOT 3

Untitled1 - ArcMap - ArcInfo

File Edit View Bookmarks Insert Selection Tools Window Help

1:126,196

Layer: PHED

Task: Create New Feature Target: Georeferencing Layer:

Layers

- PHED
- Anganwadi
- Hospital
- IAY
- INDUSTRY
- School
- Major\_Places
- Embankment
- Railway
- National\_Highway
- Major\_Road
- School\_Buffer3
- Waterbodies
- River
- Reserved\_Forest
- Village\_Boundary


Identify

Identify from: Hospital

Location: 92.129270 26.178110 Decimal Degrees

Field	Value
AMBULANCE	No
BLOOD_BAK	No
DOC_NO	1
FID	5
GP	Maloiari
INCAR_CON	Parul Thakuria /Ph-09957443113
LAYER	Govt
Mark_Poin	838
NAME	Pub Maloiari Sub Centre
NO_OF_BED	No
NO_RS_DOC	No
NO_SPECLS	No
NURSES_NO	2
O_T	No
PATHO_LAB	No
PHARMACY	Yes
Shape	Point
SL_NO	922
Village	Pub Maloiari
X_RAY_JLS	No

Identified 1 feature



Display Source Selection

Drawing

10

91.976 25.973 Decimal Degrees

Showing details of a Public Health Centre

# SNAPSHOT 4

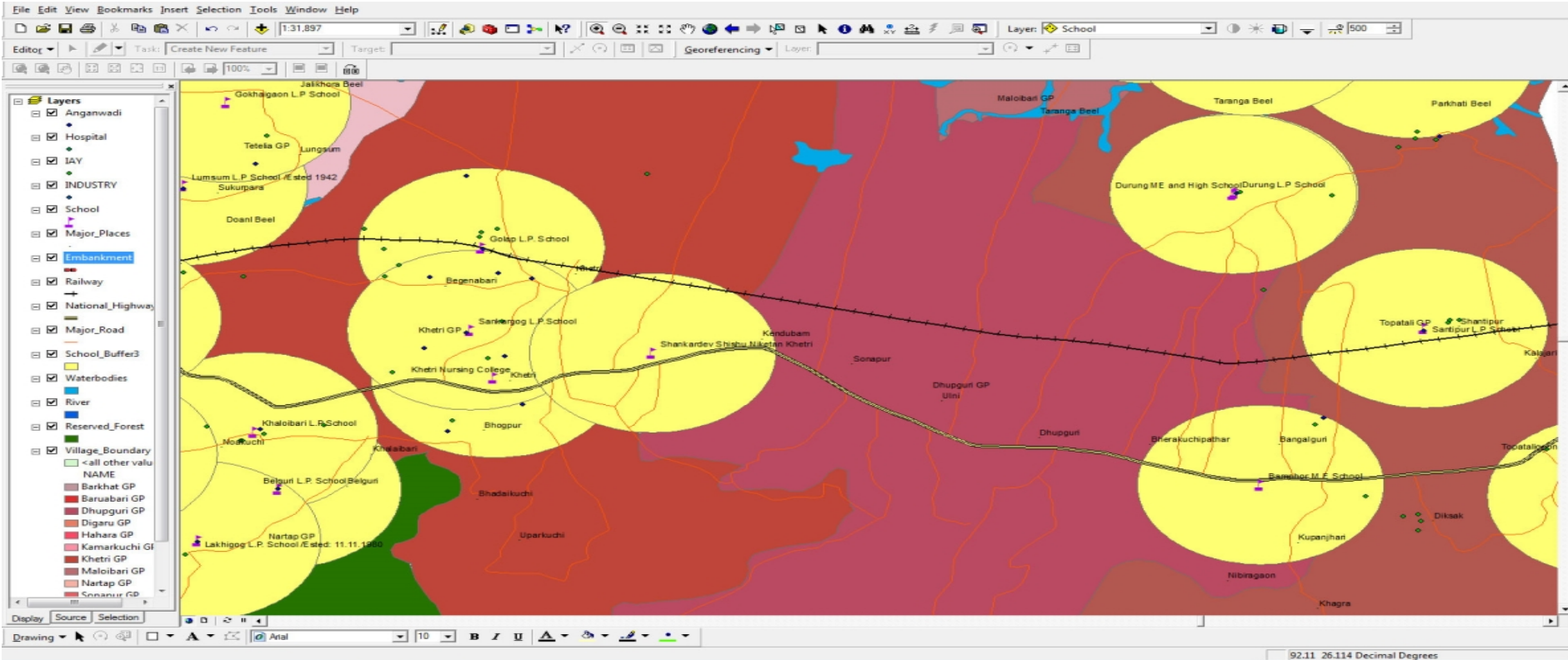
The screenshot shows the ArcGIS interface with the 'PHED' layer selected. The 'Identify' window is open, displaying details for a selected feature:

Field	Value
Location	92.142481 26.153790 Decimal Degrees
CAPACITY	50000ltr
FID	0
GP	Maloibari
HOUSEHOLD	830
MARK_POINT	915
NAME	Niz-Dimoria Water Supply Scheme
Shape	Point
SL_NO	915
STATUS	Running
VILLAGE_TO	Niz-Dimoria
YEAR	0

A red arrow points from the 'Niz-Dimoria Water Supply Scheme' on the map to a photograph of a water supply structure, which is a white building with a blue roof and a staircase leading up to it.

**Showing Water Supply Schemes of DIMORIA DEVELOPMENT BLOCK**

# SNAPSHOT 6



**Presence of schools in DIMORIA BLOCK WITHIN 1 km Radius**





MGNREGS Road



Drinking Water Supply Scheme

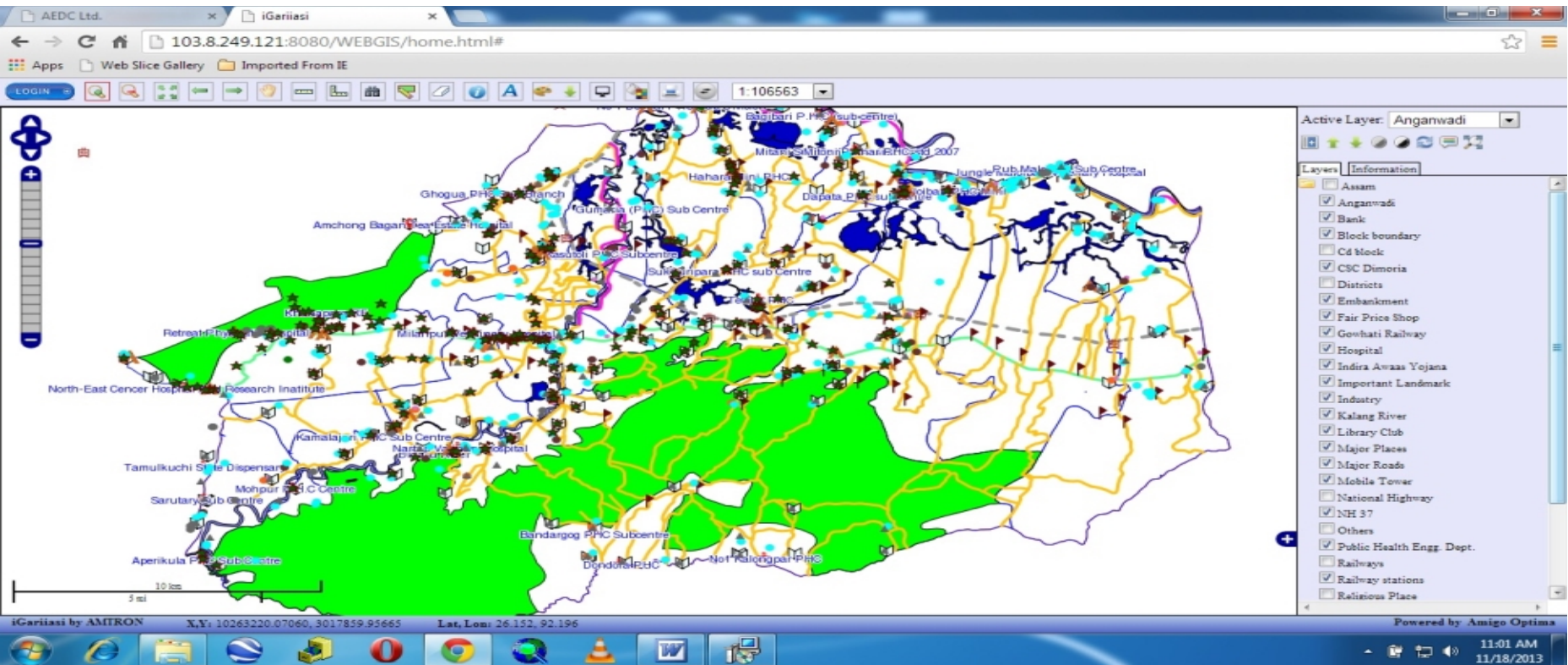


Irrigation Canal



Anganwadi Centre

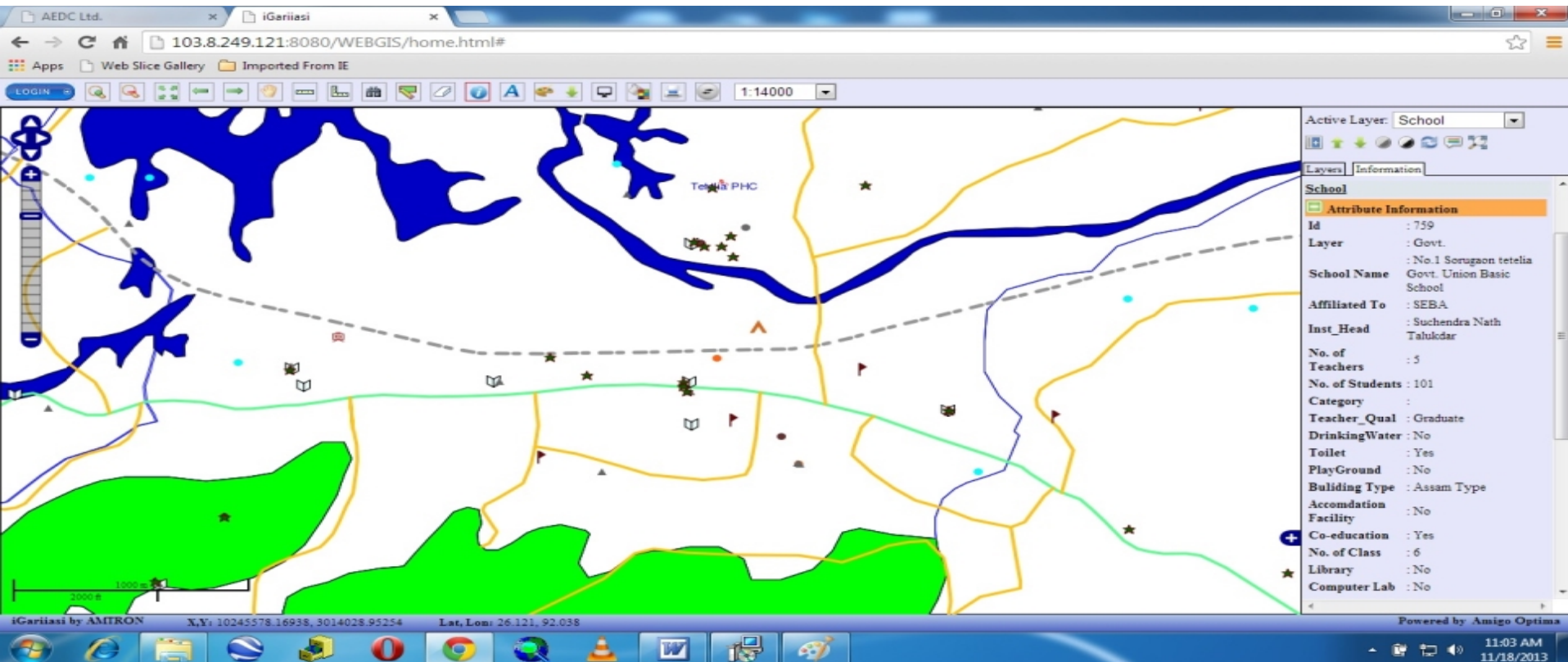
# SNAPSHOT of WEB GIS



**Showing Map and Layer Panel**



# SNAPSHOT of WEB GIS



**Showing Attribute Information**

# SNAPSHOT of WEB GIS

The screenshot displays a web GIS application running in a browser. The browser's address bar shows the URL `103.8.249.121:8080/WEBGIS/home.html`. The application interface includes a map of Assam, India, with various geographical features and a scale bar indicating 10 km and 5 miles. A popup window is open over a specific location, displaying the following information:

Id	2104
Name	Milanpur Veterinary Hospital
Layer	Govt.
incar_Contact	
MArk Point	310
Village	Milanpur
G.P	Barkhat

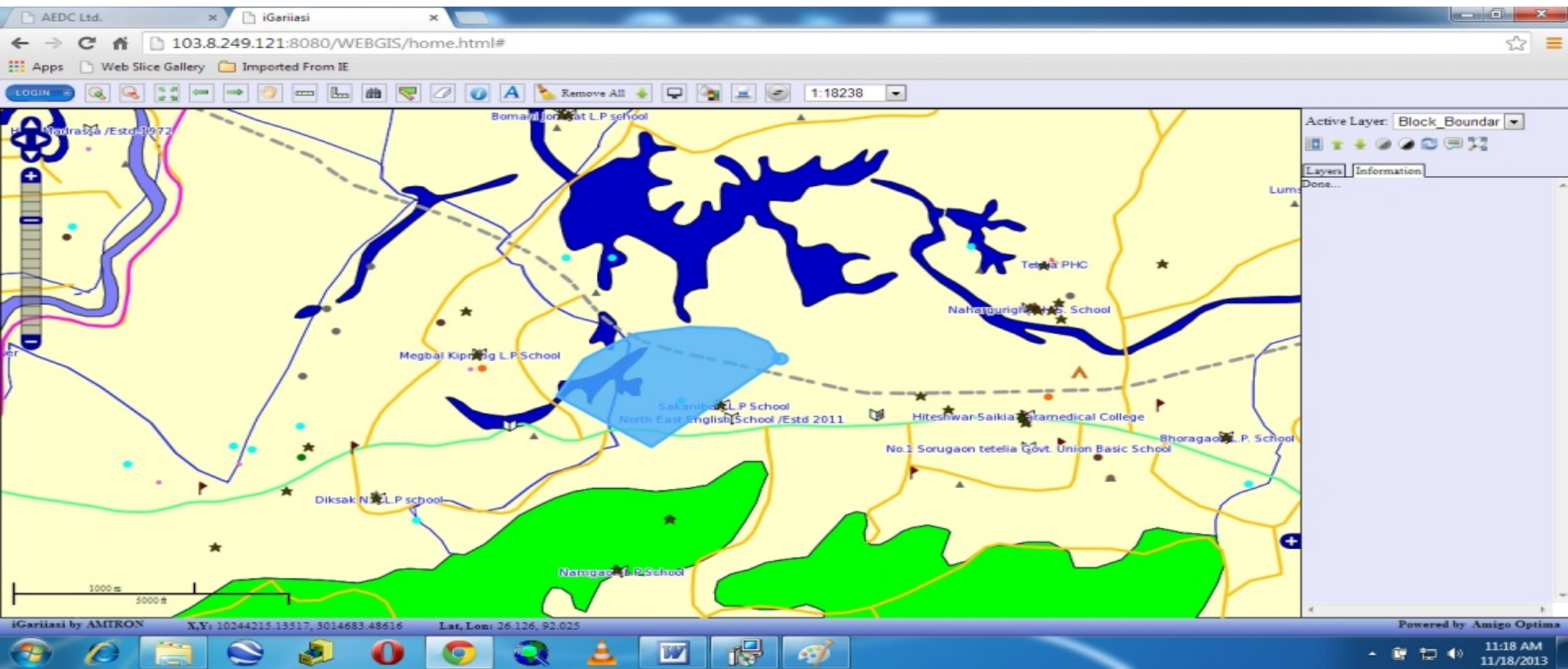
On the right side of the application, there is a 'Layers' panel with a list of map layers. The 'Active Layer' is set to 'Hospital'. The layers list includes:

- Assam
- Anganwadi
- Bank
- ☒ Block boundary
- Cd block
- CSC Dimoria
- Districts
- Embankment
- Fair Price Shop
- Gowhati Railway
- ☒ Hospital
- Indira Awas Yojana
- Important Landmark
- Industry
- ☒ Kalang River
- Library Club
- Major Places
- ☒ Major Roads
- Mobile Tower
- National Highway
- ☒ NH 37
- Others
- Public Health Engg. Dept.

The bottom status bar of the application shows the coordinates `X,Y: 10247138.95008, 3021361.55018` and `Lat, Lom: 26.180, 92.052`. The application is powered by Amigo Optima. The Windows taskbar at the bottom shows the system time as 10:59 AM on 07-Apr-14.

Popup Window

# SNAPSHOT of WEB GIS



**Adding a Polygon**

Thank You