

**Full Title of the Project: - Construction of 66kV transmission line from Proposed 220/66kV S/Stn.Nadukhar to existing 66/22kV S/Stn. Gumma. (H.P)**

File No. \_\_\_\_\_

Date of proposal: \_\_\_\_\_

**Check List Serial Number-3  
(Annexure-A)**

**DETAILS OF PROJECT**

**Construction of 66kV transmission line from Proposed 220/66kV S/Stn.Nadukhar to existing 66/22kV S/Stn. Gumma. (H.P)**

**PROJECT HIGHLIGHTS**

**Project: -** Construction of 66kV Double Circuit transmission line from proposed 220/66kV sub-station Nadukhar to existing 66/22kV sub-station Gumma (H.P.)

**Location of project: -** Nadukhar to Gumma, Teh. Sunni & Shimla (Rural), District Shimla, Himachal Pradesh.

**Beneficiary states: -** Himachal Pradesh & Northern Region Constituents.

**Project Cost: -** Rs 1186.60 lakh

**1.) BACKGROUND**

Shimla Jal Prabandhan Nigam Ltd. (SJPNL/I&PH) has proposed to establish its water supply schemes in three pumping stages for fulfilling the deficit of water requirements of Shimla town and its surrounding areas and has requested HPSEBL to supply requisite power for all its pumping stages at 66kV level. Accordingly for supplying power to the pumping stage – I & II for the scheme it was envisioned to construct a 220/66kV sub-station at Nadukhar (Basantpur) by tapping the 220kV Kashang-Bhaba-Kunihar D/C line which is in very close proximity to the sub-station. However, it was not practical to construct a 220/66kV sub-station solely for providing 20-25 MVA power to SJPNL. It would be pertinent to mention that HPSEBL's existing 66kV Jutogh-Gumma transmission line is a single source of supply which is currently meeting the load requirements of Mashobra, Sunni, Theog, Sainj, Kotkhair & Chopal regions in Shimla district and is currently overloaded. Thus, in order to supplement the power requirements of these regions by a secondary source and further keeping in view the voltage improvement it would bring for these areas, it was proposed to construct a 66kV D/ C line from Nadukhar to Gumma. The additional load drawl of 30-40 MVA from 220 kV level and further relief from overvoltage in Kinnaur district would further justify the setup of the sub-station and

construction of proposed 66kV D/C line from Nadukhar to Gumma. The resulting proposal was later approved by HPSEBL's EHV committee HPSEBL vide letter No. HPSEBL/CE(SP)/W-76(EHV)/2019-700-24 dated 16-05-2019 vide agenda item No.75.10.

Keeping in view the facts cited above, a double circuit transmission line from Nadukhar to Gumma (Basantpur) is proposed to be constructed with a probable cost of Rs. 1186.60 lakhs.

## 2.) FUNDING

The probable cost for constructing the transmission line is Rs. 1186.60 lakh. The said cost shall be met by arranging funds from Financial Institutions/ Rural Electrification Commission (REC) and HPSEBL's own resources.

## 3.) EMPLOYMENT

During construction stages about 80 persons (58400 mandays) will be directly employed for the construction of the transmission line whereas only monitoring of construction activity will be carried out by existing regular staff (Sr. Executive Engineer, Assistant Engineer, Junior Engineer etc.) of HPSEBL. However, once the transmission line is commissioned, the prospective of carrying out its operation & maintenance through existing staff as aforementioned or through recruitment of new staff (regular/contract basis) as per existing norms or through deployment of staff on outsourced basis cannot be ascertained at this stage. Hence generation of regular employment at this stage is being considered as nil.

## 4.) STRENGTHENING OF PRESENT ELECTRICAL SYSTEM


Commissioning of this project will ensure n-1 contingent source of supply to the people of Mashobra, Sunni, Theog, Sainj, Kotkhai & Chopal regions thereby resulting in reliability of power supply & improvement of voltage profile in these areas. This project will eventually ensure strengthening of the existing Electrical System in Shimla district.

## 5.) DETAILS OF TRANSMISSION LINE

1.	Voltage Level	66 kV
2.	Line Length	9.139 km
3.	Minimum width of Right of Way	18 metre
4.	No.of Towers to be erected	35 No
5.	Area of Forest	8-40-85 ha

Date: - 27.07.2022

Place: - Totu (Shimla-11)

  
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