

Geospatial integration of Socio-  
Economic Data  
TCA Anant

# National Remote Sensing Centre

- NRSC has designed, developed and deployed Geoportals for visualisation analysis and dissemination of space based products and services.

# Bhuvan Portal

- Online Geoportal released in 2009
- Initially focussed on image and map visualisation services.
- Diversified over a period of time
  - 2.5 GB of data transfer per day.
  - Provides an android based application for field data collection of various govt. programmes
  - Transport network from National Highways to city roads populated with more than 8.5 million Points of Interest Location.
  - Bhuvan Panchayats facilitate decentralised planning at grass root level by providing information pertaining to local bodies in rural and urban areas,
  - Supports management of disasters
- 20 Ministries portals and 30 State portals linked to Bhuvan

# Initiatives of Central Government

- Central Government has advised all ministries to effectively use the data produced by satellite images.
- Every Department including Culture, Skill Development and Sports have been asked to utilize the data.
- Some actions initiated in this direction follow.

# Micro Irrigation

Plans to promote micro irrigation using satellite images produced by NRSC:

- Farms having wells and ponds to be identified using satellite imaging.
- Govt plans to encourage micro irrigation which runs on solar power. To check the level of availability of sunlight for solar power, satellite data will be used.

# MGNREGA

- Geo tagging initiative of MGNREGA for entire nation rolled out by the Ministry of Rural Development in November 2016.
- Ministry of Rural Development in collaboration with NRSC and NIC to develop an exclusive Bhuvan-MGNREGA Geoportal which will provide a single and integrated view of asset information system pan rural India.
- Remote sensing and GIS to be used to collect, store and analyze MGNREGA assets.
- Spatial location is a major common aspect of all the asset data and GIS to be used to map all the assets along with information for visualisation and proper decision making.

# Initiatives of MOSPI

- Digitisation of UFS Maps in collaboration with National Remote Sensing Center(NSRC) and National Informatics Center (NIC) has been taken up by NSSO.
- UFS maps for Rewari town digitized by NIC by identifying the boundaries of blocks as given in the hand drawn UFS maps on satellite imagery and marking them over the imagery.
- NRSC has
  - generated UFS maps on satellite imagery for Bodhan town of Hyderabad.
  - developed a mobile application which can capture the Geo-coordinates (latitude and longitudes) of any given location and push it to satellite imagery, provided the mobile has internet facility. In case internet facility is not readily available on the mobile, the application can save the coordinates and push it on satellite imagery after coming back to office where internet facility is available. With the help of such a mobile application, coordinates of the four corner points in addition to some other points along the boundary may be captured and the IV unit/UFS blocks may be carved out by joining these points.
- RO Hyderabad carried out a pilot in Bodhan town covering 2 wards having 8 EBs with total number of 700 households. RO Dehradun covered 2 IV Units having 88 Blocks.

# Contd/-

- Digitisation of supervision of Crop Cutting Experiments (CCE) in collaboration with Mahalanobis National Crop Forecast Centre (MNCFC):
  - proposed to devise mechanism for integration of data on CCE collected by NSSO and the post stratification methodology for developing the model for Taluka/Tehsil wise estimates based on the data collected through satellite imagery by the MNCFC starting with onion and wheat crops.
  - As a first step, a pilot study would be conducted to test the feasibility of obtaining production estimates using Remote Sensing Technique in accordance with the methodology developed by MNCFC.



# States Initiatives

## Gujarat

- GIS based Decision Support System with the technical support of 'Bhaskaracharya Institute for Space Applications and Geo-Informatics' (BISAG) has been developed.
- Information of 300+ data items relating to the services/ amenities available at village level covering 11 sectors have been collected and entered into the centralized database and being updated regularly in this online portal.
- Schedule for data collection devised on the basis of assessment of earlier Village amenity Survey and expert inputs.

# Gujarat: Contd/-

- Results achieved:
  - **Gap Analysis** done using the information available from the portal which is used to carry out **need based planning**
  - Villages where some specific services to be strengthened or amenities to be created were selected for **balanced regional development**.
  - The mode of planning has shifted from being demand driven alone to being more proactive and vetted through the electronic system. It results in **equitable distribution of resources**.

# Coverage : Sectoral

		No of Items
Demography	<ul style="list-style-type: none"><li>Population, Literacy, Workers, etc.</li></ul>	51
Education	<ul style="list-style-type: none"><li>School-wise No. of students, Teachers, Amenities, etc.</li></ul>	77
Health	<ul style="list-style-type: none"><li>Availability of Facility by Type and Numbers</li></ul>	27
Electrification	<ul style="list-style-type: none"><li>Number of HH /Agricultural/Industrial Connection, etc.</li></ul>	9
Animal Husbandry	<ul style="list-style-type: none"><li>Dairy Co-Op., Service Availability</li></ul>	14
Irrigation	<ul style="list-style-type: none"><li>Source-wise Area Covered</li></ul>	6
Land Use	<ul style="list-style-type: none"><li>Land Use Pattern, Social Forestry Area, Land Holding</li></ul>	19
Roads & Transportation	<ul style="list-style-type: none"><li>Connectivity, Distance to City</li></ul>	11
Communication	<ul style="list-style-type: none"><li>Commutation, P.O., Telephone, Mobile etc.</li></ul>	14
Water Supply & Sanitation	<ul style="list-style-type: none"><li>Source of drinking water, type of drainage facility etc.</li></ul>	18
Community Development	<ul style="list-style-type: none"><li>Anganwadi, Tourism, Employment, Social Security and Other Amenities</li></ul>	58

# Village Profile and Taluka Planning Atlas

## Village profile & Taluka Planning Atlas

GIS based decision support system for planning

Directorate of Economics and Statistics  
General Administration Department(Planning),  
Government of Gujarat



GIS

REPORTS

TALUKA PLANNING ATLAS

USER MANUAL

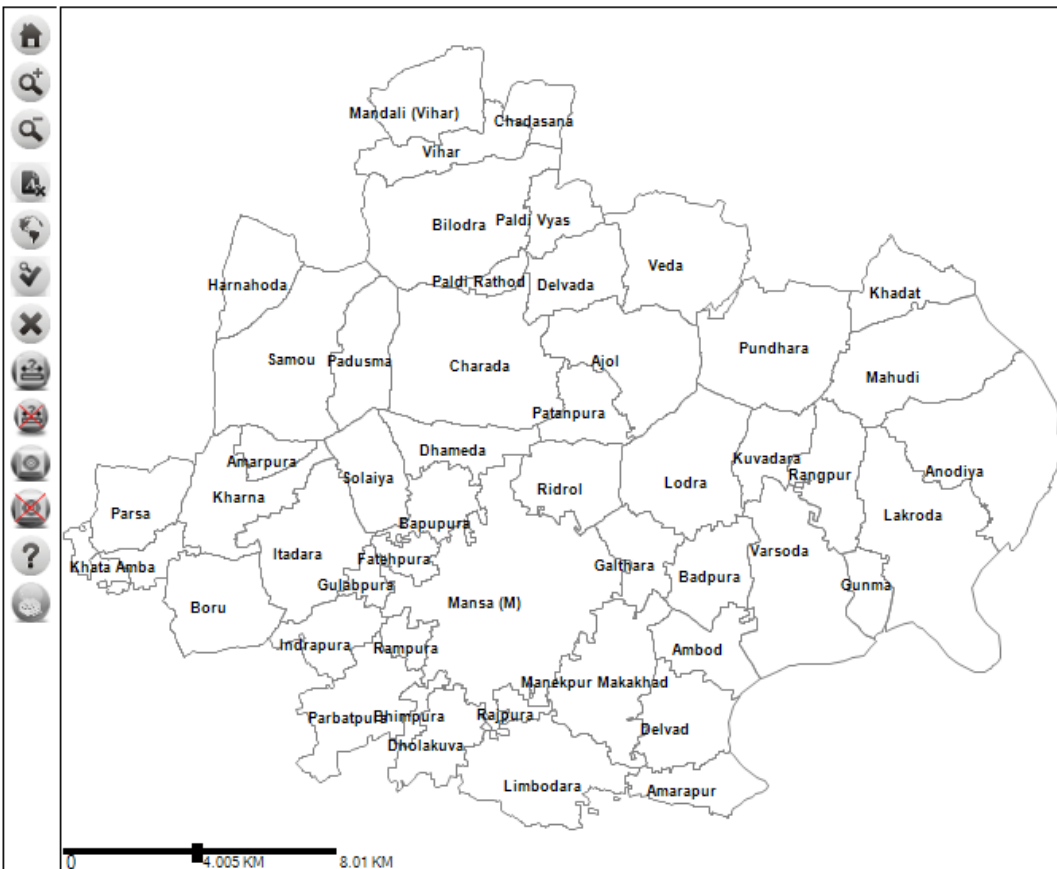
REGISTRATION

CHANGE PASSWORD

LOGOUT

District: Gandhinaga Taluka: Mansa As on Date: 01-04-2016 Color Palette Customize Map  Identify  Panning

- Demography
- Land Use Pattern
- Animal Husbandry
- Education
- Health
- Drinking Water Facility
- Sanitation
- Electrification
- Nutrition
- Rural Roads
- Tourism
- Communication and Transportation
- Other Amenities
- Employment
- Social Security Details
- Others
- Admin



For Official Use Only  
District : Gandhinagar  
Taluka : Mansa

Legend  
 Village Boundary

\* No data for Urban Area

# Delhi

- Demographic data of population census 2011 integrated with Economic Census data.

# WARD BOUNDARY MAP WITH LOCAL BODIES, DELHI



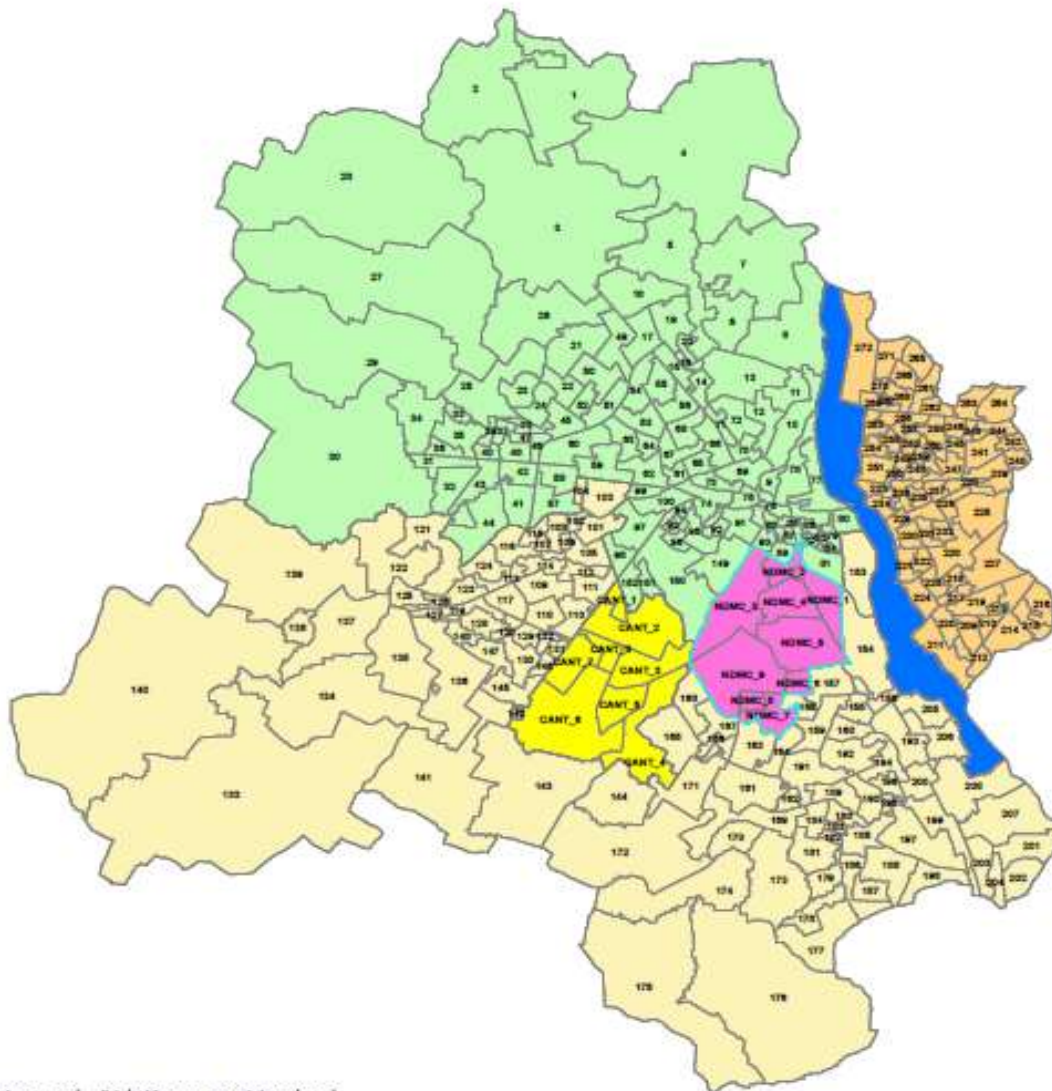
NOT FOR EXPORT CONFIDENTIAL FOR DEPARTMENTAL USE ONLY

गोपनीय है और निर्यात के लिए अनुमति नहीं है।



## Legend

- WARD BOUNDARY
- LOCAL BODY**
- NDMC
- DELHI CANTT
- EAST DMC
- NORTH DMC
- SOUTH DMC
- YAMUNA



For further details about this map, please contact

Managing Director  
Geospatial Delhi Limited  
A Division of IISCT of Delhi (Company)  
3rd Floor, C-Block, Vikas Bhawan - II,  
Connaught Place, New Delhi - 110058  
[www.gdl.org.in](http://www.gdl.org.in)

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Disclaimer: Boundaries are not validated by concerned department.

# Ward Wise Information

Identify

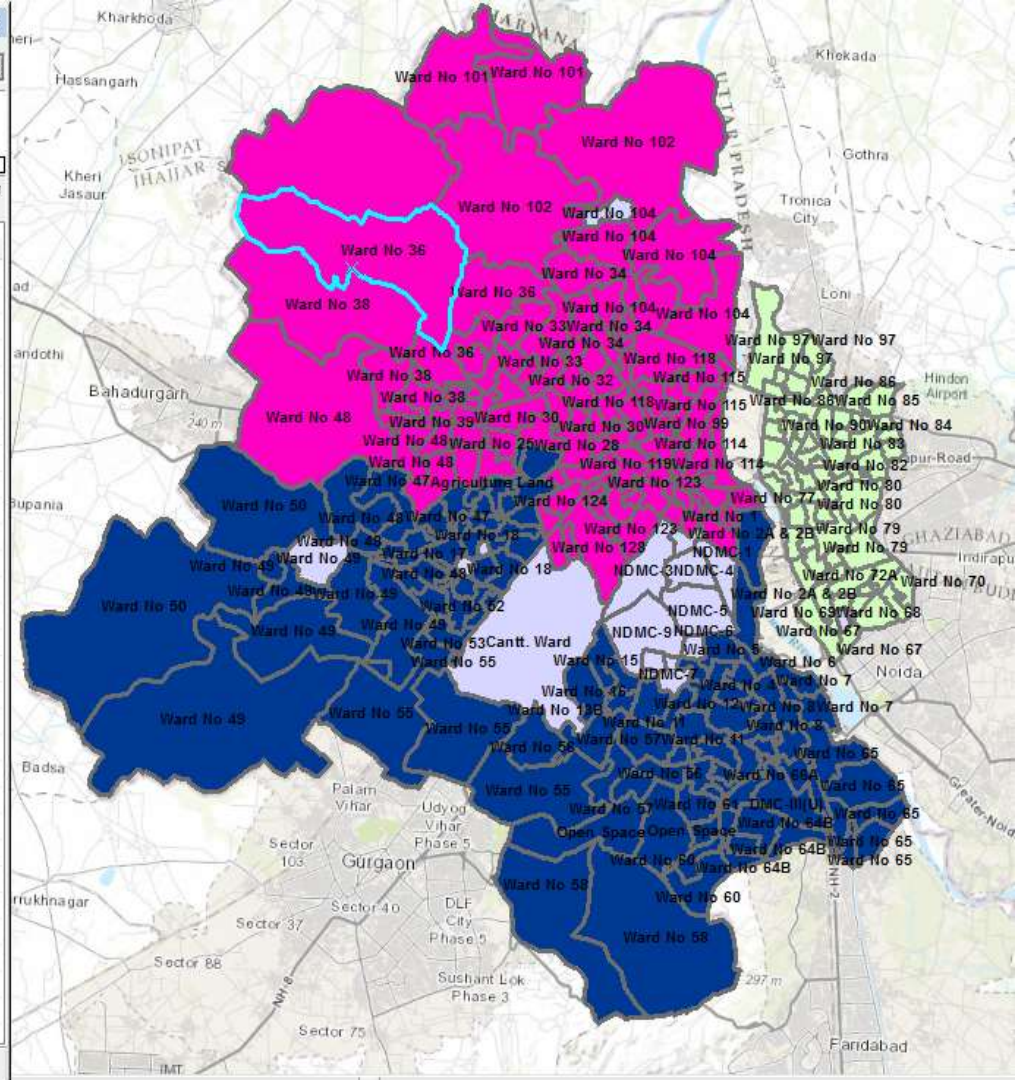
Identify from: < Top-most layer >

Delhi\_Ward\_Data  
Ward No 36

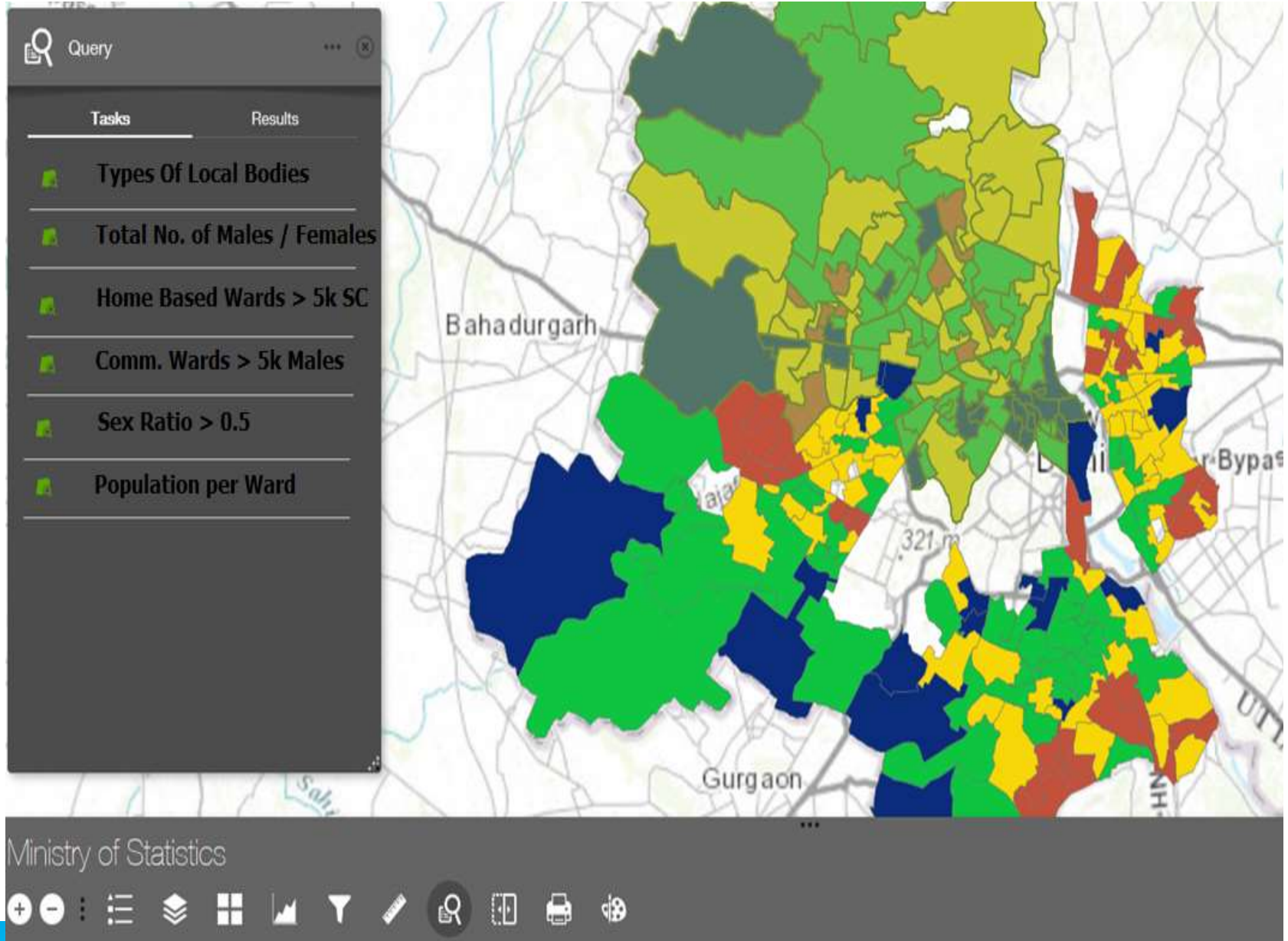
Location: -532,939.083 3,199,687.266 Meters

Field	Value
OBJECTID	131
Shape	Polygon
WARD NAME	Ward No 36
New WardNo	27
Zone Name	Narela
Ward Number	27
LOCAL BODIES	DMC NORTH
WARD NAME	BEGUMPUR
WARD NUMBER	27
Enterprise Commercial	1519
Enterprise Home Based	1205
Enterprise Total	2724
Female Commercial	131
Female Home Based	181
Female Total	312
SC Commercial	103
SC Home Based	168
SC Total	271
ST Commercial	49
ST Home Based	34
ST Total	83
OBC Commercial	470
OBC Home Based	404
OBC Total	874
Others Commercial	1035
Other Home Based	786
Others Total	1821
Population	39903.747309
Sex Ratio	46176983.697765

Identified 1 feature

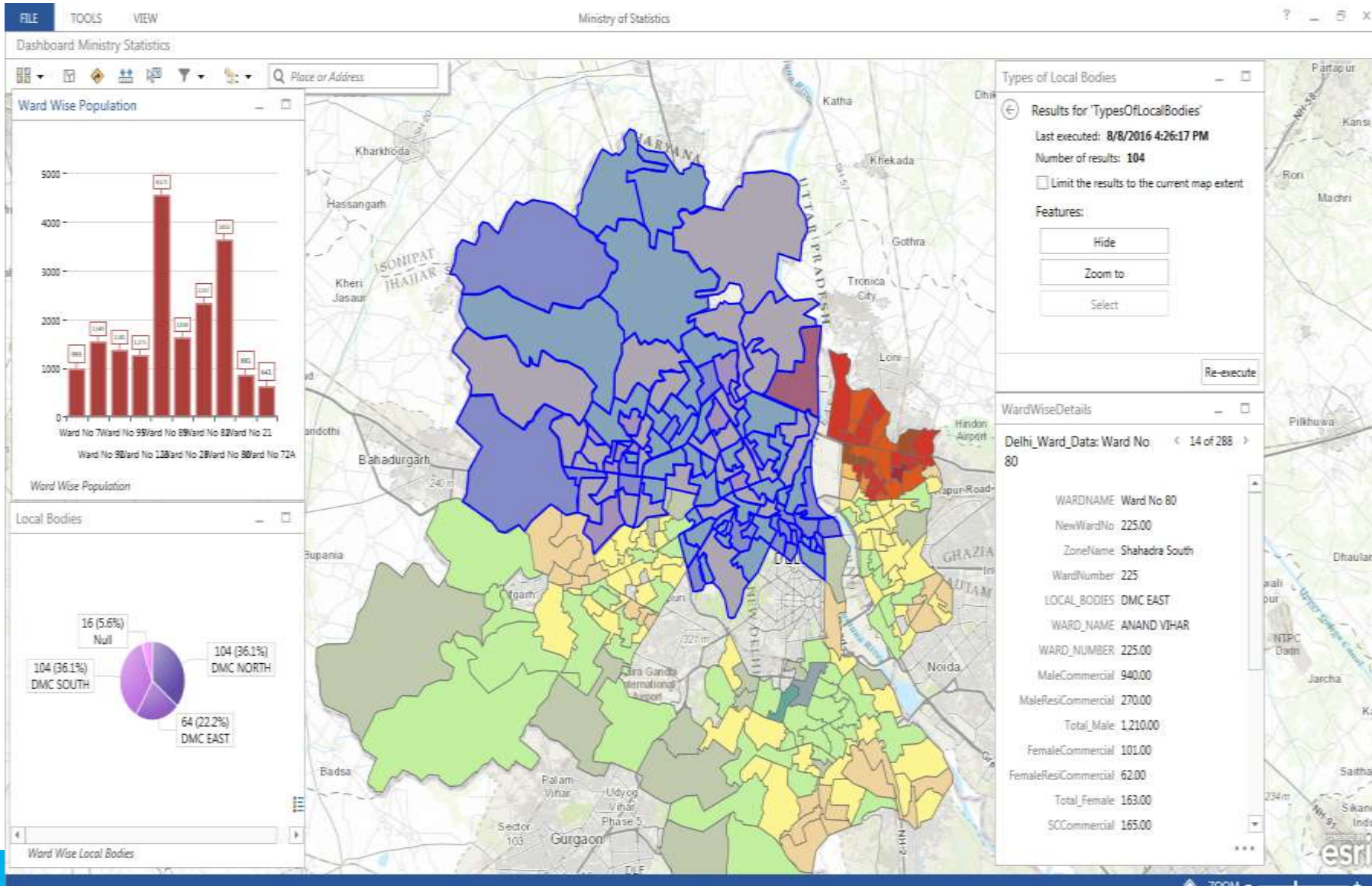


# List Of Queries





# Dash Boards For Management – Decision Making



Thank You

# Base Maps Available

The image displays a web application interface for selecting base maps. On the left, a 'Basemap Gallery' panel lists ten map styles:

- Dark Gray Canvas
- Imagery
- Imagery with Labels
- Light Gray Canvas
- National Geographic
- Oceans
- OpenStreetMap
- Streets
- Terrain with Labels
- Topographic

The main map area shows a map of Gurgaon, India, with several colored overlays. The overlays are in shades of blue, green, yellow, and red, covering various parts of the city. Labels on the map include: Hassangarh, Kheri Jasaur, Sampla, Rohad, Mandothi, Bahadurgarh, Bupania, Badli, Pelhpa, Sector 103, Gurgaon, Tronica City, Gothra, Hindon Airport, Indrapuram, and Noida. The interface also features a 'Ministry of Statistics' logo and a toolbar with icons for zooming, panning, and other map functions.