

20-06-2017

110/11 kV
new 11 kV

1	110/11 kV Siddapura	Nidgod	18.80	2521	40.28	1.5010 6	4.95	0.03834
2		Harsikatta	27.85	2286	28.40	1.2651 3	5.18	0.03676

Summary:

- i. Total load on new sub-station will be 9685 kVA.
- ii. Annual energy savings will be 1.44811 Mus.
- iii. Approximate cost of the project is Rs 462.01Lakhs.
- iv. BCR will be 1.60.
- v. Reduction of load on 110 kV Sirsi sub-station will be 2582 kVA.
- vi. Reduction of load on 110 kV Siddapura sub-station will be 7103 kVA.
- vii. Forest Land identified, yet to be acquired.

Planning section comments:

- 1) The work is not included in APW 17-18.

Discussion: The Director (Technical) HESCOM explained to the committee that, 11 kV feeders feeding to Kanasur and surrounding areas are overloaded, very lengthy and having poor voltage regulation. The power supply is being arranged in spells to Kanasur and surrounding areas.

The Director (Technical) HESCOM also brought to the notice of the committee that, the length of 11 kV Harsikatta feeder is about 64 kms (Rabbit-39.05 Kms, Squirrel-15.01Kms). Load on this feeder comes after a distance of 28 Kms from 110/11 kV Siddapura sub-station end. The length of 11 kV Kanasur feeder is about 43.34 kms (Rabbit-37.94 Kms, Weasel-5.04Kms). Load on this feeder comes after a distance of 25 Kms from 110/11 kV Siddapura sub-station end. For having better voltage regulation and bifurcation of load, there is no possibility of construction of any new 11 kV feeders. Hence, requested the committee to consider the proposal.

The Committee discussed the subject in detail. The Committee observed that by establishing 110/11 kV sub-station at Kanasur, the Voltage Regulation of 11 kV lines will improve. There will be improvement in tail end voltage. Interruption of power supply will be reduced to maximum extent. Quality and reliability of power supply can be achieved. This area is having concentrated load and existing sub-station feeding this area is over loaded.

Further, the committee also observed that, load to an extent of 2582 kVA from 110 kV Sirsi and 7103 kVA from 110 kV Siddapura sub-stations will be transferred to proposed 110/11 kV sub-station.