



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 Renewables India 4 Private Limited.

Route Approval Certificate for the following listed lines of M/s Serentica Renewables India 4 Private Limited is annexed to this letter:

S. No	Name
1.	33KV Feeders of M/s. Serentica Renewables India 4 Private Limited for 3CX300 SQMM 33 KV AI Cable laid Underground and above ground from Block No. 1 of 33 KV feeder no. 301 at 220 /33 KV PSS of Serentica Renewables India 4 Private Limited at Village Jaymalsar, District- Bikaner, Rajasthan. (Length: 2.631 kms).
2.	33KV Feeders of M/s. Serentica Renewables India 4 Private Limited for 3CX300 SQMM 33 KV AI Cable laid Underground and above ground from Block No. 2 of 33 KV feeder no. 302 at 220 /33 KV PSS of Serentica Renewables India 4 Private Limited at Village Jaymalsar, District- Bikaner, Rajasthan. (Length: 2.199 kms).
3.	33KV Feeders of M/s. Serentica Renewables India 4 Private Limited for 3CX300 SQMM 33 KV AI Cable laid Underground and above ground from Block No. 3 of 33 KV feeder no. 303 at 220 /33 KV PSS of Serentica Renewables India 4 Private Limited at Village Jaymalsar, District- Bikaner, Rajasthan. (Length: 1.699 kms).
4.	33KV Feeders of M/s. Serentica Renewables India 4 Private Limited for 3CX300 SQMM 33 KV AI Cable laid Underground and above ground from Block No. 5 of 33 KV feeder no. 305 at 220 /33 KV PSS of Serentica Renewables India 4 Private Limited at Village Jaymalsar, District- Bikaner, Rajasthan. (Length: 1.273 kms).
5.	33KV Feeders of M/s. Serentica Renewables India 4 Private Limited for 3CX300 SQMM 33 KV AI Cable laid Underground and above ground from Block No. 6 of 33 KV feeder no. 306 at 220 /33 KV PSS of Serentica Renewables India 4 Private Limited at Village Jaymalsar, District- Bikaner, Rajasthan. (Length: 1.738 kms).
6.	33KV Feeders of M/s. Serentica Renewables India 4 Private Limited for 3CX300 SQMM 33 KV AI Cable laid Underground and above ground from Block No. 7 of 33 KV feeder no. 307 at 220 /33 KV PSS of Serentica Renewables India 4 Private Limited at Village Jaymalsar, District- Bikaner, Rajasthan. (Length: 0.809 kms).
7.	33KV Feeders of M/s. Serentica Renewables India 4 Private Limited for 3CX300 SQMM 33 KV AI Cable laid Underground and above ground from Block No. 8 of

	33 KV feeder no. 308 at 220 /33 KV PSS of Serentica Renewables India 4 Private Limited at Village Jaymalsar, District- Bikaner, Rajasthan. (Length: 1.44 kms).
8.	33KV Feeders of M/s. Serentica Renewables India 4 Private Limited for 3CX300 SQMM 33 KV Al Cable laid Underground and above ground from Block No. 9 of 33 KV feeder no. 319 at 220 /33 KV PSS of Serentica Renewables India 4 Private Limited at Village Jaymalsar, District- Bikaner, Rajasthan. (Length: 0.444 kms).
9.	33KV Feeders of M/s. Serentica Renewables India 4 Private Limited for 3CX300 SQMM 33 KV Al Cable laid Underground and above ground from Block No. 10 of 33 KV feeder no. 320 at 220 /33 KV PSS of Serentica Renewables India 4 Private Limited at Village Jaymalsar, District- Bikaner, Rajasthan. (Length: 0.95 kms).
10.	33KV Feeders of M/s. Serentica Renewables India 4 Private Limited for 3CX300 SQMM 33 KV Al Cable laid Underground and above ground from Block No. 11 of 33 KV feeder no. 321 at 220 /33 KV PSS of Serentica Renewables India 4 Private Limited at Village Jaymalsar, District- Bikaner, Rajasthan. (Length: 0.75 kms).
11.	33KV Feeders of M/s. Serentica Renewables India 4 Private Limited for 3CX300 SQMM 33 KV Al Cable laid Underground and above ground from Block No. 12 of 33 KV feeder no. 322 at 220 /33 KV PSS of Serentica Renewables India 4 Private Limited at Village Jaymalsar, District- Bikaner, Rajasthan. (Length: 1.1 kms).
12.	33KV Feeders of M/s. Serentica Renewables India 4 Private Limited for 3CX300 SQMM 33 KV Al Cable laid Underground and above ground from Block No. 13 of 33 KV feeder no. 323 at 220 /33 KV PSS of Serentica Renewables India 4 Private Limited at Village Jaymalsar, District- Bikaner, Rajasthan. (Length: 1.373 kms).
13.	33KV Feeders of M/s. Serentica Renewables India 4 Private Limited for 3CX300 SQMM 33 KV Al Cable laid Underground and above ground from Block No. 14 of 33 KV feeder no. 324 at 220 /33 KV PSS of Serentica Renewables India 4 Private Limited at Village Jaymalsar, District- Bikaner, Rajasthan. (Length: 1.065 kms).
14.	33KV Feeders of M/s. Serentica Renewables India 4 Private Limited for 3CX300 SQMM 33 KV Al Cable laid Underground and above ground from Block No. 15 of 33 KV feeder no. 325 at 220 /33 KV PSS of Serentica Renewables India 4 Private Limited at Village Jaymalsar, District- Bikaner, Rajasthan. (Length: 2.04 kms).
15.	33KV Feeders of M/s. Serentica Renewables India 4 Private Limited for 3CX300 SQMM 33 KV Al Cable laid Underground and above ground from Block No. 16 of 33 KV feeder no. 326 at 220 /33 KV PSS of Serentica Renewables India 4 Private Limited at Village Jaymalsar, District- Bikaner, Rajasthan. (Length: 2.324 kms).

Chief Engineer

1.	M/s Serentica Renewables India 4 Private Limited	RMZ Infinity, 5 th Floor, Plot No. 15, Udyog Vihar, Phase-IV, Gurugram – 122 015.
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CEA Case No.: RAJ-910-301-1

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 4 Private Limited for 3CX300 SQMM 33 KV Al Cable laid Underground and above ground from Block No. 1 of 33 KV feeder no. 301 at 220 /33 KV PSS of Serentica Renewables India 4 Private Limited at Village Jaymalsar, District- Bikaner, Rajasthan. (Length: 2.631 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]

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|-----|---|---|
| (a) | Name of the Power Supply authority seeking approval | M/s Serentica Renewables India 4 Private Limited |
| (b) | Reference number & date: | SRI4PL/PTCC/33KV-UG/25-6/03 dated 20.09.2025
E-mail dated 12.12.2025
E-mail dated 24.12.2025 |
| (c) | Name of the Power line | 33KV Feeders of M/s. Serentica Renewables India 4 Private Limited for 3CX300 SQMM 33 KV Al Cable laid Underground and above ground from Block No. 1 of 33 KV feeder no. 301 at 220 /33 KV PSS of Serentica Renewables India 4 Private Limited at Village Jaymalsar, District- Bikaner, Rajasthan. (Length: 2.631 kms). |
| (d) | Length of Power line: | 2.631 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: 12512 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: 33KV Feeders of M/s. Serentica Renewables India 4 Private Limited for 3CX300 SQMM 33 KV Al Cable laid Underground and above ground from **Block No. 1** of 33 KV feeder no. **301** at 220 /33 KV PSS of Serentica Renewables India 4 Private Limited at Village Jaymalsar, District- Bikaner, Rajasthan. **(Length: 2.631 kms).**

- **BSNL Telecom Details:**

AGM Planning O/o GM Bikaner BA, NZ Zone vide letter M-3/ PTCC Meeting/ Bikaner/ 2025 dated 24.09.2025 has stated Non-existence of BSNL U/G and O/H copper cable, armoured OFC and Exchange within the periphery of 05 km. Thus BSNL letter is assumed as NOC.

- **Railway Telecom Details:**

Dy CSTE/Tele NWR/Jaipur Central Railway vide letter SG/158/NWR/PTCC/1221 dated 16.10.2025 has issued their NOC.

- **Defense Telecom Details:**

Additional DG (Telecommunication) vide letter B/46937/Sigs-7(b)/5145 dated 04.12.2025 has issued their NOC.

- 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
33KV Solar Block No. 1	17.05	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-910-302-2

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 the route of **33KV Feeders of M/s. Serentica Renewables India 4 Private Limited for 3CX300 SQMM 33 KV AI Cable laid Underground and above ground from Block No. 2 of 33 KV feeder no. 302 at 220 /33 KV PSS of Serentica Renewables India 4 Private Limited at Village Jaymalsar, District-Bikaner, Rajasthan. (Length: 2.199 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]

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|-----|---|---|
| (a) | Name of the Power Supply authority seeking approval | M/s Serentica Renewables India 4 Private Limited |
| (b) | Reference number & date: | SRI4PL/PTCC/33KV-UG/25-6/03 dated 20.09.2025
E-mail dated 12.12.2025
E-mail dated 24.12.2025 |
| (c) | Name of the Power line | 33KV Feeders of M/s. Serentica Renewables India 4 Private Limited for 3CX300 SQMM 33 KV Al Cable laid Underground and above ground from Block No. 2 of 33 KV feeder no. 302 at 220 /33 KV PSS of Serentica Renewables India 4 Private Limited at Village Jaymalsar, District- Bikaner, Rajasthan. (Length: 2.199 kms). |
| (d) | Length of Power line: | 2.199 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:	12512 ohm-cms
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[4]	Whether LF test necessary:	No
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[5]	Special conditions subject to which this certificate will be effective	As per Annexure-IV
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Annexure IV

Name of the Power Line: 33KV Feeders of M/s. Serentica Renewables India 4 Private Limited for 3CX300 SQMM 33 KV Al Cable laid Underground and above ground from **Block No. 2** of 33 KV feeder no. **302** at 220 /33 KV PSS of Serentica Renewables India 4 Private Limited at Village Jaymalsar, District- Bikaner, Rajasthan. **(Length: 2.199 kms).**

- **BSNL Telecom Details:**

AGM Planning O/o GM Bikaner BA, NZ Zone vide letter M-3/ PTCC Meeting/ Bikaner/ 2025 dated 24.09.2025 has stated Non-existence of BSNL U/G and O/H copper cable, armoured OFC and Exchange within the periphery of 05 km. Thus BSNL letter is assumed as NOC.

- **Railway Telecom Details:**

Dy CSTE/Tele NWR/Jaipur Central Railway vide letter SG/158/NWR/PTCC/1221 dated 16.10.2025 has issued their NOC.

- **Defense Telecom Details:**

Additional DG (Telecommunication) vide letter B/46937/Sigs-7(b)/5145 dated 04.12.2025 has issued their NOC.

1. 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
33KV Solar Block No. 2	17.05	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-910-303-3

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 the route of **33KV Feeders of M/s. Serentica Renewables India 4 Private Limited for 3CX300 SQMM 33 KV Al Cable laid Underground and above ground from Block No. 3 of 33 KV feeder no. 303 at 220 /33 KV PSS of Serentica Renewables India 4 Private Limited at Village Jaymalsar, District-Bikaner, Rajasthan. (Length: 1.699 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 Renewables India 4 Private Limited
- (b) Reference number & date: SRI4PL/PTCC/33KV-UG/25-6/03 dated 20.09.2025
E-mail dated 12.12.2025
E-mail dated 24.12.2025
- (c) Name of the Power line 33KV Feeders of M/s. Serentica Renewables India 4 Private Limited for 3CX300 SQMM 33 KV Al Cable laid Underground and above ground from **Block No. 3** of 33 KV **feeder no. 303** at 220 /33 KV PSS of Serentica Renewables India 4 Private Limited at Village Jaymalsar, District- Bikaner, Rajasthan. (**Length: 1.699 kms**).
- (d) Length of Power line: 1.699 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: 12512 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 4 Private Limited for 3CX300 SQMM 33 KV Al Cable laid Underground and above ground from **Block No. 3** of 33 KV feeder no. **303** at 220 /33 KV PSS of Serentica Renewables India 4 Private Limited at Village Jaymalsar, District- Bikaner, Rajasthan. **(Length: 1.699 kms).**

- **BSNL Telecom Details:**

AGM Planning O/o GM Bikaner BA, NZ Zone vide letter M-3/ PTCC Meeting/ Bikaner/ 2025 dated 24.09.2025 has stated Non-existence of BSNL U/G and O/H copper cable, armoured OFC and Exchange within the periphery of 05 km. Thus BSNL letter is assumed as NOC.

- **Railway Telecom Details:**

Dy CSTE/Tele NWR/Jaipur Central Railway vide letter SG/158/NWR/PTCC/1221 dated 16.10.2025 has issued their NOC.

- **Defense Telecom Details:**

Additional DG (Telecommunication) vide letter B/46937/Sigs-7(b)/5145 dated 04.12.2025 has issued their NOC.

1. 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
33KV Solar Block No. 3	17.05	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-910-305-5

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 the route of **33KV Feeders of M/s. Serentica Renewables India 4 Private Limited for 3CX300 SQMM 33 KV AI Cable laid Underground and above ground from Block No. 5 of 33 KV feeder no. 305 at 220 /33 KV PSS of Serentica Renewables India 4 Private Limited at Village Jaymalsar, District-Bikaner, Rajasthan. (Length: 1.273 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]

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|-----|---|---|
| (a) | Name of the Power Supply authority seeking approval | M/s Serentica Renewables India 4 Private Limited |
| (b) | Reference number & date: | SRI4PL/PTCC/33KV-UG/25-6/03 dated 20.09.2025
E-mail dated 12.12.2025
E-mail dated 24.12.2025 |
| (c) | Name of the Power line | 33KV Feeders of M/s. Serentica Renewables India 4 Private Limited for 3CX300 SQMM 33 KV Al Cable laid Underground and above ground from Block No. 5 of 33 KV feeder no. 305 at 220 /33 KV PSS of Serentica Renewables India 4 Private Limited at Village Jaymalsar, District- Bikaner, Rajasthan. (Length: 1.273 kms). |
| (d) | Length of Power line: | 1.273 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: 12512 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 4 Private Limited for 3CX300 SQMM 33 KV Al Cable laid Underground and above ground from **Block No. 5** of 33 KV feeder no. **305** at 220 /33 KV PSS of Serentica Renewables India 4 Private Limited at Village Jaymalsar, District- Bikaner, Rajasthan. **(Length: 1.273 kms).**

- **BSNL Telecom Details:**

AGM Planning O/o GM Bikaner BA, NZ Zone vide letter M-3/ PTCC Meeting/ Bikaner/ 2025 dated 24.09.2025 has stated Non-existence of BSNL U/G and O/H copper cable, armoured OFC and Exchange within the periphery of 05 km. Thus BSNL letter is assumed as NOC.

- **Railway Telecom Details:**

Dy CSTE/Tele NWR/Jaipur Central Railway vide letter SG/158/NWR/PTCC/1221 dated 16.10.2025 has issued their NOC.

- **Defense Telecom Details:**

Additional DG (Telecommunication) vide letter B/46937/Sigs-7(b)/5145 dated 04.12.2025 has issued their NOC.

1. 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
33KV Solar Block No. 5	17.05	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-910-306-6

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 the route of **33KV Feeders of M/s. Serentica Renewables India 4 Private Limited for 3CX300 SQMM 33 KV Al Cable laid Underground and above ground from Block No. 6 of 33 KV feeder no. 306 at 220 /33 KV PSS of Serentica Renewables India 4 Private Limited at Village Jaymalsar, District-Bikaner, Rajasthan. (Length: 1.738 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 Renewables India 4 Private Limited
- (b) Reference number & date: SRI4PL/PTCC/33KV-UG/25-6/03 dated 20.09.2025
E-mail dated 12.12.2025
E-mail dated 24.12.2025
- (c) Name of the Power line 33KV Feeders of M/s. Serentica Renewables India 4 Private Limited for 3CX300 SQMM 33 KV Al Cable laid Underground and above ground from **Block No. 6** of 33 KV **feeder no. 306** at 220 /33 KV PSS of Serentica Renewables India 4 Private Limited at Village Jaymalsar, District- Bikaner, Rajasthan. (**Length: 1.738 kms**).
- (d) Length of Power line: 1.738 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: 12512 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 4 Private Limited for 3CX300 SQMM 33 KV Al Cable laid Underground and above ground from **Block No. 6** of 33 KV **feeder no. 306** at 220 /33 KV PSS of Serentica Renewables India 4 Private Limited at Village Jaymalsar, District- Bikaner, Rajasthan. **(Length: 1.738 kms).**

- **BSNL Telecom Details:**

AGM Planning O/o GM Bikaner BA, NZ Zone vide letter M-3/ PTCC Meeting/ Bikaner/ 2025 dated 24.09.2025 has stated Non-existence of BSNL U/G and O/H copper cable, armoured OFC and Exchange within the periphery of 05 km. Thus BSNL letter is assumed as NOC.

- **Railway Telecom Details:**

Dy CSTE/Tele NWR/Jaipur Central Railway vide letter SG/158/NWR/PTCC/1221 dated 16.10.2025 has issued their NOC.

- **Defense Telecom Details:**

Additional DG (Telecommunication) vide letter B/46937/Sigs-7(b)/5145 dated 04.12.2025 has issued their NOC.

1. 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
33KV Solar Block No. 6	17.05	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-910-307-7

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 the route of **33KV Feeders of M/s. Serentica Renewables India 4 Private Limited for 3CX300 SQMM 33 KV AI Cable laid Underground and above ground from Block No. 7 of 33 KV feeder no. 307 at 220 /33 KV PSS of Serentica Renewables India 4 Private Limited at Village Jaymalsar, District-Bikaner, Rajasthan. (Length: 0.809 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 Renewables India 5 Private Limited
- (b) Reference number & date: SRI4PL/PTCC/33KV-UG/25-6/03 dated 20.09.2025
E-mail dated 12.12.2025
E-mail dated 24.12.2025
- (c) Name of the Power line 33KV Feeders of M/s. Serentica Renewables India 4 Private Limited for 3CX300 SQMM 33 KV Al Cable laid Underground and above ground from **Block No. 7** of 33 KV **feeder no. 307** at 220 /33 KV PSS of Serentica Renewables India 4 Private Limited at Village Jaymalsar, District- Bikaner, Rajasthan. **(Length: 0.809 kms)**.
- (d) Length of Power line: 0.809 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: 12512 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 4 Private Limited for 3CX300 SQMM 33 KV Al Cable laid Underground and above ground from **Block No. 7** of 33 KV **feeder no. 307** at 220 /33 KV PSS of Serentica Renewables India 4 Private Limited at Village Jaymalsar, District- Bikaner, Rajasthan. **(Length: 0.809 kms).**

- **BSNL Telecom Details:**

AGM Planning O/o GM Bikaner BA, NZ Zone vide letter M-3/ PTCC Meeting/ Bikaner/ 2025 dated 24.09.2025 has stated Non-existence of BSNL U/G and O/H copper cable, armoured OFC and Exchange within the periphery of 05 km. Thus BSNL letter is assumed as NOC.

- **Railway Telecom Details:**

Dy CSTE/Tele NWR/Jaipur Central Railway vide letter SG/158/NWR/PTCC/1221 dated 16.10.2025 has issued their NOC.

- **Defense Telecom Details:**

Additional DG (Telecommunication) vide letter B/46937/Sigs-7(b)/5145 dated 04.12.2025 has issued their NOC.

1. 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
33KV Solar Block No. 7	17.05	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-910-308-8

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 the route of **33KV Feeders of M/s. Serentica Renewables India 4 Private Limited for 3CX300 SQMM 33 KV Al Cable laid Underground and above ground from Block No. 8 of 33 KV feeder no. 308 at 220 /33 KV PSS of Serentica Renewables India 4 Private Limited at Village Jaymalsar, District-Bikaner, Rajasthan. (Length: 1.44 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 Renewables India 4 Private Limited |
| (b) | Reference number & date: | SRI4PL/PTCC/33KV-UG/25-6/03 dated 20.09.2025
E-mail dated 12.12.2025
E-mail dated 24.12.2025 |
| (c) | Name of the Power line | 33KV Feeders of M/s. Serentica Renewables India 4 Private Limited for 3CX300 SQMM 33 KV Al Cable laid Underground and above ground from Block No. 8 of 33 KV feeder no. 308 at 220 /33 KV PSS of Serentica Renewables India 4 Private Limited at Village Jaymalsar, District- Bikaner, Rajasthan. (Length: 1.44 kms) . |
| (d) | Length of Power line: | 1.44 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:	12512 ohm-cms
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[4]	Whether LF test necessary:	No
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[5]	Special conditions subject to which this certificate will be effective	As per Annexure-XIV
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Annexure XIV

Name of the Power Line: 33KV Feeders of M/s. Serentica Renewables India 4 Private Limited for 3CX300 SQMM 33 KV Al Cable laid Underground and above ground from **Block No. 8** of 33 KV feeder no. **308** at 220 /33 KV PSS of Serentica Renewables India 4 Private Limited at Village Jaymalsar, District- Bikaner, Rajasthan. **(Length: 1.44 kms).**

- **BSNL Telecom Details:**

AGM Planning O/o GM Bikaner BA, NZ Zone vide letter M-3/ PTCC Meeting/ Bikaner/ 2025 dated 24.09.2025 has stated Non-existence of BSNL U/G and O/H copper cable, armoured OFC and Exchange within the periphery of 05 km. Thus BSNL letter is assumed as NOC.

- **Railway Telecom Details:**

Dy CSTE/Tele NWR/Jaipur Central Railway vide letter SG/158/NWR/PTCC/1221 dated 16.10.2025 has issued their NOC.

- **Defense Telecom Details:**

Additional DG (Telecommunication) vide letter B/46937/Sigs-7(b)/5145 dated 04.12.2025 has issued their NOC.

1. 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
33KV Solar Block No. 8	17.05	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-910-319-9

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 the route of **33KV Feeders of M/s. Serentica Renewables India 4 Private Limited for 3CX300 SQMM 33 KV Al Cable laid Underground and above ground from Block No. 9 of 33 KV feeder no. 319 at 220 /33 KV PSS of Serentica Renewables India 4 Private Limited at Village Jaymalsar, District-Bikaner, Rajasthan. (Length: 0.444 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 Renewables India 4 Private Limited |
| (b) | Reference number & date: | SRI4PL/PTCC/33KV-UG/25-6/03 dated 20.09.2025
E-mail dated 12.12.2025
E-mail dated 24.12.2025 |
| (c) | Name of the Power line | 33KV Feeders of M/s. Serentica Renewables India 4 Private Limited for 3CX300 SQMM 33 KV Al Cable laid Underground and above ground from Block No. 9 of 33 KV feeder no. 319 at 220 /33 KV PSS of Serentica Renewables India 4 Private Limited at Village Jaymalsar, District- Bikaner, Rajasthan. (Length: 0.444 kms). |
| (d) | Length of Power line: | 0.444 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:	12512 ohm-cms
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[4]	Whether LF test necessary:	No
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[5]	Special conditions subject to which this certificate will be effective	As per Annexure-XVI
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Annexure XVI

Name of the Power Line: 33KV Feeders of M/s. Serentica Renewables India 4 Private Limited for 3CX300 SQMM 33 KV Al Cable laid Underground and above ground from **Block No. 9** of 33 KV feeder no. 319 at 220 /33 KV PSS of Serentica Renewables India 4 Private Limited at Village Jaymalsar, District- Bikaner, Rajasthan. **(Length: 0.444 kms).**

- **BSNL Telecom Details:**

AGM Planning O/o GM Bikaner BA, NZ Zone vide letter M-3/ PTCC Meeting/ Bikaner/ 2025 dated 24.09.2025 has stated Non-existence of BSNL U/G and O/H copper cable, armoured OFC and Exchange within the periphery of 05 km. Thus BSNL letter is assumed as NOC.

- **Railway Telecom Details:**

Dy CSTE/Tele NWR/Jaipur Central Railway vide letter SG/158/NWR/PTCC/1221 dated 16.10.2025 has issued their NOC.

- **Defense Telecom Details:**

Additional DG (Telecommunication) vide letter B/46937/Sigs-7(b)/5145 dated 04.12.2025 has issued their NOC.

1. 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
33KV Solar Block No. 9	17.05	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-910-320-10

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 the route of **33KV Feeders of M/s. Serentica Renewables India 4 Private Limited for 3CX300 SQMM 33 KV Al Cable laid Underground and above ground from Block No. 10 of 33 KV feeder no. 320 at 220 /33 KV PSS of Serentica Renewables India 4 Private Limited at Village Jaymalsar, District-Bikaner, Rajasthan. (Length: 0.95 kms).** particulars of which are given in Annexure XVII.

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 XVIII.

Annexure XVII

[1]

- | | | |
|-----|---|--|
| (a) | Name of the Power Supply authority seeking approval | M/s Serentica Renewables India 4 Private Limited |
| (b) | Reference number & date: | SRI4PL/PTCC/33KV-UG/25-6/03 dated 20.09.2025
E-mail dated 12.12.2025
E-mail dated 24.12.2025 |
| (c) | Name of the Power line | 33KV Feeders of M/s. Serentica Renewables India 4 Private Limited for 3CX300 SQMM 33 KV Al Cable laid Underground and above ground from Block No. 10 of 33 KV feeder no. 320 at 220 /33 KV PSS of Serentica Renewables India 4 Private Limited at Village Jaymalsar, District- Bikaner, Rajasthan. (Length: 0.95 kms) . |
| (d) | Length of Power line: | 0.95 kms |
| (e) | Operating Voltage | 33 kV |
| (f) | Number of circuits | 1 |

[2]

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

[3]	Average value of earth resistivity in the region:	12512 ohm-cms
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[4]	Whether LF test necessary:	No
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[5]	Special conditions subject to which this certificate will be effective	As per Annexure-XVIII
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Annexure XVIII

Name of the Power Line: 33KV Feeders of M/s. Serentica Renewables India 4 Private Limited for 3CX300 SQMM 33 KV Al Cable laid Underground and above ground from **Block No. 10** of 33 KV feeder no. **320** at 220 /33 KV PSS of Serentica Renewables India 4 Private Limited at Village Jaymalsar, District- Bikaner, Rajasthan. **(Length: 0.95 kms).**

- **BSNL Telecom Details:**

AGM Planning O/o GM Bikaner BA, NZ Zone vide letter M-3/ PTCC Meeting/ Bikaner/ 2025 dated 24.09.2025 has stated Non-existence of BSNL U/G and O/H copper cable, armoured OFC and Exchange within the periphery of 05 km. Thus BSNL letter is assumed as NOC.

- **Railway Telecom Details:**

Dy CSTE/Tele NWR/Jaipur Central Railway vide letter SG/158/NWR/PTCC/1221 dated 16.10.2025 has issued their NOC.

- **Defense Telecom Details:**

Additional DG (Telecommunication) vide letter B/46937/Sigs-7(b)/5145 dated 04.12.2025 has issued their NOC.

1. 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
33KV Solar Block No. 10	17.05	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-910-321-11

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 the route of **33KV Feeders of M/s. Serentica Renewables India 4 Private Limited for 3CX300 SQMM 33 KV AI Cable laid Underground and above ground from Block No. 11 of 33 KV feeder no. 321 at 220 /33 KV PSS of Serentica Renewables India 4 Private Limited at Village Jaymalsar, District-Bikaner, Rajasthan. (Length: 0.75 kms).** particulars of which are given in Annexure XIX.

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 XX.

Annexure XIX

[1]

- (a) Name of the Power Supply authority seeking approval M/s Serentica Renewables India 4 Private Limited
- (b) Reference number & date: SRI4PL/PTCC/33KV-UG/25-6/03 dated 20.09.2025
E-mail dated 12.12.2025
E-mail dated 24.12.2025
- (c) Name of the Power line 33KV Feeders of M/s. Serentica Renewables India 4 Private Limited for 3CX300 SQMM 33 KV Al Cable laid Underground and above ground from **Block No. 11** of 33 KV **feeder no. 321** at 220 /33 KV PSS of Serentica Renewables India 4 Private Limited at Village Jaymalsar, District- Bikaner, Rajasthan. (**Length: 0.75 kms**).
- (d) Length of Power line: 0.75 kms
- (e) Operating Voltage 33 kV
- (f) Number of circuits 1

[2]

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

[3] Average value of earth resistivity in the region: 12512 ohm-cms

[4] Whether LF test necessary: No

[5] Special conditions subject to which this certificate will be effective As per Annexure-XX

Annexure XX

Name of the Power Line: 33KV Feeders of M/s. Serentica Renewables India 4 Private Limited for 3CX300 SQMM 33 KV Al Cable laid Underground and above ground from **Block No. 11** of 33 KV feeder no. **321** at 220 /33 KV PSS of Serentica Renewables India 4 Private Limited at Village Jaymalsar, District- Bikaner, Rajasthan. **(Length: 0.75 kms).**

- **BSNL Telecom Details:**

AGM Planning O/o GM Bikaner BA, NZ Zone vide letter M-3/ PTCC Meeting/ Bikaner/ 2025 dated 24.09.2025 has stated Non-existence of BSNL U/G and O/H copper cable, armoured OFC and Exchange within the periphery of 05 km. Thus BSNL letter is assumed as NOC.

- **Railway Telecom Details:**

Dy CSTE/Tele NWR/Jaipur Central Railway vide letter SG/158/NWR/PTCC/1221 dated 16.10.2025 has issued their NOC.

- **Defense Telecom Details:**

Additional DG (Telecommunication) vide letter B/46937/Sigs-7(b)/5145 dated 04.12.2025 has issued their NOC.

1. 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
33KV Solar Block No. 11	17.05	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-910-322-12

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 the route of **33KV Feeders of M/s. Serentica Renewables India 4 Private Limited for 3CX300 SQMM 33 KV Al Cable laid Underground and above ground from Block No. 12 of 33 KV feeder no. 322 at 220 /33 KV PSS of Serentica Renewables India 4 Private Limited at Village Jaymalsar, District-Bikaner, Rajasthan. (Length: 1.1 kms).** particulars of which are given in Annexure XXI.

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 XXII.

Annexure XXI

[1]

- | | | |
|-----|---|--|
| (a) | Name of the Power Supply authority seeking approval | M/s Serentica Renewables India 4 Private Limited |
| (b) | Reference number & date: | SRI4PL/PTCC/33KV-UG/25-6/03 dated 20.09.2025
E-mail dated 12.12.2025
E-mail dated 24.12.2025 |
| (c) | Name of the Power line | 33KV Feeders of M/s. Serentica Renewables India 4 Private Limited for 3CX300 SQMM 33 KV Al Cable laid Underground and above ground from Block No. 12 of 33 KV feeder no. 322 at 220 /33 KV PSS of Serentica Renewables India 4 Private Limited at Village Jaymalsar, District- Bikaner, Rajasthan. (Length: 1.1 kms). |
| (d) | Length of Power line: | 1.1 kms |
| (e) | Operating Voltage | 33 kV |
| (f) | Number of circuits | 1 |

[2]

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

[3] Average value of earth resistivity in the region: 12512 ohm-cms

[4] Whether LF test necessary: No

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

Annexure XXII

Name of the Power Line: 33KV Feeders of M/s. Serentica Renewables India 4 Private Limited for 3CX300 SQMM 33 KV Al Cable laid Underground and above ground from **Block No. 12** of 33 KV feeder no. **322** at 220 /33 KV PSS of Serentica Renewables India 4 Private Limited at Village Jaymalsar, District- Bikaner, Rajasthan. **(Length: 1.1 kms).**

- **BSNL Telecom Details:**

AGM Planning O/o GM Bikaner BA, NZ Zone vide letter M-3/ PTCC Meeting/ Bikaner/ 2025 dated 24.09.2025 has stated Non-existence of BSNL U/G and O/H copper cable, armoured OFC and Exchange within the periphery of 05 km. Thus BSNL letter is assumed as NOC.

- **Railway Telecom Details:**

Dy CSTE/Tele NWR/Jaipur Central Railway vide letter SG/158/NWR/PTCC/1221 dated 16.10.2025 has issued their NOC.

- **Defense Telecom Details:**

Additional DG (Telecommunication) vide letter B/46937/Sigs-7(b)/5145 dated 04.12.2025 has issued their NOC.

1. 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
33KV Solar Block No. 12	17.05	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-910-323-13

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 the route of **33KV Feeders of M/s. Serentica Renewables India 4 Private Limited for 3CX300 SQMM 33 KV Al Cable laid Underground and above ground from Block No. 13 of 33 KV feeder no. 323 at 220 /33 KV PSS of Serentica Renewables India 4 Private Limited at Village Jaymalsar, District-Bikaner, Rajasthan. (Length: 1.373 kms).** particulars of which are given in Annexure XXIII.

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 XXIV.

Annexure XXIII

[1]

- (a) Name of the Power Supply authority seeking approval M/s Serentica Renewables India 4 Private Limited
- (b) Reference number & date: SRI4PL/PTCC/33KV-UG/25-6/03 dated 20.09.2025
E-mail dated 12.12.2025
E-mail dated 24.12.2025
- (c) Name of the Power line 33KV Feeders of M/s. Serentica Renewables India 4 Private Limited for 3CX300 SQMM 33 KV Al Cable laid Underground and above ground from **Block No. 13** of 33 KV **feeder no. 323** at 220 /33 KV PSS of Serentica Renewables India 4 Private Limited at Village Jaymalsar, District- Bikaner, Rajasthan. (**Length: 1.373 kms**).
- (d) Length of Power line: 1.373 kms
- (e) Operating Voltage 33 kV
- (f) Number of circuits 1

[2]

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

[3] Average value of earth resistivity in the region: 12512 ohm-cms

[4] Whether LF test necessary: No

[5] Special conditions subject to which this certificate will be effective As per Annexure-XXIV

Annexure XXIV

Name of the Power Line: 33KV Feeders of M/s. Serentica Renewables India 4 Private Limited for 3CX300 SQMM 33 KV Al Cable laid Underground and above ground from **Block No. 13** of 33 KV feeder no. **323** at 220 /33 KV PSS of Serentica Renewables India 4 Private Limited at Village Jaymalsar, District- Bikaner, Rajasthan. **(Length: 1.373 kms).**

- **BSNL Telecom Details:**

AGM Planning O/o GM Bikaner BA, NZ Zone vide letter M-3/ PTCC Meeting/ Bikaner/ 2025 dated 24.09.2025 has stated Non-existence of BSNL U/G and O/H copper cable, armoured OFC and Exchange within the periphery of 05 km. Thus BSNL letter is assumed as NOC.

- **Railway Telecom Details:**

Dy CSTE/Tele NWR/Jaipur Central Railway vide letter SG/158/NWR/PTCC/1221 dated 16.10.2025 has issued their NOC.

- **Defense Telecom Details:**

Additional DG (Telecommunication) vide letter B/46937/Sigs-7(b)/5145 dated 04.12.2025 has issued their NOC.

1. 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
33KV Solar Block No. 13	17.05	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-910-324-14

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 the route of **33KV Feeders of M/s. Serentica Renewables India 4 Private Limited for 3CX300 SQMM 33 KV Al Cable laid Underground and above ground from Block No. 14 of 33 KV feeder no. 324 at 220 /33 KV PSS of Serentica Renewables India 4 Private Limited at Village Jaymalsar, District-Bikaner, Rajasthan. (Length: 1.065 kms).** particulars of which are given in Annexure XXV.

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

11. 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.
12. 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.
13. Each crossing should satisfy the conditions as laid down in Para 6 -10 of PTCC Code of Practice for crossings.
14. The angle of crossing shall be 90 degrees but in no case less than 60 degrees.
15. 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.
16. 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.
17. 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.
18. 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.
19. 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.
20. The route approval shall be subject to special conditions as laid down under Annexure XXVI.

Annexure XXV

[1]

- (a) Name of the Power Supply authority seeking approval M/s Serentica Renewables India 4 Private Limited
- (b) Reference number & date: SRI4PL/PTCC/33KV-UG/25-6/03 dated 20.09.2025
E-mail dated 12.12.2025
E-mail dated 24.12.2025
- (c) Name of the Power line 33KV Feeders of M/s. Serentica Renewables India 4 Private Limited for 3CX300 SQMM 33 KV Al Cable laid Underground and above ground from **Block No. 14** of 33 KV **feeder no. 324** at 220 /33 KV PSS of Serentica Renewables India 4 Private Limited at Village Jaymalsar, District- Bikaner, Rajasthan. (**Length: 1.065 kms**).
- (d) Length of Power line: 1.065 kms
- (e) Operating Voltage 33 kV
- (f) Number of circuits 1

[2]

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

[3] Average value of earth resistivity in the region: 12512 ohm-cms

[4] Whether LF test necessary: No

[5] Special conditions subject to which this certificate will be effective As per Annexure-XXVI

Annexure XXVI

Name of the Power Line: 33KV Feeders of M/s. Serentica Renewables India 4 Private Limited for 3CX300 SQMM 33 KV Al Cable laid Underground and above ground from **Block No. 14** of 33 KV feeder no. **324** at 220 /33 KV PSS of Serentica Renewables India 4 Private Limited at Village Jaymalsar, District- Bikaner, Rajasthan. **(Length: 1.065 kms).**

- **BSNL Telecom Details:**

AGM Planning O/o GM Bikaner BA, NZ Zone vide letter M-3/ PTCC Meeting/ Bikaner/ 2025 dated 24.09.2025 has stated Non-existence of BSNL U/G and O/H copper cable, armoured OFC and Exchange within the periphery of 05 km. Thus BSNL letter is assumed as NOC.

- **Railway Telecom Details:**

Dy CSTE/Tele NWR/Jaipur Central Railway vide letter SG/158/NWR/PTCC/1221 dated 16.10.2025 has issued their NOC.

- **Defense Telecom Details:**

Additional DG (Telecommunication) vide letter B/46937/Sigs-7(b)/5145 dated 04.12.2025 has issued their NOC.

2. 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
33KV Solar Block No. 14	17.05	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-910-325-15

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 the route of **33KV Feeders of M/s. Serentica Renewables India 4 Private Limited for 3CX300 SQMM 33 KV AI Cable laid Underground and above ground from Block No. 15 of 33 KV feeder no. 325 at 220 /33 KV PSS of Serentica Renewables India 4 Private Limited at Village Jaymalsar, District-Bikaner, Rajasthan. (Length: 2.04 kms).** particulars of which are given in Annexure XXVII.

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

21. 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.
22. 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.
23. Each crossing should satisfy the conditions as laid down in Para 6 -10 of PTCC Code of Practice for crossings.
24. The angle of crossing shall be 90 degrees but in no case less than 60 degrees.
25. 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.
26. 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.
27. 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.
28. 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.
29. 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.
30. The route approval shall be subject to special conditions as laid down under Annexure XXVIII.

Annexure XXVII

[1]

- (a) Name of the Power Supply authority seeking approval M/s Serentica Renewables India 4 Private Limited
- (b) Reference number & date: SRI4PL/PTCC/33KV-UG/25-6/03 dated 20.09.2025
E-mail dated 12.12.2025
E-mail dated 24.12.2025
- (c) Name of the Power line 33KV Feeders of M/s. Serentica Renewables India 4 Private Limited for 3CX300 SQMM 33 KV Al Cable laid Underground and above ground from **Block No. 15** of 33 KV **feeder no. 325** at 220 /33 KV PSS of Serentica Renewables India 4 Private Limited at Village Jaymalsar, District- Bikaner, Rajasthan. **(Length: 2.04 kms).**
- (d) Length of Power line: 2.04 kms
- (e) Operating Voltage 33 kV
- (f) Number of circuits 1

[2]

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

[3] Average value of earth resistivity in the region: 12512 ohm-cms

[4] Whether LF test necessary: No

[5] Special conditions subject to which this certificate will be effective As per Annexure-XXVIII

Annexure XXVIII

Name of the Power Line: 33KV Feeders of M/s. Serentica Renewables India 4 Private Limited for 3CX300 SQMM 33 KV Al Cable laid Underground and above ground from **Block No. 15** of 33 KV feeder no. **325** at 220 /33 KV PSS of Serentica Renewables India 4 Private Limited at Village Jaymalsar, District- Bikaner, Rajasthan. **(Length: 2.04 kms).**

- **BSNL Telecom Details:**

AGM Planning O/o GM Bikaner BA, NZ Zone vide letter M-3/ PTCC Meeting/ Bikaner/ 2025 dated 24.09.2025 has stated Non-existence of BSNL U/G and O/H copper cable, armoured OFC and Exchange within the periphery of 05 km. Thus BSNL letter is assumed as NOC.

- **Railway Telecom Details:**

Dy CSTE/Tele NWR/Jaipur Central Railway vide letter SG/158/NWR/PTCC/1221 dated 16.10.2025 has issued their NOC.

- **Defense Telecom Details:**

Additional DG (Telecommunication) vide letter B/46937/Sigs-7(b)/5145 dated 04.12.2025 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
33KV Solar Block No. 15	17.05	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-910-326-16

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 the route of **33KV Feeders of M/s. Serentica Renewables India 4 Private Limited for 3CX300 SQMM 33 KV AI Cable laid Underground and above ground from Block No. 16 of 33 KV feeder no. 326 at 220 /33 KV PSS of Serentica Renewables India 4 Private Limited at Village Jaymalsar, District-Bikaner, Rajasthan. (Length: 2.324 kms).** particulars of which are given in Annexure XXIX.

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

31. 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.
32. 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.
33. Each crossing should satisfy the conditions as laid down in Para 6 -10 of PTCC Code of Practice for crossings.
34. The angle of crossing shall be 90 degrees but in no case less than 60 degrees.
35. 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.
36. 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.
37. 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.
38. 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.
39. 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.
40. The route approval shall be subject to special conditions as laid down under Annexure XXX.

Annexure XXIX

[1]

- (a) Name of the Power Supply authority seeking approval M/s Serentica Renewables India 4 Private Limited
- (b) Reference number & date: SRI4PL/PTCC/33KV-UG/25-6/03 dated 20.09.2025
E-mail dated 12.12.2025
E-mail dated 24.12.2025
- (c) Name of the Power line 33KV Feeders of M/s. Serentica Renewables India 4 Private Limited for 3CX300 SQMM 33 KV Al Cable laid Underground and above ground from **Block No. 16** of 33 KV **feeder no. 326** at 220 /33 KV PSS of Serentica Renewables India 4 Private Limited at Village Jaymalsar, District- Bikaner, Rajasthan. **(Length: 2.324 kms).**
- (d) Length of Power line: 2.324 kms
- (e) Operating Voltage 33 kV
- (f) Number of circuits 1

[2]

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

[3] Average value of earth resistivity in the region: 12512 ohm-cms

[4] Whether LF test necessary: No

[5] Special conditions subject to which this certificate will be effective As per Annexure-XXVI

Annexure XXX

Name of the Power Line: 33KV Feeders of M/s. Serentica Renewables India 4 Private Limited for 3CX300 SQMM 33 KV Al Cable laid Underground and above ground from **Block No. 16** of 33 KV feeder no. **326** at 220 /33 KV PSS of Serentica Renewables India 4 Private Limited at Village Jaymalsar, District- Bikaner, Rajasthan. (**Length: 2.324 kms**).

- **BSNL Telecom Details:**

AGM Planning O/o GM Bikaner BA, NZ Zone vide letter M-3/ PTCC Meeting/ Bikaner/ 2025 dated 24.09.2025 has stated Non-existence of BSNL U/G and O/H copper cable, armoured OFC and Exchange within the periphery of 05 km. Thus BSNL letter is assumed as NOC.

- **Railway Telecom Details:**

Dy CSTE/Tele NWR/Jaipur Central Railway vide letter SG/158/NWR/PTCC/1221 dated 16.10.2025 has issued their NOC.

- **Defense Telecom Details:**

Additional DG (Telecommunication) vide letter B/46937/Sigs-7(b)/5145 dated 04.12.2025 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
33KV Solar Block No. 16	17.05	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.