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: Provisional Certificate of Approval for the Route of 16 Nos of 33 kV feeders of M/s SAEL Solar P4 Private Limited 400 MW Solar Power Plant at Khavda, Bhuj.

Provisional Route Approval Certificate having a validity of **60 days** from the date of issuance for the following listed lines of M/s SAEL Solar P4 Private Limited is annexed to this letter:

S. No	Name
1.	33 KV XLPE, AL, Ar, O/G Cable (3CX240 Sq.mm) from Proposed 33/400 KV Pooling Substation of GSECL Solar Park (South Block) Village Khavda, Distt. Kachchh, Gujarat to Proposed Solar Feeder (P4-F1-50MW) of SAEL Solar P4 Pvt. Ltd. Comprising (4 x 0.66/33 KV, 13.2 MVA & 1 x 0.66/33kV, 3.3 MVA) Inverter Duty Transformer and (1 x .415/33kV, 40 kVA) Aux transformer of (Block 1,2,3,4,5) located at 400 MW Solar Power Plant of M/s SAEL Solar P4 Private Ltd. Village Khavda, Tehsil Bhuj, District- Kachchh, Gujarat. (Length 6.54 Kms).
2.	33 KV XLPE, AL, Ar, O/G Cable (3CX240 Sq.mm) from Proposed 33/400 KV Pooling Substation of GSECL Solar Park (South Block) Village Khavda, Distt. Kachchh, Gujarat to Proposed Solar Feeder (P4-F2-50MW) of SAEL Solar P4 Pvt. Ltd. Comprising (4 x 0.66/33 KV, 13.2 MVA & 1 x 0.66/33kV, 3.3 MVA) Inverter Duty Transformer of (Block 6,7,8,9,10) located at 400 MW Solar Power Plant of M/s SAEL Solar P4 Private Ltd. Village Khavda, Tehsil Bhuj, District- Kachchh, Gujarat. (Length 8.685 Kms).
3.	33 KV XLPE, AL, Ar, O/G Cable (3CX240 Sq.mm) from Proposed 33/400 KV Pooling Substation of GSECL Solar Park (South Block) Village Khavda, Distt. Kachchh, Gujarat to Proposed Solar Feeder (P5-F1-50MW) of SAEL Solar P4 Pvt. Ltd. Comprising (4 x 0.66/33 KV, 13.2 MVA & 1 x 0.66/33kV, 3.3 MVA) Inverter Duty Transformer and (1 x .415/33kV, 160 kVA) Aux transformer of (Block 11,12,13,14,15) located at 400 MW Solar Power Plant of M/s SAEL Solar P4 Private Ltd. Village Khavda, Tehsil Bhuj, District- Kachchh, Gujarat. (Line Length Approx. 6.353 Kms).
4.	33 KV XLPE, AL, Ar, O/G Cable (3CX240 Sq.mm) from Proposed 33/400 KV Pooling Substation of GSECL Solar Park (South Block) Village

	Khavda, Distt. Kachchh, Gujarat to Proposed Solar Feeder (P5-F2-50MW) of SAEL Solar P4 Pvt. Ltd. Comprising (4 x 0.66/33 KV, 13.2 MVA & 1 x 0.66/33kV, 3.3 MVA) Inverter Duty Transformer of (Block 16,17,18,19,20) located at 400 MW Solar Power Plant of M/s SAEL Solar P4 Private Ltd. Village Khavda, Tehsil Bhuj, District- Kachchh, Gujarat. (Length 8.388 Kms).
5.	33 KV XLPE, AL, Ar, O/G Cable (3CX240 Sq.mm) from Proposed 33/400 KV Pooling Substation of GSECL Solar Park (South Block) Village Khavda, Distt. Kachchh, Gujarat to Proposed Solar Feeder (P6-F1-50MW) of SAEL Solar P4 Pvt. Ltd. Comprising (4 x 0.66/33 KV, 13.2 MVA & 1 x 0.66/33kV, 3.3 MVA) Inverter Duty Transformer and (1 x .415/33kV, 40 kVA) Aux transformer of (Block 21,22,23,24,25) located at 400 MW Solar Power Plant of M/s SAEL Solar P4 Private Ltd. Village Khavda, Tehsil Bhuj, District- Kachchh, Gujarat. (Length 6.507 Kms).
6.	33 KV XLPE, AL, Ar, O/G Cable (3CX240 Sq.mm) from Proposed 33/400 KV Pooling Substation of GSECL Solar Park (South Block) Village Khavda, Distt. Kachchh, Gujarat to Proposed Solar Feeder (P6-F2-50MW) of SAEL Solar P4 Pvt. Ltd. Comprising (4 x 0.66/33 KV, 13.2 MVA & 1 x 0.66/33kV, 3.3 MVA) Inverter Duty Transformer of (Block 26,29,30,39,40) located at 400 MW Solar Power Plant of M/s SAEL Solar P4 Private Ltd. Village Khavda, Tehsil Bhuj, District- Kachchh, Gujarat. (Length 11.715 Kms).
7.	33 KV XLPE, AL, Ar, O/G Cable (3CX240 Sq.mm) from Proposed 33/400 KV Pooling Substation of GSECL Solar Park (South Block) Village Khavda, Distt. Kachchh, Gujarat to Proposed Solar Feeder (P7-F1-50MW) of SAEL Solar P4 Pvt. Ltd. Comprising (4 x 0.66/33 KV, 13.2 MVA & 1 x 0.66/33kV, 3.3 MVA) Inverter Duty Transformer and (1 x .415/33kV, 40 kVA) Aux transformer of (Block 31,32,33,34,35) located at 400 MW Solar Power Plant of M/s SAEL Solar P4 Private Ltd. Village Khavda, Tehsil Bhuj, District- Kachchh, Gujarat. (Length 7.09 Kms).
8.	33 KV XLPE, AL, Ar, O/G Cable (3CX240 Sq.mm) from Proposed 33/400 KV Pooling Substation of GSECL Solar Park (South Block) Village Khavda, Distt. Kachchh, Gujarat to Proposed Solar Feeder (P7-F2-50MW) of SAEL Solar P4 Pvt. Ltd. Comprising (4 x 0.66/33 KV, 13.2 MVA & 1 x 0.66/33kV, 3.3 MVA) Inverter Duty Transformer of (Block 36, 37, 38, 27, 28) located at 400 MW Solar Power Plant of M/s SAEL Solar P4 Private Ltd. Village Khavda, Tehsil Bhuj, District- Kachchh, Gujarat. (Length 4.334 Kms).
9.	33 KV XLPE, AL, Ar, O/G Cable (1C X630 Sq.mm) from Proposed 33/400 KV Pooling Substation of GSECL Solar Park (South Block) Village Khavda, Distt. Kachchh, Gujarat to Proposed Solar Feeder (P4-F1-50MW) of SAEL Solar P4 Pvt. Ltd. of (P4-F1 to GSECL Feeder No. 33kV SAEL P4-S 04A, Switchgear No. 7, Bay No. 411) located at 400 MW Solar Power Plant of M/s SAEL Solar P4 Private Ltd. Village Khavda, Tehsil Bhuj, District- Kachchh, Gujarat. (Length29.502 Kms).
10.	33 KV XLPE, AL, Ar, O/G Cable (1C X630 Sq.mm) from Proposed 33/400 KV Pooling Substation of GSECL Solar Park (South Block) Village Khavda, Distt. Kachchh, Gujarat to Proposed Solar Feeder (P4-F2-50MW) of SAEL Solar P4 Pvt. Ltd. of (P4-F2 to GSECL Feeder No. 33kV SAEL P4-S 04B, Switchgear No. 7, Bay No. 411) located at 400 MW Solar Power Plant of M/s SAEL Solar P4 Private Ltd. Village Khavda, Tehsil Bhuj, District- Kachchh, Gujarat. (Length 29.502 Kms).

11.	33 KV XLPE, AL, Ar, O/G Cable (1C X630 Sq.mm) from Proposed 33/400 KV Pooling Substation of GSECL Solar Park (South Block) Village Khavda, Distt. Kachchh, Gujarat to Proposed Solar Feeder (P5-F1-50MW) of SAEL Solar P4 Pvt. Ltd. of (P5-F1 to GSECL Feeder No. 33kV SAEL P4-S 05A, Switchgear No. 6, Bay No. 410) located at 400 MW Solar Power Plant of M/s SAEL Solar P4 Private Ltd. Village Khavda, Tehsil Bhuj, District- Kachchh, Gujarat. (Length34.32 Kms).
12.	33 KV XLPE, AL, Ar, O/G Cable (1C X630 Sq.mm) from Proposed 33/400 KV Pooling Substation of GSECL Solar Park (South Block) Village Khavda, Distt. Kachchh, Gujarat to Proposed Solar Feeder (P5-F2-50MW) of SAEL Solar P4 Pvt. Ltd. of (P5-F2 to GSECL Feeder No. 33kV SAEL P4-S 05B, Switchgear No. 6, Bay No. 410) located at 400 MW Solar Power Plant of M/s SAEL Solar P4 Private Ltd. Village Khavda, Tehsil Bhuj, District- Kachchh, Gujarat. (Length 34.32 Kms).
13.	33 KV XLPE, AL, Ar, O/G Cable (1C X630 Sq.mm) from Proposed 33/400 KV Pooling Substation of GSECL Solar Park (South Block) Village Khavda, Distt. Kachchh, Gujarat to Proposed Solar Feeder (P6-F1-50MW) of SAEL Solar P4 Pvt. Ltd. of (P6-F1 to GSECL Feeder No. 33kV SAEL P4-S 06A, Switchgear No. 6, Bay No. 410) located at 400 MW Solar Power Plant of M/s SAEL Solar P4 Private Ltd. Village Khavda, Tehsil Bhuj, District- Kachchh, Gujarat. (Length . 39.204 Kms).
14.	33 KV XLPE, AL, Ar, O/G Cable (1C X630 Sq.mm) from Proposed 33/400 KV Pooling Substation of GSECL Solar Park (South Block) Village Khavda, Distt. Kachchh, Gujarat to Proposed Solar Feeder (P6-F2-50MW) of SAEL Solar P4 Pvt. Ltd. of (P6-F2 to GSECL Feeder No. 33kV SAEL P4-S 06B, Switchgear No. 6, Bay No. 410) located at 400 MW Solar Power Plant of M/s SAEL Solar P4 Private Ltd. Village Khavda, Tehsil Bhuj, District- Kachchh, Gujarat. (Length 39.204 Kms).
15.	33 KV XLPE, AL, Ar, O/G Cable (1C X630 Sq.mm) from Proposed 33/400 KV Pooling Substation of GSECL Solar Park (South Block) Village Khavda, Distt. Kachchh, Gujarat to Proposed Solar Feeder (P7-F1-50MW) of SAEL Solar P4 Pvt. Ltd. of (P7-F1 to GSECL Feeder No. 33kV SAEL P4-S 07A, Switchgear No. 6, Bay No. 410) located at 400 MW Solar Power Plant of M/s SAEL Solar P4 Private Ltd. Village Khavda, Tehsil Bhuj, District- Kachchh, Gujarat. (Length 51.398 Kms).
16.	33 KV XLPE, AL, Ar, O/G Cable (1C X630 Sq.mm) from Proposed 33/400 KV Pooling Substation of GSECL Solar Park (South Block) Village Khavda, Distt. Kachchh, Gujarat to Proposed Solar Feeder (P7-F2-50MW) of SAEL Solar P4 Pvt. Ltd. of (P7-F2 to GSECL Feeder No. 33kV SAEL P4-S 07B, Switchgear No. 6, Bay No. 410) located at 400 MW Solar Power Plant of M/s SAEL Solar P4 Private Ltd. Village Khavda, Tehsil Bhuj, District- Kachchh, Gujarat. (Length 44.055 Kms).

Signed by Suman Kumar Maharana
Date: 21-11-2025 15:22:25
Chief Engineer

1.	M/s SAEL Solar P4 Private Limited	3rd Floor, Worldmark-1, Aerocity, New Delhi – 110037

CEA Case No.: **GUJ-1039-F1**

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 XLPE, AL, Ar, O/G Cable (3CX240 Sq.mm) from Proposed 33/400 KV Pooling Substation of GSECL Solar Park (South Block) Village Khavda, Distt. Kachchh, Gujarat to Proposed Solar Feeder (P4-F1-50MW) of SAEL Solar P4 Pvt. Ltd. Comprising (4 x 0.66/33 KV, 13.2 MVA & 1 x 0.66/33kV, 3.3 MVA) Inverter Duty Transformer and (1 x .415/33kV, 40 kVA) Aux transformer of (Block 1,2,3,4,5) located at 400 MW Solar Power Plant of M/s SAEL Solar P4 Private Ltd. Village Khavda, Tehsil Bhuj, District-Kachchh, Gujarat. (Length 6.54 Kms)** particulars of which are given in Annexure I.

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

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

9. The later entrant in the field shall bear the entire cost of providing GD tubes and their fitting as recommended by PTCC, including 15% spares and/or any other protective measures as recommended by PTCC.
10. The route approval shall be subject to special conditions as laid down under Annexure II.

Annexure I

1		
(a)	Name of the Power Supply authority seeking approval	M/s SAEL Solar P4 Private Limited
(b)	Reference number & date:	CEA/PTCC/SAEL SOLAR P4-33KV/17Nos. FEEDERS/08/2025 dated 25.08.2025 E-mail dated 18.11.2025
(c)	Name of the Power line	33 KV XLPE, AL, Ar, O/G Cable (3CX240 Sq.mm) from Proposed 33/400 KV Pooling Substation of GSECL Solar Park (South Block) Village Khavda, Distt. Kachchh, Gujarat to Proposed Solar Feeder (P4-F1-50MW) of SAEL Solar P4 Pvt. Ltd. Comprising (4 x 0.66/33 KV, 13.2 MVA & 1 x 0.66/33kV, 3.3 MVA) Inverter Duty Transformer and (1 x .415/33kV, 40 kVA) Aux transformer of (Block 1,2,3,4,5) located at 400 MW Solar Power Plant of M/s SAEL Solar P4 Private Ltd. Village Khavda, Tehsil Bhuj, District- Kachchh, Gujarat. (Length 6.54 Kms).
(d)	Length of Power line:	6.54 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:	10,000 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 XLPE, AL, Ar, O/G Cable (3CX240 Sq.mm) from Proposed 33/400 KV Pooling Substation of GSECL Solar Park (South Block) Village Khavda, Distt. Kachchh, Gujarat to Proposed Solar Feeder (P4-F1-50MW) of SAEL Solar P4 Pvt. Ltd. Comprising (4 x 0.66/33 KV, 13.2 MVA & 1 x 0.66/33kV, 3.3 MVA) Inverter Duty Transformer and (1 x .415/33kV, 40 kVA) Aux transformer of (Block 1,2,3,4,5) located at 400 MW Solar Power Plant of M/s SAEL Solar P4 Private Ltd. Village Khavda, Tehsil Bhuj, District- Kachchh, Gujarat. (Length 6.54 Kms).

1. **Railway Telecom Details:**
   Deputy CSTE/ Tele Western Railway vide letter SG.158/28/121641 dated 15.10.2025 has issued their NOC.

2. EPR zone for the proposed substation is mentioned below:

Name of the proposed Substation	Half diagonal distance, D/2 (mts)	Fault Current I (KA)	Resistance of Earth Mat, R (ohms)	d (mts) at 430 V	d (mts) at 650 V	d (mts) at 7kV	d (mts) at 10kV
33/400 KV Pooling Substation of GSECL Solar Park (South Block) Village Khavda, Distt. Kachchh	112.25	63	0.001	NA	NA	NA	NA
IDT	23.38	25	0.001872	NA	NA	NA	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.

CEA Case No.: **GUJ-1039-F2**

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 XLPE, AL, Ar, O/G Cable (3CX240 Sq.mm) from Proposed 33/400 KV Pooling Substation of GSECL Solar Park (South Block) Village Khavda, Distt. Kachchh, Gujarat to Proposed Solar Feeder (P4-F2-50MW) of SAEL Solar P4 Pvt. Ltd. Comprising (4 x 0.66/33 KV, 13.2 MVA & 1 x 0.66/33kV, 3.3 MVA) Inverter Duty Transformer of (Block 6,7,8,9,10) located at 400 MW Solar Power Plant of M/s SAEL Solar P4 Private Ltd. Village Khavda, Tehsil Bhuj, District- Kachchh, Gujarat. (Length 8.685 Kms)** particulars of which are given in Annexure III.

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

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

9. The later entrant in the field shall bear the entire cost of providing GD tubes and their fitting as recommended by PTCC, including 15% spares and/or any other protective measures as recommended by PTCC.
10. The route approval shall be subject to special conditions as laid down under Annexure IV.

Annexure III

1		
(a)	Name of the Power Supply authority seeking approval	M/s SAEL Solar P4 Private Limited
(b)	Reference number & date:	CEA/PTCC/SAEL SOLAR P4-33KV/17Nos. FEEDERS/08/2025 dated 25.08.2025 E-mail dated 18.11.2025
(c)	Name of the Power line	33 KV XLPE, AL, Ar, O/G Cable (3CX240 Sq.mm) from Proposed 33/400 KV Pooling Substation of GSECL Solar Park (South Block) Village Khavda, Distt. Kachchh, Gujarat to Proposed Solar Feeder (P4-F2-50MW) of SAEL Solar P4 Pvt. Ltd. Comprising (4 x 0.66/33 KV, 13.2 MVA & 1 x 0.66/33kV, 3.3 MVA) Inverter Duty Transformer of (Block 6,7,8,9,10) located at 400 MW Solar Power Plant of M/s SAEL Solar P4 Private Ltd. Village Khavda, Tehsil Bhuj, District- Kachchh, Gujarat. (Length 8.685 Kms).
(d)	Length of Power line:	8.685 kms
(e)	Operating Voltage	33 kV
(f)	Number of circuits	1
2		
(a)	Names of parallel telecom lines:	As per Annexure-IV
(b)	Length of parallelism:	As per Annexure-IV
3	Average value of earth resistivity in the region:	10,000 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 XLPE, AL, Ar, O/G Cable (3CX240 Sq.mm) from Proposed 33/400 KV Pooling Substation of GSECL Solar Park (South Block) Village Khavda, Distt. Kachchh, Gujarat to Proposed Solar Feeder (P4-F2-50MW) of SAEL Solar P4 Pvt. Ltd. Comprising (4 x 0.66/33 KV, 13.2 MVA & 1 x 0.66/33kV, 3.3 MVA) Inverter Duty Transformer of (Block 6,7,8,9,10) located at 400 MW Solar Power Plant of M/s SAEL Solar P4 Private Ltd. Village Khavda, Tehsil Bhuj, District- Kachchh, Gujarat. (Length 8.685 Kms).

1. **Railway Telecom Details:**
   Deputy CSTE/ Tele Western Railway vide letter SG.158/28/121641 dated 15.10.2025 has issued their NOC.

2. EPR zone for the proposed substation is mentioned below:

Name of the proposed Substation	Half diagonal distance, D/2 (mts)	Fault Current I (KA)	Resistance of Earth Mat, R (ohms)	d (mts) at 430 V	d (mts) at 650 V	d (mts) at 7kV	d (mts) at 10kV
33/400 KV Pooling Substation of GSECL Solar Park (South Block) Village Khavda, Distt. Kachchh	112.25	63	0.001	NA	NA	NA	NA
IDT	23.38	25	0.001872	NA	NA	NA	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.

CEA Case No.: **GUJ-1039-F3**

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 XLPE, AL, Ar, O/G Cable (3CX240 Sq.mm) from Proposed 33/400 KV Pooling Substation of GSECL Solar Park (South Block) Village Khavda, Distt. Kachchh, Gujarat to Proposed Solar Feeder (P5-F1-50MW) of SAEL Solar P4 Pvt. Ltd. Comprising (4 x 0.66/33 KV, 13.2 MVA & 1 x 0.66/33kV, 3.3 MVA) Inverter Duty Transformer and (1 x .415/33kV, 160 kVA) Aux transformer of (Block 11,12,13,14,15) located at 400 MW Solar Power Plant of M/s SAEL Solar P4 Private Ltd. Village Khavda, Tehsil Bhuj, District-Kachchh, Gujarat. (Length 6.353 Kms)** particulars of which are given in AnnexureV.

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

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

9. The later entrant in the field shall bear the entire cost of providing GD tubes and their fitting as recommended by PTCC, including 15% spares and/or any other protective measures as recommended by PTCC.
10. The route approval shall be subject to special conditions as laid down under Annexure VI.

Annexure V

1		
(a)	Name of the Power Supply authority seeking approval	M/s SAEL Solar P4 Private Limited
(b)	Reference number & date:	CEA/PTCC/SAEL SOLAR P4-33KV/17Nos. FEEDERS/08/2025 dated 25.08.2025 E-mail dated 18.11.2025
(c)	Name of the Power line	33 KV XLPE, AL, Ar, O/G Cable (3CX240 Sq.mm) from Proposed 33/400 KV Pooling Substation of GSECL Solar Park (South Block) Village Khavda, Distt. Kachchh, Gujarat to Proposed Solar Feeder (P5-F1-50MW) of SAEL Solar P4 Pvt. Ltd. Comprising (4 x 0.66/33 KV, 13.2 MVA & 1 x 0.66/33kV, 3.3 MVA) Inverter Duty Transformer and (1 x .415/33kV, 160 kVA) Aux transformer of (Block 11,12,13,14,15) located at 400 MW Solar Power Plant of M/s SAEL Solar P4 Private Ltd. Village Khavda, Tehsil Bhuj, District- Kachchh, Gujarat. (Length 6.353 Kms).
(d)	Length of Power line:	6.353 kms
(e)	Operating Voltage	33 kV
(f)	Number of circuits	1
2		
(a)	Names of parallel telecom lines:	As per Annexure-VI
(b)	Length of parallelism:	As per Annexure-VI
3	Average value of earth resistivity in the region:	10,000 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 XLPE, AL, Ar, O/G Cable (3CX240 Sq.mm) from Proposed 33/400 KV Pooling Substation of GSECL Solar Park (South Block) Village Khavda, Distt. Kachchh, Gujarat to Proposed Solar Feeder (P5-F1-50MW) of SAEL Solar P4 Pvt. Ltd. Comprising (4 x 0.66/33 KV, 13.2 MVA & 1 x 0.66/33kV, 3.3 MVA) Inverter Duty Transformer and (1 x .415/33kV, 160 kVA) Aux transformer of (Block 11,12,13,14,15) located at 400 MW Solar Power Plant of M/s SAEL Solar P4 Private Ltd. Village Khavda, Tehsil Bhuj, District-Kachchh, Gujarat. (Length 6.353 Kms)

1. **Railway Telecom Details:**
   Deputy CSTE/ Tele Western Railway vide letter SG.158/28/121641 dated 15.10.2025 has issued their NOC.

2. EPR zone for the proposed substation is mentioned below:

Name of the proposed Substation	Half diagonal distance , D/2 (mts)	Fault Current I (KA)	Resistance of Earth Mat, R (ohms)	d (mts) at 430 V	d (mts) at 650 V	d (mts) at 7kV	d (mts) at 10kV
33/400 KV Pooling Substation of GSECL Solar Park (South Block) Village Khavda, Distt. Kachchh	112.25	63	0.001	NA	NA	NA	NA
IDT	23.38	25	0.001872	NA	NA	NA	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.

CEA Case No.: **GUJ-1039-F4**

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 XLPE, AL, Ar, O/G Cable (3CX240 Sq.mm) from Proposed 33/400 KV Pooling Substation of GSECL Solar Park (South Block) Village Khavda, Distt. Kachchh, Gujarat to Proposed Solar Feeder (P5-F2-50MW) of SAEL Solar P4 Pvt. Ltd. Comprising (4 x 0.66/33 KV, 13.2 MVA & 1 x 0.66/33kV, 3.3 MVA) Inverter Duty Transformer of (Block 16,17,18,19,20) located at 400 MW Solar Power Plant of M/s SAEL Solar P4 Private Ltd. Village Khavda, Tehsil Bhuj, District- Kachchh, Gujarat. (Length 8.388 Kms)** particulars of which are given in Annexure-VII.

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

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

9. The later entrant in the field shall bear the entire cost of providing GD tubes and their fitting as recommended by PTCC, including 15% spares and/or any other protective measures as recommended by PTCC.
10. The route approval shall be subject to special conditions as laid down under Annexure VIII.

Annexure VII

1		
(a)	Name of the Power Supply authority seeking approval	M/s SAEL Solar P4 Private Limited
(b)	Reference number & date:	CEA/PTCC/SAEL SOLAR P4-33KV/17Nos. FEEDERS/08/2025 dated 25.08.2025 E-mail dated 18.11.2025
(c)	Name of the Power line	33 KV XLPE, AL, Ar, O/G Cable (3CX240 Sq.mm) from Proposed 33/400 KV Pooling Substation of GSECL Solar Park (South Block) Village Khavda, Distt. Kachchh, Gujarat to Proposed Solar Feeder (P5-F2-50MW) of SAEL Solar P4 Pvt. Ltd. Comprising (4 x 0.66/33 KV, 13.2 MVA & 1 x 0.66/33kV, 3.3 MVA) Inverter Duty Transformer of (Block 16,17,18,19,20) located at 400 MW Solar Power Plant of M/s SAEL Solar P4 Private Ltd. Village Khavda, Tehsil Bhuj, District- Kachchh, Gujarat. (Length 8.388 Kms)
(d)	Length of Power line:	8.388 kms
(e)	Operating Voltage	33 kV
(f)	Number of circuits	1
2		
(a)	Names of parallel telecom lines:	As per Annexure-VIII
(b)	Length of parallelism:	As per Annexure-VIII
3	Average value of earth resistivity in the region:	10,000 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 XLPE, AL, Ar, O/G Cable (3CX240 Sq.mm) from Proposed 33/400 KV Pooling Substation of GSECL Solar Park (South Block) Village Khavda, Distt. Kachchh, Gujarat to Proposed Solar Feeder (P5-F2-50MW) of SAEL Solar P4 Pvt. Ltd. Comprising (4 x 0.66/33 KV, 13.2 MVA & 1 x 0.66/33kV, 3.3 MVA) Inverter Duty Transformer of (Block 16,17,18,19,20) located at 400 MW Solar Power Plant of M/s SAEL Solar P4 Private Ltd. Village Khavda, Tehsil Bhuj, District- Kachchh, Gujarat. (Length 8.388 Kms).

1. **Railway Telecom Details:**
   Deputy CSTE/ Tele Western Railway vide letter SG.158/28/121641 dated 15.10.2025 has issued their NOC.

2. EPR zone for the proposed substation is mentioned below:

Name of the proposed Substation	Half diagonal distance, D/2 (mts)	Fault Current I (KA)	Resistance of Earth Mat, R (ohms)	d (mts) at 430 V	d (mts) at 650 V	d (mts) at 7kV	d (mts) at 10kV
33/400 KV Pooling Substation of GSECL Solar Park (South Block) Village Khavda, Distt. Kachchh	112.25	63	0.001	NA	NA	NA	NA
IDT	23.38	25	0.001872	NA	NA	NA	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.

CEA Case No.: **GUJ-1039-F5**

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 XLPE, AL, Ar, O/G Cable (3CX240 Sq.mm) from Proposed 33/400 KV Pooling Substation of GSECL Solar Park (South Block) Village Khavda, Distt. Kachchh, Gujarat to Proposed Solar Feeder (P6-F1-50MW) of SAEL Solar P4 Pvt. Ltd. Comprising (4 x 0.66/33 KV, 13.2 MVA & 1 x 0.66/33kV, 3.3 MVA) Inverter Duty Transformer and (1 x .415/33kV, 40 kVA) Aux transformer of (Block 21,22,23,24,25) located at 400 MW Solar Power Plant of M/s SAEL Solar P4 Private Ltd. Village Khavda, Tehsil Bhuj, District-Kachchh, Gujarat. (Length 6.507 Kms)** particulars of which are given in Annexure-IX.

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

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

9. The later entrant in the field shall bear the entire cost of providing GD tubes and their fitting as recommended by PTCC, including 15% spares and/or any other protective measures as recommended by PTCC.
10. The route approval shall be subject to special conditions as laid down under Annexure X.

Annexure IX

1		
(a)	Name of the Power Supply authority seeking approval	M/s SAEL Solar P4 Private Limited
(b)	Reference number & date:	CEA/PTCC/SAEL SOLAR P4-33KV/17Nos. FEEDERS/08/2025 dated 25.08.2025 E-mail dated 18.11.2025
(c)	Name of the Power line	33 KV XLPE, AL, Ar, O/G Cable (3CX240 Sq.mm) from Proposed 33/400 KV Pooling Substation of GSECL Solar Park (South Block) Village Khavda, Distt. Kachchh, Gujarat to Proposed Solar Feeder (P6-F1-50MW) of SAEL Solar P4 Pvt. Ltd. Comprising (4 x 0.66/33 KV, 13.2 MVA & 1 x 0.66/33kV, 3.3 MVA) Inverter Duty Transformer and (1 x .415/33kV, 40 kVA) Aux transformer of (Block 21,22,23,24,25) located at 400 MW Solar Power Plant of M/s SAEL Solar P4 Private Ltd. Village Khavda, Tehsil Bhuj, District- Kachchh, Gujarat. (Length 6.507 Kms)
(d)	Length of Power line:	6.507 kms
(e)	Operating Voltage	33 kV
(f)	Number of circuits	1
2		
(a)	Names of parallel telecom lines:	As per Annexure-X
(b)	Length of parallelism:	As per Annexure-X
3	Average value of earth resistivity in the region:	10,000 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 XLPE, AL, Ar, O/G Cable (3CX240 Sq.mm) from Proposed 33/400 KV Pooling Substation of GSECL Solar Park (South Block) Village Khavda, Distt. Kachchh, Gujarat to Proposed Solar Feeder (P6-F1-50MW) of SAEL Solar P4 Pvt. Ltd. Comprising (4 x 0.66/33 KV, 13.2 MVA & 1 x 0.66/33kV, 3.3 MVA) Inverter Duty Transformer and (1 x .415/33kV, 40 kVA) Aux transformer of (Block 21,22,23,24,25) located at 400 MW Solar Power Plant of M/s SAEL Solar P4 Private Ltd. Village Khavda, Tehsil Bhuj, District-Kachchh, Gujarat. (Length 6.507 Kms)

1. **Railway Telecom Details:**
   Deputy CSTE/ Tele Western Railway vide letter SG.158/28/121641 dated 15.10.2025 has issued their NOC.

2. EPR zone for the proposed substation is mentioned below:

Name of the proposed Substation	Half diagonal distance, D/2 (mts)	Fault Current I (KA)	Resistance of Earth Mat, R (ohms)	d (mts) at 430 V	d (mts) at 650 V	d (mts) at 7kV	d (mts) at 10kV
33/400 KV Pooling Substation of GSECL Solar Park (South Block) Village Khavda, Distt. Kachchh	112.25	63	0.001	NA	NA	NA	NA
IDT	23.38	25	0.001872	NA	NA	NA	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.

CEA Case No.: **GUJ-1039-F6**

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 XLPE, AL, Ar, O/G Cable (3CX240 Sq.mm) from Proposed 33/400 KV Pooling Substation of GSECL Solar Park (South Block) Village Khavda, Distt. Kachchh, Gujarat to Proposed Solar Feeder (P6-F2-50MW) of SAEL Solar P4 Pvt. Ltd. Comprising (4 x 0.66/33 KV, 13.2 MVA & 1 x 0.66/33kV, 3.3 MVA) Inverter Duty Transformer of (Block 26,29,30,39,40) located at 400 MW Solar Power Plant of M/s SAEL Solar P4 Private Ltd. Village Khavda, Tehsil Bhuj, District- Kachchh, Gujarat (Length 11.715 Kms)** particulars of which are given in Annexure-XI.

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

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

9. The later entrant in the field shall bear the entire cost of providing GD tubes and their fitting as recommended by PTCC, including 15% spares and/or any other protective measures as recommended by PTCC.
10. The route approval shall be subject to special conditions as laid down under Annexure XII.

Annexure XI

1		
(a)	Name of the Power Supply authority seeking approval	M/s SAEL Solar P4 Private Limited
(b)	Reference number & date:	CEA/PTCC/SAEL SOLAR P4-33KV/17Nos. FEEDERS/08/2025 dated 25.08.2025 E-mail dated 18.11.2025
(c)	Name of the Power line	33 KV XLPE, AL, Ar, O/G Cable (3CX240 Sq.mm) from Proposed 33/400 KV Pooling Substation of GSECL Solar Park (South Block) Village Khavda, Distt. Kachchh, Gujarat to Proposed Solar Feeder (P6-F2-50MW) of SAEL Solar P4 Pvt. Ltd. Comprising (4 x 0.66/33 KV, 13.2 MVA & 1 x 0.66/33kV, 3.3 MVA) Inverter Duty Transformer of (Block 26,29,30,39,40) located at 400 MW Solar Power Plant of M/s SAEL Solar P4 Private Ltd. Village Khavda, Tehsil Bhuj, District- Kachchh, Gujarat (Length 11.715 Kms)
(d)	Length of Power line:	11.715 kms
(e)	Operating Voltage	33 kV
(f)	Number of circuits	1
2		
(a)	Names of parallel telecom lines:	As per Annexure-XII
(b)	Length of parallelism:	As per Annexure-XII
3	Average value of earth resistivity in the region:	10,000 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 XLPE, AL, Ar, O/G Cable (3CX240 Sq.mm) from Proposed 33/400 KV Pooling Substation of GSECL Solar Park (South Block) Village Khavda, Distt. Kachchh, Gujarat to Proposed Solar Feeder (P6-F2-50MW) of SAEL Solar P4 Pvt. Ltd. Comprising (4 x 0.66/33 KV, 13.2 MVA & 1 x 0.66/33kV, 3.3 MVA) Inverter Duty Transformer of (Block 26,29,30,39,40) located at 400 MW Solar Power Plant of M/s SAEL Solar P4 Private Ltd. Village Khavda, Tehsil Bhuj, District- Kachchh, Gujarat (Length 11.715 Kms)

1. **Railway Telecom Details:**
   Deputy CSTE/ Tele Western Railway vide letter SG.158/28/121641 dated 15.10.2025 has issued their NOC.

2. EPR zone for the proposed substation is mentioned below:

Name of the proposed Substation	Half diagonal distance, D/2 (mts)	Fault Current I (KA)	Resistance of Earth Mat, R (ohms)	d (mts) at 430 V	d (mts) at 650 V	d (mts) at 7kV	d (mts) at 10kV
33/400 KV Pooling Substation of GSECL Solar Park (South Block) Village Khavda, Distt. Kachchh	112.25	63	0.001	NA	NA	NA	NA
IDT	23.38	25	0.001872	NA	NA	NA	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.

CEA Case No.: **GUJ-1039-F7**

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 XLPE, AL, Ar, O/G Cable (3CX240 Sq.mm) from Proposed 33/400 KV Pooling Substation of GSECL Solar Park (South Block) Village Khavda, Distt. Kachchh, Gujarat to Proposed Solar Feeder (P7-F1-50MW) of SAEL Solar P4 Pvt. Ltd. Comprising (4 x 0.66/33 KV, 13.2 MVA & 1 x 0.66/33kV, 3.3 MVA) Inverter Duty Transformer and (1 x .415/33kV, 40 kVA) Aux transformer of (Block 31,32,33,34,35) located at 400 MW Solar Power Plant of M/s SAEL Solar P4 Private Ltd. Village Khavda, Tehsil Bhuj, District-Kachchh, Gujarat. (Length 7.09 Kms)** particulars of which are given in Annexure-XIII.

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

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

9. The later entrant in the field shall bear the entire cost of providing GD tubes and their fitting as recommended by PTCC, including 15% spares and/or any other protective measures as recommended by PTCC.
10. The route approval shall be subject to special conditions as laid down under Annexure XIV.

Annexure XIII

1		
(a)	Name of the Power Supply authority seeking approval	M/s SAEL Solar P4 Private Limited
(b)	Reference number & date:	CEA/PTCC/SAEL SOLAR P4-33KV/17Nos. FEEDERS/08/2025 dated 25.08.2025 E-mail dated 18.11.2025
(c)	Name of the Power line	33 KV XLPE, AL, Ar, O/G Cable (3CX240 Sq.mm) from Proposed 33/400 KV Pooling Substation of GSECL Solar Park (South Block) Village Khavda, Distt. Kachchh, Gujarat to Proposed Solar Feeder (P7-F1-50MW) of SAEL Solar P4 Pvt. Ltd. Comprising (4 x 0.66/33 KV, 13.2 MVA & 1 x 0.66/33kV, 3.3 MVA) Inverter Duty Transformer and (1 x .415/33kV, 40 kVA) Aux transformer of (Block 31,32,33,34,35) located at 400 MW Solar Power Plant of M/s SAEL Solar P4 Private Ltd. Village Khavda, Tehsil Bhuj, District- Kachchh, Gujarat. (Length 7.09 Kms)
(d)	Length of Power line:	7.09 kms
(e)	Operating Voltage	33 kV
(f)	Number of circuits	1
2		
(a)	Names of parallel telecom lines:	As per Annexure-XIV
(b)	Length of parallelism:	As per Annexure-XIV
3	Average value of earth resistivity in the region:	10,000 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 XLPE, AL, Ar, O/G Cable (3CX240 Sq.mm) from Proposed 33/400 KV Pooling Substation of GSECL Solar Park (South Block) Village Khavda, Distt. Kachchh, Gujarat to Proposed Solar Feeder (P7-F1-50MW) of SAEL Solar P4 Pvt. Ltd. Comprising (4 x 0.66/33 KV, 13.2 MVA & 1 x 0.66/33kV, 3.3 MVA) Inverter Duty Transformer and (1 x .415/33kV, 40 kVA) Aux transformer of (Block 31,32,33,34,35) located at 400 MW Solar Power Plant of M/s SAEL Solar P4 Private Ltd. Village Khavda, Tehsil Bhuj, District-Kachchh, Gujarat (Length: 7.09 Kms)

1. **Railway Telecom Details:**
   Deputy CSTE/ Tele Western Railway vide letter SG.158/28/121641 dated 15.10.2025 has issued their NOC.

2. EPR zone for the proposed substation is mentioned below:

Name of the proposed Substation	Half diagonal distance, D/2 (mts)	Fault Current I (KA)	Resistance of Earth Mat, R (ohms)	d (mts) at 430 V	d (mts) at 650 V	d (mts) at 7kV	d (mts) at 10kV
33/400 KV Pooling Substation of GSECL Solar Park (South Block) Village Khavda, Distt. Kachchh	112.25	63	0.001	NA	NA	NA	NA
IDT	23.38	25	0.001872	NA	NA	NA	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.

CEA Case No.: **GUJ-1039-F8**

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 XLPE, AL, Ar, O/G Cable (3CX240 Sq.mm) from Proposed 33/400 KV Pooling Substation of GSECL Solar Park (South Block) Village Khavda, Distt. Kachchh, Gujarat to Proposed Solar Feeder (P7-F2-50MW) of SAEL Solar P4 Pvt. Ltd. Comprising (4 x 0.66/33 KV, 13.2 MVA & 1 x 0.66/33kV, 3.3 MVA) Inverter Duty Transformer of (Block 36, 37, 38, 27, 28) located at 400 MW Solar Power Plant of M/s SAEL Solar P4 Private Ltd. Village Khavda, Tehsil Bhuj, District- Kachchh, Gujarat. (Length 4.334 Kms)** particulars of which are given in Annexure-XV.

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

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

9. The later entrant in the field shall bear the entire cost of providing GD tubes and their fitting as recommended by PTCC, including 15% spares and/or any other protective measures as recommended by PTCC.
10. The route approval shall be subject to special conditions as laid down under Annexure XVI.

Annexure XV

1		
(a)	Name of the Power Supply authority seeking approval	M/s SAEL Solar P4 Private Limited
(b)	Reference number & date:	CEA/PTCC/SAEL SOLAR P4-33KV/17Nos. FEEDERS/08/2025 dated 25.08.2025 E-mail dated 18.11.2025
(c)	Name of the Power line	33 KV XLPE, AL, Ar, O/G Cable (3CX240 Sq.mm) from Proposed 33/400 KV Pooling Substation of GSECL Solar Park (South Block) Village Khavda, Distt. Kachchh, Gujarat to Proposed Solar Feeder (P7-F2-50MW) of SAEL Solar P4 Pvt. Ltd. Comprising (4 x 0.66/33 KV, 13.2 MVA & 1 x 0.66/33kV, 3.3 MVA) Inverter Duty Transformer of (Block 36, 37, 38, 27, 28) located at 400 MW Solar Power Plant of M/s SAEL Solar P4 Private Ltd. Village Khavda, Tehsil Bhuj, District- Kachchh, Gujarat. (Length 4.334 Kms)
(d)	Length of Power line:	4.334 kms
(e)	Operating Voltage	33 kV
(f)	Number of circuits	1
2		
(a)	Names of parallel telecom lines:	As per Annexure-XVI
(b)	Length of parallelism:	As per Annexure-XVI
3	Average value of earth resistivity in the region:	10,000 ohm-cms
4	Whether LF test necessary:	No
5	Special conditions subject to which this certificate will be effective	As per Annexure-XVI

Annexure XVI

Name of the Power Line: 33 KV XLPE, AL, Ar, O/G Cable (3CX240 Sq.mm) from Proposed 33/400 KV Pooling Substation of GSECL Solar Park (South Block) Village Khavda, Distt. Kachchh, Gujarat to Proposed Solar Feeder (P7-F2-50MW) of SAEL Solar P4 Pvt. Ltd. Comprising (4 x 0.66/33 KV, 13.2 MVA & 1 x 0.66/33kV, 3.3 MVA) Inverter Duty Transformer of (Block 36, 37, 38, 27, 28) located at 400 MW Solar Power Plant of M/s SAEL Solar P4 Private Ltd. Village Khavda, Tehsil Bhuj, District- Kachchh, Gujarat. (Length 4.334 Kms)

1. **Railway Telecom Details:**
   Deputy CSTE/ Tele Western Railway vide letter SG.158/28/121641 dated 15.10.2025 has issued their NOC.

2. EPR zone for the proposed substation is mentioned below:

Name of the proposed Substation	Half diagonal distance, D/2 (mts)	Fault Current I (KA)	Resistance of Earth Mat, R (ohms)	d (mts) at 430 V	d (mts) at 650 V	d (mts) at 7kV	d (mts) at 10kV
33/400 KV Pooling Substation of GSECL Solar Park (South Block) Village Khavda, Distt. Kachchh	112.25	63	0.001	NA	NA	NA	NA
IDT	23.38	25	0.001872	NA	NA	NA	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.

CEA Case No.: **GUJ-1039-F9**

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 XLPE, AL, Ar, O/G Cable (1C X630 Sq.mm) from Proposed 33/400 KV Pooling Substation of GSECL Solar Park (South Block) Village Khavda, Distt. Kachchh, Gujarat to Proposed Solar Feeder (P4-F1-50MW) of SAEL Solar P4 Pvt. Ltd. of (P4-F1 to GSECL Feeder No. 33kV SAEL P4-S 04A, Switchgear No. 7, Bay No. 411) located at 400 MW Solar Power Plant of M/s SAEL Solar P4 Private Ltd. Village Khavda, Tehsil Bhuj, District- Kachchh, Gujarat (Length 29.502 Kms)** particulars of which are given in Annexure-XVII.

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

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

10. The route approval shall be subject to special conditions as laid down under Annexure XVIII.

Annexure XVII

1		
(a)	Name of the Power Supply authority seeking approval	M/s SAEL Solar P4 Private Limited
(b)	Reference number & date:	CEA/PTCC/SAEL SOLAR P4-33KV/17Nos. FEEDERS/08/2025 dated 25.08.2025 E-mail dated 18.11.2025
(c)	Name of the Power line	33 KV XLPE, AL, Ar, O/G Cable (1C X630 Sq.mm) from Proposed 33/400 KV Pooling Substation of GSECL Solar Park (South Block) Village Khavda, Distt. Kachchh, Gujarat to Proposed Solar Feeder (P4-F1-50MW) of SAEL Solar P4 Pvt. Ltd. of (P4-F1 to GSECL Feeder No. 33kV SAEL P4-S 04A, Switchgear No. 7, Bay No. 411) located at 400 MW Solar Power Plant of M/s SAEL Solar P4 Private Ltd. Village Khavda, Tehsil Bhuj, District- Kachchh, Gujarat (Length 29.502 Kms)
(d)	Length of Power line:	29.502 kms
(e)	Operating Voltage	33 kV
(f)	Number of circuits	1
2		
(a)	Names of parallel telecom lines:	As per Annexure-XVIII
(b)	Length of parallelism:	As per Annexure-XVIII
3	Average value of earth resistivity in the region:	10,000 ohm-cms
4	Whether LF test necessary:	No
5	Special conditions subject to which this certificate will be effective	As per Annexure-XVIII

Annexure XVIII

Name of the Power Line: 33 KV XLPE, AL, Ar, O/G Cable (1C X630 Sq.mm) from Proposed 33/400 KV Pooling Substation of GSECL Solar Park (South Block) Village Khavda, Distt. Kachchh, Gujarat to Proposed Solar Feeder (P4-F1-50MW) of SAEL Solar P4 Pvt. Ltd. of (P4-F1 to GSECL Feeder No. 33kV SAEL P4-S 04A, Switchgear No. 7, Bay No. 411) located at 400 MW Solar Power Plant of M/s SAEL Solar P4 Private Ltd. Village Khavda, Tehsil Bhuj, District-Kachchh, Gujarat (Length 29.502 Kms)

1. **Railway Telecom Details:**
   Deputy CSTE/ Tele Western Railway vide letter SG.158/28/121641 dated 15.10.2025 has issued their NOC.

2. EPR zone for the proposed substation is mentioned below:

Name of the proposed Substation	Half diagonal distance, D/2 (mts)	Fault Current I (KA)	Resistance of Earth Mat, R (ohms)	d (mts) at 430 V	d (mts) at 650 V	d (mts) at 7kV	d (mts) at 10kV
33/400 KV Pooling Substation of GSECL Solar Park (South Block) Village Khavda, Distt. Kachchh	112.25	63	0.001	NA	NA	NA	NA
IDT	23.38	25	0.001872	NA	NA	NA	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.

CEA Case No.: **GUJ-1039-F10**

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 XLPE, AL, Ar, O/G Cable (1C X630 Sq.mm) from Proposed 33/400 KV Pooling Substation of GSECL Solar Park (South Block) Village Khavda, Distt. Kachchh, Gujarat to Proposed Solar Feeder (P4-F2-50MW) of SAEL Solar P4 Pvt. Ltd. of (P4-F2 to GSECL Feeder No. 33kV SAEL P4-S 04B, Switchgear No. 7, Bay No. 411) located at 400 MW Solar Power Plant of M/s SAEL Solar P4 Private Ltd. Village Khavda, Tehsil Bhuj, District- Kachchh, Gujarat. (Length 29.502 Kms)** particulars of which are given in Annexure-XIX.

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

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

10. The route approval shall be subject to special conditions as laid down under Annexure XX.

Annexure XIX

1		
(a)	Name of the Power Supply authority seeking approval	M/s SAEL Solar P4 Private Limited
(b)	Reference number & date:	CEA/PTCC/SAEL SOLAR P4-33KV/17Nos. FEEDERS/08/2025 dated 25.08.2025 E-mail dated 18.11.2025
(c)	Name of the Power line	33 KV XLPE, AL, Ar, O/G Cable (1C X630 Sq.mm) from Proposed 33/400 KV Pooling Substation of GSECL Solar Park (South Block) Village Khavda, Distt. Kachchh, Gujarat to Proposed Solar Feeder (P4-F2-50MW) of SAEL Solar P4 Pvt. Ltd. of (P4-F2 to GSECL Feeder No. 33kV SAEL P4-S 04B, Switchgear No. 7, Bay No. 411) located at 400 MW Solar Power Plant of M/s SAEL Solar P4 Private Ltd. Village Khavda, Tehsil Bhuj, District- Kachchh, Gujarat. (Length 29.502 Kms)
(d)	Length of Power line:	29.502 kms
(e)	Operating Voltage	33 kV
(f)	Number of circuits	1
2		
(a)	Names of parallel telecom lines:	As per Annexure-XX
(b)	Length of parallelism:	As per Annexure-XX
3	Average value of earth resistivity in the region:	10,000 ohm-cms
4	Whether LF test necessary:	No
5	Special conditions subject to which this certificate will be effective	As per Annexure-XX

Annexure XX

Name of the Power Line: 33 KV XLPE, AL, Ar, O/G Cable (1C X630 Sq.mm) from Proposed 33/400 KV Pooling Substation of GSECL Solar Park (South Block) Village Khavda, Distt. Kachchh, Gujarat to Proposed Solar Feeder (P4-F2-50MW) of SAEL Solar P4 Pvt. Ltd. of (P4-F2 to GSECL Feeder No. 33kV SAEL P4-S 04B, Switchgear No. 7, Bay No. 411) located at 400 MW Solar Power Plant of M/s SAEL Solar P4 Private Ltd. Village Khavda, Tehsil Bhuj, District-Kachchh, Gujarat. (Length 29.502 Kms)

1. **Railway Telecom Details:**
   Deputy CSTE/ Tele Western Railway vide letter SG.158/28/121641 dated 15.10.2025 has issued their NOC.

2. EPR zone for the proposed substation is mentioned below:

Name of the proposed Substation	Half diagonal distance, D/2 (mts)	Fault Current I (KA)	Resistance of Earth Mat, R (ohms)	d (mts) at 430 V	d (mts) at 650 V	d (mts) at 7kV	d (mts) at 10kV
33/400 KV Pooling Substation of GSECL Solar Park (South Block) Village Khavda, Distt. Kachchh	112.25	63	0.001	NA	NA	NA	NA
IDT	23.38	25	0.001872	NA	NA	NA	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.

CEA Case No.: **GUJ-1039-F11**

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 XLPE, AL, Ar, O/G Cable (1C X630 Sq.mm) from Proposed 33/400 KV Pooling Substation of GSECL Solar Park (South Block) Village Khavda, Distt. Kachchh, Gujarat to Proposed Solar Feeder (P5-F1-50MW) of SAEL Solar P4 Pvt. Ltd. of (P5-F1 to GSECL Feeder No. 33kV SAEL P4-S 05A, Switchgear No. 6, Bay No. 410) located at 400 MW Solar Power Plant of M/s SAEL Solar P4 Private Ltd. Village Khavda, Tehsil Bhuj, District- Kachchh, Gujarat. (Length 34.32 Kms)** particulars of which are given in Annexure-XXI.

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

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

9. The later entrant in the field shall bear the entire cost of providing GD tubes and their fitting as recommended by PTCC, including 15% spares and/or any other protective measures as recommended by PTCC.
10. The route approval shall be subject to special conditions as laid down under Annexure XXII.

Annexure XXI

1		
(a)	Name of the Power Supply authority seeking approval	M/s SAEL Solar P4 Private Limited
(b)	Reference number & date:	CEA/PTCC/SAEL SOLAR P4-33KV/17Nos. FEEDERS/08/2025 dated 25.08.2025 E-mail dated 18.11.2025
(c)	Name of the Power line	33 KV XLPE, AL, Ar, O/G Cable (1C X630 Sq.mm) from Proposed 33/400 KV Pooling Substation of GSECL Solar Park (South Block) Village Khavda, Distt. Kachchh, Gujarat to Proposed Solar Feeder (P5-F1-50MW) of SAEL Solar P4 Pvt. Ltd. of (P5-F1 to GSECL Feeder No. 33kV SAEL P4-S 05A, Switchgear No. 6, Bay No. 410) located at 400 MW Solar Power Plant of M/s SAEL Solar P4 Private Ltd. Village Khavda, Tehsil Bhuj, District- Kachchh, Gujarat. (Length 34.32 Kms)
(d)	Length of Power line:	34.32 kms
(e)	Operating Voltage	33 kV
(f)	Number of circuits	1
2		
(a)	Names of parallel telecom lines:	As per Annexure-XXII
(b)	Length of parallelism:	As per Annexure-XXII
3	Average value of earth resistivity in the region:	10,000 ohm-cms
4	Whether LF test necessary:	No
5	Special conditions subject to which this certificate will be effective	As per Annexure-XXII

Annexure XXII

Name of the Power Line: 33 KV XLPE, AL, Ar, O/G Cable (1C X630 Sq.mm) from Proposed 33/400 KV Pooling Substation of GSECL Solar Park (South Block) Village Khavda, Distt. Kachchh, Gujarat to Proposed Solar Feeder (P5-F1-50MW) of SAEL Solar P4 Pvt. Ltd. of (P5-F1 to GSECL Feeder No. 33kV SAEL P4-S 05A, Switchgear No. 6, Bay No. 410) located at 400 MW Solar Power Plant of M/s SAEL Solar P4 Private Ltd. Village Khavda, Tehsil Bhuj, District-Kachchh, Gujarat. (Length 34.32 Kms)

1. **Railway Telecom Details:**
   Deputy CSTE/ Tele Western Railway vide letter SG.158/28/121641 dated 15.10.2025 has issued their NOC.

2. EPR zone for the proposed substation is mentioned below:

Name of the proposed Substation	Half diagonal distance, D/2 (mts)	Fault Current I (KA)	Resistance of Earth Mat, R (ohms)	d (mts) at 430 V	d (mts) at 650 V	d (mts) at 7kV	d (mts) at 10kV
33/400 KV Pooling Substation of GSECL Solar Park (South Block) Village Khavda, Distt. Kachchh	112.25	63	0.001	NA	NA	NA	NA
IDT	23.38	25	0.001872	NA	NA	NA	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.

CEA Case No.: **GUJ-1039-F12**

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 XLPE, AL, Ar, O/G Cable (1C X630 Sq.mm) from Proposed 33/400 KV Pooling Substation of GSECL Solar Park (South Block) Village Khavda, Distt. Kachchh, Gujarat to Proposed Solar Feeder (P5-F2-50MW) of SAEL Solar P4 Pvt. Ltd. of (P5-F2 to GSECL Feeder No. 33kV SAEL P4-S 05B, Switchgear No. 6, Bay No. 410) located at 400 MW Solar Power Plant of M/s SAEL Solar P4 Private Ltd. Village Khavda, Tehsil Bhuj, District- Kachchh, Gujarat (Length 34.32 Kms)** particulars of which are given in Annexure-XXIII.

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

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

10. The route approval shall be subject to special conditions as laid down under Annexure XXIV.

Annexure XXIII

1		
(a)	Name of the Power Supply authority seeking approval	M/s SAEL Solar P4 Private Limited
(b)	Reference number & date:	CEA/PTCC/SAEL SOLAR P4-33KV/17Nos. FEEDERS/08/2025 dated 25.08.2025 E-mail dated 18.11.2025
(c)	Name of the Power line	33 KV XLPE, AL, Ar, O/G Cable (1C X630 Sq.mm) from Proposed 33/400 KV Pooling Substation of GSECL Solar Park (South Block) Village Khavda, Distt. Kachchh, Gujarat to Proposed Solar Feeder (P5-F2-50MW) of SAEL Solar P4 Pvt. Ltd. of (P5-F2 to GSECL Feeder No. 33kV SAEL P4-S 05B, Switchgear No. 6, Bay No. 410) located at 400 MW Solar Power Plant of M/s SAEL Solar P4 Private Ltd. Village Khavda, Tehsil Bhuj, District- Kachchh, Gujarat (Length 34.32 Kms)
(d)	Length of Power line:	34.32 kms
(e)	Operating Voltage	33 kV
(f)	Number of circuits	1
2		
(a)	Names of parallel telecom lines:	As per Annexure-XXIV
(b)	Length of parallelism:	As per Annexure-XXIV
3	Average value of earth resistivity in the region:	10,000 ohm-cms
4	Whether LF test necessary:	No
5	Special conditions subject to which this certificate will be effective	As per Annexure-XXIV

Annexure XXIV

Name of the Power Line: 33 KV XLPE, AL, Ar, O/G Cable (1C X630 Sq.mm) from Proposed 33/400 KV Pooling Substation of GSECL Solar Park (South Block) Village Khavda, Distt. Kachchh, Gujarat to Proposed Solar Feeder (P5-F2-50MW) of SAEL Solar P4 Pvt. Ltd. of (P5-F2 to GSECL Feeder No. 33kV SAEL P4-S 05B, Switchgear No. 6, Bay No. 410) located at 400 MW Solar Power Plant of M/s SAEL Solar P4 Private Ltd. Village Khavda, Tehsil Bhuj, District-Kachchh, Gujarat (Length 34.32 Kms)

1. **Railway Telecom Details:**
   Deputy CSTE/ Tele Western Railway vide letter SG.158/28/121641 dated 15.10.2025 has issued their NOC.

2. EPR zone for the proposed substation is mentioned below:

Name of the proposed Substation	Half diagonal distance, D/2 (mts)	Fault Current I (KA)	Resistance of Earth Mat, R (ohms)	d (mts) at 430 V	d (mts) at 650 V	d (mts) at 7kV	d (mts) at 10kV
33/400 KV Pooling Substation of GSECL Solar Park (South Block) Village Khavda, Distt. Kachchh	112.25	63	0.001	NA	NA	NA	NA
IDT	23.38	25	0.001872	NA	NA	NA	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.

CEA Case No.: **GUJ-1039-F13**

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 XLPE, AL, Ar, O/G Cable (1C X630 Sq.mm) from Proposed 33/400 KV Pooling Substation of GSECL Solar Park (South Block) Village Khavda, Distt. Kachchh, Gujarat to Proposed Solar Feeder (P6-F1-50MW) of SAEL Solar P4 Pvt. Ltd. of (P6-F1 to GSECL Feeder No. 33kV SAEL P4-S 06A, Switchgear No. 6, Bay No. 410) located at 400 MW Solar Power Plant of M/s SAEL Solar P4 Private Ltd. Village Khavda, Tehsil Bhuj, District- Kachchh, Gujarat (Length 39.204 Kms)** particulars of which are given in Annexure-XXV.

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 XXVI.

Annexure XXV

1		
(a)	Name of the Power Supply authority seeking approval	M/s SAEL Solar P4 Private Limited
(b)	Reference number & date:	CEA/PTCC/SAEL SOLAR P4-33KV/17Nos. FEEDERS/08/2025 dated 25.08.2025 E-mail dated 18.11.2025
(c)	Name of the Power line	33 KV XLPE, AL, Ar, O/G Cable (1C X630 Sq.mm) from Proposed 33/400 KV Pooling Substation of GSECL Solar Park (South Block) Village Khavda, Distt. Kachchh, Gujarat to Proposed Solar Feeder (P6-F1-50MW) of SAEL Solar P4 Pvt. Ltd. of (P6-F1 to GSECL Feeder No. 33kV SAEL P4-S 06A, Switchgear No. 6, Bay No. 410) located at 400 MW Solar Power Plant of M/s SAEL Solar P4 Private Ltd. Village Khavda, Tehsil Bhuj, District- Kachchh, Gujarat (Length 39.204 Kms)
(d)	Length of Power line:	39.204 kms
(e)	Operating Voltage	33 kV
(f)	Number of circuits	1
2		
(a)	Names of parallel telecom lines:	As per Annexure-XXVI
(b)	Length of parallelism:	As per Annexure-XXVI
3	Average value of earth resistivity in the region:	10,000 ohm-cms
4	Whether LF test necessary:	No
5	Special conditions subject to which this certificate will be effective	As per Annexure-XXVI

Annexure XXVI

Name of the Power Line: 33 KV XLPE, AL, Ar, O/G Cable (1C X630 Sq.mm) from Proposed 33/400 KV Pooling Substation of GSECL Solar Park (South Block) Village Khavda, Distt. Kachchh, Gujarat to Proposed Solar Feeder (P6-F1-50MW) of SAEL Solar P4 Pvt. Ltd. of (P6-F1 to GSECL Feeder No. 33kV SAEL P4-S 06A, Switchgear No. 6, Bay No. 410) located at 400 MW Solar Power Plant of M/s SAEL Solar P4 Private Ltd. Village Khavda, Tehsil Bhuj, District-Kachchh, Gujarat (Length 39.204 Kms)

1. **Railway Telecom Details:**
   Deputy CSTE/ Tele Western Railway vide letter SG.158/28/121641 dated 15.10.2025 has issued their NOC.

2. EPR zone for the proposed substation is mentioned below:

Name of the proposed Substation	Half diagonal distance, D/2 (mts)	Fault Current I (KA)	Resistance of Earth Mat, R (ohms)	d (mts) at 430 V	d (mts) at 650 V	d (mts) at 7kV	d (mts) at 10kV
33/400 KV Pooling Substation of GSECL Solar Park (South Block) Village Khavda, Distt. Kachchh	112.25	63	0.001	NA	NA	NA	NA
IDT	23.38	25	0.001872	NA	NA	NA	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.

CEA Case No.: **GUJ-1039-F14**

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 XLPE, AL, Ar, O/G Cable (1C X630 Sq.mm) from Proposed 33/400 KV Pooling Substation of GSECL Solar Park (South Block) Village Khavda, Distt. Kachchh, Gujarat to Proposed Solar Feeder (P6-F2-50MW) of SAEL Solar P4 Pvt. Ltd. of (P6-F2 to GSECL Feeder No. 33kV SAEL P4-S 06B, Switchgear No. 6, Bay No. 410) located at 400 MW Solar Power Plant of M/s SAEL Solar P4 Private Ltd. Village Khavda, Tehsil Bhuj, District- Kachchh, Gujarat (Length 39.204 Kms)** particulars of which are given in Annexure-XXVII.

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 XXVIII.

Annexure XXVII

1		
(a)	Name of the Power Supply authority seeking approval	M/s SAEL Solar P4 Private Limited
(b)	Reference number & date:	CEA/PTCC/SAEL SOLAR P4-33KV/17Nos. FEEDERS/08/2025 dated 25.08.2025 E-mail dated 18.11.2025
(c)	Name of the Power line	33 KV XLPE, AL, Ar, O/G Cable (1C X630 Sq.mm) from Proposed 33/400 KV Pooling Substation of GSECL Solar Park (South Block) Village Khavda, Distt. Kachchh, Gujarat to Proposed Solar Feeder (P6-F2-50MW) of SAEL Solar P4 Pvt. Ltd. of (P6-F2 to GSECL Feeder No. 33kV SAEL P4-S 06B, Switchgear No. 6, Bay No. 410) located at 400 MW Solar Power Plant of M/s SAEL Solar P4 Private Ltd. Village Khavda, Tehsil Bhuj, District- Kachchh, Gujarat (Length 39.204 Kms)
(d)	Length of Power line:	39.204 kms
(e)	Operating Voltage	33 kV
(f)	Number of circuits	1
2		
(a)	Names of parallel telecom lines:	As per Annexure-XXVIII
(b)	Length of parallelism:	As per Annexure-XXVIII
3	Average value of earth resistivity in the region:	10,000 ohm-cms
4	Whether LF test necessary:	No
5	Special conditions subject to which this certificate will be effective	As per Annexure-XXVIII

Annexure XXVIII

Name of the Power Line: 33 KV XLPE, AL, Ar, O/G Cable (1C X630 Sq.mm) from Proposed 33/400 KV Pooling Substation of GSECL Solar Park (South Block) Village Khavda, Distt. Kachchh, Gujarat to Proposed Solar Feeder (P6-F2-50MW) of SAEL Solar P4 Pvt. Ltd. of (P6-F2 to GSECL Feeder No. 33kV SAEL P4-S 06B, Switchgear No. 6, Bay No. 410) located at 400 MW Solar Power Plant of M/s SAEL Solar P4 Private Ltd. Village Khavda, Tehsil Bhuj, District-Kachchh, Gujarat (Length 39.204 Kms)

1. **Railway Telecom Details:**
   Deputy CSTE/ Tele Western Railway vide letter SG.158/28/121641 dated 15.10.2025 has issued their NOC.

2. EPR zone for the proposed substation is mentioned below:

Name of the proposed Substation	Half diagonal distance, D/2 (mts)	Fault Current I (KA)	Resistance of Earth Mat, R (ohms)	d (mts) at 430 V	d (mts) at 650 V	d (mts) at 7kV	d (mts) at 10kV
33/400 KV Pooling Substation of GSECL Solar Park (South Block) Village Khavda, Distt. Kachchh	112.25	63	0.001	NA	NA	NA	NA
IDT	23.38	25	0.001872	NA	NA	NA	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

CEA Case No.: **GUJ-1039-F15**

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 XLPE, AL, Ar, O/G Cable (1C X630 Sq.mm) from Proposed 33/400 KV Pooling Substation of GSECL Solar Park (South Block) Village Khavda, Distt. Kachchh, Gujarat to Proposed Solar Feeder (P7-F1-50MW) of SAEL Solar P4 Pvt. Ltd. of (P7-F1 to GSECL Feeder No. 33kV SAEL P4-S 07A, Switchgear No. 6, Bay No. 410) located at 400 MW Solar Power Plant of M/s SAEL Solar P4 Private Ltd. Village Khavda, Tehsil Bhuj, District- Kachchh, Gujarat (Length 51.398 Kms)** particulars of which are given in Annexure-XXIX.

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 XXX.

Annexure XXIX

1		
(a)	Name of the Power Supply authority seeking approval	M/s SAEL Solar P4 Private Limited
(b)	Reference number & date:	CEA/PTCC/SAEL SOLAR P4-33KV/17Nos. FEEDERS/08/2025 dated 25.08.2025 E-mail dated 18.11.2025
(c)	Name of the Power line	33 KV XLPE, AL, Ar, O/G Cable (1C X630 Sq.mm) from Proposed 33/400 KV Pooling Substation of GSECL Solar Park (South Block) Village Khavda, Distt. Kachchh, Gujarat to Proposed Solar Feeder (P7-F1-50MW) of SAEL Solar P4 Pvt. Ltd. of (P7-F1 to GSECL Feeder No. 33kV SAEL P4-S 07A, Switchgear No. 6, Bay No. 410) located at 400 MW Solar Power Plant of M/s SAEL Solar P4 Private Ltd. Village Khavda, Tehsil Bhuj, District- Kachchh, Gujarat (Length 51.398 Kms)
(d)	Length of Power line:	51.398 kms
(e)	Operating Voltage	33 kV
(f)	Number of circuits	1
2		
(a)	Names of parallel telecom lines:	As per Annexure-XXX
(b)	Length of parallelism:	As per Annexure-XXX
3	Average value of earth resistivity in the region:	10,000 ohm-cms
4	Whether LF test necessary:	No
5	Special conditions subject to which this certificate will be effective	As per Annexure-XXX

Annexure XXX

Name of the Power Line: 33 KV XLPE, AL, Ar, O/G Cable (1C X630 Sq.mm) from Proposed 33/400 KV Pooling Substation of GSECL Solar Park (South Block) Village Khavda, Distt. Kachchh, Gujarat to Proposed Solar Feeder (P7-F1-50MW) of SAEL Solar P4 Pvt. Ltd. of (P7-F1 to GSECL Feeder No. 33kV SAEL P4-S 07A, Switchgear No. 6, Bay No. 410) located at 400 MW Solar Power Plant of M/s SAEL Solar P4 Private Ltd. Village Khavda, Tehsil Bhuj, District-Kachchh, Gujarat (Length 51.398 Kms)

1. **Railway Telecom Details:**
   Deputy CSTE/ Tele Western Railway vide letter SG.158/28/121641 dated 15.10.2025 has issued their NOC.

2. EPR zone for the proposed substation is mentioned below:

Name of the proposed Substation	Half diagonal distance, D/2 (mts)	Fault Current I (KA)	Resistance of Earth Mat, R (ohms)	d (mts) at 430 V	d (mts) at 650 V	d (mts) at 7kV	d (mts) at 10kV
33/400 KV Pooling Substation of GSECL Solar Park (South Block) Village Khavda, Distt. Kachchh	112.25	63	0.001	NA	NA	NA	NA
IDT	23.38	25	0.001872	NA	NA	NA	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

CEA Case No.: **GUJ-1039-F16**

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 XLPE, AL, Ar, O/G Cable (1C X630 Sq.mm) from Proposed 33/400 KV Pooling Substation of GSECL Solar Park (South Block) Village Khavda, Distt. Kachchh, Gujarat to Proposed Solar Feeder (P7-F2-50MW) of SAEL Solar P4 Pvt. Ltd. of (P7-F2 to GSECL Feeder No. 33kV SAEL P4-S 07B, Switchgear No. 6, Bay No. 410) located at 400 MW Solar Power Plant of M/s SAEL Solar P4 Private Ltd. Village Khavda, Tehsil Bhuj, District- Kachchh, Gujarat (Length 44.055 Kms)** particulars of which are given in Annexure-XXXI.

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 XXXII.

Annexure XXXI

1		
(a)	Name of the Power Supply authority seeking approval	M/s SAEL Solar P4 Private Limited
(b)	Reference number & date:	CEA/PTCC/SAEL SOLAR P4-33KV/17Nos. FEEDERS/08/2025 dated 25.08.2025 E-mail dated 18.11.2025
(c)	Name of the Power line	33 KV XLPE, AL, Ar, O/G Cable (1C X630 Sq.mm) from Proposed 33/400 KV Pooling Substation of GSECL Solar Park (South Block) Village Khavda, Distt. Kachchh, Gujarat to Proposed Solar Feeder (P7-F2-50MW) of SAEL Solar P4 Pvt. Ltd. of (P7-F2 to GSECL Feeder No. 33kV SAEL P4-S 07B, Switchgear No. 6, Bay No. 410) located at 400 MW Solar Power Plant of M/s SAEL Solar P4 Private Ltd. Village Khavda, Tehsil Bhuj, District- Kachchh, Gujarat (Length 44.055 Kms)
(d)	Length of Power line:	44.055 kms
(e)	Operating Voltage	33 kV
(f)	Number of circuits	1
2		
(a)	Names of parallel telecom lines:	As per Annexure-XXXII
(b)	Length of parallelism:	As per Annexure-XXXII
3	Average value of earth resistivity in the region:	10,000 ohm-cms
4	Whether LF test necessary:	No
5	Special conditions subject to which this certificate will be effective	As per Annexure-XXXII

Annexure XXXII

Name of the Power Line: 33 KV XLPE, AL, Ar, O/G Cable (1C X630 Sq.mm) from Proposed 33/400 KV Pooling Substation of GSECL Solar Park (South Block) Village Khavda, Distt. Kachchh, Gujarat to Proposed Solar Feeder (P7-F2-50MW) of SAEL Solar P4 Pvt. Ltd. of (P7-F2 to GSECL Feeder No. 33kV SAEL P4-S 07B, Switchgear No. 6, Bay No. 410) located at 400 MW Solar Power Plant of M/s SAEL Solar P4 Private Ltd. Village Khavda, Tehsil Bhuj, District-Kachchh, Gujarat (Length 44.055 Kms)

1. **Railway Telecom Details:**
   Deputy CSTE/ Tele Western Railway vide letter SG.158/28/121641 dated 15.10.2025 has issued their NOC.

2. EPR zone for the proposed substation is mentioned below:

Name of the proposed Substation	Half diagonal distance, D/2 (mts)	Fault Current I (KA)	Resistance of Earth Mat, R (ohms)	d (mts) at 430 V	d (mts) at 650 V	d (mts) at 7kV	d (mts) at 10kV
33/400 KV Pooling Substation of GSECL Solar Park (South Block) Village Khavda, Distt. Kachchh	112.25	63	0.001	NA	NA	NA	NA
IDT	23.38	25	0.001872	NA	NA	NA	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