



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

CEA Case No.: AND-770		
Induced Voltage (IV) calculation in respect of PTCC proposal for LILO of 440 kV DC line from 400/33 kV Pooling SS of 400 MW Solar Power Plant (at Chennakapalli) to 400 kV CPSS (at Kalava) of Greenko AP01 IREP Pvt. Ltd at 400/33 kV Pooling SS of 700MW Solar Power Plant (at Pinnapuram)(0.179 km)- regd.		
S. No	Reference No.	Dated
(i)	Greenko: Greenko AP01/PTCC/4/2024	31.12.2024
(ii)	Greenko : Email _ Emd Parameters	13.08.2025
(iii)	BSNL:SR-PTCC/AND-770/2025-26/1	11.07.2025
(iv)	South Central Railway: SG.85/4/3/PTCC/2024-25/SCRAP 30 RC	10.02.2025
(v)	Defense: B/46937/Sigs7(b)/4467	27.03.2025

The PTCC proposal submitted vide above references (i) and (ii) have been examined. DET PTCC, SZ (BSNL) has issued NOC vide reference (iii) above. SCR has issued NOC vide reference (iv) above.

ADG (Telecommunications) has issued No Objection Certificate (NOC) vide reference (v). (Enclosed as Annexure I).

EPR Zones for proposed substations are mentioned below.

Name of the proposed SS	Half Diagonal Distance, D/2 (mts)	Fault Current, I (kA)	Resistance of earthmat, R (Ohms)	d (mts) at 430 V	d (mts) at 650 V	d (mts) at 7 kV	d (mts) at 10 kV
400/33 kV Solar Pooling SS (Chennakapalli)	78.9	24	0.82	3532	2310	143	76
400/33 kV Pooling SS of 700MW Solar Power Plant	82.5	31.5	0.54	3181	2077	118	58

As per the details submitted by BSNL vide reference (iii) above, no Telephone Exchange is falling in the EPR zone of the proposed substation.

Taking above into consideration, necessary action for issuance of PTCC route approval (RAC) shall be taken under intimation to this office in the stipulated period as specified in PTCC Manual and subsequent CLPTCC meetings.

As per the decision taken in 111th and 112th CLPTCC meeting, necessary instructions for “*Deemed Energization approval*” shall be specified while issuing RAC.

Encl.: As above

Chief Engineer

To,

1.	Divisional Engineer Telecom (PTCC), Southern Zone	BSNL, Inspection Circle, 2nd Floor, Sanchar Complex, WMS Compound, Jayanagar 5th Block, 9th Main, 47th Cross ,Bangalore-560041	
2.	General Manager	Greenko AP01 IREP Pvt. Ltd. 2 nd Floor, Block D, Plot No.13, SY. No. 64 Part, Hitech City Layout, Madhapur Village , Hyderabad- 500081	Copy for information

Annexure I

Directorate General of Signals
(Signals 7)
General Staff Branch
Integrated HQ of MoD (Army)
Room No 648A
DHQ PO, New Delhi - 110011

B/46937/Slgs-7(b)/4467

27 Mar 2025

General Manager
Greenko AP01 IREP Private Ltd
Second Floor, Block D, Plot No. 13 SY
No. 64 Part, Hitech City Layout
Madhapur Village
Hyderabad-500 081, Rangareddi, Telangana

**PTCC ROUTE APPROVAL 400KV (TWIN AL-59 MOOSE DOUBLE
CIRCUIT TOWER TRANSMISSION LINE SINGLE CIRCUIT LILO OF
400KV D/C LINE FROM 400/33KV POOLING SUBSTATION (LOCATED
AT CHENNAKKAPALLI VILLAGE, GADIVEMULA MANDAL, NANDYAL
DIST. ANDHRA PRADESH) OF 400MW SOLAR POWER PLANT TO
400KV CENTRAL POOLING SWITCHING STATION (CPSS) OF
GREENKO AP01 IREP PVT. LTD. AT 400/33 KV POOLING SUBSTATION
(LOCATED AT PINNAPURAM VILLAGE, PANYAM MANDAL, NANDYAL
DISTT. ANDHRA PRADESH) OF 700 MW SOLAR POWER PLANT-LINE
LENGTH APPROX. 0.179KM.**

1. Ref your letter No Greenko AP01/PTCC/4/2024 dt 31 Dec 2024.
2. No Objection Certificate (NOC) is **accorded** based on inputs provided as per Map sheet received vide your letter mentioned above.
3. Documents alongwith map sheets (in original) are returned herewith for your further necessary action.



(Puneet Lakhanpal)
Lieutenant Colonel
General Staff Officer Grade-1 (Communication)
for Additional Director General (Telecommunication)

Enclosures: As above

Internal: -

HQ Southern Comd (Sigs) - for info pl.