



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.: KNK-1141

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 (partially S/C and partially D/C) Feeder-05 on RSJ Pole with AL-59 Dog & Panther conductor from 220/33 kV 300 MW Wind Energy Project PSS of M/s Serentica Renewables India 1 Private Limited at Thippanahala, Yelburga Taluk, Koppal to 33 kV Unit Substation of WTG situated near Thippanahala, Thalakeri, Chadapura, Marakata & Vanajabhavi, Gule of Yelburga Taluk, Koppal. (Length: 3.652 kms D/C + 19.185 kms S/C) 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), Southern Zone	O/o CGM, QA&I circle, 2nd floor, Sanchar Complex, WMS Compound, Jayanagar, 5th block, 9th main, 47th cross, Bengaluru- 560 041
2	GM (S&T), South Western Railway	Rail Soudha, Gadag Road, Hubballi - 20
3	Director General of Signals	General Staff Branch, Integrated HQ, MoD (army), Sena Bhawan, DHQ, PO, New Delhi- 110 105
4.	M/s Serentica Renewables India 1 Private Limited	DLF Cyber Park, Block B, 9th Floor, Udyog Vihar, Phase III, Sector 20, Gurugram

Annexure I

1

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|-----|---|--|
| (a) | Name of the Power Supply authority seeking approval | M/s Serentica Renewables India 1 Private Limited |
| (b) | Reference number & date: | GIWEL/33KVPTCC/F-1 dated NIL (received on 09.07.2024) |
| (c) | Name of the Power line | 33 kV (partially S/C and partially D/C) Feeder-05 on RSJ Pole with AL-59 Dog & Panther conductor from 220/33 kV 300 MW Wind Energy Project PSS of M/s Serentica Renewables India 1 Private Limited at Thippanahala, Yelburga Taluk, Koppal to 33 kV Unit Substation of WTG situated near Thippanahala, Thalakeri, Chadapura, Marakata & Vanajabhavi, Gule of Yelburga Taluk, Koppal. |
| (d) | Length of Power line: | 3.652 kms D/C + 19.185 kms S/C |
| (e) | Operating Voltage | 33 kV |
| (f) | Number of circuits | 2 |

2

- | | | |
|-----|----------------------------------|--------------------|
| (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: 30,000 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 (partially S/C and partially D/C) Feeder-05 on RSJ Pole with AL-59 Dog & Panther conductor from 220/33 kV 300 MW Wind Energy Project PSS of M/s Serentica Renewables India 1 Private Limited at Thippanahala, Yelburga Taluk, Koppal to 33 kV Unit Substation of WTG situated near Thippanahala, Thalakeri, Chadapura, Marakata & Vanajabhavi, Gule of Yelburga Taluk, Koppal. (Length: 3.652 kms D/C + 19.185 kms S/C)

1. BSNL Telecom Details:

DET (PTCC), SZ, BSNL vide letter SR-PTCC/SKT6583/7 dated 05.02.2025, given their NOC.

2. Railway Telecom Details:

CCE, South Western Railway vide letter SG/SWR/PTCC/KNK1141/2835 dated 20.11.2024 has issued their NOC.

3. Defense Telecom Details:

ADG (Telecom) vide letter B/46937/Sigs-7(b)/4648 dated 26.06.2025 has issued their NOC.

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

Name of the proposed Substation	Half diagonal distance , D/2 (mts)	Fault Current I (KA)	Resistance of Earth Mat, R (ohms)	d (mts) at 430 V	d (mts) at 650 V	d (mts) at 7kV	d (mts) at 10kV
220/33 kV 300 MW Wind Energy Project PSS of M/s Serentica Renewables India 1 Private Limited at Thippanahala, Yelburga Taluk, Koppal	86.7	28	0.2	1042	660	NA	NA
33 kV Unit Substation of WTG	7.84	21.63	0.353	131	84	1	NA

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.