

Ref. No. BHEL/2023-24/182
Dated:03/04/2024

To
The Divisional Forest Officer, GHNP,
Shamshi District Kullu (HP).

Subject: Diversion of 0.8223 ha of forest land in favor of M/S Behal Motors, Plot No. 6-7 Industrial Area, Phase No. –III Suketi Khad Mandi, HP for the construction of Jiwa-II SHEP (1.75 MW) in Sub Division Banjar District Kullu, HP, within the jurisdiction of GHNP Forest Division Distt. Kullu, HP.

Ref: Kindly refer to Letter No. Ft.48-5530/2021 (FCA) dated 23/01/2024 on the subject cited above. The shortcomings pointed out by The Divisional Forest Officer, (FCA) , O/o Pr.CCF, H.P, Shimla-1. and the point wise reply for the same is as follows:

Sr. No.	Observation	Reply
1.	The density of proposed area has still not been revised, the calculation of density as submitted vide above referred memo is still not correct. As per ISFR 2021, the canopy density more than 7.0 is for very dense forest whereas, 51 trees over 0.82 ha. Area cannot be considered as very dense forest, the correction / clarification in this regard be given. The density is to be expressed on 10 point scale not in % as expressed by you. The NPV has been calculated for dense forest whereas density in online part-II is for very dense forest. Hence, the density may be revised in online and NPV bill be prepared accordingly.	This point is pertaining to your good office please.
2.	Though the detailed evacuation plan of the extant proposal with layout plan alongwith the details & dimensions of transmission line has been provided but, 0.6 meter width for the RoW for 11 Kv underground T/line has been proposed which are not as per the guidelines of Gol issued for the purpose, hence, the area for the same may be revised accordingly.	According to the guidelines established by the Government of India, the corridor width for 11 kV underground transmission lines has been fixed at 300 mm (refer to the attached document). However, in order to enhance reliability, we have implemented a double circuit configuration for the underground transmission line, necessitating a corridor width of 600 mm.

01905-235102/ 94180-00097/ 94180-62073

jiwa-shep@behlmotors.com

Plot No: 6,7, Industrial Area, Phase-III,

Sauli Khad, Mandi (Himachal Pradesh)- 175001



		<p>A clear copy of the Power Evacuation letter from HPSEBL to the user agency, detailing the connectivity of the Transmission line along with the Layout plan, has been uploaded in additional information under Sr. no. 56 titled "Power Evacuation Letter to Jiwa with Layout Plan."</p> <p>It is hereby certified that the entire Transmission line is underground from the powerhouse to the interconnection point. Detailed information and dimensions regarding the road and Transmission line have been provided in the additional information under Sr. No. 57 titled "Transmission Line Detail."</p>
3.	<p>The detailed list of proposals approved/existing/proposed in the River Basin Area along with KML files/Maps and their distance from nearest PA/ESZ is still not found uploaded on portal. Only a KML file has been submitted through e-mail.</p>	<p>Detailed information regarding proposals approved, existing, or proposed power project in the Jiwa River Basin map has been uploaded in the additional information detail at Sr. no. 50, named 'Jiwa up and downstream aerial distance map.'</p> <p>Additionally, a list of Approved/Existing/Commissioned Projects in Jiwa Nalah, issued by the Department of DOE & HIMURJA, has been uploaded in the additional information detail at Sr. no. 58, titled 'Letter issued by DOE and HIMURJA.' This information has also been marked in the KML file, which was emailed to the Divisional Forest Officer at the official email address <u>dfoghnp-hp@nic.in</u> from our registered email ID on April 03, 2024. Furthermore, the impacts of the projects have been uploaded in the additional information detail at Sr. no. 39, named 'Impacts HPSEBL.'</p>

We kindly request that you accept our response and take appropriate action. Thank you for your consideration.

For BEHL MOTORS
Deepak Dhasan
 Best regards,
 Auth. Signatory

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Government of India
Central Electricity Authority
Chief Electrical Inspectorate Division
3rd Floor, NRPC Building
18-A, Shahid Jeet Singh Marg
Katwaria Sarai, New Delhi-100 016



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संख्या : CEI/1/2/2016/279

Dated: 22-02-2016

✓ To
Sh. H. C. Choudhary
Director (MoEF& CC),
J-207, Jal Wing, Indira Paryavaran Bhawan,
Jor Bagh Road, New Delhi-110003

Subject: - Minutes of the meeting held on 29.01.2016 to discuss the issues relating to the problems encountered by MOEF in taking up the clearances for laying line 33 KV and below in the forest areas of the country and also electrocution of wild animals

Sir,

A meeting was taken by Chief Engineer (CEI Division) on 29.01.2016 at 3:30 pm in his office in NRPC Building, Katwaria Sarai, New Delhi, to discuss the above issues. The minutes of the meeting is enclosed herewith.

Encls: As above.

Yours faithfully,

(Signature)
22/2/16
(H.M.Rao)

Deputy Director

Copy to:

1. Shri. R.K. Verma, Chief Engineer(DP&D), CEA
2. Shri. Sandesh Kumar Sharma, Chief Engineer(Legal), CEA
3. Shri. S.K.Ray Mohapatra, Chief Engineer(SE&TD), CEA

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Minutes of the meeting held on 29.01.2016 to discuss the issues relating to the problems encountered by MOEF in taking up the clearances for laying line 33 KV and below in the forest areas of the country and also electrocution of wild animals

A meeting was taken by Chief Engineer (CEI Division) on 29.01.2016 at 3:30 pm in his office in NRPC Building, Katwaria Sarai, New Delhi, to discuss the above issues. **The list of participants of the meeting is annexed.**

2. Chief Engineer (CEI) welcomed the participants from CEA and MOEF in the meeting. He asked Director, MOEF to intimate the concerns of the forest Departments (MOEF) relating to the laying of transmission lines through forest and electrocution of wild animals in the forest areas of the country.

3. Director, MOEF highlighted the following issues.

- Need to review the Right of way (ROW) requirement for 33 KV and below lines and cables.
- ✓ Reduction in ROW in forest areas in case ABC cables are used in place of OH lines.
- Death of animals like elephant etc. due to electrocution in the forest area by the distribution lines

4. These issues were discussed in details. The outcome of the discussions is as under:

i) **Reviewing the Right of way (ROW) requirement for 33 KV and below lines and cables.**

The participants from EI Division and DPD were of the view that Right of Way (ROW) for different voltage level is based on the figures given in IS 5613, which stipulates the ROW width for various voltage level distribution/transmission lines. The ROW have been arrived by the Bureau of Indian Standards (BIS) after giving a considerable thought, taking into consideration the minimum ROW required for erecting the transmission lines which includes safe horizontal clearance from outer phase to the adjoining structures/trees. Since, the BIS is a separate autonomous organization and they have different committees who decides on different standard and as such revision of IS is not under purview of CEA. In case, MOEF has any serious issue on the existing ROW of 33KV lines and below, then they need to approach BIS for amendment in the respective IS.

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As regards to laying of cable through forest areas, the general practice as followed by the distribution companies for laying cables are as under:

	Trench Width	Trench Depth
33KV	600mm	1200 mm
11 kV	300 mm	900 mm

For D/C the trench width would be nearly double.

ii) **Reduction in ROW in forest areas in case ABC cables are used in place of OH lines.**

In this context, it was pointed out that as per definitions in Measures relating to Safety and Electric Supply, Regulations, 2010, conductor is defined as bare or insulated and as such the vertical & horizontal clearance specified in Regulation 61 have to be maintained for both bare and insulated conductors like ABC etc. However, IS 5613(Part 2/ Sec2) as amended in 2007 stipulates that Lower values of ROW may be adopted by power utilities by use of V-string or adopting smaller spans in the forest areas based on the Line Clearance(Right-of-Way) Requirement. The matter was further discussed and it was informed that it is responsibility of respective distribution company to maintain the distribution lines and should also periodically check the clearances from the conductors. As per the stipulations in the then IE Rules 1956, CEA have also issued guidelines in 2005 for laying transmission / distribution lines of 11 KV & 33 KV voltage levels in areas critical from wildlife point of view and circulated the same to all the concerned for compliance. **The relevant extract of the guideline is enclosed at annexure-I.**

iii) **Death of animals like elephant etc. due to electrocution in the forest area by the distribution lines**

As regards to the Death of animals like elephant etc. due to electrocution in the forest area by the distribution lines, it was viewed that there is no restriction in any CEA Regulation on use of insulated cable/ ABC in the forest corridors. As 33 kV lines and 11 kV lines are laid by the distribution companies, so the respective distribution companies are to decide whether to use bare conductor or insulated cable as per the site location. Since the issue of increased numbers of deaths of animals like elephants etc. due to electrocution in the forest area by the distribution lines has come to notice, so it was suggested by CE(CEI) that MOEF might advise the distribution companies to either go for ABC or U/G cable in the forest area and they may consider inclusion of the same in their NOC for laying lines in forest areas. Further, The clearance above ground of the lower conductor of O/H 11 kV lines and 33 kV lines should be as per CEA regulation 58(3) and 58(4) or above maximum trunk height of the elephant, whichever ever higher.

The meeting ended with thanks to the chair.