



# GLACIAL LAKE STUDIES IN SIKKIM



## 3. CONTOUR MAPPING AND DEVELOPMENT OF HIGH RESOLUTION AERIAL IMAGE.

### (A) Definition:

It entails making a detailed map of land shapes using contour lines and creating a clear, detailed aerial photo of the area.

### (B) Instruments used:

Unmanned aerial vehicle (UAV) – drone.



### (C) Expected deliverables:

- High resolution elevation contour profile



## 4. GEO-PHYSICAL INVESTIGATION.

### (A) Definition:

It refers to the use of specialized tools and techniques to explore and understand the physical properties of subsurface.

### (B) Instruments used:

Electrical Resistivity instrument, Ground penetrating radar.



### (C) Expected deliverables:

- Details of the subsurface geology
- Thickness of moraine
- Signature of dead ice and water bodies
- Lithological/structural/geomorphologic and geotechnical understanding of the area.

