

BRIEF NARRATIVE OF THE SCHEME
FOR
TRANSMISSION SYSTEM FOR TRANSFER OF POWER FROM GENERATION
PROJECTS IN SIKKIM TO NR/WR(PART-B) IN STATE OF SIKKIM
(APPROACH ROAD TO 66/11 KV KUMREK SUB-STATION)

1. PREAMBLE

- 1.1 The state of Sikkim is spread through 7096 sq km and 4 no of districts. The peak demand of Sikkim is expected to grow from 70MW to 144 MW by the end of XII plan and to 176 MW by end of XIII plan. At present there was only two 132 kV sub-station in Sikkim. The load centers are dispersed & isolated and did not get benefit of grid connected power over the year.
- 1.2 Energy & Power Department, Govt. of Sikkim, in abbreviated EPDS, the State Transmission & Distribution Utility, Govt. Of Sikkim planned to develop network so that affordable, secure and reliable power could be made available to various locations of the state. So, EPDS take up the job of constructing suitable transmission lines and Sub-stations for evacuation of power generation from existing & upcoming Hydro Projects in Sikkim to the four District of Sikkim. EPDS has planned to construct 19 nos. of sub-station and 29 nos of transmission lines and 08 nos of bays extension for Strengthening of power transmissions and distributions in Sikkim State for overall integrated power development.

2. DESCRIPTION OF THIS PARTICULAR PROJECT

- 2.1 The proposed 66/11 KV Sub-Station transmission lines constituting :

i) 66/11 KV Sub-station.

This Sub-Station shall be connected to 132 kV Sub-Station at Samardung and 66 KV Sub-Station of Rorathang by 66 KV Transmission Lines to enable transmission/evacuation of power to different load centers.

- 2.2 Geographic area of the Scheme in Sikkim :

1	66/11 KV Sub-station.	Name of Village – Kumrek
		District – East Sikkim

- 2.3 The enclosed map plotted on traced Survey of India Toposheet of 1:50000 scale (1cm=0.5 km) shows the route alignment of approach road to 66/11 KV Sub-Station at Kumrek proposed under the scheme.

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3. ACCRUAL OF BENEFIT OF THE SCHEME

Affordable, secure and reliable power could be made available to various locations of the state and development of industries and agriculture beside relief to domestic consumers in the entire Sikkim state. The increase in installed capacity of Electric Power shall help to achieve GDP growth. Sikkim state will have their free quota of energy generated as per present practice which will make the state power surplus/self reliant on its energy demand in addition to inflow of revenue from sale of excess power.

4. DESCRIPTION OF THE PARTICULAR ROUTE

Small portion of the land is being involved for the construction of approach road to 66/11 KV Kumrek Sub-Station. The length of the road is 450 m (approx), to facilitate the construction and operation of the Sub-Station construction of the road is on priority.

5. CONCLUSION

The Hydro-electric Projects being developed by the various Independent Power Producers as mentioned above having their Power Houses and associated AIS & GIS Switchyards at different area in Sikkim and the demand of electric power is being constantly increasing, to cater the demand of increase in power demand various Sub-Stations and Transmission Lines is envisages to construct under the scheme. Energy & Power Department (Govt. of Sikkim), the State Transmission & Distribution Utility, has to make its transmission system ready for evacuation of power matching with target of commissioning of Generating units.

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