**MAP FOR VACCINATION IN TAMIL NADU**

**Introduction:**

A map is a symbolic representation of selected characteristics of a place, usually drawn on a flat surface. They teach about the world by showing sizes and shapes of countries, locations of features, and distances between places.

**Resources Used:**

* **ISRO:**
* State and district boundaries are downloaded from the website provided.
* Population of the districts are collected from the State portal in BHUVAN geoportal.
* **GIS:**
* Data that are required for the map generation are downloaded from various sources and grouped in an Excel sheet and that was imported into the QGIS software.
* Used various toolboxes like buffer, difference, etc… are used.

**Methodology:**

* Tamil Nadu state boundary with all the district boundaries are imported into the QGIS software.
* Population details are collected from the BHUVAN geoportal and the location (Latitude and Longitude) of the Health Care Centers (Government Medical Colleges) are acquired from the Google maps.
* These data are brought together in an Excel sheet and they are separately imported as a layer into the QGIS.
* Using buffer toolbox, a circle was drawn around all the Health Care Centers with a certain radius so that roughly all the government hospitals in that particular district is covered.
* A difference toolbox is used to get the areas in the state which was not covered in the buffer zone.

**Application:**

The main application of this map is found to be in COVID-19 vaccination.

* The map has the population of all the districts so that the number of vaccines to be distributed for that district is known.
* It also has the details of the areas from where people can easily access the hospitals for vaccination/the hospitals can reach the people easily.
* An another important feature of this map is that it has the areas far from the hospital zone. For people living in that areas, medical camps can be arranged to distribute the vaccines.

**Conclusion:**

Very soon the vaccines for Corona virus will be distributed. The vaccines should reach the people as soon as possible. And there should be no delay in distributing the vaccines without prior knowledge about the districts. Hence this map provides many advantages for the vaccine distribution.

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