**Project Name: Optimal Connectivity of Unconnected Villages through Roads in Rural Area (Uttarakhand)**

**Dataset Provided:**

1. **Villages Layer**

* Description: Contains the location and information about villages
* Data format: Shapefile
* Coordinate System: Datum-WGS84, Projection-UTM, Zone-44N
* Attribute Fields
* FID: denotes feature ID
* Shape: denotes feature geometry (point)
* Name: denotes name of villages

1. **Road Network Layer**

* Description: Contains the road network of the study area
* Category: Major roads, minor roads, and streets
* Data format: Shapefile
* Coordinate System: Datum-WGS84, Projection-UTM, Zone-44N
* Attribute Fields
* FID: denotes feature ID. Unique identifier for each road segment
* Shape: denotes feature geometry (line)
* Name: denotes name of roads
* PREFIX: denotes the location name of starting end of the road
* PRE\_Type: denotes the type of PREFIX like type of landmark (market, facility etc.)
* SUFFIX: denotes the location name of dead end of the road
* FULL\_NAME: denotes full name of the road like prefix-name-suffix
* Oneway: denotes whether lane is one or two ways. F or FT denotes the movement is allowed in from-to direction of digitisation and T or TF denotes the movement opposite to the digitization direction of the roads. Null value denote both way movement
* Shape\_Leng: denotes length of road segment in meters.
* FT\_SpeedLi: denotes the average permissible speed (speed limit) to travel in the direction from the starting point to end location of the road segment
* TF\_SpeedLi: denotes the average permissible speed (speed limit) to travel in the direction from the ending point to the starting point of the road segment.
* FT\_Time: denotes the time (in minute) required to travel from the starting point to end point of the road segment
* TF\_Time: denotes the time (in minute) required to travel from the end point to starting location of the road segment