**UTTRAKHAND GOVERNMENT HOSPITALS AND BLOOD BANKS**

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 used the Properties command for editing the colors and fonts on map.
7. Then we downloaded the data of Government hospitals and the blood banks of the districts of Uttarakhand from the BHUVAN website, by marking each hospital individually.
8. Then, these individually marked location is entered into the software as a shapefile and merged in ones.
9. Again, the name and the colors and the symbols were edited using Properties command.
10. **Complexity:** we have marked each and every Government hospitals and Blood banks individually and then these individual files are one by one added in the software and then merged in one. We have also added the 7 major cities of Uttarakhand by marking the area using the BHUVAN website. Then they are added in the software individually and the these are merged in one.
11. **Map Description and Usage:** As we all know COVID-19 pandemic came in India on Jan 30, 2020 when the first confirmed case of novel coronavirus has been reported where a student studying in Wuhan University. Since then, we all are facing so many problems of losing lives of our loved ones and also challenged financially. After fighting for so long, the good news of vaccine also arrived in India. So, in this threatening situation of pandemic here is our small contribution. We created a map in which Government hospitals and other Public Blood Banks have been located for the storage of vaccines. As per COVID - 19 Vaccine Operational Guidelines, all measures should be taken to avoid exposing the vaccine carrier, vaccine vials or ice packs to direct sunlight. As all the public hospitals and blood banks showed in the map is to provide ease distribution of vaccines without any ambiguity. There are 13 districts in Uttarakhand which consist of 27 public hospitals and blood banks. Different colors and symbols are used to show different districts, hospitals, blood banks and major cities. For this opportunistic work, we have chosen one state which is Uttarakhand because of the time limit and also most of the districts lie in hilly region where vaccine availability is a bit challenging and that’s why it is necessary.