**POPULATION WISE ACTIVE CORONA CASES OF UTTRAKHAND**

1. **Software Used: QGIS 3.16 (**[**https://qgis.org/en/site/**](https://qgis.org/en/site/)**)**
2. **ISRO Data Used**: BHUVAN (<https://bhuvan.nrsc.gov.in/>), Government Data (<http://data.gov.in/>), Indian Boundary Maps (<https://static.fossee.in/mapathon/Mapathon2020_Data>).
3. **Methodology:**
4. Firstly, we entered the shape files of the state and the entered the shape file of the districts.
5. Then, we deleted the rest of the state other than Uttarakhand. Using the “EDIT” option.
6. Then we downloaded the data of district wise population and subsequently the active corona cases.
7. Then, we individually find the ratio of the population and active corona cases and divided it into Green, Orange and Red Zones.
8. Then we used the Properties command for editing the colors and fonts on map.
9. **Map Description and Usage:**





Year 2020 is a tough year for all of us globally a pandemic COVID 19 viruses is widespread across the globe resulting in large no of population getting affected by it resulting in respiratory problems and sometime marking deaths as its consequence. Each and every scientist, doctor, nurse, banker, peon, govt. official etc. are working day and night in order to protect our earth from this pandemic by risking their life. But to protect our earth is not the responsibility of few, each and every one has to take part in such situation, work for the benefits of society and together fight with such epidemics.

Since the scientist with mind numbing toil had finally made the vaccine (Pfizer-Biotech) and it requires a well distribution plan to be accessible to everyone. So, we took the responsibility and for Uttarakhand we prepared the data of ratio of active corona cases in a district with respect to their total population and marked the districts whether they are in very critical, critical or in normal state.

According to the data of **30th December 2020** as mentioned above would be helpful to find out the districts much affected by the virus and thereby prioritizing them for vaccine distribution.

**THE WORK INCLUDES-**

A-Total population of each district, (population increment with respect to census 2011)

B-Ratio of active corona cases with respect to total population of district.

C-Marking of states with different colour depending on the ratio value i.e., danger of corona virus.

D-(Red – very urgent need of vaccination

Orange-urgent need of vaccination

Green – moderate need of vaccination)