

DETAIL NOTE

Report:-

Area of village Paunta, Fatehpur , Barot, Nalta, Talow, Kaner, Lunada, Trara, Darkauli, Gopalpur, Dol, Nain, Jukain, Hari, Behna, Upper Bhambla, Sadwal, Dhalwan, Panyali, Kas, Kolni of ESD Bhambla are presently fed from existing 11KV Khudla-Sarkaghat feeder and Khudla Sulpur Bahi feeder emanating from 33/11KV sub-station Khudla. These are located at the far end of the said sub-station. These feeders are running in zig-zag position and approximately 27.700Kms & 20.000 Kms in length. These villages are facing acute low voltage problem. Due to 11KV lengthy feeders, line losses are on very much higher side.

Salient features of this feeder (i.e. 11KV Khudla to Sarkaghat)

Name of feeder	Feeder S/Stn. 132/33/22/11KV	33/11KV S/stn.	Length of main feeder (Kms.)	Conn. KVA	Maximum demand (MVA)	% V.R
11KV Khudla – Sarkaghat	Anu (Hamirpur)	Khudla	27.700	3480	70Amp	12.62%

It is clear from above that there is acute low voltage problem in the area being fed from the aforesaid sub-station.

Present:-

The project area of the scheme is situated on Jahu-Sarkaghat and Jahu-Kalkhar super highway. This area is mostly rural and steep hilly terrain. There is a scattered group of house and a very wide network of LD system due to which there is low voltage problem as whole HT & LT network is very lengthy. In order to provide reliable power supply with adequate voltage to the prospective consumers some remedial measures are very much needed.

The people of the area are representing time and again through their public representatives for regular power supply with proper voltage.

Due to lengthy HT feeders transmission losses (11KV) are on very much higher side. LT line losses are also not up to the mark.

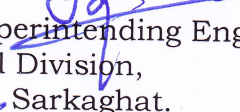
Keeping in view the above, a 33/11KV 2X1.6MVA sub-station has been proposed at Nalta (Talow) which is the load center and centre point between 33/11KV sub-Station Brachhwar and 33/11KV sub-station Khudla.. A sufficient Govt. land is also available for construction of 33/11KV sub-station at Village Nalta (Talow). As soon as this sub-station is approved by STC, the requisite process for transfer of land in the name of HPSEBL will be started. 33KV line for the said sub-station has been proposed for tapping from proposed 33KV Jahu-Barchhwar feeder. It will be approximately 2.000Km (LILO) arrangement. 3 No outgoing feeders with 1 No. spare have been proposed from this sub-station, namely 11KV Fatehpur feeder, 11KV Bhambla feeder and 11KV Mohin feeder and it involves 3.650Kms new 11KV HT line to connect existing system.

Load Growth: -
project area.

5% load growth is considered as per present trends in the

Proposed system:- It is proposed to install 2x1.6MVA, 33/11KV Power transformer along with 1 No station transformer of 100KVA 33/0.4KV capacity and other equipment required for 33/11KV sub-station. 2.000Km 33KV line with LLO arrangement will be constructed on steel tubular pole 11Mtr long with AA Cond. 7/4.26mm. 4 No outgoing feeder will be emanated and out of them 1No will remain as spare one to meet future requirements.

EHV support:- Proposed 33/11KV sub-station Nalta (Talow) is to be supplied power from 132/33KV Sub-Station Jahu (under construction)


Addl. Superintending Engineer,
Electrical Division,
HPSEBL, Sarkaghat.