



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

Subject: Certificate of Approval for the Route of Power Line of M/s Serentica Renewable India 5 Private Limited.

Route Approval Certificate for the following listed lines of M/s Serentica Renewable India 5 Private Limited is annexed to this letter:

S.No.	Name
1	33 kV feeder of M/s. Serentica Renewables India 5 Private Limited for 3Cx300 SQMM 33 KV Al Cable laid Underground from Block No 30 to 33 KV feeder no 345 at 220 /33 KV PSS of Serentica Renewables India 5 Private Limited at Village Jaymalsar, District- Bikaner, Rajasthan (Length: 0.837 kms)
2	33 kV feeder of M/s. Serentica Renewables India 5 Private Limited for 3Cx300 SQMM 33 KV Al Cable laid Underground from Block No 37 to 33 KV feeder no 345 at 220 /33 KV PSS of Serentica Renewables India 5 Private Limited at Village Jaymalsar, District- Bikaner, Rajasthan (Length: 3.14 kms)
3	33KV Feeders of M/s. Serentica Renewables India 5 Private Limited for 3CX300 SQMM 33 KV Al Cable laid Underground from Block No. 31 to 33 KV feeder no. 346 at 220/33 KV PSS of Serentica Renewables India 5 Private Limited at Village Jaymalsar, District- Bikaner, Rajasthan. (Length: 1.167 kms).
4	33KV Feeders of M/s. Serentica Renewables India 5 Private Limited for 3CX300 SQMM 33 KV Al Cable laid Underground from Block No. 32 to 33 KV feeder no. 347 at 220/33 KV PSS of Serentica Renewables India 5 Private Limited at Village Jaymalsar, District- Bikaner, Rajasthan. (Length: 1.576 kms).
5	33KV Feeders of M/s. Serentica Renewables India 5 Private Limited for 3CX300 SQMM 33 KV Al Cable laid Underground from Block No. 33 to 33 KV feeder no. 348 at 220/33 KV PSS of Serentica Renewables India 5 Private Limited at Village Jaymalsar, District- Bikaner, Rajasthan. (Length: 1.907 kms).

सेवा भवन, रामाकृष्ण पुरम, सेक्टर -1, नई दिल्ली -110 066 टेलीफोन:011-26736706 ईमेल: cepcd.cea@gov.in वेबसाइट: www.cea.nic.in

Sewa Bhawan, R.K.Puram, Sector-1, New Delhi-110 066 Telephone: 011-26736706 Email: cepcd.cea@gov.in Website: www.cea.nic.in

6	33KV Feeders of M/s. Serentica Renewables India 5 Private Limited for 3CX300 SQMM 33 KV Al Cable laid Underground from Block No. 34 to 33 KV feeder no. 349 at 220/33 KV PSS of Serentica Renewables India 5 Private Limited at Village Jaymalsar, District- Bikaner, Rajasthan. (Length: 1.750 kms).
7	33KV Feeders of M/s. Serentica Renewables India 5 Private Limited for 3CX300 SQMM 33 KV Al Cable laid Underground from Block No. 35 to 33 KV feeder no. 350 at 220/33 KV PSS of Serentica Renewables India 5 Private Limited at Village Jaymalsar, District- Bikaner, Rajasthan. (Length: 2.48 kms).
8	33KV Feeders of M/s. Serentica Renewables India 5 Private Limited for 3CX300 SQMM 33 KV Al Cable laid Underground from Block No. 36 to 33 KV feeder no. 350 at 220/33 KV PSS of Serentica Renewables India 5 Private Limited at Village Jaymalsar, District- Bikaner, Rajasthan. (Length: 1.964 kms).

Chief Engineer

1.	M/s Serentica Renewable India 5 Private Limited	5th Floor, RMZ Infinity, Plot No 15, Phase IV, Sector 18, Gurugram, Shahpur, Haryana 122015.
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CEA Case No.: RAJ-903 - F345-30

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 for **33 kV feeder of M/s. Serentica Renewables India 5 Private Limited for 3Cx300 SQMM 33 KV Al Cable laid Underground from Block No 30 to 33 KV feeder no 345 at 220 /33 KV PSS of Serentica Renewables India 5 Private Limited at Village Jaymalsar, District-Bikaner, Rajasthan (Length: 0.837 kms)** 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.

Annexure I

1

- (a) Name of the Power Supply authority seeking approval M/s Serentica Renewable India 5 Private Limited
- (b) Reference number & date: SRI5PL/PTCC/33kV-UG/25-26/09/05 dated 05.09.2025|
E-mail dated 13.09.2025
E-mail dated 05.02.2026
- (c) Name of the Power line 33 kV feeder of M/s. Serentica Renewables India 5 Private Limited for 3Cx300 SQMM 33 KV Al Cable laid Underground from Block No 30 to 33 KV feeder no 345 at 220 /33 KV PSS of Serentica Renewables India 5 Private Limited at Village Jaymalsar, District- Bikaner, Rajasthan (Length: 0.837 kms)
- (d) Length of Power line: 0.837 kms
- (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: 5000 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 feeder of M/s. Serentica Renewables India 5 Private Limited for 3Cx300 SQMM 33 KV Al Cable laid Underground from Block No 30 to 33 KV feeder no 345 at 220 /33 KV PSS of Serentica Renewables India 5 Private Limited at Village Jaymalsar, District-Bikaner, Rajasthan (Length: 0.837 kms)

1. BSNL Telecom Details:

AGM (Planning), BSNL, Bikaner vide letter M-3/PTCC Meeting/Bikaner/2025 dated 24.09.2025 has stated non-existence of any BSNL UG or O/H Copper cable, armoured OFC and Exchange within the periphery of 05 kms of the route. Thus, BSNL letter is taken as deemed NOC.

2. Railway Telecom Details:

Deputy CSTE, Tele., North Western Railway vide reference SG/158/NWR/PTCC/1215 dated 06.10.2025 has given their NOC for charging of the line.

3. Defense Telecom Details:

ADG (Telecommunication), MoD, vide letter B/46937/Sigs-7(b)/5052 dated 24.11.2025 has given their NOC for charging of the line.

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
33 kV Solar Block	17.06	25	0.93	905	593	40	23

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.

CEA Case No.: RAJ-903 - F345-37**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 for **33 kV feeder of M/s. Serentica Renewables India 5 Private Limited for 3Cx300 SQMM 33 KV AI Cable laid Underground from Block No 37 to 33 KV feeder no 345 at 220 /33 KV PSS of Serentica Renewables India 5 Private Limited at Village Jaymalsar, District-Bikaner, Rajasthan (Length: 3.14 kms)** particulars of which are given in Annexure III.

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 IV.

Annexure III

1

- (a) Name of the Power Supply authority seeking approval M/s Serentica Renewable India 5 Private Limited
- (b) Reference number & date: SRI5PL/PTCC/33kV-UG/25-26/09/05 dated 05.09.2025|
E-mail dated 13.09.2025
E-mail dated 05.02.2026
- (c) Name of the Power line 33 kV feeder of M/s. Serentica Renewables India 5 Private Limited for 3Cx300 SQMM 33 KV Al Cable laid Underground from Block No 37 to 33 KV feeder no 345 at 220 /33 KV PSS of Serentica Renewables India 5 Private Limited at Village Jaymalsar, District- Bikaner, Rajasthan (Length: 3.14 kms)
- (d) Length of Power line: 3.14 kms
- (e) Operating Voltage 33 kV
- (f) Number of circuits 1

2

- (a) Names of parallel telecom lines: As per Annexure-IV
- (b) Length of parallelism: As per Annexure-IV
- 3 Average value of earth resistivity in the region: 5000 ohm-cms
- 4 Whether LF test necessary: No
- 5 Special conditions subject to which this certificate will be effective As per Annexure-IV

Annexure IV

Name of the Power Line: 33 kV feeder of M/s. Serentica Renewables India 5 Private Limited for 3Cx300 SQMM 33 KV Al Cable laid Underground from Block No 37 to 33 KV feeder no 345 at 220 /33 KV PSS of Serentica Renewables India 5 Private Limited at Village Jaymalsar, District-Bikaner, Rajasthan (Length: 3.14 kms)

1. BSNL Telecom Details:

AGM (Planning), BSNL, Bikaner vide letter M-3/PTCC Meeting/Bikaner/2025 dated 24.09.2025 has stated non-existence of any BSNL UG or O/H Copper cable, armoured OFC and Exchange within the periphery of 05 kms of the route. Thus, BSNL letter is taken as deemed NOC.

2. Railway Telecom Details:

Deputy CSTE, Tele., North Western Railway vide reference SG/158/NWR/PTCC/1215 dated 06.10.2025 has given their NOC for charging of the line.

3. Defense Telecom Details:

ADG (Telecommunication), MoD, vide letter B/46937/Sigs-7(b)/5052 dated 24.11.2025 has given their NOC for charging of the line.

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
33 kV Solar Block	17.06	25	0.93	905	593	40	23

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.

CEA Case No.: RAJ-903 - F346-31**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 for **33KV Feeders of M/s. Serentica Renewables India 5 Private Limited for 3CX300 SQMM 33 KV Al Cable laid Underground from Block No. 31 to 33 KV feeder no. 346 at 220/33 KV PSS of Serentica Renewables India 5 Private Limited at Village Jaymalsar, District- Bikaner, Rajasthan. (Length: 1.167 kms)**, particulars of which are given in Annexure V.

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 VI.

Annexure V

1

- (a) Name of the Power Supply authority seeking approval M/s Serentica Renewable India 5 Private Limited
- (b) Reference number & date: SRI5PL/PTCC/33kV-UG/25-26/09/05 dated 05.09.2025|
E-mail dated 13.09.2025
E-mail dated 05.02.2026
- (c) Name of the Power line 33KV Feeders of M/s. Serentica Renewables India 5 Private Limited for 3CX300 SQMM 33 KV Al Cable laid Underground from Block No. 31 to 33 KV feeder no. 346 at 220/33 KV PSS of Serentica Renewables India 5 Private Limited at Village Jaymalsar, District- Bikaner, Rajasthan. (Length: 1.167 kms).
- (d) Length of Power line: 1.167 kms
- (e) Operating Voltage 33 kV
- (f) Number of circuits 1

2

- (a) Names of parallel telecom lines: As per Annexure-VI
- (b) Length of parallelism: As per Annexure-VI
- 3 Average value of earth resistivity in the region: 5000 ohm-cms
- 4 Whether LF test necessary: No
- 5 Special conditions subject to which this certificate will be effective As per Annexure-VI

Annexure VI

Name of the Power Line: 33KV Feeders of M/s. Serentica Renewables India 5 Private Limited for 3CX300 SQMM 33 KV Al Cable laid Underground from Block No. 31 to 33 KV feeder no. 346 at 220/33 KV PSS of Serentica Renewables India 5 Private Limited at Village Jaymalsar, District-Bikaner, Rajasthan. (Length: 1.167 kms).

1. BSNL Telecom Details:

AGM (Planning), BSNL, Bikaner vide letter M-3/PTCC Meeting/Bikaner/2025 dated 24.09.2025 has stated non-existence of any BSNL UG or O/H Copper cable, armoured OFC and Exchange within the periphery of 05 kms of the route. Thus, BSNL letter is taken as deemed NOC.

2. Railway Telecom Details:

Deputy CSTE, Tele., North Western Railway vide reference SG/158/NWR/PTCC/1215 dated 06.10.2025 has given their NOC for charging of the line.

3. Defense Telecom Details:

ADG (Telecommunication), MoD, vide letter B/46937/Sigs-7(b)/5052 dated 24.11.2025 has given their NOC for charging of the line.

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
33 kV Solar Block	17.06	25	0.93	905	593	40	23

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.

CEA Case No.: RAJ-903 - F347-32**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 for **33KV Feeders of M/s. Serentica Renewables India 5 Private Limited for 3CX300 SQMM 33 KV Al Cable laid Underground from Block No. 32 to 33 KV feeder no. 347 at 220/33 KV PSS of Serentica Renewables India 5 Private Limited at Village Jaymalsar, District- Bikaner, Rajasthan. (Length: 1.576 kms)**, particulars of which are given in Annexure VII.

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 VIII.

Annexure VII

1

- (a) Name of the Power Supply authority seeking approval M/s Serentica Renewable India 5 Private Limited
- (b) Reference number & date: SRI5PL/PTCC/33kV-UG/25-26/09/05 dated 05.09.2025|
E-mail dated 13.09.2025
E-mail dated 05.02.2026
- (c) Name of the Power line 33KV Feeders of M/s. Serentica Renewables India 5 Private Limited for 3CX300 SQMM 33 KV Al Cable laid Underground from Block No. 32 to 33 KV feeder no. 347 at 220/33 KV PSS of Serentica Renewables India 5 Private Limited at Village Jaymalsar, District- Bikaner, Rajasthan. (Length: 1.576 kms).
- (d) Length of Power line: 1.576 kms
- (e) Operating Voltage 33 kV
- (f) Number of circuits 1

2

- (a) Names of parallel telecom lines: As per Annexure-VIII
- (b) Length of parallelism: As per Annexure-VIII
- 3 Average value of earth resistivity in the region: 5000 ohm-cms
- 4 Whether LF test necessary: No
- 5 Special conditions subject to which this certificate will be effective As per Annexure-VIII

Annexure VIII

Name of the Power Line: 33KV Feeders of M/s. Serentica Renewables India 5 Private Limited for 3CX300 SQMM 33 KV Al Cable laid Underground from Block No. 32 to 33 KV feeder no. 347 at 220/33 KV PSS of Serentica Renewables India 5 Private Limited at Village Jaymalsar, District-Bikaner, Rajasthan. (Length: 1.576 kms).

1. BSNL Telecom Details:

AGM (Planning), BSNL, Bikaner vide letter M-3/PTCC Meeting/Bikaner/2025 dated 24.09.2025 has stated non-existence of any BSNL UG or O/H Copper cable, armoured OFC and Exchange within the periphery of 05 kms of the route. Thus, BSNL letter is taken as deemed NOC.

2. Railway Telecom Details:

Deputy CSTE, Tele., North Western Railway vide reference SG/158/NWR/PTCC/1215 dated 06.10.2025 has given their NOC for charging of the line.

3. Defense Telecom Details:

ADG (Telecommunication), MoD, vide letter B/46937/Sigs-7(b)/5052 dated 24.11.2025 has given their NOC for charging of the line.

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
33 kV Solar Block	17.06	25	0.93	905	593	40	23

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.

CEA Case No.: RAJ-903 - F348-33**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 for **33KV Feeders of M/s. Serentica Renewables India 5 Private Limited for 3CX300 SQMM 33 KV Al Cable laid Underground from Block No. 33 to 33 KV feeder no. 348 at 220/33 KV PSS of Serentica Renewables India 5 Private Limited at Village Jaymalsar, District- Bikaner, Rajasthan. (Length: 1.907 kms)**, particulars of which are given in Annexure IX.

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 X.

Annexure IX

1

- (a) Name of the Power Supply authority seeking approval M/s Serentica Renewable India 5 Private Limited
- (b) Reference number & date: SRI5PL/PTCC/33kV-UG/25-26/09/05 dated 05.09.2025|
E-mail dated 13.09.2025
E-mail dated 05.02.2026
- (c) Name of the Power line 33KV Feeders of M/s. Serentica Renewables India 5 Private Limited for 3CX300 SQMM 33 KV Al Cable laid Underground from Block No. 33 to 33 KV feeder no. 348 at 220/33 KV PSS of Serentica Renewables India 5 Private Limited at Village Jaymalsar, District- Bikaner, Rajasthan. (Length: 1.907 kms).
- (d) Length of Power line: 1.907 kms
- (e) Operating Voltage 33 kV
- (f) Number of circuits 1

2

- (a) Names of parallel telecom lines: As per Annexure-X
- (b) Length of parallelism: As per Annexure-X
- 3 Average value of earth resistivity in the region: 5000 ohm-cms
- 4 Whether LF test necessary: No
- 5 Special conditions subject to which this certificate will be effective As per Annexure-X

Annexure X

Name of the Power Line: 33KV Feeders of M/s. Serentica Renewables India 5 Private Limited for 3CX300 SQMM 33 KV Al Cable laid Underground from Block No. 33 to 33 KV feeder no. 348 at 220/33 KV PSS of Serentica Renewables India 5 Private Limited at Village Jaymalsar, District-Bikaner, Rajasthan. (Length: 1.907 kms).

1. BSNL Telecom Details:

AGM (Planning), BSNL, Bikaner vide letter M-3/PTCC Meeting/Bikaner/2025 dated 24.09.2025 has stated non-existence of any BSNL UG or O/H Copper cable, armoured OFC and Exchange within the periphery of 05 kms of the route. Thus, BSNL letter is taken as deemed NOC.

2. Railway Telecom Details:

Deputy CSTE, Tele., North Western Railway vide reference SG/158/NWR/PTCC/1215 dated 06.10.2025 has given their NOC for charging of the line.

3. Defense Telecom Details:

ADG (Telecommunication), MoD, vide letter B/46937/Sigs-7(b)/5052 dated 24.11.2025 has given their NOC for charging of the line.

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
33 kV Solar Block	17.06	25	0.93	905	593	40	23

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.

CEA Case No.: RAJ-903 - F349-34**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 for **33KV Feeders of M/s. Serentica Renewables India 5 Private Limited for 3CX300 SQMM 33 KV Al Cable laid Underground from Block No. 34 to 33 KV feeder no. 349 at 220/33 KV PSS of Serentica Renewables India 5 Private Limited at Village Jaymalsar, District- Bikaner, Rajasthan. (Length: 1.750 kms)**, particulars of which are given in Annexure XI.

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 XII.

Annexure XI

1

- (a) Name of the Power Supply authority seeking approval M/s Serentica Renewable India 5 Private Limited
- (b) Reference number & date: SRI5PL/PTCC/33kV-UG/25-26/09/05 dated 05.09.2025|
E-mail dated 13.09.2025
E-mail dated 05.02.2026
- (c) Name of the Power line 33KV Feeders of M/s. Serentica Renewables India 5 Private Limited for 3CX300 SQMM 33 KV Al Cable laid Underground from Block No. 34 to 33 KV feeder no. 349 at 220/33 KV PSS of Serentica Renewables India 5 Private Limited at Village Jaymalsar, District- Bikaner, Rajasthan. (Length: 1.750 kms).
- (d) Length of Power line: 1.750 kms
- (e) Operating Voltage 33 kV
- (f) Number of circuits 1

2

- (a) Names of parallel telecom lines: As per Annexure-XII
- (b) Length of parallelism: As per Annexure-XII
- 3 Average value of earth resistivity in the region: 5000 ohm-cms
- 4 Whether LF test necessary: No
- 5 Special conditions subject to which this certificate will be effective As per Annexure-XII

Annexure XII

Name of the Power Line: 33KV Feeders of M/s. Serentica Renewables India 5 Private Limited for 3CX300 SQMM 33 KV Al Cable laid Underground from Block No. 34 to 33 KV feeder no. 349 at 220/33 KV PSS of Serentica Renewables India 5 Private Limited at Village Jaymalsar, District-Bikaner, Rajasthan. (Length: 1.750 kms).

1. BSNL Telecom Details:

AGM (Planning), BSNL, Bikaner vide letter M-3/PTCC Meeting/Bikaner/2025 dated 24.09.2025 has stated non-existence of any BSNL UG or O/H Copper cable, armoured OFC and Exchange within the periphery of 05 kms of the route. Thus, BSNL letter is taken as deemed NOC.

2. Railway Telecom Details:

Deputy CSTE, Tele., North Western Railway vide reference SG/158/NWR/PTCC/1215 dated 06.10.2025 has given their NOC for charging of the line.

3. Defense Telecom Details:

ADG (Telecommunication), MoD, vide letter B/46937/Sigs-7(b)/5052 dated 24.11.2025 has given their NOC for charging of the line.

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
33 kV Solar Block	17.06	25	0.93	905	593	40	23

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.

CEA Case No.: RAJ-903 - F350-35**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 for **33KV Feeders of M/s. Serentica Renewables India 5 Private Limited for 3CX300 SQMM 33 KV Al Cable laid Underground from Block No. 35 to 33 KV feeder no. 350 at 220/33 KV PSS of Serentica Renewables India 5 Private Limited at Village Jaymalsar, District- Bikaner, Rajasthan. (Length: 2.48 kms).** particulars of which are given in Annexure XIII.

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 XIV.

Annexure XIII

1

- (a) Name of the Power Supply authority seeking approval M/s Serentica Renewable India 5 Private Limited
- (b) Reference number & date: SRI5PL/PTCC/33kV-UG/25-26/09/05 dated 05.09.2025|
E-mail dated 13.09.2025
E-mail dated 05.02.2026
- (c) Name of the Power line 33KV Feeders of M/s. Serentica Renewables India 5 Private Limited for 3CX300 SQMM 33 KV Al Cable laid Underground from Block No. 35 to 33 KV feeder no. 350 at 220/33 KV PSS of Serentica Renewables India 5 Private Limited at Village Jaymalsar, District- Bikaner, Rajasthan. (Length: 2.48 kms).
- (d) Length of Power line: 2.48 kms
- (e) Operating Voltage 33 kV
- (f) Number of circuits 1

2

- (a) Names of parallel telecom lines: As per Annexure-XIV
- (b) Length of parallelism: As per Annexure-XIV
- 3 Average value of earth resistivity in the region: 5000 ohm-cms
- 4 Whether LF test necessary: No
- 5 Special conditions subject to which this certificate will be effective As per Annexure-XIV

Annexure XIV

Name of the Power Line: 33KV Feeders of M/s. Serentica Renewables India 5 Private Limited for 3CX300 SQMM 33 KV Al Cable laid Underground from Block No. 35 to 33 KV feeder no. 350 at 220/33 KV PSS of Serentica Renewables India 5 Private Limited at Village Jaymalsar, District-Bikaner, Rajasthan. (Length: 2.48 kms).

1. BSNL Telecom Details:

AGM (Planning), BSNL, Bikaner vide letter M-3/PTCC Meeting/Bikaner/2025 dated 24.09.2025 has stated non-existence of any BSNL UG or O/H Copper cable, armoured OFC and Exchange within the periphery of 05 kms of the route. Thus, BSNL letter is taken as deemed NOC.

2. Railway Telecom Details:

Deputy CSTE, Tele., North Western Railway vide reference SG/158/NWR/PTCC/1215 dated 06.10.2025 has given their NOC for charging of the line.

3. Defense Telecom Details:

ADG (Telecommunication), MoD, vide letter B/46937/Sigs-7(b)/5052 dated 24.11.2025 has given their NOC for charging of the line.

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
33 kV Solar Block	17.06	25	0.93	905	593	40	23

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.

CEA Case No.: RAJ-903 - F350-36**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 for **33KV Feeders of M/s. Serentica Renewables India 5 Private Limited for 3CX300 SQMM 33 KV Al Cable laid Underground from Block No. 36 to 33 KV feeder no. 350 at 220/33 KV PSS of Serentica Renewables India 5 Private Limited at Village Jaymalsar, District- Bikaner, Rajasthan. (Length: 1.964 kms)**, particulars of which are given in Annexure XV.

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 XVI.

Annexure XV

1

- (a) Name of the Power Supply authority seeking approval M/s Serentica Renewable India 5 Private Limited
- (b) Reference number & date: SRI5PL/PTCC/33kV-UG/25-26/09/05 dated 05.09.2025|
E-mail dated 13.09.2025
E-mail dated 05.02.2026
- (c) Name of the Power line 33KV Feeders of M/s. Serentica Renewables India 5 Private Limited for 3CX300 SQMM 33 KV Al Cable laid Underground from Block No. 36 to 33 KV feeder no. 350 at 220/33 KV PSS of Serentica Renewables India 5 Private Limited at Village Jaymalsar, District- Bikaner, Rajasthan. (Length: 1.964 kms).
- (d) Length of Power line: 1.964 kms
- (e) Operating Voltage 33 kV
- (f) Number of circuits 1

2

- (a) Names of parallel telecom lines: As per Annexure-XVI
- (b) Length of parallelism: As per Annexure-XVI
- 3 Average value of earth resistivity in the region: 5000 ohm-cms
- 4 Whether LF test necessary: No
- 5 Special conditions subject to which this certificate will be effective As per Annexure-XVI

Annexure XVI

Name of the Power Line: 33KV Feeders of M/s. Serentica Renewables India 5 Private Limited for 3CX300 SQMM 33 KV Al Cable laid Underground from Block No. 36 to 33 KV feeder no. 350 at 220/33 KV PSS of Serentica Renewables India 5 Private Limited at Village Jaymalsar, District-Bikaner, Rajasthan. (Length: 1.964 kms).

1. BSNL Telecom Details:

AGM (Planning), BSNL, Bikaner vide letter M-3/PTCC Meeting/Bikaner/2025 dated 24.09.2025 has stated non-existence of any BSNL UG or O/H Copper cable, armoured OFC and Exchange within the periphery of 05 kms of the route. Thus, BSNL letter is taken as deemed NOC.

2. Railway Telecom Details:

Deputy CSTE, Tele., North Western Railway vide reference SG/158/NWR/PTCC/1215 dated 06.10.2025 has given their NOC for charging of the line.

3. Defense Telecom Details:

ADG (Telecommunication), MoD, vide letter B/46937/Sigs-7(b)/5052 dated 24.11.2025 has given their NOC for charging of the line.

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
33 kV Solar Block	17.06	25	0.93	905	593	40	23

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.