

Full title of project: - Construction of 220/66kv Sub-Station Nadukhar & 220 kV LILO Tower for LILO of 220kv Bhaba-Kunihar line.

File No: - _____

Date of proposal: - _____

FORM: -“A”

From for seeking prior approval under section 2 of the proposals by the State Governments and other authorities.

“PART-I”

(TO BE FILLED UP BY USER AGENCY)

I	Project details:-	Detail of project enclosed at Annexure-AS
(i)	Short narrative of the proposal and project/scheme for which the forest land is required.	SJPNL (I&PH) has requested to provide power to its water supply schemes (Stage-I & II) for catering water requirements of Shimla & surrounding areas. Hence, a 220kV GIS sub-station by tapping nearby Bhaba-Kunihar line has been proposed by HPSEBL. This will ensure ample water supply to shimla & improve voltage profile.
(ii)	Map showing the required forest land, boundary of adjoins forest on a 1:50000 scale map.	Attached at page _____.
(iii)	Cost of the project.	12014 lakh
(iv)	Justification for locating the project in forest area	Shimla Jal Prabandhan Nigam Limited (I&PH) has proposed to establish a water supply scheme in three pumping stages for providing ample water to Shimla town and its surrounding areas. SJPNL has requested HPSEBL to provide power at 66kV level for construction and future operation of its Stage-I (Shakrori) & Stage-II (Devidhar new Dwada) schemes. The nearest existing source at 66kV level in the area is Jutogh-Gumma transmission line but it is already overloaded and it is not possible to meet round the clock load requirements from the said line. Further loading it would only result in the said transmission line's failure. Since, HPSEBL is sole distribution licensee in the state of H.P., HPSEBL is bound to provide reliable power supply to its consumers (SJPNL). Accordingly, a 220kV sub-station at Nadukhar has been proposed in order to meet load requirements of SJPNL's water supply schemes to cater the water requirements of water deficit Shimla town and its surrounding areas.

	<p>In order to ensure that least amount of land is required for construction of 220kV transmission line & emanating 66kV lines from the proposed sub-station to SIPNI's pump sites and for further reduction of the environmental impact involved, various sites were explored for construction of sub-station in Sunni and its surrounding areas but there is no available land in the area wherein said it could be established. After exploring multiple sites to meet with the requirements, the existing site was selected in such a way that minimum forest land is required, minimum felling of trees is involved, minimum environmental impact and construction of lengthy transmission line network is avoided. Further, in order to minimize the land required a Gas Insulated Sub-station has been proposed over the land instead of a conventional type 220kV sub-station as its environmental footprint is 5-7 times less than the conventional sub-station. The land required for construction of the sub-station is inadvertently forest land as there is no other suitable feasible non-forest (private govt.) land available in the surrounding areas. Hence, there is no escape from using forest land and a bare minimum of 1.13-33 hectares of forest land is required to be diverted for its construction at Nadlukhar (Shimla).</p>
(v) Cost-benefit analysis	Not required as the area of diversion of forest land is less than 5 hac
(vi) Employment likely to be generated	During construction stages about 80 persons (58400 mandays) will be directly employed for the construction of the sub-station and carrying out the allied works 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 sub-station 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.

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Purpose-wise breakup of the total land required:

1.1333 Ha. (Govt = 1.1333 Ha, Pvt = 0.00 Ha)

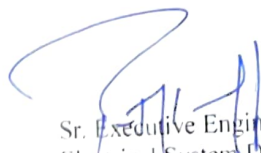
S.No.	Description	Area (in Sq m)
1	220/66kV Transformer yard	672.000
2	Control Room Building	399.555
3	220kV Interconnecting gantry	168.000
4	220/66kv GIS Building	310.742
5	220kV Outdoor GIS	804.000
6	220kV Yard a/with incoming gantries	1702.000
7	66kV Gantry for Nadukhar to Gumma	132.000
8	66kV Gantry for Nadukhar to Shakrori	78.000
9	66kV Outgoing Yard	242.000
10	66kV Outgoing Yard	242.000
11	66kV Tower for Nadukhar to Gumma	324.000
12	66kV tower for Nadukhar to Shakrori	324.000
13	66kV ROW (Right of Way) both of Nadukhar to Shakrori & Gumma transmission line	684.000
14	Sub-Division Building	162.961
15	Store Shed	144.000
16	Space for storing Line Material	176.000
17	Future bay/ space for storing line material	242.000
18	Air Handling Unit	26.530
19	Station Transformer	9.000
20	DG Set	8.000
21	Interconnecting Road	1522.500
22	Power & Control Cable Trenches	548.360
23	Breast/Retaining Wall	1828.300
24	Security Hut	6.250
25	Setback/Circulation area	576.802
	Total	11333.00
		1.1333Ha

3	Details of displacement of people due to the project if any	Nil
(i)	Number of families	Nil
(ii)	Number of scheduled castes/scheduled tribe families.	Nil
(iii)	Rehabilitation plan	Nil
4	Whether clearance under Environment (Protection) Act. 1986 required (Yes/No)	No.
5	Undertaking to bear the cost of raising and maintenance of compensatory afforestation and /or penal	Attached page no. _____

	compensatory afforestation as well as cost for protection and regeneration of safety zone, etc as per the scheme prepared by the state Government (undertaking to be enclosed)	
6	Details of certificates/documents enclosed as required under the instructions.	

DATE: 20/02/2023

PLACE: TOTU SHIMLA



Sr. Executive Engineer,
Electrical System Division,
HPSEB Ltd, Totu-Shimla-II.