

Weasel-5.04Kms). Load on this feeder comes after a distance of 25 Kms from 110/11 kV Siddapura sub-station end. Hence, there is no possibility of construction of any new 11 kV feeders and bifurcating to load.

Alternative-1:

11 kV feeders are proposed for reconductoring with Rabbit and express feeders are proposed. The details are as follows.

Sl. No.	Name of the sub-station	Name of 11 kV feeders	Length of the line (in Kms)	Connected Load (kVA)	Peak Load in Amps	AES in MUs	VR %	AEL in MUs
1	110/11 kV Siddapura	Kansur	43.35	5069	81.00	3.78600	21.52	0.33516
		Harsikatta	54.15	6841	85.00	3.01820	29.54	0.62779
2	110/11 kV Sirsi	Marigadde	28.00	1000	30.00	2.49210	9.26	0.18492
		Sampakanda	64.00	6185	74.00	5.13120	18.21	0.66908

Even after reconductoring of existing 11 kV feeders with Rabbit conductor and after construction of new express feeders, the voltage regulation of some 11 kV feeders is not improving. 11 kV Harsikatta, 11 kV Kansur and 11 kV Sampakanda feeders passes through the dense forest area, it is difficult to get the clearance from the forest department to construct another express feeder. Hence, considering the above facts this alternative proposal - 1 is not feasible.

Alternative-2:

Establishing 1x10 MVA, 110/11 kV sub-station at Kanasur by constructing 110 LILO line from one circuit of 110 kV Jog-Sirsi DC line using Lynx conductor for a distance of about 0.5 km

The 11 kV feeder loading and rearrangement is as follows

Sl. No.	Name of the sub-station	Name of 11 kV feeders	Length of the line (in Kms)	Connected Load (kVA)	Peak Load in Amps	AES in MUs	VR %	AEL in MUs
1	Proposed 110/11 kV Kanasur.	New Herur	23.45	2788	34.64	1.54295	5.74	0.04971
2		New Heggaraani	24.70	1767	21.96	0.97790	4.12	0.02263
3		New Kansur	19.05	2548	40.72	1.51713	2.94	0.02299
4		New Ajjibala	20.90	1582	18.93	1.31245	2.16	0.02032
5		Marigadde W/S	6.00	1000	30.00	2.4921	1.27	0.02538
1	110/11 kV Sirsi	Residual Sampakanda	63.00	4603	55.07	3.81874	22.79	0.67949