* This map is a drainage network map of district Visakhapatnam

ISRO DATA USED:

* I used Cartosat data to obtain the high-resolution data for tracing the Rivers and other Water bodies.

QGIS STEPS USED:

* I used open street map to avail the administrative boundary of district.
* Then I used fill option to regenerate the cartosat data.
* Then I used Strahler order to get the drainage outlines.
* Later I used the unique values render and got the different classifications of drainage system.
* Once the classifications are done, I used raster calculator for only major tributaries.
* Then I adjusted the color and traced the major river systems and water bodies.
* The small dots that are visible in the map are the tributaries from the nearby hills.

This map can be used to identify the drainage system of Visakhapatnam district and the major application of this map is that it can be used to identify the catchment and the future Constuction of any canals that can be used for various purposes like irrigation, industrial usage and etc.

Team name: AYANAM; Id: mapathon0007; Lead: Sameer Varma

Email: [123001060@sastra.ac.in](mailto:123001060@sastra.ac.in) , sameervarma2001@gmail.com