

A REPORT ON COVID-19 HOSPITALS IN LUCKNOW CITY(URBAN)

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This is a report on the topic COVID-19 testing centers in Lucknow tehsil. Our team has prepared the map w.r.t all the guidelines by IITB-ISRO-AICTE mapathon portal and the principle of ‘Atmanirbhar Bharat’. The map tends to provide a local map solution to the problem of nearest available testing center in Lucknow tehsil.

Method/ISRO data/GIS steps

The base map has been obtained from LISS-3 data available on the **Bhuvan app** by govt. of India.

- We have used Qgis software standard method which can be summarized in following steps: -
 1. **Georeferencing** the satellite imagery
 2. **Digitization** of roads, river/nala, forest, tehsil boundary and other features. (using point, line, area tools).
 3. **Layer styling** for making our map more accurate and easy to use.
 4. **Adding delimited data** excel sheet with coordinates point mark Covid hospitals on the map.

COMPLEXITY

Following are the complexities we faced to prepare the map: -

- **Digitization** of complex local road network, tehsil boundary, meandering Gomati river.
- Preparation of excel sheet with **accurate coordinates** of the Covid hospitals in Lucknow.
- Using some **unique tool** such as vertex tool, plugins, new scratch layer tool etc.

APPLICATIONS

Lucknow is divided into 5 tehsils namely- Sadar, Sarojini Nagar, BKT, Malihabad and Mohanlal Ganj and the Lucknow city (urban) consists of some parts of all the 5 tehsils. The aim of our project is **to map the Lucknow city (urban) area in order to increase the accessibility of people to reach the respective targeted centers (testing/ treatment/vaccination)**. Our map consists of 8 layers (river stream, L1, L2, L3 Hospitals, local roads, forests) which will be sufficient for a client to identify his/her destination.