

# METHODOLOGY

## **DATA INFORMATION:**

All the shapefiles create from- <https://bhuvan-app1.nrsc.gov.in/bhuvan2d/bhuvan/bhuvan2d.php>.

## **METHODS:**

- All the work done by QGIS software.
- For collecting Mining, Railway station, Hospitals, Airport, River, Rail line, National highway, Primary road, Secondary roads, Tertiary roads, Street roads, Residential roads and Dam open <https://bhuvanapp1.nrsc.gov.in/bhuvan2d/bhuvan/bhuvan2d.php>.
- In bhuvan 2D →choose satellite view→Tools→ Draw tool→click “draw a point”/”draw a poly gone”/”draw a line”→in search box search the feature or place →put a points/polygon/line on this feature or place→ export as shape file.
- In QGIS I am marge all the shapefile by group such as Mining, Roads etc. from vector tool →Geoprocessing tool→ Union.
- For Line density- vector→ Geoprocessing tool→ Union→ Put all road shapefile→Run→(After union open attribute table and calculate length)→processing→toolbox→interpolation→line density→ put union file in input line layer→ choose “length” in weight field→ run.
- All the features open in qgis →put label on block, National highway and use various symbol on all the features by using properties.
- In QGIS →project→ new print layout→Design our map → export as JPEG.

## **COMPLEXITIES:**

- In Bhuvan 2D all the shapefiles are create individually ,not as folder or group such as in mining shapefile I am create 16 point but all the points are save individually.
- Sometimes Bhuvan site work very slow.

## **APPLICATION OF MAP:**

- This map gives us information about road network of Bardhaman district and which area under Primary roads, Secondary roads, Tertiary roads, Street roads and Residential roads.
- Which area under High, Moderate and Low connectivity is fully described by density on this map.
- Road network, Rail line, Hospitals, Mining, Railway station, Bus stop and Airport all of this features described on this map which is improve our mental map.
- The business people get idea about road connectivity from this map which is helping them to start a transport business.
- The road map provides a guide to any team, allowing the team to recognize and act on events that require a change in direction.
- This road map is a strategic plan that defines a goal or desired outcome and includes the major steps or milestones needed to reach it.
- It also serves as a communication tool.