



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**

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On behalf of  
Central Level Power & Telecommunication Co-ordination Committee

No: As assigned

Date: As assigned

CEA Case No.: RAJ-888A

**Provisional Certificate** of Approval for the Route of Extra High Tension (EHT) Power Line / Telecommunication Line

**Provisional approval** of the Central Level Power & Telecommunication Co-ordination Committee is hereby conveyed for **60 days** from the date of signing to the route of **33 kV S/C 1CX300 sqmm Al UG cable from Block-1 & Block-2 of 245 MW Plot#1 Solar Park of M/s NTPC Limited to 220/33 kV PSS at Nokh Village, Bap Tehsil, District Phalodi (Length: 7.809 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.

**Signed by Suman Kumar  
Maharana**

**Date: 26-08-2025 14:55:01**  
Chief Engineer

1.	CGM (Telecom), Jaipur, BSNL	Dak Sanchar Bhawan, Sardar Patel Marg, C- Scheme, Jaipur
2	GM (S&T), North Western Railway	Headquarter office, Room No. 136, First Floor, Near Jawahar Circle, Jaipur – 302017
3	Director General of Signals	General Staff Branch, Integrated HQ, MoD (Army), Sena Bhawan, DHQ, PO, New Delhi- 110 105
4.	M/s NTPC Limited	Nokh Solar Project, Behind Kurja Resort, railway Station Road, Khichan, Phalodi, Jodhpur – 342 301

### Annexure I

1

- |     |   |   |
|-----|---|---|
| (a) | Name of the Power Supply authority seeking approval | M/s NTPC Limited  |
| (b) | Reference number & date:                            | NIL dated NIL (received on 14.08.2025)<br>E-mail dated 23.08.2025   |
| (c) | Name of the Power line                              | 33 kV S/C 1CX300 sqmm Al UG cable from Block-1 & Block-2 of 245 MW Plot#1 Solar Park of M/s NTPC Limited to 220/33 kV PSS at Nokh Village, Bap Tehsil, District Phalodi |
| (d) | Length of Power line:                               | 7.809 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: 25,000 ohm-cms

4 Whether LF test necessary: No

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

## Annexure II

**Name of the Power Line:** 33 kV S/C 1CX300 sqmm Al UG cable from Block-1 & Block-2 of 245 MW Plot#1 Solar Park of M/s NTPC Limited to 220/33 kV PSS at Nokh Village, Bap Tehsil, District Phalodi (Length: 7.809 kms)

**1. BSNL Telecom Details:**

AGM (NOW), Jodhpur, BSNL vide letter RJCO-18/16(13)/2020-CFA/19012 dated 07.08.2025 has stated non-existence of any overhead/ underground Copper cable/ armoured OFC cable or BTS within the 5 kms boundary of the proposed power line.

Thus, BSNL letter is taken as deemed NOC.

**2. Railway Telecom Details:**

Deputy CSTE/ Tele North Western Railway vide letter SG/158/NWR/PTCC/1191 dated 25.08.2025 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
220/33 kV PSS at Nokh Village, Bap Tehsil, District Phalodi	95.44	44.1	0.5	4799	3142	205	115
Inverter Duty Transformer	6.02	15	0.5	99	63	0	NA

Telecom authorities to ensure the protection of telecom equipment and personnel within the EPR zone of the proposed substation at the cost of the later entrant.



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**Central Electricity Authority**  
**विद्युत प्रणाली संचार विकास प्रभाग**  
**Power System Communication Development Division**

\*\*\*\*\*

On behalf of  
Central Level Power & Telecommunication Co-ordination Committee

No: As assigned

Date: As assigned

CEA Case No.: RAJ-888B

**Provisional Certificate** of Approval for the Route of Extra High Tension (EHT) Power Line / Telecommunication Line

**Provisional approval** of the Central Level Power & Telecommunication Co-ordination Committee is hereby conveyed for **60 days** from the date of signing to the route of **33 kV S/C 1CX300 sqmm Al UG cable from Block-3 & Block-4 of 245 MW Plot#1 Solar Park of M/s NTPC Limited to 220/33 kV PSS at Nokh Village, Bap Tehsil, District Phalodi (Length: 5.997 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.

**Signed by Suman Kumar  
Maharana**

**Date: 26-08-2025 14:53:35**  
Chief Engineer

1.	CGM (Telecom), Jaipur, BSNL	Dak Sanchar Bhawan, Sardar Patel Marg, C- Scheme, Jaipur
2	GM (S&T), North Western Railway	Headquarter office, Room No. 136, First Floor, Near Jawahar Circle, Jaipur – 302017
3	Director General of Signals	General Staff Branch, Integrated HQ, MoD (Army), Sena Bhawan, DHQ, PO, New Delhi- 110 105
4.	M/s NTPC Limited	Nokh Solar Project, Behind Kurja Resort, railway Station Road, Khichan, Phalodi, Jodhpur – 342 301

**Annexure I**

1

- (a) Name of the Power Supply authority seeking approval M/s NTPC Limited
- (b) Reference number & date: NIL dated NIL (received on 14.08.2025)  
E-mail dated 23.08.2025
- (c) Name of the Power line 33 kV S/C 1CX300 sqmm Al UG cable from Block-3 & Block-4 of 245 MW Plot#1 Solar Park of M/s NTPC Limited to 220/33 kV PSS at Nokh Village, Bap Tehsil, District Phalodi
- (d) Length of Power line: 5.997 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: 25,000 ohm-cms

4 Whether LF test necessary: No

5 Special conditions subject to which this certificate will be effective As per Annexure-II

## Annexure II

**Name of the Power Line:** 33 kV S/C 1CX300 sqmm Al UG cable from Block-3 & Block-4 of 245 MW Plot#1 Solar Park of M/s NTPC Limited to 220/33 kV PSS at Nokh Village, Bap Tehsil, District Phalodi (Length: 5.997 kms)

**1. BSNL Telecom Details:**

AGM (NOW), Jodhpur, BSNL vide letter RJCO-18/16(13)/2020-CFA/19012 dated 07.08.2025 has stated non-existence of any overhead/ underground Copper cable/ armoured OFC cable or BTS within the 5 kms boundary of the proposed power line.

Thus, BSNL letter is taken as deemed NOC.

**2. Railway Telecom Details:**

Deputy CSTE/ Tele North Western Railway vide letter SG/158/NWR/PTCC/1191 dated 25.08.2025 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
220/33 kV PSS at Nokh Village, Bap Tehsil, District Phalodi	95.44	44.1	0.5	4799	3142	205	115
Inverter Duty Transformer	6.02	15	0.5	99	63	0	NA

Telecom authorities to ensure the protection of telecom equipment and personnel within the EPR zone of the proposed substation at the cost of the later entrant.



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**Central Electricity Authority**  
**विद्युत प्रणाली संचार विकास प्रभाग**  
**Power System Communication Development Division**

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On behalf of  
Central Level Power & Telecommunication Co-ordination Committee

No: As assigned

Date: As assigned

CEA Case No.: RAJ-888C

**Provisional Certificate** of Approval for the Route of Extra High Tension (EHT) Power Line / Telecommunication Line

**Provisional approval** of the Central Level Power & Telecommunication Co-ordination Committee is hereby conveyed for **60 days** from the date of signing to the route of **33 kV S/C 1CX300 sqmm Al UG cable from Block-5 & Harmonic Filter 1 of 245 MW Plot#1 Solar Park of M/s NTPC Limited to 220/33 kV PSS at Nokh Village, Bap Tehsil, District Phalodi (Length: 3.404 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.

**Signed by Suman Kumar  
Maharana**

**Date: 26-08-2025 14:51:30**

Chief Engineer

1.	CGM (Telecom), Jaipur, BSNL	Dak Sanchar Bhawan, Sardar Patel Marg, C- Scheme, Jaipur
2	GM (S&T), North Western Railway	Headquarter office, Room No. 136, First Floor, Near Jawahar Circle, Jaipur – 302017
3	Director General of Signals	General Staff Branch, Integrated HQ, MoD (Army), Sena Bhawan, DHQ, PO, New Delhi- 110 105
4.	M/s NTPC Limited	Nokh Solar Project, Behind Kurja Resort, railway Station Road, Khichan, Phalodi, Jodhpur – 342 301

### Annexure I

1

- |     |   |   |
|-----|---|---|
| (a) | Name of the Power Supply authority seeking approval | M/s NTPC Limited  |
| (b) | Reference number & date:                            | NIL dated NIL (received on 14.08.2025)<br>E-mail dated 23.08.2025   |
| (c) | Name of the Power line                              | 33 kV S/C 1CX300 sqmm Al UG cable from Block-5 & Harmonic Filter 1 of 245 MW Plot#1 Solar Park of M/s NTPC Limited to 220/33 kV PSS at Nokh Village, Bap Tehsil, District Phalodi |
| (d) | Length of Power line:                               | 3.404 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: 25,000 ohm-cms

4 Whether LF test necessary: No

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

## Annexure II

**Name of the Power Line:** 33 kV S/C 1CX300 sqmm Al UG cable from Block-5 & Harmonic Filter 1 of 245 MW Plot#1 Solar Park of M/s NTPC Limited to 220/33 kV PSS at Nokh Village, Bap Tehsil, District Phalodi (Length: 3.404 kms)

**1. BSNL Telecom Details:**

AGM (NOW), Jodhpur, BSNL vide letter RJCO-18/16(13)/2020-CFA/19012 dated 07.08.2025 has stated non-existence of any overhead/ underground Copper cable/ armoured OFC cable or BTS within the 5 kms boundary of the proposed power line.

Thus, BSNL letter is taken as deemed NOC.

**2. Railway Telecom Details:**

Deputy CSTE/ Tele North Western Railway vide letter SG/158/NWR/PTCC/1191 dated 25.08.2025 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
220/33 kV PSS at Nokh Village, Bap Tehsil, District Phalodi	95.44	44.1	0.5	4799	3142	205	115
Inverter Duty Transformer	6.02	15	0.5	99	63	0	NA

Telecom authorities to ensure the protection of telecom equipment and personnel within the EPR zone of the proposed substation at the cost of the later entrant.



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**Central Electricity Authority**  
**विद्युत प्रणाली संचार विकास प्रभाग**  
**Power System Communication Development Division**

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On behalf of  
Central Level Power & Telecommunication Co-ordination Committee

No: As assigned

Date: As assigned

CEA Case No.: RAJ-888D

**Provisional Certificate** of Approval for the Route of Extra High Tension (EHT) Power Line / Telecommunication Line

**Provisional approval** of the Central Level Power & Telecommunication Co-ordination Committee is hereby conveyed for **60 days** from the date of signing to the route of **33 kV S/C 1CX300 sqmm Al UG cable from Block-6 & Block-7 of 245 MW Plot#1 Solar Park of M/s NTPC Limited to 220/33 kV PSS at Nokh Village, Bap Tehsil, District Phalodi (Length: 7.932 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.

**Signed by Suman Kumar  
Maharana**

**Date: 26-08-2025 14:49:37**  
Chief Engineer

1.	CGM (Telecom), Jaipur, BSNL	Dak Sanchar Bhawan, Sardar Patel Marg, C- Scheme, Jaipur
2	GM (S&T), North Western Railway	Headquarter office, Room No. 136, First Floor, Near Jawahar Circle, Jaipur – 302017
3	Director General of Signals	General Staff Branch, Integrated HQ, MoD (Army), Sena Bhawan, DHQ, PO, New Delhi- 110 105
4.	M/s NTPC Limited	Nokh Solar Project, Behind Kurja Resort, railway Station Road, Khichan, Phalodi, Jodhpur – 342 301

**Annexure I**

1

- (a) Name of the Power Supply authority seeking approval M/s NTPC Limited
- (b) Reference number & date: NIL dated NIL (received on 14.08.2025)  
E-mail dated 23.08.2025
- (c) Name of the Power line 33 kV S/C 1CX300 sqmm Al UG cable from Block-6 & Block-7 of 245 MW Plot#1 Solar Park of M/s NTPC Limited to 220/33 kV PSS at Nokh Village, Bap Tehsil, District Phalodi
- (d) Length of Power line: 7.932 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: 25,000 ohm-cms

4 Whether LF test necessary: No

5 Special conditions subject to which this certificate will be effective As per Annexure-II

## Annexure II

**Name of the Power Line:** 33 kV S/C 1CX300 sqmm Al UG cable from Block-6 & Block-7 of 245 MW Plot#1 Solar Park of M/s NTPC Limited to 220/33 kV PSS at Nokh Village, Bap Tehsil, District Phalodi (Length: 7.932 kms)

**1. BSNL Telecom Details:**

AGM (NOW), Jodhpur, BSNL vide letter RJCO-18/16(13)/2020-CFA/19012 dated 07.08.2025 has stated non-existence of any overhead/ underground Copper cable/ armoured OFC cable or BTS within the 5 kms boundary of the proposed power line.

Thus, BSNL letter is taken as deemed NOC.

**2. Railway Telecom Details:**

Deputy CSTE/ Tele North Western Railway vide letter SG/158/NWR/PTCC/1191 dated 25.08.2025 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
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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.



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**Central Electricity Authority**  
**विद्युत प्रणाली संचार विकास प्रभाग**  
**Power System Communication Development Division**

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On behalf of  
Central Level Power & Telecommunication Co-ordination Committee

No: As assigned

Date: As assigned

CEA Case No.: RAJ-888E

**Provisional Certificate** of Approval for the Route of Extra High Tension (EHT) Power Line / Telecommunication Line

**Provisional approval** of the Central Level Power & Telecommunication Co-ordination Committee is hereby conveyed for **60 days** from the date of signing to the route of **33 kV S/C 1CX300 sqmm Al UG cable from Block-8 & Block-9 of 245 MW Plot#1 Solar Park of M/s NTPC Limited to 220/33 kV PSS at Nokh Village, Bap Tehsil, District Phalodi (Length: 8.592 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.
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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.

**Signed by Suman Kumar  
Maharana**

**Date: 26-08-2025 14:47:52**  
Chief Engineer

1.	CGM (Telecom), Jaipur, BSNL	Dak Sanchar Bhawan, Sardar Patel Marg, C- Scheme, Jaipur
2	GM (S&T), North Western Railway	Headquarter office, Room No. 136, First Floor, Near Jawahar Circle, Jaipur – 302017
3	Director General of Signals	General Staff Branch, Integrated HQ, MoD (Army), Sena Bhawan, DHQ, PO, New Delhi- 110 105
4.	M/s NTPC Limited	Nokh Solar Project, Behind Kurja Resort, railway Station Road, Khichan, Phalodi, Jodhpur – 342 301

**Annexure I**

1

- (a) Name of the Power Supply authority seeking approval M/s NTPC Limited
- (b) Reference number & date: NIL dated NIL (received on 14.08.2025)  
E-mail dated 23.08.2025
- (c) Name of the Power line 33 kV S/C 1CX300 sqmm Al UG cable from Block-8 & Block-9 of 245 MW Plot#1 Solar Park of M/s NTPC Limited to 220/33 kV PSS at Nokh Village, Bap Tehsil, District Phalodi
- (d) Length of Power line: 8.592 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: 25,000 ohm-cms

4 Whether LF test necessary: No

5 Special conditions subject to which this certificate will be effective As per Annexure-II

## Annexure II

**Name of the Power Line:** 33 kV S/C 1CX300 sqmm Al UG cable from Block-8 & Block-9 of 245 MW Plot#1 Solar Park of M/s NTPC Limited to 220/33 kV PSS at Nokh Village, Bap Tehsil, District Phalodi (Length: 8.592 kms)

**1. BSNL Telecom Details:**

AGM (NOW), Jodhpur, BSNL vide letter RJCO-18/16(13)/2020-CFA/19012 dated 07.08.2025 has stated non-existence of any overhead/ underground Copper cable/ armoured OFC cable or BTS within the 5 kms boundary of the proposed power line.

Thus, BSNL letter is taken as deemed NOC.

**2. Railway Telecom Details:**

Deputy CSTE/ Tele North Western Railway vide letter SG/158/NWR/PTCC/1191 dated 25.08.2025 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
220/33 kV PSS at Nokh Village, Bap Tehsil, District Phalodi	95.44	44.1	0.5	4799	3142	205	115
Inverter Duty Transformer	6.02	15	0.5	99	63	0	NA

Telecom authorities to ensure the protection of telecom equipment and personnel within the EPR zone of the proposed substation at the cost of the later entrant.



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**

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On behalf of  
Central Level Power & Telecommunication Co-ordination Committee

No: As assigned

Date: As assigned

CEA Case No.: RAJ-888F

**Provisional Certificate** of Approval for the Route of Extra High Tension (EHT) Power Line / Telecommunication Line

**Provisional approval** of the Central Level Power & Telecommunication Co-ordination Committee is hereby conveyed for **60 days** from the date of signing to the route of **33 kV S/C 1CX300 sqmm Al UG cable from Block-10 & Harmonic Filter 2 of 245 MW Plot#1 Solar Park of M/s NTPC Limited to 220/33 kV PSS at Nokh Village, Bap Tehsil, District Phalodi (Length: 7.566 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.

**Signed by Suman Kumar  
Maharana**

**Date: 26-08-2025 14:46:25**

Chief Engineer

1.	CGM (Telecom), Jaipur, BSNL	Dak Sanchar Bhawan, Sardar Patel Marg, C- Scheme, Jaipur
2	GM (S&T), North Western Railway	Headquarter office, Room No. 136, First Floor, Near Jawahar Circle, Jaipur – 302017
3	Director General of Signals	General Staff Branch, Integrated HQ, MoD (Army), Sena Bhawan, DHQ, PO, New Delhi- 110 105
4.	M/s NTPC Limited	Nokh Solar Project, Behind Kurja Resort, railway Station Road, Khichan, Phalodi, Jodhpur – 342 301

**Annexure I**

1

- (a) Name of the Power Supply authority seeking approval M/s NTPC Limited
- (b) Reference number & date: NIL dated NIL (received on 14.08.2025)  
E-mail dated 23.08.2025
- (c) Name of the Power line 33 kV S/C 1CX300 sqmm Al UG cable from Block-10 & Harmonic Filter 2 of 245 MW Plot#1 Solar Park of M/s NTPC Limited to 220/33 kV PSS at Nokh Village, Bap Tehsil, District Phalodi
- (d) Length of Power line: 7.566 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: 25,000 ohm-cms

4 Whether LF test necessary: No

5 Special conditions subject to which this certificate will be effective As per Annexure-II

## Annexure II

**Name of the Power Line:** 33 kV S/C 1CX300 sqmm Al UG cable from Block-10 & Harmonic Filter 2 of 245 MW Plot#1 Solar Park of M/s NTPC Limited to 220/33 kV PSS at Nokh Village, Bap Tehsil, District Phalodi (Length: 7.566 kms)

**1. BSNL Telecom Details:**

AGM (NOW), Jodhpur, BSNL vide letter RJCO-18/16(13)/2020-CFA/19012 dated 07.08.2025 has stated non-existence of any overhead/ underground Copper cable/ armoured OFC cable or BTS within the 5 kms boundary of the proposed power line.

Thus, BSNL letter is taken as deemed NOC.

**2. Railway Telecom Details:**

Deputy CSTE/ Tele North Western Railway vide letter SG/158/NWR/PTCC/1191 dated 25.08.2025 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
220/33 kV PSS at Nokh Village, Bap Tehsil, District Phalodi	95.44	44.1	0.5	4799	3142	205	115
Inverter Duty Transformer	6.02	15	0.5	99	63	0	NA

Telecom authorities to ensure the protection of telecom equipment and personnel within the EPR zone of the proposed substation at the cost of the later entrant.



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**

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On behalf of  
Central Level Power & Telecommunication Co-ordination Committee

No: As assigned

Date: As assigned

CEA Case No.: RAJ-888G

**Provisional Certificate** of Approval for the Route of Extra High Tension (EHT) Power Line / Telecommunication Line

**Provisional approval** of the Central Level Power & Telecommunication Co-ordination Committee is hereby conveyed for **60 days** from the date of signing to the route of **33 kV S/C 1CX300 sqmm Al UG cable from Block-11 & Block-12 of 245 MW Plot#1 Solar Park of M/s NTPC Limited to 220/33 kV PSS at Nokh Village, Bap Tehsil, District Phalodi (Length: 8.166 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.

**Signed by Suman Kumar  
Maharana**

**Date: 26-08-2025 14:44:58**  
Chief Engineer

1.	CGM (Telecom), Jaipur, BSNL	Dak Sanchar Bhawan, Sardar Patel Marg, C- Scheme, Jaipur
2	GM (S&T), North Western Railway	Headquarter office, Room No. 136, First Floor, Near Jawahar Circle, Jaipur – 302017
3	Director General of Signals	General Staff Branch, Integrated HQ, MoD (Army), Sena Bhawan, DHQ, PO, New Delhi- 110 105
4.	M/s NTPC Limited	Nokh Solar Project, Behind Kurja Resort, railway Station Road, Khichan, Phalodi, Jodhpur – 342 301

### Annexure I

1

- |     |   |   |
|-----|---|---|
| (a) | Name of the Power Supply authority seeking approval | M/s NTPC Limited  |
| (b) | Reference number & date:                            | NIL dated NIL (received on 14.08.2025)<br>E-mail dated 23.08.2025   |
| (c) | Name of the Power line                              | 33 kV S/C 1CX300 sqmm Al UG cable from Block-11 & Block-12 of 245 MW Plot#1 Solar Park of M/s NTPC Limited to 220/33 kV PSS at Nokh Village, Bap Tehsil, District Phalodi |
| (d) | Length of Power line:                               | 8.166 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: 25,000 ohm-cms

4 Whether LF test necessary: No

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

## Annexure II

**Name of the Power Line:** 33 kV S/C 1CX300 sqmm Al UG cable from Block-11 & Block-12 of 245 MW Plot#1 Solar Park of M/s NTPC Limited to 220/33 kV PSS at Nokh Village, Bap Tehsil, District Phalodi (Length: 8.166 kms)

**1. BSNL Telecom Details:**

AGM (NOW), Jodhpur, BSNL vide letter RJCO-18/16(13)/2020-CFA/19012 dated 07.08.2025 has stated non-existence of any overhead/ underground Copper cable/ armoured OFC cable or BTS within the 5 kms boundary of the proposed power line.

Thus, BSNL letter is taken as deemed NOC.

**2. Railway Telecom Details:**

Deputy CSTE/ Tele North Western Railway vide letter SG/158/NWR/PTCC/1191 dated 25.08.2025 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
220/33 kV PSS at Nokh Village, Bap Tehsil, District Phalodi	95.44	44.1	0.5	4799	3142	205	115
Inverter Duty Transformer	6.02	15	0.5	99	63	0	NA

Telecom authorities to ensure the protection of telecom equipment and personnel within the EPR zone of the proposed substation at the cost of the later entrant.



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**

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On behalf of  
Central Level Power & Telecommunication Co-ordination Committee

No: As assigned

Date: As assigned

CEA Case No.: RAJ-888H

**Provisional Certificate** of Approval for the Route of Extra High Tension (EHT) Power Line / Telecommunication Line

**Provisional approval** of the Central Level Power & Telecommunication Co-ordination Committee is hereby conveyed for **60 days** from the date of signing to the route of **33 kV S/C 1CX300 sqmm Al UG cable from Block-13 & Block-14 of 245 MW Plot#1 Solar Park of M/s NTPC Limited to 220/33 kV PSS at Nokh Village, Bap Tehsil, District Phalodi (Length: 12.798 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.

**Signed by Suman Kumar  
Maharana**

**Date: 26-08-2025 14:43:04**

Chief Engineer

1.	CGM (Telecom), Jaipur, BSNL	Dak Sanchar Bhawan, Sardar Patel Marg, C- Scheme, Jaipur
2	GM (S&T), North Western Railway	Headquarter office, Room No. 136, First Floor, Near Jawahar Circle, Jaipur – 302017
3	Director General of Signals	General Staff Branch, Integrated HQ, MoD (Army), Sena Bhawan, DHQ, PO, New Delhi- 110 105
4.	M/s NTPC Limited	Nokh Solar Project, Behind Kurja Resort, railway Station Road, Khichan, Phalodi, Jodhpur – 342 301

### Annexure I

1

- |     |   |   |
|-----|---|---|
| (a) | Name of the Power Supply authority seeking approval | M/s NTPC Limited  |
| (b) | Reference number & date:                            | NIL dated NIL (received on 14.08.2025)<br>E-mail dated 23.08.2025   |
| (c) | Name of the Power line                              | 33 kV S/C 1CX300 sqmm Al UG cable from Block-13 & Block-14 of 245 MW Plot#1 Solar Park of M/s NTPC Limited to 220/33 kV PSS at Nokh Village, Bap Tehsil, District Phalodi |
| (d) | Length of Power line:                               | 12.798 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: 25,000 ohm-cms

4 Whether LF test necessary: No

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

## Annexure II

**Name of the Power Line:** 33 kV S/C 1CX300 sqmm Al UG cable from Block-13 & Block-14 of 245 MW Plot#1 Solar Park of M/s NTPC Limited to 220/33 kV PSS at Nokh Village, Bap Tehsil, District Phalodi (Length: 12.798 kms)

**1. BSNL Telecom Details:**

AGM (NOW), Jodhpur, BSNL vide letter RJCO-18/16(13)/2020-CFA/19012 dated 07.08.2025 has stated non-existence of any overhead/ underground Copper cable/ armoured OFC cable or BTS within the 5 kms boundary of the proposed power line.

Thus, BSNL letter is taken as deemed NOC.

**2. Railway Telecom Details:**

Deputy CSTE/ Tele North Western Railway vide letter SG/158/NWR/PTCC/1191 dated 25.08.2025 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
220/33 kV PSS at Nokh Village, Bap Tehsil, District Phalodi	95.44	44.1	0.5	4799	3142	205	115
Inverter Duty Transformer	6.02	15	0.5	99	63	0	NA

Telecom authorities to ensure the protection of telecom equipment and personnel within the EPR zone of the proposed substation at the cost of the later entrant.



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**

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On behalf of  
Central Level Power & Telecommunication Co-ordination Committee

No: As assigned

Date: As assigned

CEA Case No.: RAJ-888I

**Provisional Certificate** of Approval for the Route of Extra High Tension (EHT) Power Line / Telecommunication Line

**Provisional approval** of the Central Level Power & Telecommunication Co-ordination Committee is hereby conveyed for **60 days** from the date of signing to the route of **33 kV S/C 1CX300 sqmm Al UG cable from Block-15 & Block-16 of 245 MW Plot#1 Solar Park of M/s NTPC Limited to 220/33 kV PSS at Nokh Village, Bap Tehsil, District Phalodi (Length: 15.537 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.

**Signed by Suman Kumar  
Maharana**

**Date: 26-08-2025 14:41:34**  
Chief Engineer

1.	CGM (Telecom), Jaipur, BSNL	Dak Sanchar Bhawan, Sardar Patel Marg, C- Scheme, Jaipur
2	GM (S&T), North Western Railway	Headquarter office, Room No. 136, First Floor, Near Jawahar Circle, Jaipur – 302017
3	Director General of Signals	General Staff Branch, Integrated HQ, MoD (Army), Sena Bhawan, DHQ, PO, New Delhi- 110 105
4.	M/s NTPC Limited	Nokh Solar Project, Behind Kurja Resort, railway Station Road, Khichan, Phalodi, Jodhpur – 342 301

### Annexure I

1

- |     |   |  |
|-----|---|--|
| (a) | Name of the Power Supply authority seeking approval | M/s NTPC Limited   |
| (b) | Reference number & date:                            | NIL dated NIL (received on 14.08.2025)<br>E-mail dated 23.08.2025  |
| (c) | Name of the Power line                              | 33 kV S/C 1CX300 sqmm Al UG cable from Block-15 & Block-16 of 245 MW Plot#1 Solar Park of M/s NTPC Limited to 220/33 kV PSS at Nokh Village, Bap Tehsil, District Phalodi (Length: 15.537 kms) |
| (d) | Length of Power line:                               | 15.537 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: 25,000 ohm-cms

4 Whether LF test necessary: No

5 Special conditions subject to which this certificate will be effective As per Annexure-II

## Annexure II

**Name of the Power Line:** 33 kV S/C 1CX300 sqmm Al UG cable from Block-15 & Block-16 of 245 MW Plot#1 Solar Park of M/s NTPC Limited to 220/33 kV PSS at Nokh Village, Bap Tehsil, District Phalodi (Length: 15.537 kms)

**1. BSNL Telecom Details:**

AGM (NOW), Jodhpur, BSNL vide letter RJCO-18/16(13)/2020-CFA/19012 dated 07.08.2025 has stated non-existence of any overhead/ underground Copper cable/ armoured OFC cable or BTS within the 5 kms boundary of the proposed power line.

Thus, BSNL letter is taken as deemed NOC.

**2. Railway Telecom Details:**

Deputy CSTE/ Tele North Western Railway vide letter SG/158/NWR/PTCC/1191 dated 25.08.2025 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
220/33 kV PSS at Nokh Village, Bap Tehsil, District Phalodi	95.44	44.1	0.5	4799	3142	205	115
Inverter Duty Transformer	6.02	15	0.5	99	63	0	NA

Telecom authorities to ensure the protection of telecom equipment and personnel within the EPR zone of the proposed substation at the cost of the later entrant.



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**

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On behalf of  
Central Level Power & Telecommunication Co-ordination Committee

No: As assigned

Date: As assigned

CEA Case No.: RAJ-888J

**Provisional Certificate** of Approval for the Route of Extra High Tension (EHT) Power Line / Telecommunication Line

**Provisional approval** of the Central Level Power & Telecommunication Co-ordination Committee is hereby conveyed for **60 days** from the date of signing to the route of **33 kV S/C 1CX300 sqmm Al UG cable from Block-17, Block-22 & Harmonic Filter-3 of 245 MW Plot#1 Solar Park of M/s NTPC Limited to 220/33 kV PSS at Nokh Village, Bap Tehsil, District Phalodi (Length: 20.428 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.

**Signed by Suman Kumar  
Maharana**  
**Date: 26-08-2025 14:39:55**  
Chief Engineer

1.	CGM (Telecom), Jaipur, BSNL	Dak Sanchar Bhawan, Sardar Patel Marg, C- Scheme, Jaipur
2	GM (S&T), North Western Railway	Headquarter office, Room No. 136, First Floor, Near Jawahar Circle, Jaipur – 302017
3	Director General of Signals	General Staff Branch, Integrated HQ, MoD (Army), Sena Bhawan, DHQ, PO, New Delhi- 110 105
4.	M/s NTPC Limited	Nokh Solar Project, Behind Kurja Resort, railway Station Road, Khichan, Phalodi, Jodhpur – 342 301

### Annexure I

1

- |     |   |  |
|-----|---|--|
| (a) | Name of the Power Supply authority seeking approval | M/s NTPC Limited   |
| (b) | Reference number & date:                            | NIL dated NIL (received on 14.08.2025)<br>E-mail dated 23.08.2025  |
| (c) | Name of the Power line                              | 33 kV S/C 1CX300 sqmm Al UG cable from Block-17, Block-22 & Harmonic Filter-3 of 245 MW Plot#1 Solar Park of M/s NTPC Limited to 220/33 kV PSS at Nokh Village, Bap Tehsil, District Phalodi |
| (d) | Length of Power line:                               | 20.428 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: 25,000 ohm-cms

4 Whether LF test necessary: No

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

## Annexure II

**Name of the Power Line:** 33 kV S/C 1CX300 sqmm Al UG cable from Block-17, Block-22 & Harmonic Filter-3 of 245 MW Plot#1 Solar Park of M/s NTPC Limited to 220/33 kV PSS at Nokh Village, Bap Tehsil, District Phalodi (Length: 20.428 kms)

**1. BSNL Telecom Details:**

AGM (NOW), Jodhpur, BSNL vide letter RJCO-18/16(13)/2020-CFA/19012 dated 07.08.2025 has stated non-existence of any overhead/ underground Copper cable/ armoured OFC cable or BTS within the 5 kms boundary of the proposed power line.

Thus, BSNL letter is taken as deemed NOC.

**2. Railway Telecom Details:**

Deputy CSTE/ Tele North Western Railway vide letter SG/158/NWR/PTCC/1191 dated 25.08.2025 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
220/33 kV PSS at Nokh Village, Bap Tehsil, District Phalodi	95.44	44.1	0.5	4799	3142	205	115
Inverter Duty Transformer	6.02	15	0.5	99	63	0	NA

Telecom authorities to ensure the protection of telecom equipment and personnel within the EPR zone of the proposed substation at the cost of the later entrant.



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**

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On behalf of  
Central Level Power & Telecommunication Co-ordination Committee

No: As assigned

Date: As assigned

CEA Case No.: RAJ-888K

**Provisional Certificate** of Approval for the Route of Extra High Tension (EHT) Power Line / Telecommunication Line

**Provisional approval** of the Central Level Power & Telecommunication Co-ordination Committee is hereby conveyed for **60 days** from the date of signing to the route of **33 kV S/C 1CX300 sqmm Al UG cable from Block-18 & Block-19 of 245 MW Plot#1 Solar Park of M/s NTPC Limited to 220/33 kV PSS at Nokh Village, Bap Tehsil, District Phalodi (Length: 24.792 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.

**Signed by Suman Kumar  
Maharana**

**Date: 26-08-2025 14:38:27**  
Chief Engineer

1.	CGM (Telecom), Jaipur, BSNL	Dak Sanchar Bhawan, Sardar Patel Marg, C- Scheme, Jaipur
2	GM (S&T), North Western Railway	Headquarter office, Room No. 136, First Floor, Near Jawahar Circle, Jaipur – 302017
3	Director General of Signals	General Staff Branch, Integrated HQ, MoD (Army), Sena Bhawan, DHQ, PO, New Delhi- 110 105
4.	M/s NTPC Limited	Nokh Solar Project, Behind Kurja Resort, railway Station Road, Khichan, Phalodi, Jodhpur – 342 301

### Annexure I

1

- |     |   |   |
|-----|---|---|
| (a) | Name of the Power Supply authority seeking approval | M/s NTPC Limited  |
| (b) | Reference number & date:                            | NIL dated NIL (received on 14.08.2025)<br>E-mail dated 23.08.2025   |
| (c) | Name of the Power line                              | 33 kV S/C 1CX300 sqmm Al UG cable from Block-18 & Block-19 of 245 MW Plot#1 Solar Park of M/s NTPC Limited to 220/33 kV PSS at Nokh Village, Bap Tehsil, District Phalodi |
| (d) | Length of Power line:                               | 24.792 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: 25,000 ohm-cms

4 Whether LF test necessary: No

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

## Annexure II

**Name of the Power Line:** 33 kV S/C 1CX300 sqmm Al UG cable from Block-18 & Block-19 of 245 MW Plot#1 Solar Park of M/s NTPC Limited to 220/33 kV PSS at Nokh Village, Bap Tehsil, District Phalodi (Length: 24.792 kms)

**1. BSNL Telecom Details:**

AGM (NOW), Jodhpur, BSNL vide letter RJCO-18/16(13)/2020-CFA/19012 dated 07.08.2025 has stated non-existence of any overhead/ underground Copper cable/ armoured OFC cable or BTS within the 5 kms boundary of the proposed power line.

Thus, BSNL letter is taken as deemed NOC.

**2. Railway Telecom Details:**

Deputy CSTE/ Tele North Western Railway vide letter SG/158/NWR/PTCC/1191 dated 25.08.2025 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
220/33 kV PSS at Nokh Village, Bap Tehsil, District Phalodi	95.44	44.1	0.5	4799	3142	205	115
Inverter Duty Transformer	6.02	15	0.5	99	63	0	NA

Telecom authorities to ensure the protection of telecom equipment and personnel within the EPR zone of the proposed substation at the cost of the later entrant.



सत्यमेव जयते



**भारत सरकार**  
**Government of India**  
**विद्युत मंत्रालय**  
**Ministry of Power**  
**केन्द्रीय विद्युत प्राधिकरण**  
**Central Electricity Authority**  
**विद्युत प्रणाली संचार विकास प्रभाग**  
**Power System Communication Development Division**

\*\*\*\*\*

On behalf of  
Central Level Power & Telecommunication Co-ordination Committee

No: As assigned

Date: As assigned

CEA Case No.: RAJ-888L

**Provisional Certificate** of Approval for the Route of Extra High Tension (EHT) Power Line / Telecommunication Line

**Provisional approval** of the Central Level Power & Telecommunication Co-ordination Committee is hereby conveyed for **60 days** from the date of signing to the route of **33 kV S/C 1CX300 sqmm Al UG cable from Block-20 & Block-21 of 245 MW Plot#1 Solar Park of M/s NTPC Limited to 220/33 kV PSS at Nokh Village, Bap Tehsil, District Phalodi (Length: 22.818 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.

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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.

**Signed by Suman Kumar  
Maharana**

**Date: 26-08-2025 14:35:17**  
Chief Engineer

1.	CGM (Telecom), Jaipur, BSNL	Dak Sanchar Bhawan, Sardar Patel Marg, C- Scheme, Jaipur
2	GM (S&T), North Western Railway	Headquarter office, Room No. 136, First Floor, Near Jawahar Circle, Jaipur – 302017
3	Director General of Signals	General Staff Branch, Integrated HQ, MoD (Army), Sena Bhawan, DHQ, PO, New Delhi- 110 105
4.	M/s NTPC Limited	Nokh Solar Project, Behind Kurja Resort, railway Station Road, Khichan, Phalodi, Jodhpur – 342 301

### Annexure I

1

- |     |   |   |
|-----|---|---|
| (a) | Name of the Power Supply authority seeking approval | M/s NTPC Limited  |
| (b) | Reference number & date:                            | NIL dated NIL (received on 14.08.2025)<br>E-mail dated 23.08.2025   |
| (c) | Name of the Power line                              | 33 kV S/C 1CX300 sqmm Al UG cable from Block-20 & Block-21 of 245 MW Plot#1 Solar Park of M/s NTPC Limited to 220/33 kV PSS at Nokh Village, Bap Tehsil, District Phalodi |
| (d) | Length of Power line:                               | 22.818 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: 25,000 ohm-cms

4 Whether LF test necessary: No

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

## Annexure II

**Name of the Power Line:** 33 kV S/C 1CX300 sqmm Al UG cable from Block-20 & Block-21 of 245 MW Plot#1 Solar Park of M/s NTPC Limited to 220/33 kV PSS at Nokh Village, Bap Tehsil, District Phalodi (Length: 22.818 kms)

**1. BSNL Telecom Details:**

AGM (NOW), Jodhpur, BSNL vide letter RJCO-18/16(13)/2020-CFA/19012 dated 07.08.2025 has stated non-existence of any overhead/ underground Copper cable/ armoured OFC cable or BTS within the 5 kms boundary of the proposed power line.

Thus, BSNL letter is taken as deemed NOC.

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**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
220/33 kV PSS at Nokh Village, Bap Tehsil, District Phalodi	95.44	44.1	0.5	4799	3142	205	115
Inverter Duty Transformer	6.02	15	0.5	99	63	0	NA

Telecom authorities to ensure the protection of telecom equipment and personnel within the EPR zone of the proposed substation at the cost of the later entrant.