

I/34080/2024



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

CEA Case No. : AND-724		
Induced Voltage (IV) calculation in respect of PTCC proposal for LILO of both circuits of 220 kV Nannur-Somayajulapalli DC line at proposed 220 kV switching station, Uppalapadu in Kurnool district (2.1 km)- regd.		
S. No	Reference No.	Dated
(i)	TCAPL: CE/Projects/SE-220&132/EE-1/DEE 4/F.Uppalapadu/D.No.206/23	13.04.2023
(ii)	BSNL: SR-PTCC/SAP5306/6	13.11.2023
(iii)	Southern Railway:W.384/3/5/107	27.04.2023
(iv)	South Central Railway:SG.85/4/3/PTCC/SCR/AP/2023-24/3 RC	22.05.2023
(v)	Defense: B/46937/Sigs 7(b)/3338	10.07.2023

The PTCC proposal submitted vide reference (i) has been examined. The LF induction on Block and Telecom circuits of BSNL with respect to details furnished vide above reference (ii) has been computed. The voltage likely to be induced on paralleling Block and Telecom circuits of BSNL under Single Line to Ground fault condition are enclosed at Annexure-I.

Southern Railway vide reference (iii), South Central Railway vide reference (iv) and DG Signals, MoD vide reference (v) have issued No Objection Certificate (NOC).

EPR details for the proposed substation is given below.

Name of the 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
220KV Switching Station at Uppalapadu	79	28	0.67	3367.60	2201.06	132.72	190.15

As per the details submitted by BSNL, no telecom exchanges are lying in the EPR zone of the proposed substation.

Taking above into consideration, necessary action for issuance of PTCC route approval may be taken under intimation to this office.

Encl.: As above

Chief Engineer,

I/34080/2024 To,

1.	Divisional Engineer (PTCC), Southern Zone	BSNL, Inspection Circle, 2 nd Floor, Sanchar Complex, WMS Compound, Jayanagar 5 th Block, 9 th Main, 47 th Cross, Bangalore-560041	
2.	Chief Engineer Projects	APTransco, Vidyut Soudha, Gunadala, Vijayawada-520004, Andhra Pradesh	

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ANNEXURE-I

CEA Case No.: AND-724 Name of the Power line: LILO of both circuits of 220 kV Nannur-Somayajulapalli DC line at proposed 220 kV switching station, Uppalapadu in Kurnool district			Map Scale : 1 cm= 500 m Total Length : 2.1 km S.R. Value : 50000 Ohm-cm		
S.No.	Telecom. Details	Length of Parallelism in Km.	Mutual Coupling in Ohms.	Effective Fault current in Amps.	I.V in Volts.
BSNL Letter No. SR-PTCC/SAP5306/6 Date: 13.11.2023					
1	Uyyalawada Exg to DP1			Out of parallelism	
2	Uyyalawada Exg to DP2			Out of parallelism	

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Tele : 23019746

Annexure II

Directorate General of Signals
Signals 7
General Staff Branch
Integrated HQ of MoD, (Army)
DHQ PO, New Delhi – 110011

AND-724


B/46937/Sigs 7(b)/3338

10 Jul 2023

Chief Engineer, Projects
APTransco
Transmission Corporation of Andhra Pradesh Limited
Vidyut Soudha, Vijayawada– 520004, Andhra Pradesh

**MAKING DOUBLE LILO OF EXISTING 220KV NANNUR-SOMAYAJULAPALLI
DC LINE TO PROPOSED 220KV SWITCHING STATION AT UPPALAPADU IN
KURNOOL DISTRICT- PTCC PROPOSAL**

1. Refer your letter No Lr. No. CE/Projects/SE-220&132/EE-1/DEE-4/F.Uppalapadu/D.No.206/23 dt 13 Apr 2023 (copy att).
2. **No Objection Certificate (NOC) is accorded** based on inputs provided as per Map sheets received vide your letter mentioned above.
3. Documents alongwith map sheets (in original) are returned herewith for your further necessary action.


(SP Choyal)
Lt Col
GSO 1 (Comn)
for ADG T

Enclosures : As above

Copy to :-

The Director (PTCC), CEA
Power Communication Development Division
NRPC Complex, 18-A Shaheed Jeet Singh Marg
Katwaria Sarai, New Delhi – 110016

- for information

The DET(PTCC), Northern Zone
Bharat Sanchar Nigam Limited
O/o PGM (North), QA & Inspection Circle,
D-Tax Building, Eastern Court, Janpath
New Delhi-110001

Central Electricity Authority
PCD Division

No. 664
28-7-23

Sh. Atishay DD

Okw
27/7

PPU. 31/07
31/07

Sh. Pardeep