



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-1194

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 line on RSJ Poles from proposed 27.5 MW Solar Power Project comprising 3 nos 0.8/33 kV IDTs near Hurlihalu village to the tapping point at existing Feeder -20 of 18.4 MW Solar PV Plant near Harakabhavi village to 33/220 kV PSS of M/s Zenataris Renewable Energy Private Limited at Harakabhavi village, Ballari District (Length: 13.25 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. | M/s Zenataris Renewable Energy Private Limited | Plot No. N46, House No. 4-9-10, HMT Nagar, Hyderabad-500076, Telangana |
|----|--|---|

Annexure I

1

- | | | |
|-----|---|---|
| (a) | Name of the Power Supply authority seeking approval | M/s Zenataris Renewable Energy Private Limited. |
| (b) | Reference number & date: | (i) ZREPL/BALLARI/CEA/PTCC/Solar/Fdr20Ext dated 26.07.2025 (ii) e-mail dated 29.10.2025 |
| (c) | Name of the Power line | 33 kV S/C line on RSJ Poles from proposed 27.5 MW Solar Power Project comprising 3 nos 0.8/33 kV IDTs near Hurlihalu village to the tapping point at existing Feeder -20 of 18.4 MW Solar PV Plant near Harakabhavi village to 33/220 kV PSS of M/s Zenataris Renewable Energy Private Limited at Harakabhavi village, Ballari District |
| (d) | Length of Power line: | 13.25 km |
| (e) | Operating Voltage | 33 kV |
| (f) | Number of circuits | 1 |

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: 25,000 ohm-cm

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 line on RSJ Poles from proposed 27.5 MW Solar Power Project comprising 3 nos 0.8/33 kV IDTs near Hurlihalu village to the tapping point at existing Feeder -20 of 18.4 MW Solar PV Plant near Harakabhavi village to 33/220 kV PSS of M/s Zenataris Renewable Energy Private Limited at Harakabhavi village, Ballari District. (Length: 13.25 km)

BSNL Telecom Details:

DET (PTCC), SZ, BSNL vide letter: SR-PTCC/KNK-1194/5 dated 31.10.2025 has given their NOC.

1. Railway Telecom Details:

Deputy CSTE/ Signal South Western Railway vide letter SG/SWR/PTCC/Corres/E: 2-12 dated 16.09.2025 has issued their NOC.

2. Defense Telecom Details:

ADG (Telecom) vide letter B/46937/Sigs-7(b)/4989 dated 14.10.2025 has issued their NOC.

3. 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 |
|--|------------------------------------|----------------------|-----------------------------------|------------------|------------------|----------------|-----------------|
| 0.8/33 kV 27.5MW Solar Power Project | 10.6 | 25 | 0.814 | 491 | 321 | 20 | 11 |

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.

4. 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.