

## JUSTIFICATION FOR LOCATING THE PROJECT IN FOREST AREAS

Ministry of Jal Shakti, Department of Water Resources and Ganga Rejuvenation, Govt of India has a nation wide plan to install Automatic Data Acquisition & Real Time Data Transmission System through Satellite based Telemetry stations for flood moderation and forecasting activities.

The Scheme "Development of Water Resources Information System (DWRIS)" is a Central Sector Scheme of the Ministry of Jal Shakti, Department of Water Resources, River Development & Ganga Rejuvenation (MOWR, RD & GR), Govt. of India being implemented by Central Water Commission (CWC). Under this National scheme the flood forecasting by CWC has been identified a core activity for flood related disaster management for securing against natural / man made disaster like floods, landslides, etc. The real time data through telemetry will strengthen the flood forecasting network in Sikkim.

As per guidelines of **World Meteorological Organisation** the minimum density of rain gauge stations for mountainous region for recording and non recording type is one per 2500 and 250 Km<sup>2</sup>, respectively. On this basis the number of telemetry stations proposed for the State of Sikkim are 45 nos. and accordingly the location and co-ordinate were decided as per **Thiessen Polygon method and other scientific methods** to carry out the measurement of rainfall/snowfall in an efficient manner. During the physical survey of the proposed location the geographical co-ordinates of these Telemetry stations were found to be both in forest as well as non-forest land.

Therefore, it was decided to approach corresponding government agency for approval of the land under forest.

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