



सत्यमेव जयते



भारत सरकार
Government of India
विद्युत मंत्रालय
Ministry of Power
केन्द्रीय विद्युत प्राधिकरण
Central Electricity Authority
विद्युत प्रणाली संचार विकास प्रभाग
Power System Communication Development Division

On behalf of
Central Level Power & Telecommunication Co-ordination Committee

No: As assigned

Date: As assigned

CEA Case No.: RAJ-831

Certificate of Approval for the Route of Extra High Tension (EHT) Power Line / Telecommunication Line

Approval of the Central Level Power & Telecommunication Co-ordination Committee is hereby conveyed to the route of **33 kV S/C UG cable from 220/33 kV 335 MW Solar PSS of M/s JREPL at Kawani Village Bikaner to ITC-20 at Kawani Village, Bikaner. (Length: 4.160 km)** particulars of which are given in Annexure I.

The approval is for the route only and is subject to the following conditions.

1. The approval is based on the Power system/ Telecom system conditions' details as reported by the Power supply authority/ Telecom authority at present. Any changes either to Transmission line or the Power system or the paralleling telecommunication lines which are likely to alter the low frequency induction from the estimated at present should be reported to PTCC for its prior approval.
2. The Power and Telecommunication authorities shall be required to adopt such measures as may be recommended by PTCC for counteracting any interference that might arise when the EHT line is in normal operation.
3. Each crossing should satisfy the conditions as laid down in Para 6 -10 of PTCC Code of Practice for crossings.
4. The angle of crossing shall be 90 degrees but in no case less than 60 degrees.
5. The power line shall be equipped with protective switchgear such that the duration of earth current shall be as short as possible but never exceeding 0.5 seconds.
6. The power line shall be energized within a mutually acceptable time limit after obtaining a Certificate from the concerned Telecom and/or Railway authority regarding completion of provision of all protective measures as recommended by PTCC and also under specific clearance from the Telecom and/or Railway authority maintaining the Telecom system.

7. The energization of Extra High Tension power lines would not be held up for want of installation of GD tubes on telecom lines when the induced voltages are in the range of 430 to 650 V.
8. The telecom line shall be commissioned within a mutually acceptable time after completing provision of all protective measures as recommended by PTCC and also after obtaining specific clearance from the Power authority, if certain measures as recommended by PTCC are to be carried out on power system.
9. The later entrant in the field shall bear the entire cost of providing GD tubes and their fitting as recommended by PTCC, including 15% spares and/or any other protective measures as recommended by PTCC.
10. The route approval shall be subject to special conditions as laid down under Annexure II.

Chief Engineer

1.	Divisional Engineer (PTCC), Northern Zone	BSNL, O/o GM (North), QA & Inspection Circle, D-Tax Building, Eastern Court, Janpath, New Delhi
2.	GM (S&T), North Western Railway	Headquarter office, Room No. 136, First Floor, Near Jawahar Circle, Jaipur – 302017
3.	Director General of Signals	General Staff Branch, Integrated HQ, MoD (army), Sena Bhawan, DHQ, PO, New Delhi- 110 105
4.	M/s Juna Renewable Energy Private Limited	10th Floor, Tower-B, Unitech Cyber Park, Sector-39, Gurugram – 122001

Annexure I

1

- | | | |
|-----|---|---|
| (a) | Name of the Power Supply authority seeking approval | M/s Juna Renewable Energy Private Limited |
| (b) | Reference number & date: | (i) Juna Renewable/PTCC/2025/32 dated 17.02.2025
(ii) E-mail dated 18.08.2025 |
| (c) | Name of the Power line | 33 kV S/C UG cable from 220/33 kV 335 MW Solar PSS of M/s JREPL at Kawani Village Bikaner to ITC-20 at Kawani Village, Bikaner. |
| (d) | Length of Power line: | 4.160 km |
| (e) | Operating Voltage | 33 kV |
| (f) | Number of circuits | 1 |

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- | | | |
|-----|----------------------------------|--------------------|
| (a) | Names of parallel telecom lines: | As per Annexure-II |
| (b) | Length of parallelism: | As per Annexure-II |

3 Average value of earth resistivity in the region: 15,000 ohm-cms

4 Whether LF test necessary: No

5 Special conditions subject to which this certificate will be effective: As per Annexure-II

Annexure II

Name of the Power Line: 33 kV S/C UG cable from 220/33 kV 335 MW Solar PSS of M/s JREPL at Kawani Village Bikaner to ITC-20 at Kawani Village, Bikaner. (Length: 4.160 km)

1. BSNL Telecom Details:

DET (PTCC), NZ, BSNL vide letter DE/PTCC/NZ/BSNL-TD/DV-10509 to 10522 & DV-10525 to 10530/Raj-1565 to 1584 /2024-25 dated 17.04.2025 has given their NOC.

2. Railway Telecom Details:

Deputy CSTE/ Tele North Western Railway vide letter SG/158/NWR/PTCC/1083-1102 dated 02.04.2025 has issued their NOC.

3. Defense Telecom Details:

ADG (telecom) vide letter B/46937/Sigs-7(b)/4490 dated 23.04.2025 has issued their NOC.

4. EPR zone for the proposed substation is mentioned below:

Name of the proposed SS	Half Diagonal Distance, D/2 (mts)	Fault Current , I (kA)	Resistance of earthmat, R (Ohms)	d (mts) at 430 V	d (mts) at 650 V	d (mts) at 7 kV	d (mts) at 10 kV
220/33 kV 335 MW Solar PSS of M/s JREPL	40.15	14.43	0.3226	395	247	NA	NA
ITC-20 at Kawani Village, Bikaner	26.73	13.92	0.941	788	512	23	8

Telecom authorities to ensure the protection of telecom equipment and personnel within the EPR zone of the proposed substation at the cost of the later entrant.

- 5.** As per the decision taken in the 111th and 112th CLPTCC meeting, since NOC has been obtained from all the stakeholders concerned, this Route Approval Certificate (RAC) shall serve as Deemed Energization Approval.