



HIMACHAL PRADESH STATE ELECTRICITY BOARD LIMITED

(A State Govt. Undertaking)

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No. HPSEBL/CEOCZ-DB-6/2022-23- 15590-91

Dated:-

23⁰¹/₂₃

To

The Chief Engineer (SP),
HPSEBL, Uttam Bhawan,
Dogra Lodge Shimla-4.

Subject:-

Evacuation arrangement for Phknoji-II SHEP (5.00MW).

Reference:-

Your office letter no. HPSEBL/CE(SP) IPSP/DB-65 (A) NP/Vol-X/2021-4402-04 dated 10.02.2021.

Sir,

With reference to above cited subject, it is intimated that Phknoji-II SHEP (5MW) is approximately 5.5KM away from the existing 33/11KV sub-station Naggar at Marhi and feasibility for evacuation of power from Phknoji-II SHEP is possible by constructing double circuit line from Haripur at Str. No- 26 to 33/11KV Naggar on existing 33KV Old feeder from Prini to Naggar on following term & conditions:-

First Option:-

1. If 33KV old feeder converted to double circuit from Str. No 26 to 33/11KV S/Stn Naggar at their own cost along with extension of 33KV bay at 33/11KV S/Stn Naggar for which the land & cost at 33/11KV S/Stn Naggar has to be bear by the IPP.
2. The metering arrangement will be at 33/11KV S/Stn Naggar.

Second Option:-

1. If 33KV Naggar-Prini Old feeder may be converted in to double circuit from 33/11KV S/Stn Naggar to 33/11KV S/Stn Prini along with bay extension at both side in that case interconnection point will be at Haripur Str. No 26 in 33KV Old feeder from Naggar to Prini by providing LILO arrangement.
2. The IPP shall bear the calculated line losses from generating station to 33/11KV Sub Station Naggar.

It is also intimated that the power evacuation arrangement 1st option is more viable. The format for feasibility report and key diagram of 33/11 KV, 2x5 MVA Sub Station Naggar are also enclosed herewith

DA:- Single line diagram (1no.).

Yours faithfully,
Chief Engineer (Operation),
Central Zone, HPSEBL, Mandi.

Copy to the Superintending Engineer, (OP), Circle, HPSEBL, Kullu w.r. to his letter No HPSEBL/OCK/DB-19/2022-23-7151-52 dated 08.01.2023 for information.

Chief Engineer (Operation),
Central Zone, HPSEBL, Mandi.



SAVE ENERGY FOR THE BENEFIT OF SELF AND NATION
HIMACHAL PRADESH STATE ELECTRICITY BOARD LIMITED.
 (A STATE GOVERNMENT UNDER TAKING)

Annexure-"A"

Format for feasibility reprot

Sr. No.	Sub Station / Distribution Asset	Capacity (in MVA)	Maximum Load Demand	Minimum Load Demand	Injection from existing Hydro Project
1	33/11KV Naggar S/stn.	2X5 = 10 MVA	9.6 MVA	1.2 MVA	Baragran SHEP 6.17 MVA & Haripur SHEP= 1.42 MVA
2	33/11KV Prini S/stn.	31.3 MVA	27.45 MVA	4.63 MVA	Aleo-I, II & III SHEP= 11.08 MVA

Sr. No.	Transmission line	S/C or D/C	Conductor Size	Current Carrying Capacity	Maximum Load wheeled through the Transmission line
1	33KV Prini-Naggar line	D/C	ACSR 6/1/4.72mm ²	325 Amp.	286 Amp. on old circuit & 270 on New cicuit
2	33KV line emanating from 33/11KV Naggar Sub station				
i)	33KV Naggar- Fozal line Bay no. 307	S/C	AL-59	422 Amp.	282 Amp.
ii)	33KV Naggar- Fozal line Bay no. 308	S/C	AL-59	422 Amp.	292 Amp.
iii)	33KV Naggar- Bajaura line	S/C	AAAC(7/4.26) Dog type	325 Amp.	288 Amp.
iv)	33KV Naggar- Prini line New Feeder	S/C	ACSR 6/1/4.72mm ²	325 Amp.	296 Amp.
v)	33KV Naggar- Prini line Old Feeder	S/C	ACSR 6/1/4.72mm ²	325 Amp.	290 Amp.
3	33KV line emanating from 33/11KV Prini Sub station	S/C Prini Palchan	AL-59	422 Amp.	295 Amp.

it is recomended that power evacuation arrangement for proposal No. 1 is more viable.

(Er. Devinder Koundal)
 Senior Executive Engineer,
 Electrical Division, HPSEBL,
 Manali-01902-252306

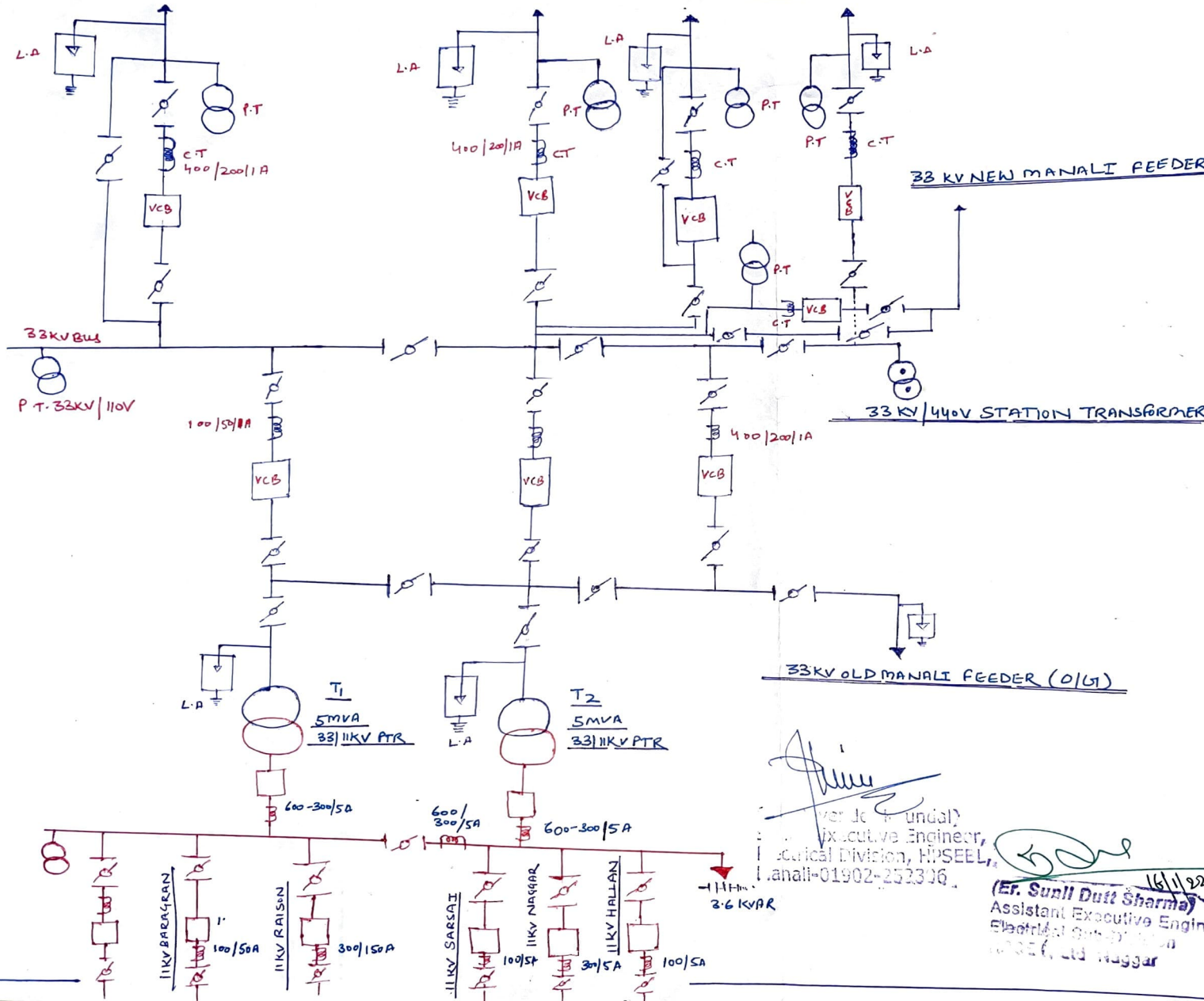
SINGLE LINE DIAGRAM OF 2x5MVA, 33/11KV SUB STATION NAGGAR

33KV BAJOURA-NAGGAR FEEDER

33KV FOZAL-NAGGAR (308)

BARAGRAN HEP

33KV FOZAL-NAGGAR (307)



CONDUCTOR DETAIL

33KV BUS	PANTHER (30.17/30)MM
33KV LINE	DOG (ACSR 6/114.72.96)
EARTH-WIRE	6SWG/ms Flat 50 x 6mm
11KV BUS	RABBIT (6/11335MM)
11KV LINE	RABBIT (6/11335MM)

LEGENDS

1. LIGHTENING ARRESTOR
2. CIRCUIT BREAKER
3. CURRENT TRANSFORMER
4. POTENTIAL TRANSFORMER
5. ISOLATOR
6. POWER TRANSFORMER
7. 11KV BUS BAR
8. 33KV BUS BAR
9. STATION TRANSFORMER

Over Jc (undal)
Executive Engineer,
Technical Division, HPSEEL,
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(Er. Sunil Dutt Sharma)
Assistant Executive Engineer
Electrical Division
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16/1/22