



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 Aditya Birla Renewables Subsidiary Limited.

Route Approval Certificate for the following listed lines of M/s Aditya Birla Renewables Subsidiary Limited is annexed to this letter:

S.No.	Name
1	33 kV SPSC Feeder No-1 from 400 kV PSS of 368.5 MW Wind Project of M/s Aditya Birla Renewables Subsidiary Limited at Nand Village in Barmer District to 33 kV Unit S/s WTG Yard (LKHRJ199) (Length: 14.7 km)
2	33 kV SPSC Feeder No-2 from 400 kV PSS of 368.5 MW Wind Project of M/s Aditya Birla Renewables Subsidiary Limited at Nand Village in Barmer District to 33 kV Unit S/s WTG Yard (LKHRJ205) (Length: 12.7 km)
3	33 kV SPSC Feeder No-3 from 400 kV PSS of 368.5 MW Wind Project of M/s Aditya Birla Renewables Subsidiary Limited at Nand Village in Barmer District to 33 kV Unit S/s WTG Yard (LKHRJ17) (Length: 12.8 km)
4	33 kV SPSC Feeder No-4 from 400 kV PSS of 368.5 MW Wind Project of M/s Aditya Birla Renewables Subsidiary Limited at Nand Village in Barmer District to 33 kV Unit S/s WTG Yard (LKHRJ22) (Length: 16.6 km)
5	33 kV SPSC Feeder No-7 from 400 kV PSS of 368.5 MW Wind Project of M/s ABREL (RJ) Projects Limited at Nand Village in Barmer District to 33 kV Unit S/s WTG Yard (LKHRJ197) (Length: 24.6 km)
6	33 kV SPSC Feeder No-10 from 400 kV PSS of 368.5 MW Wind Project of M/s ABREL (RJ) Projects Limited at Nand Village in Barmer District to 33 kV Unit S/s WTG Yard (LKHRJ173) (Length: 20.6 km)
7	33 kV SPSC Feeder No-11 from 400 kV PSS of 368.5 MW Wind Project of M/s ABREL (RJ) Projects Limited at Nand Village in Barmer District to 33 kV Unit S/s WTG Yard (LKHRJ398) (Length: 19.3 km)

Digitally signed by
 Suman Kumar Maharana
 Date: 19-03-2026
 14:52:49

Chief Engineer

1.	M/s Aditya Birla Renewables Subsidiary Limited	A-2, Aditya Birla Centre, SK Ahire Marg, Mumbai
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CEA Case No.: RAJ-924**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 SPSC Feeder No-1 from 400 kV PSS of 368.5 MW Wind Project of M/s Aditya Birla Renewables Subsidiary Limited at Nand Village in Barmer District to 33 kV Unit S/s WTG Yard (LKHRJ199) (Length: 14.7 km)** particulars of which are given in Annexure I.

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

1. The approval is based on the Power system/ Telecom system conditions' details as reported by the Power supply authority/ Telecom authority at present. Any changes either to Transmission line or the Power system or the paralleling telecommunication lines which are likely to alter the low frequency induction from the estimated at present should be reported to PTCC for its prior approval.
2. The Power and Telecommunication authorities shall be required to adopt such measures as may be recommended by PTCC for counteracting any interference that might arise when the EHT line is in normal operation.
3. Each crossing should satisfy the conditions as laid down in Para 6 -10 of PTCC Code of Practice for crossings.
4. The angle of crossing shall be 90 degrees but in no case less than 60 degrees.
5. The power line shall be equipped with protective switchgear such that the duration of earth current shall be as short as possible but never exceeding 0.5 seconds.
6. The power line shall be energized within a mutually acceptable time limit after obtaining a Certificate from the concerned Telecom and/or Railway authority regarding completion of provision of all protective measures as recommended by PTCC and also under specific clearance from the Telecom and/or Railway authority maintaining the Telecom system.
7. The energization of Extra High Tension power lines would not be held up for want of installation of GD tubes on telecom lines when the induced voltages are in the range of 430 to 650 V.
8. The telecom line shall be commissioned within a mutually acceptable time after completing provision of all protective measures as recommended by PTCC and also after obtaining specific clearance from the Power authority, if certain measures as recommended by PTCC are to be carried out on power system.
9. The later entrant in the field shall bear the entire cost of providing GD tubes and their fitting as recommended by PTCC, including 15% spares and/or any other protective measures as recommended by PTCC.
10. The route approval shall be subject to special conditions as laid down under Annexure II.

Annexure I

1

- | | | |
|-----|-----------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| (a) | Name of the Power Supply authority seeking approval | M/s Aditya Birla Renewables Subsidiary Limited |
| (b) | Reference number & date: | ABRSL/33kV/PTCC/CEA/25-26/01 Dated: 27.10.2025 |
| (c) | Name of the Power line | 33 kV SPSC Feeder No-1 from 400 kV PSS of 368.5 MW Wind Project of M/s Aditya Birla Renewables Subsidiary Limited at Nand Village in Barmer District to 33 kV Unit S/s WTG Yard (LKHRJ199) (Length: 14.7 km) |
| (d) | Length of Power line: | 14.7 km |
| (e) | Operating Voltage | 33 kV |
| (f) | Number of circuits | 1 |

2

- | | | |
|-----|----------------------------------|--------------------|
| (a) | Names of parallel telecom lines: | As per Annexure-II |
| (b) | Length of parallelism: | As per Annexure-II |
- 3 Average value of earth resistivity in the region: 10000 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 SPSC Feeder No-1 from 400 kV PSS of 368.5 MW Wind Project of M/s Aditya Birla Renewables Subsidiary Limited at Nand Village in Barmer District to 33 kV Unit S/s WTG Yard (LKHRJ199) (Length: 14.7 km)

1. BSNL Telecom Details:

DET-PTCC, NZ BSNL vide Letter No: DE/PTCC/NZ/BSNL-TD/DV-10699/RAJ-1705/2025-26 Dated: 25.02.2026 has mentioned that only BTS are present within the 5 km boundary of proposed Transmission Line. Hence, IV computation is not required and BSNL's NOC can be considered.

2. Railway Telecom Details:

North Western Railway vide Letter No: SG/158/NWR/PTCC/1260 Dated: 06.01.2026 has issued their NOC for charging of Transmission Line.

3. Defense Telecom Details:

Defense vide Letter No: B/46937/Sigs-7(b)/5393 Dated: 03.02.2026 has issued their NOC for charging of Transmission 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 WTG Switchyard	30	25	0.25	406	258	N.A	N.A

As per the details submitted by BSNL vide reference (1) above, no telephone exchanges are falling in the EPR zone of the proposed substation.

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-925**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 SPSC Feeder No-2 from 400 kV PSS of 368.5 MW Wind Project of M/s Aditya Birla Renewables Subsidiary Limited at Nand Village in Barmer District to 33 kV Unit S/s WTG Yard (LKHRJ205) (Length: 12.7 km)** 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 Aditya Birla Renewables Subsidiary Limited
- (b) Reference number & date: ABRSL/33kV/PTCC/CEA/25-26/02 Dated: 27.10.2025
- (c) Name of the Power line 33 kV SPSC Feeder No-2 from 400 kV PSS of 368.5 MW Wind Project of M/s Aditya Birla Renewables Subsidiary Limited at Nand Village in Barmer District to 33 kV Unit S/s WTG Yard (LKHRJ205) (Length: 12.7 km)
- (d) Length of Power line: 12.7 km
- (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: 10000 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 SPSC Feeder No-2 from 400 kV PSS of 368.5 MW Wind Project of M/s Aditya Birla Renewables Subsidiary Limited at Nand Village in Barmer District to 33 kV Unit S/s WTG Yard (LKHRJ205) (Length: 12.7 km)

1. BSNL Telecom Details:

DET-PTCC, NZ BSNL vide Letter No: DE/PTCC/NZ/BSNL-TD/DV-1700/RAJ-1706/2025-26 Dated: 25.02.2026 has mentioned that only BTS are present within the 5 km boundary of proposed Transmission Line. Hence, IV computation is not required and BSNL's NOC can be considered.

2. Railway Telecom Details:

North Western Railway vide Letter No: SG/158/NWR/PTCC/1261 Dated: 06.01.2026 has issued their NOC for charging of Transmission Line.

3. Defense Telecom Details:

Defense vide Letter No: B/46937/Sigs-7(b)/5391 Dated: 03.02.2026 has issued their NOC for charging of Transmission 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 WTG Switchyard	30	25	0.25	406	258	N.A	N.A

As per the details submitted by BSNL vide reference (1) above, no telephone exchanges are falling in the EPR zone of the proposed substation.

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-926**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 SPSC Feeder No-3 from 400 kV PSS of 368.5 MW Wind Project of M/s Aditya Birla Renewables Subsidiary Limited at Nand Village in Barmer District to 33 kV Unit S/s WTG Yard (LKHRJ17) (Length: 12.8 km)** 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

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|-----|-----------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| (a) | Name of the Power Supply authority seeking approval | M/s Aditya Birla Renewables Subsidiary Limited |
| (b) | Reference number & date: | ABRSL/33kV/PTCC/CEA/25-26/03 Dated: 27.10.2025 |
| (c) | Name of the Power line | 33 kV SPSC Feeder No-3 from 400 kV PSS of 368.5 MW Wind Project of M/s Aditya Birla Renewables Subsidiary Limited at Nand Village in Barmer District to 33 kV Unit S/s WTG Yard (LKHRJ17) (Length: 12.8 km) |
| (d) | Length of Power line: | 12.8 km |
| (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: | 10000 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: 33 kV SPSC Feeder No-3 from 400 kV PSS of 368.5 MW Wind Project of M/s Aditya Birla Renewables Subsidiary Limited at Nand Village in Barmer District to 33 kV Unit S/s WTG Yard (LKHRJ17) (Length: 12.8 km)

1. BSNL Telecom Details:

DET-PTCC, NZ BSNL vide Letter No: DE/PTCC/NZ/BSNL-TD/DV-1701/RAJ-1707/2025-26 Dated: 25.02.2026 has mentioned that only BTS are present within the 5 km boundary of proposed Transmission Line. Hence, IV computation is not required and BSNL's NOC can be considered.

2. Railway Telecom Details:

North Western Railway vide Letter No: SG/158/NWR/PTCC/1262 Dated: 06.01.2026 has issued their NOC for charging of Transmission Line.

3. Defense Telecom Details:

Defense vide Letter No: B/46937/Sigs-7(b)/5392 Dated: 03.02.2026 has issued their NOC for charging of Transmission 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 WTG Switchyard	30	25	0.25	406	258	N.A	N.A

As per the details submitted by BSNL vide reference (1) above, no telephone exchanges are falling in the EPR zone of the proposed substation.

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-927**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 SPSC Feeder No-4 from 400 kV PSS of 368.5 MW Wind Project of M/s Aditya Birla Renewables Subsidiary Limited at Nand Village in Barmer District to 33 kV Unit S/s WTG Yard (LKHRJ22) (Length: 16.6 km)** 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 Aditya Birla Renewables Subsidiary Limited
- (b) Reference number & date: ABRSL/33kV/PTCC/CEA/25-26/04 Dated: 27.10.2025
- (c) Name of the Power line 33 kV SPSC Feeder No-4 from 400 kV PSS of 368.5 MW Wind Project of M/s Aditya Birla Renewables Subsidiary Limited at Nand Village in Barmer District to 33 kV Unit S/s WTG Yard (LKHRJ22) (Length: 16.6 km)
- (d) Length of Power line: 16.6 km
- (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: 10000 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: 33 kV SPSC Feeder No-4 from 400 kV PSS of 368.5 MW Wind Project of M/s Aditya Birla Renewables Subsidiary Limited at Nand Village in Barmer District to 33 kV Unit S/s WTG Yard (LKHRJ22) (Length: 16.6 km)

1. BSNL Telecom Details:

DET-PTCC, NZ BSNL vide Letter No: DE/PTCC/NZ/BSNL-TD/DV-10702/RAJ-1708/2025-26 Dated: 25.02.2026 has mentioned that only BTS are present within the 5 km boundary of proposed Transmission Line. Hence, IV computation is not required and BSNL's NOC can be considered.

2. Railway Telecom Details:

North Western Railway vide Letter No: SG/158/NWR/PTCC/1263 Dated: 06.01.2026 has issued their NOC for charging of Transmission Line.

3. Defense Telecom Details:

Defense vide Letter No: B/46937/Sigs-7(b)/5390 Dated: 03.02.2026 has issued their NOC for charging of Transmission 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 WTG Switchyard	30	25	0.25	406	258	N.A	N.A

As per the details submitted by BSNL vide reference (1) above, no telephone exchanges are falling in the EPR zone of the proposed substation.

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-928**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 SPSC Feeder No-7 from 400 kV PSS of 368.5 MW Wind Project of M/s ABREL (RJ) Projects Limited at Nand Village in Barmer District to 33 kV Unit S/s WTG Yard (LKHRJ197) (Length: 24.6 km)** 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 ABREL (RJ) Projects Limited
- (b) Reference number & date: ABRSL/33kV/PTCC/CEA/25-26/05 Dated: 27.10.2025
- (c) Name of the Power line 33 kV SPSC Feeder No-7 from 400 kV PSS of 368.5 MW Wind Project of M/s ABREL (RJ) Projects Limited at Nand Village in Barmer District to 33 kV Unit S/s WTG Yard (LKHRJ197) (Length: 24.6 km)
- (d) Length of Power line: 24.6 km
- (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: 10000 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: 33 kV SPSC Feeder No-7 from 400 kV PSS of 368.5 MW Wind Project of M/s ABREL (RJ) Projects Limited at Nand Village in Barmer District to 33 kV Unit S/s WTG Yard (LKHRJ197) (Length: 24.6 km)

1. BSNL Telecom Details:

DET-PTCC, NZ BSNL vide Letter No: DE/PTCC/NZ/BSNL-TD/DV-10703/RAJ-1709/2025-26 Dated: 25.02.2026 has mentioned that only BTS are present within the 5 km boundary of proposed Transmission Line. Hence, IV computation is not required and BSNL's NOC can be considered.

2. Railway Telecom Details:

North Western Railway vide Letter No: SG/158/NWR/PTCC/1264 Dated: 06.01.2026 has issued their NOC for charging of Transmission Line.

3. Defense Telecom Details:

Defense vide Letter No: B/46937/Sigs-7(b)/5389 Dated: 03.02.2026 has issued their NOC for charging of Transmission 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 WTG Switchyard	30	25	0.25	406	258	N.A	N.A

As per the details submitted by BSNL vide reference (1) above, no telephone exchanges are falling in the EPR zone of the proposed substation.

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-929**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 SPSC Feeder No-10 from 400 kV PSS of 368.5 MW Wind Project of M/s ABREL (RJ) Projects Limited at Nand Village in Barmer District to 33 kV Unit S/s WTG Yard (LKHRJ173) (Length: 20.6 km)** 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 ABREL (RJ) Projects Limited
- (b) Reference number & date: ABRSL/33kV/PTCC/CEA/25-26/06 Dated: 27.10.2025
- (c) Name of the Power line 33 kV SPSC Feeder No-10 from 400 kV PSS of 368.5 MW Wind Project of M/s ABREL (RJ) Projects Limited at Nand Village in Barmer District to 33 kV Unit S/s WTG Yard (LKHRJ173) (Length: 20.6 km)
- (d) Length of Power line: 20.6 km
- (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: 10000 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: 33 kV SPSC Feeder No-10 from 400 kV PSS of 368.5 MW Wind Project of M/s ABREL (RJ) Projects Limited at Nand Village in Barmer District to 33 kV Unit S/s WTG Yard (LKHRJ173) (Length: 20.6 km)

1. BSNL Telecom Details:

DET-PTCC, NZ BSNL vide Letter No: DE/PTCC/NZ/BSNL-TD/DV-10704/RAJ-1710/2025-26 Dated: 25.02.2026 has mentioned that only BTS are present within the 5 km boundary of proposed Transmission Line. Hence, IV computation is not required and BSNL's NOC can be considered.

2. Railway Telecom Details:

North Western Railway vide Letter No: SG/158/NWR/PTCC/1265 Dated: 06.01.2026 has issued their NOC for charging of Transmission Line.

3. Defense Telecom Details:

Defense vide Letter No: B/46937/Sigs-7(b)/5388 Dated: 03.02.2026 has issued their NOC for charging of Transmission 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 WTG Switchyard	30	25	0.25	406	258	N.A	N.A

As per the details submitted by BSNL vide reference (1) above, no telephone exchanges are falling in the EPR zone of the proposed substation.

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-930**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 SPSC Feeder No-11 from 400 kV PSS of 368.5 MW Wind Project of M/s ABREL (RJ) Projects Limited at Nand Village in Barmer District to 33 kV Unit S/s WTG Yard (LKHRJ398) (Length: 19.3 km)** 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 ABREL (RJ) Projects Limited
- (b) Reference number & date: ABRSL/33kV/PTCC/CEA/25-26/07 Dated: 27.10.2025
- (c) Name of the Power line 33 kV SPSC Feeder No-11 from 400 kV PSS of 368.5 MW Wind Project of M/s ABREL (RJ) Projects Limited at Nand Village in Barmer District to 33 kV Unit S/s WTG Yard (LKHRJ398) (Length: 19.3 km)
- (d) Length of Power line: 19.3 km
- (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: 10000 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: 33 kV SPSC Feeder No-11 from 400 kV PSS of 368.5 MW Wind Project of M/s ABREL (RJ) Projects Limited at Nand Village in Barmer District to 33 kV Unit S/s WTG Yard (LKHRJ398) (Length: 19.3 km)

1. BSNL Telecom Details:

DET-PTCC, NZ BSNL vide Letter No: DE/PTCC/NZ/BSNL-TD/DV-10705/RAJ-1711/2025-26 Dated: 25.02.2026 has mentioned that only BTS are present within the 5 km boundary of proposed Transmission Line. Hence, IV computation is not required and BSNL's NOC can be considered.

2. Railway Telecom Details:

North Western Railway vide Letter No: SG/158/NWR/PTCC/1266 Dated: 06.01.2026 has issued their NOC for charging of Transmission Line.

3. Defense Telecom Details:

Defense vide Letter No: B/46937/Sigs-7(b)/5387 Dated: 03.02.2026 has issued their NOC for charging of Transmission 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 WTG Switchyard	30	25	0.25	406	258	N.A	N.A

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.