



# Mapping Air Quality in Delhi on School Bhuvan-NCERT

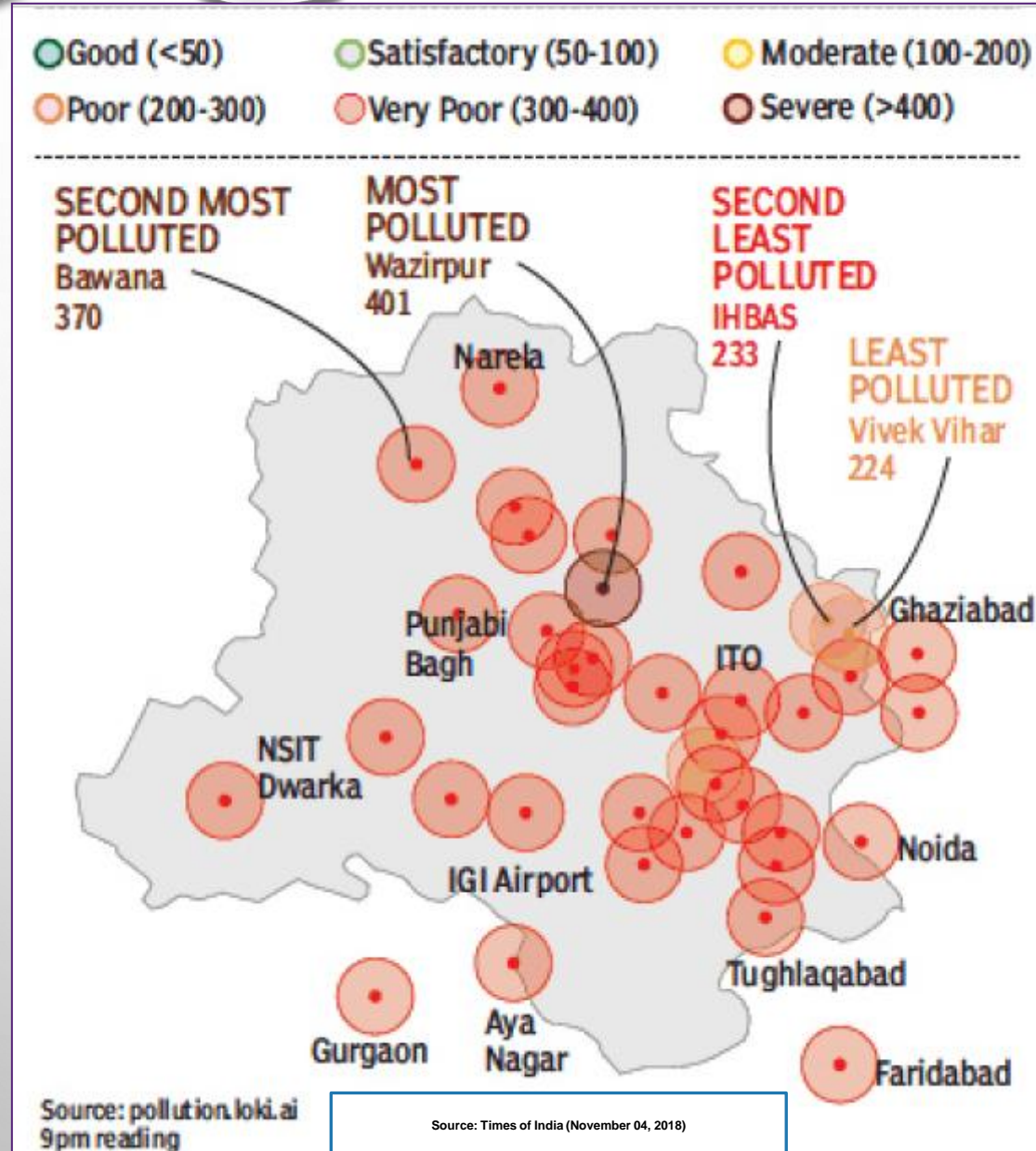
# Objective:

Mapping Air Quality in Delhi (Point-Map) using Geo-portal School Bhuvan-NCERT.

## You will be able to:

- create point shape file.
- generate a layout (Final output) of Air Quality in Delhi.


# Air Quality in Delhi



Navigation icons: back, forward, refresh, home, address bar, search, menu, download, print, share, star.

Address bar: [https://bhuvan-app1.nrsc.gov.in/mhrd\\_ncert/#levelone](https://bhuvan-app1.nrsc.gov.in/mhrd_ncert/#levelone)

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An e-learning portal for the students

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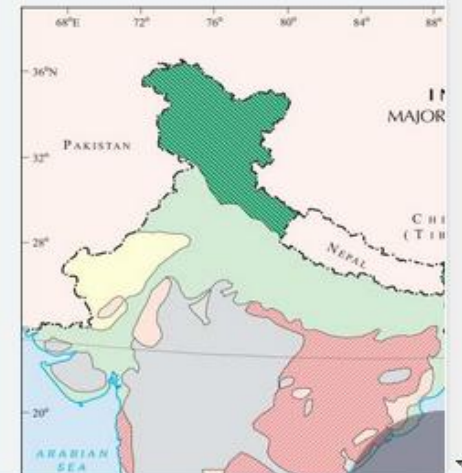


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**Click Explore**

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## Tools

### Hydrological Boundary



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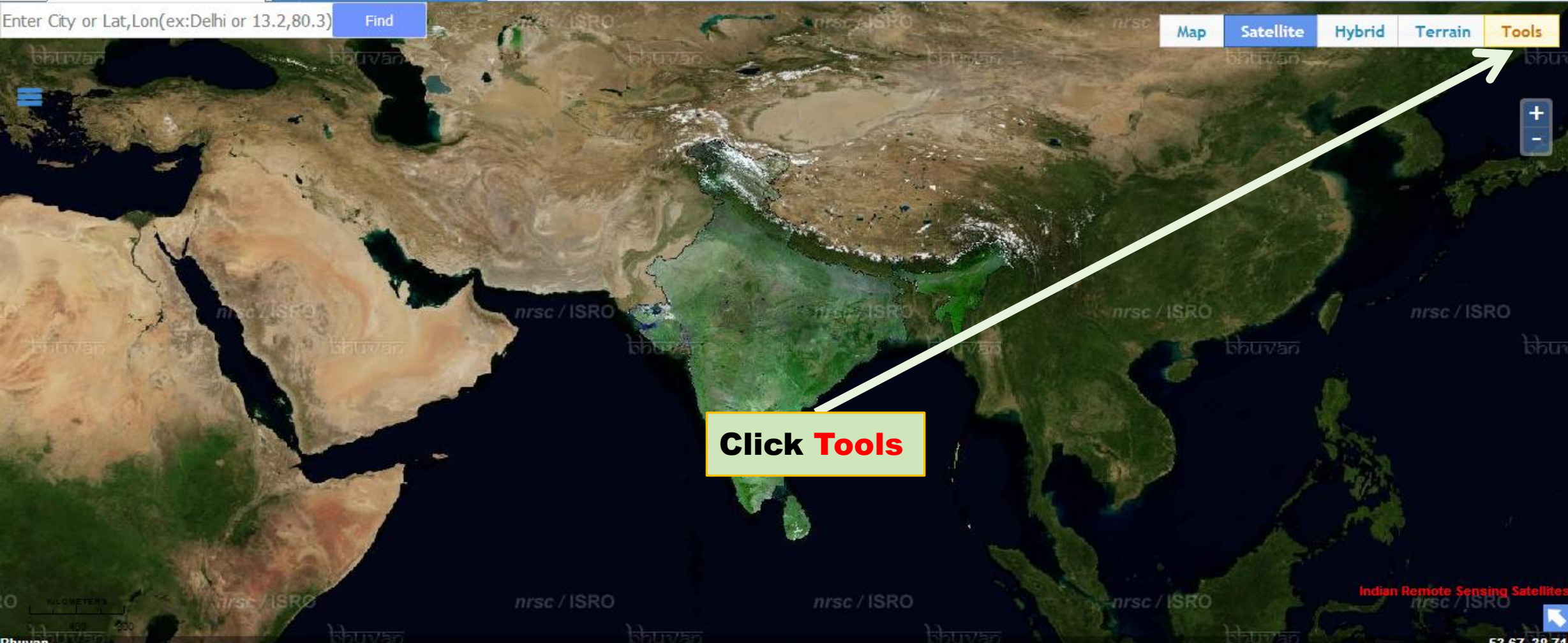
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Enter City or Lat,Lon(ex:Delhi or 13.2,80.3) Find

Map Satellite Hybrid Terrain **Tools**




Click **Tools**

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**Map** **Satellite** **Hybrid** **Terrain** **Tools**

**Add Layer**  
**Draw Tool**  
**Measure Area**  
**Measure Length**  
**WMS Manager**  
**Add Photos/POI**  
**Navigation**  
**Proximity**

**Click Draw Tool**

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




**DRAW TOOL**

 Use the Draw tool to add graphic elements to the terrain and export them as a shape file

Use  to delete feature and  to export shape file













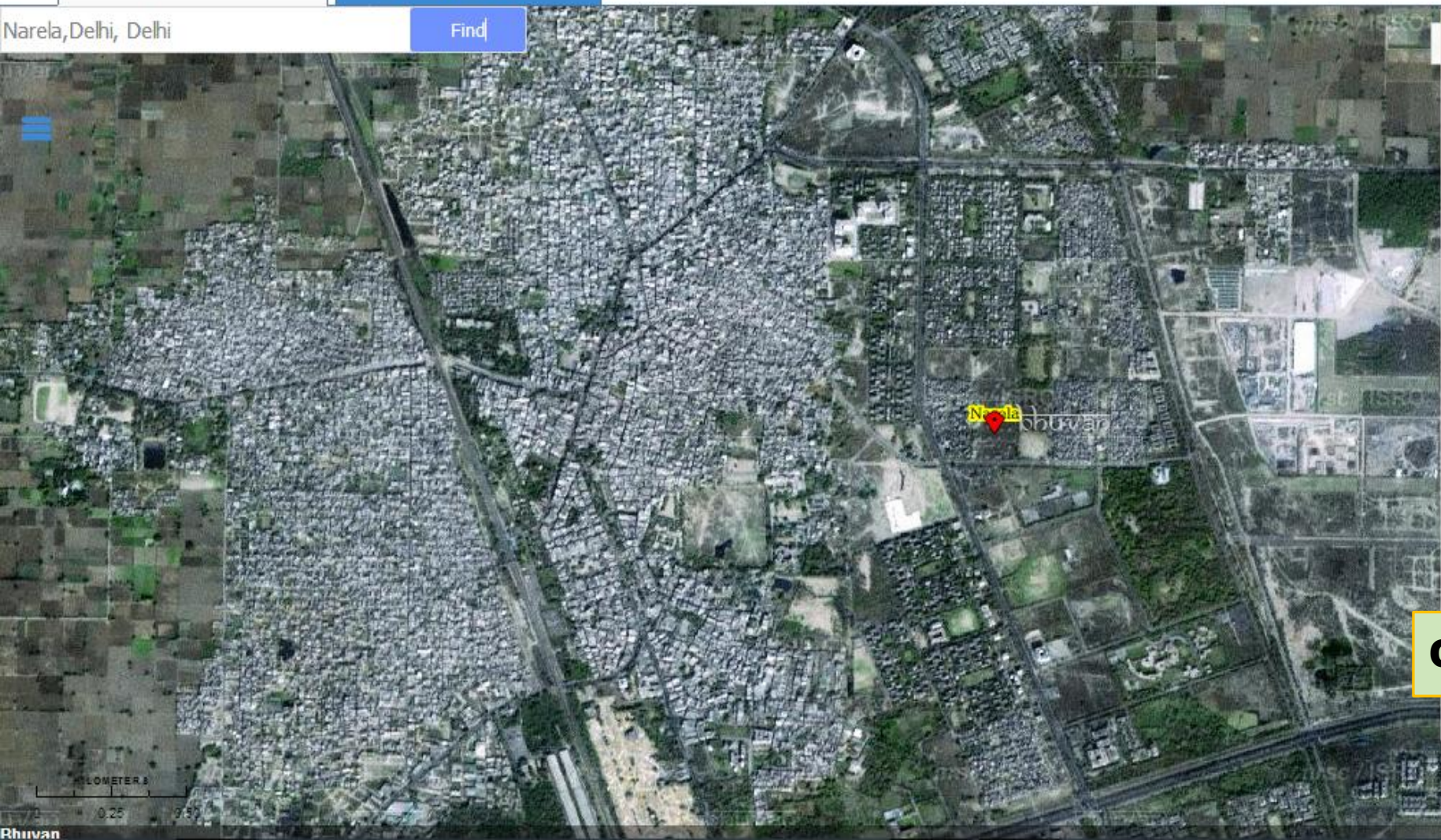


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Narela, Delhi, Delhi

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Use the Draw tool to add graphic elements to the terrain and export them as a shape file


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











Use  to delete feature and  to export shape file

Click here for **Point tool**



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Narela, Delhi, Delhi Find

**Click to create a Point shape file for Narela**

**As you have created Point shapefile for Narela on the satellite imagery, use same method for other locations**

**DRAW TOOL**

Use the Draw tool to add graphic elements to the terrain and export them as a shape file

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Use X to delete feature and to export shape file

X Feature1

**After a single click Feature 1/Point shapefile of Narela will appear.**

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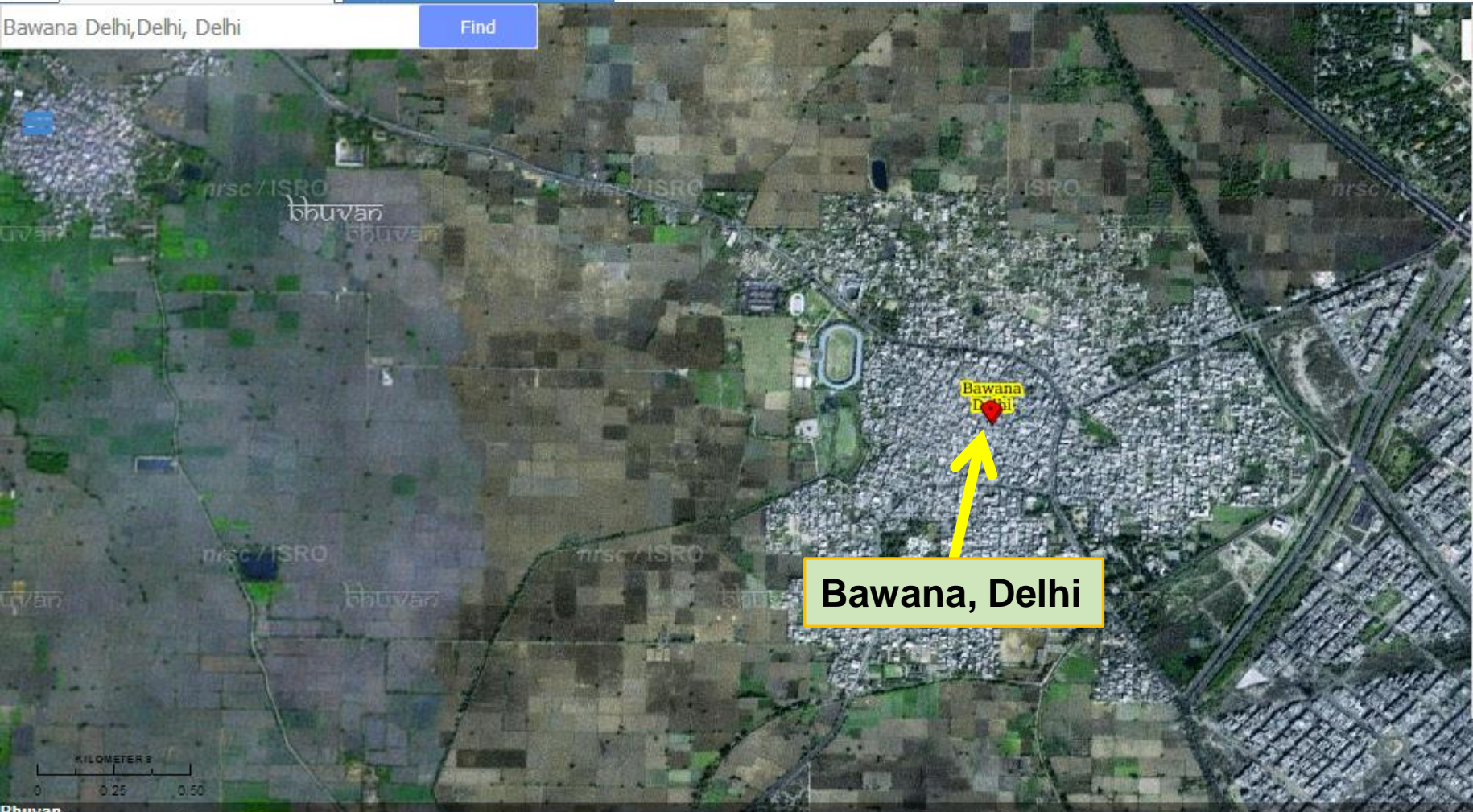
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Bawana Delhi, Delhi, Delhi


Find




A satellite map view of Bawana, Delhi. A yellow arrow points to a red location pin labeled 'Bawana Delhi' in the center of the map. The map shows a mix of urban development and agricultural fields. A scale bar at the bottom left indicates distances up to 0.50 kilometers.


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 Use the Draw tool to add graphic elements to the terrain and export them as a shape file

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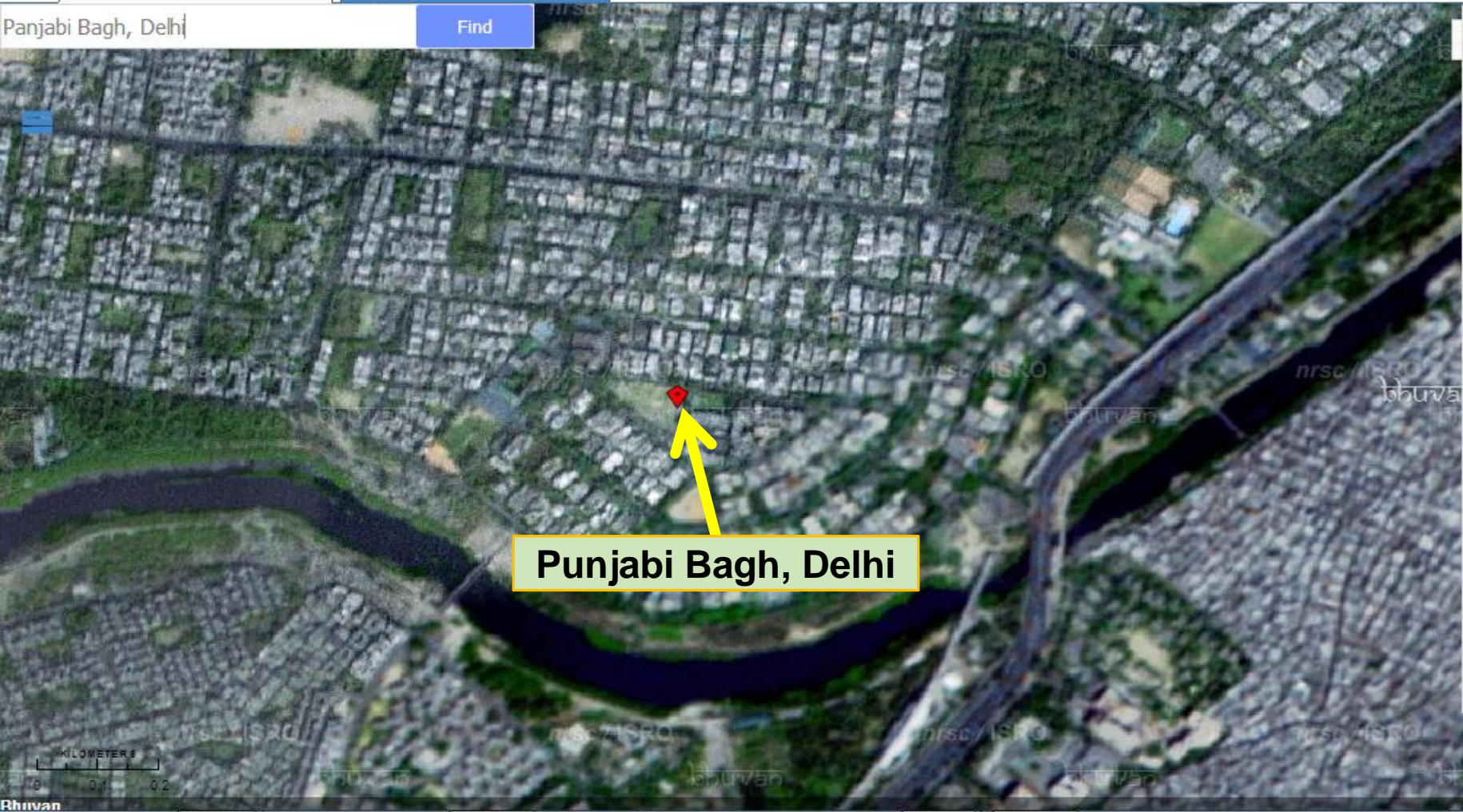
 

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



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Punjabi Bagh, Delhi

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Punjabi Bagh, Delhi

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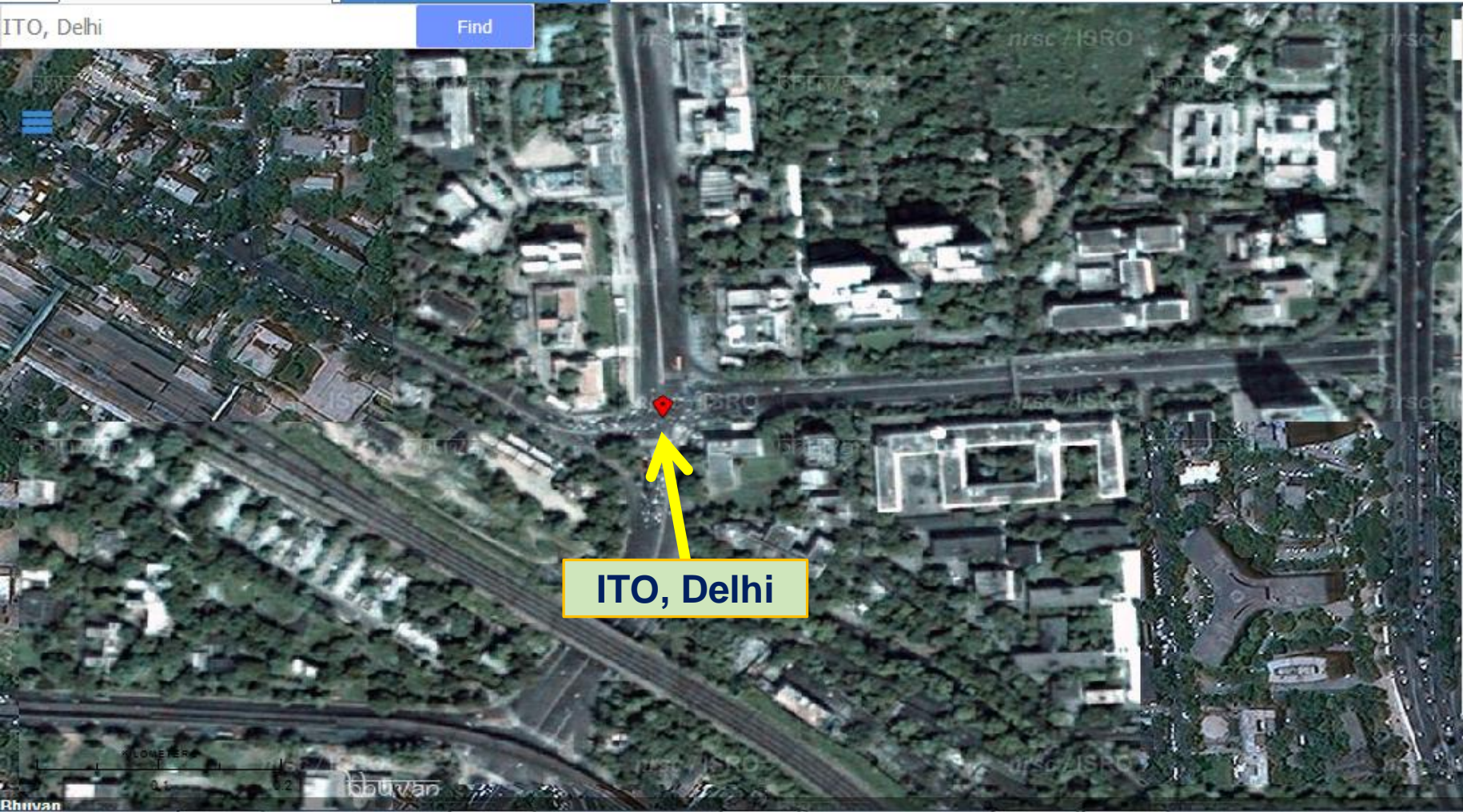
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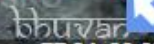
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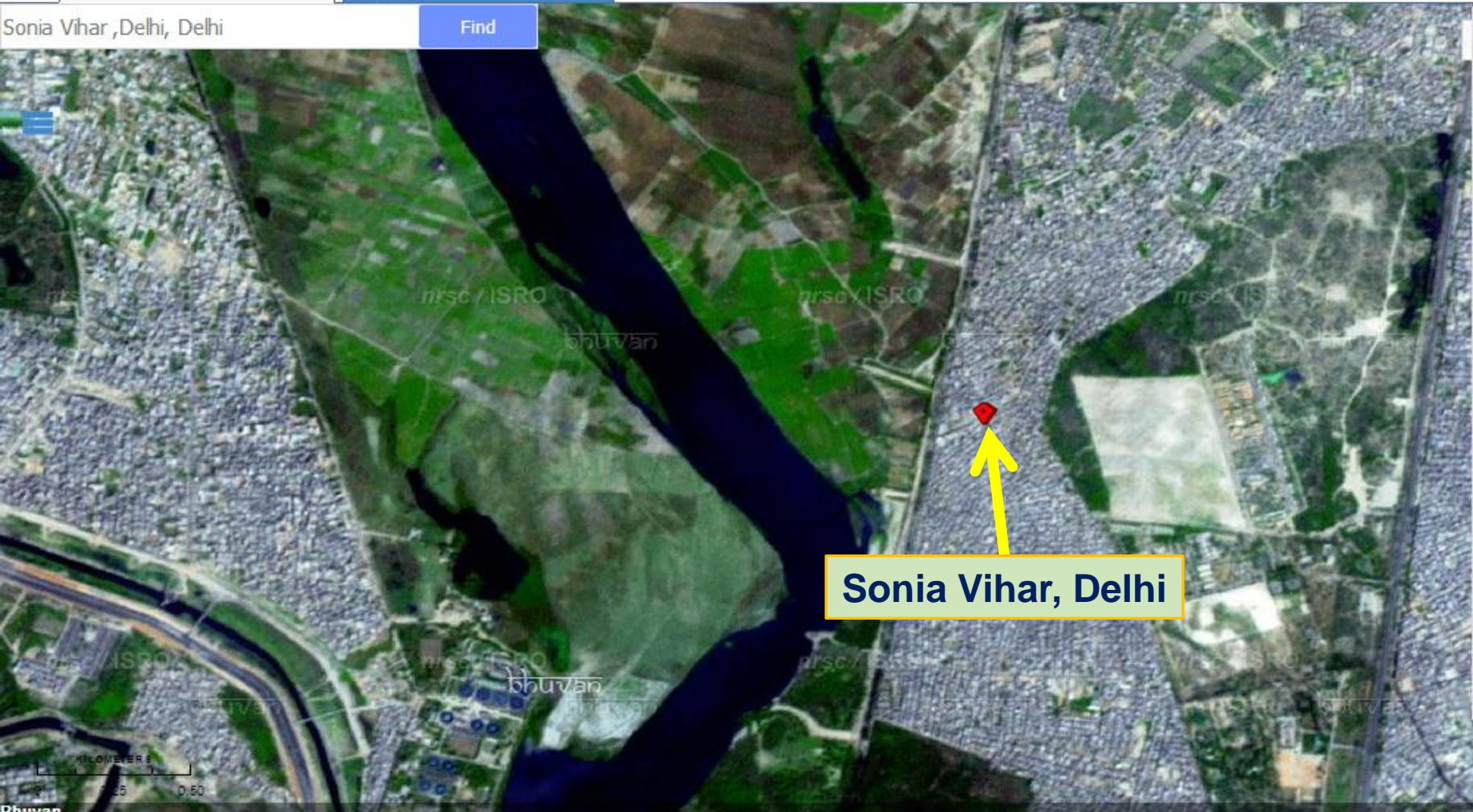
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Sonia Vihar ,Delhi, Delhi

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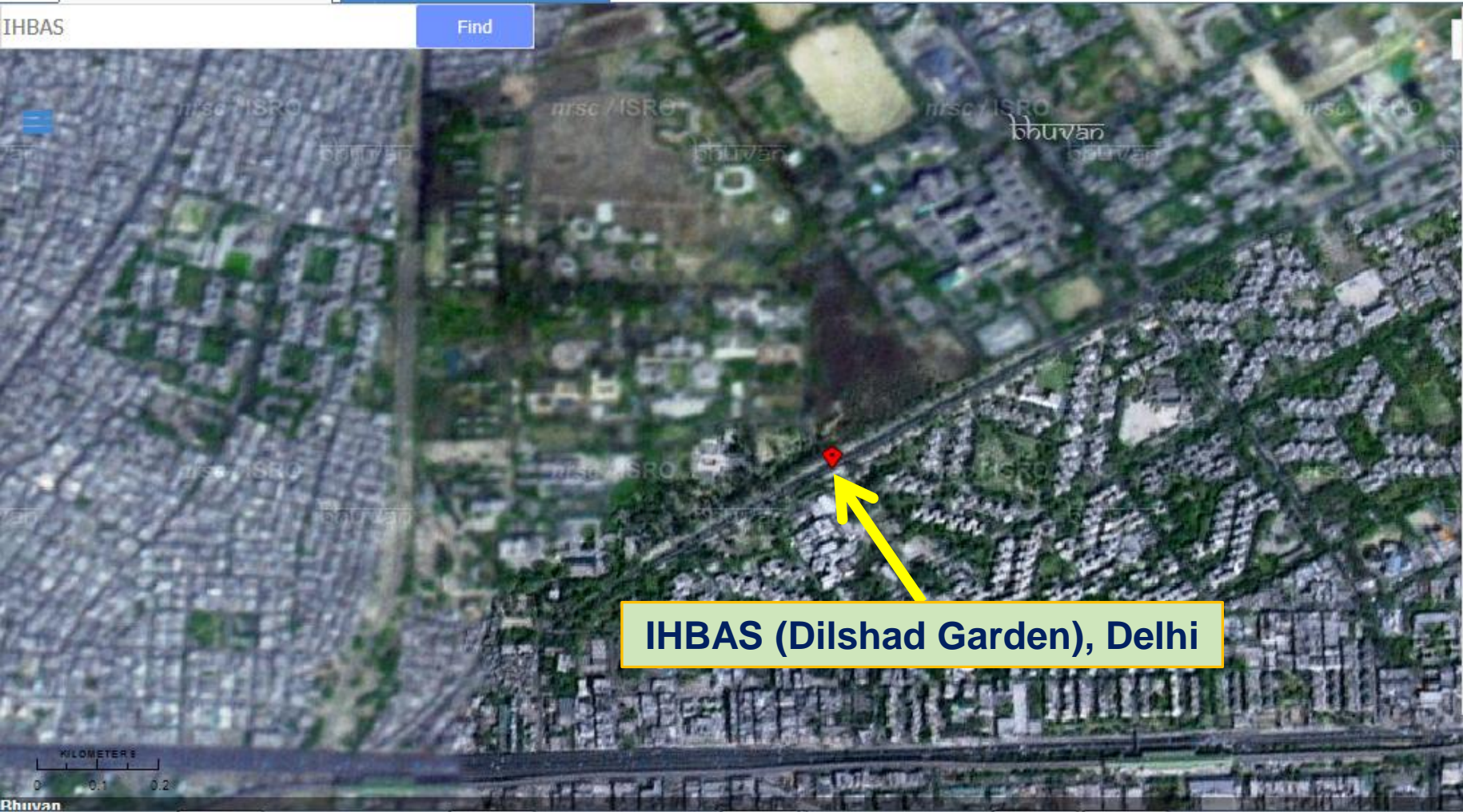
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Indian Remote Sensing Satellites

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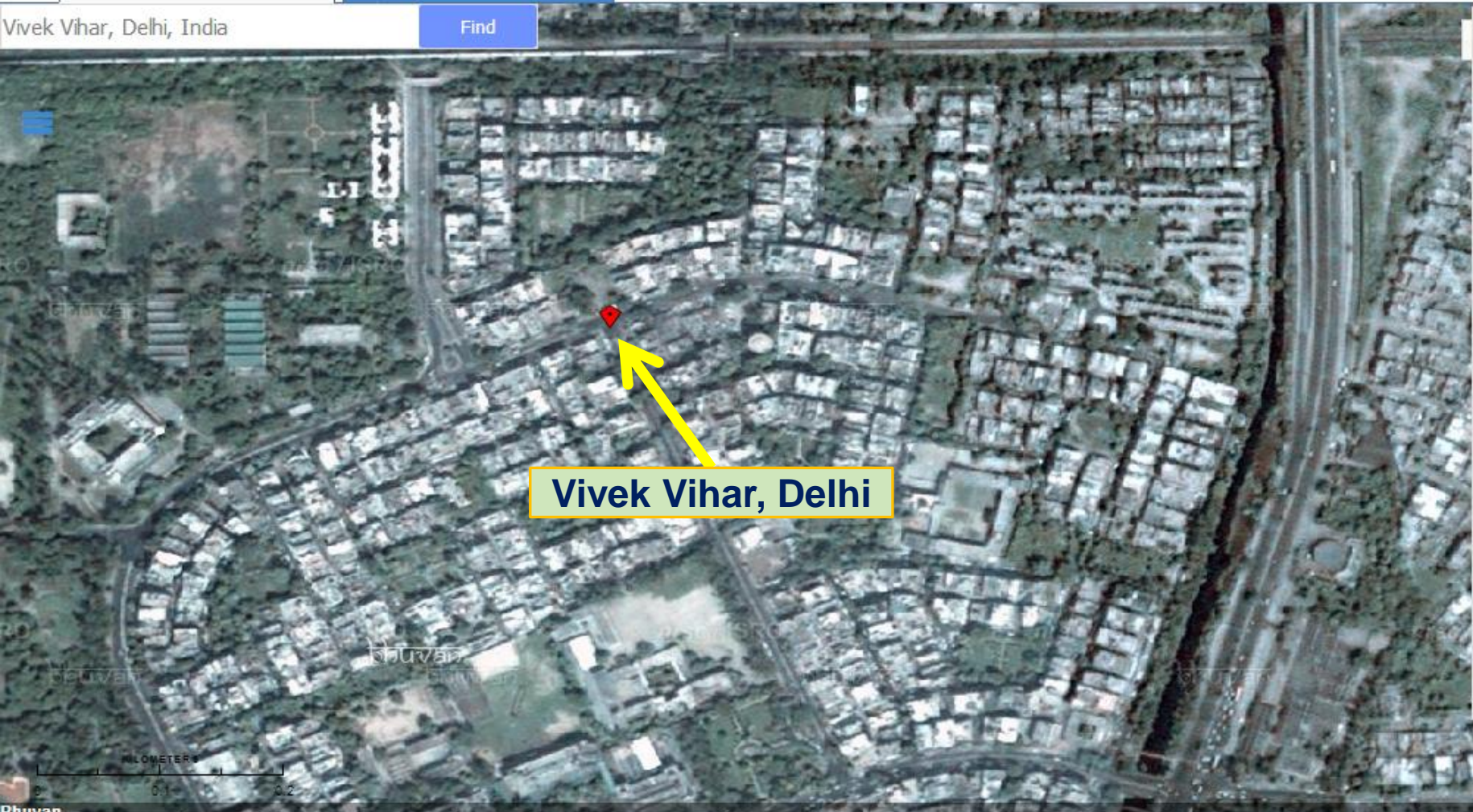
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Vivek Vihar, Delhi, India

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Use the Draw tool to add graphic elements to the terrain and export them as a shape file

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Vivek Vihar, Delhi

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NSIT (Dwarka), Delhi

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








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

**DRAW TOOL**



Use the Draw tool to add graphic elements to the terrain and export them as a shape file



    



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  Feature3



  Feature4



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

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Hybrid

Terrain

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WMS Manager

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Navigation

Proximity

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Map Satellite Hybrid Terrain Tools

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Click **Map** for the Outline of Delhi

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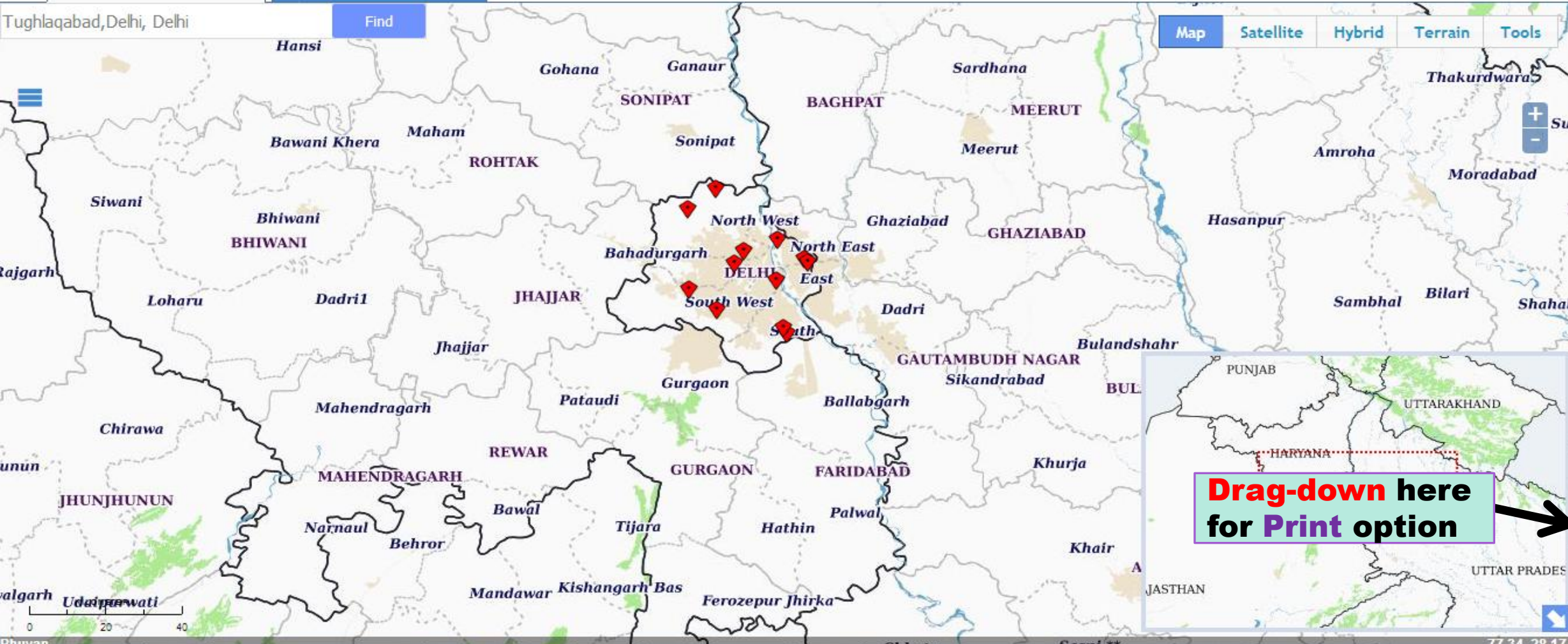
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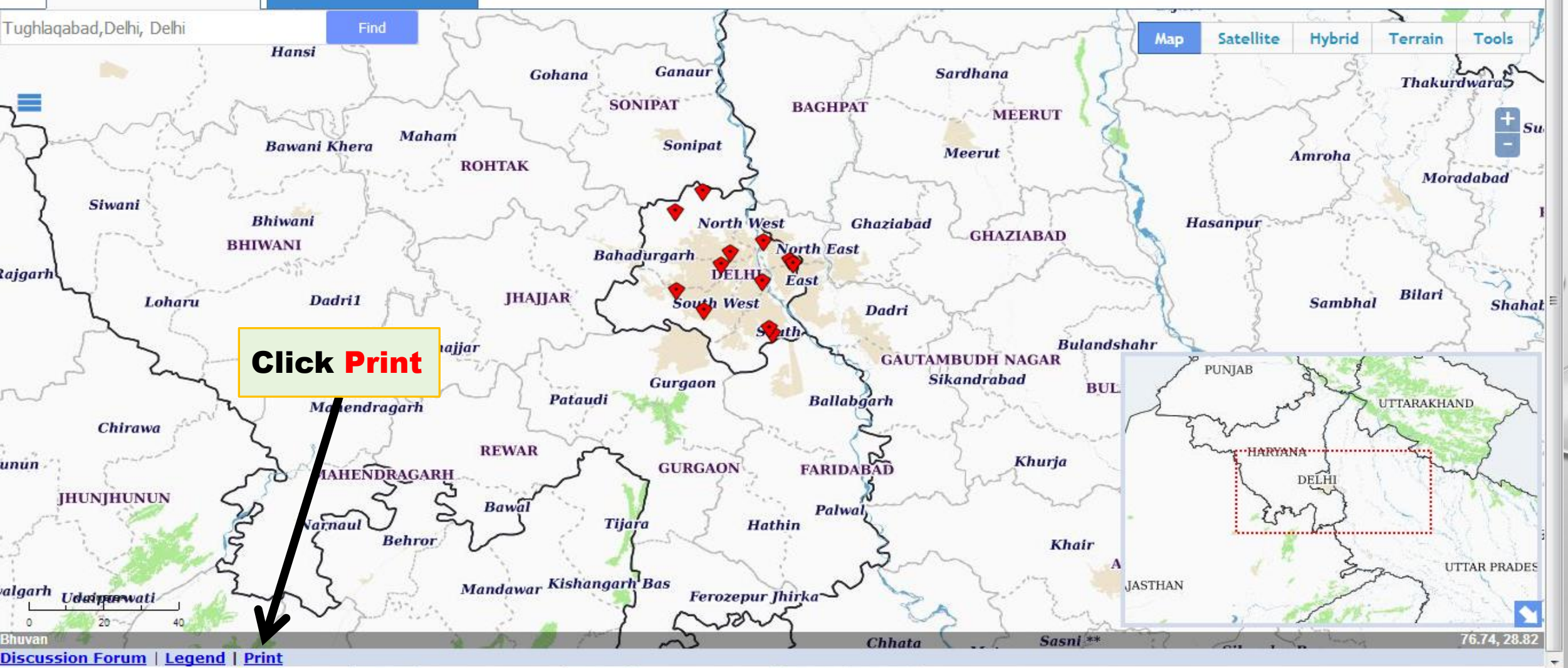
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Map Satellite Hybrid Terrain Tools

**Print Map**

Title Air Quality in Delhi

Description Source Times of India November 04 2018

Proceed

**(1) Give Details of Title and Description**

**(2) Click Proceed**

Map of Delhi and surrounding regions (Gurgaon, Faridabad, Ghaziabad, etc.) showing air quality data. An inset map shows the location of Delhi within India.



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Tughlaqabad, Delhi, Delhi

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Print Map

Title Air Quality in Delhi  
Description Source Times of India November 04 2018

Proceed

PDF Report Generated.

OK

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Map Satellite Hybrid Terrain Tools

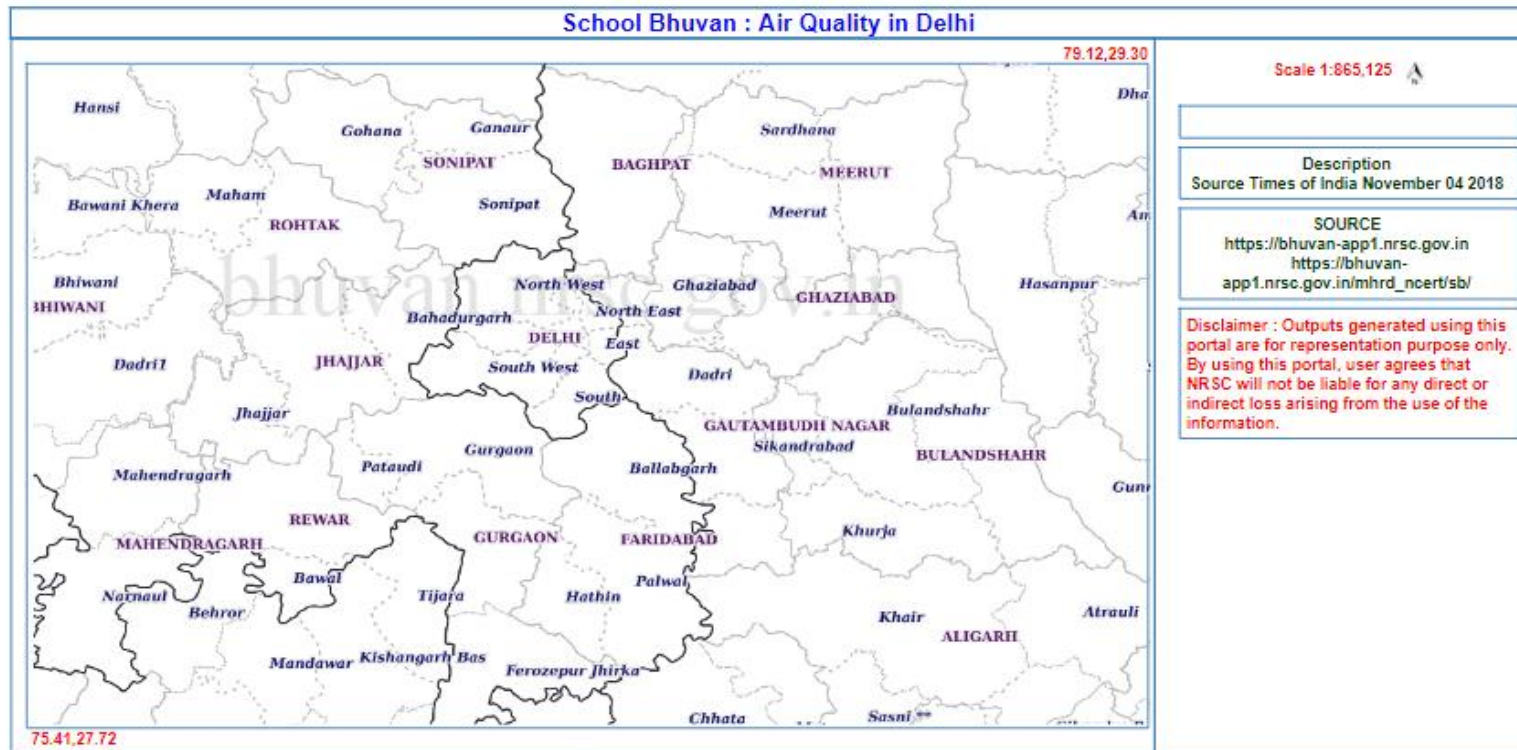
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PUNJAB HARYANA DELHI UTTARAKHAND UTTAR PRADES

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**Let's find out**

## **Causes of Air Pollution**

- a. Environmental
- b. Socio-economic
- c. Institutional

**e.g. Wazirpur**

- a. **Environmental- Absence of vegetation.**
- b. **Socio-economic- Unregistered factories, high population density, garbage dumping (toxic).**
- c. **Institutional- Violation of Rules and Regulations (Traffic, Land use, etc).**



# Development Team

**Coordinator:** Aparna Pandey, Professor of Geography, DESS, NCERT, New Delhi

**Contributor:** Sunil Sisodia, Junior Project Fellow, DESS, NCERT, New Delhi

## Reviewers:

Abrar Ahmad, PGT in Geography, Govt. Boys Sr. Sec. School, DDA Flats Ph-II, Kalka Ji, New Delhi

Bharati Boolchandani, PGT in Geography, VV DAV Public School, Vikaspuri, New Delhi

B. S. Butola, Professor, CSRD, School of Social Sciences, Jawaharlal Nehru University, New Delhi

Poonam Kumria, Associate Professor, Department of Geography, Miranda House, University of Delhi, Delhi

Rama Raghuram, Assistant Commissioner, KVS (Retd.), New Delhi

Taruna Bansal, Assistant Professor, Department of Geography, Jamia Millia Islamia, New Delhi