



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. : NAG-01		
Induced Voltage(IV) calculation for PTCC proposal of 220 kV S/C New Kohima - Mokokchung Transmission Line [Length-86.54 km] - Regd.		
S. No	Reference No.	Dated
(i)	PGCIL: NERSIP/MKG/TW-06/303	09.08.2021
(ii)	PGCIL: e-Mail	12.12.2024
(iii)	BSNL: DET/ER/PTCC/EML160820213447/CEA/01	26.11.2024
(iv)	NEFR: N/146/2/10Pt.VI(TC)	28.09.2021
(v)	Defense: B/46937/Sigs7(b)/	18.10.2024

The PTCC proposal submitted vide reference (i) & (ii) has been examined. The LF induction on block & telecom circuits of Defense establishment with respect to details furnished vide above references (v) has been computed. The voltages likely to be induced on paralleling block & telecom circuits of Defense under Single Line to Ground fault condition are enclosed at Annexure-I. The screening factors, as applicable, have been considered. DET-PTCC EZ,BSNL and GM S&T, NEFR has issued No Objection Certificate (NOC) vide reference (iii) & (iv) respectively.

Taking above into consideration, necessary action regarding issuance of PTCC approval for the subject cited transmission line may be taken under intimation to this office.

Chief Engineer

To,

1.	Divisional Engineer (PTCC), Eastern Zone	BSNL, O/o QA & Inspection Circle QA Bhawan, EP-GP Block Sector-V, Salt lake, Kolkata	
2.	Director General of Signals	General Staff Branch, Integrated HQ, MoD (army), Sena Bhawan, DHQ, PO, New Delhi- 110 105	Annexure-I
3	Sr. GM, NERSIP	NERTS, 220/132 kV Mokokchung GIS Mokokchung, Nagaland	

ANNEXURE-I

CEA Case No.: NAG-01 Name of the Power line: 220 kV S/C New Kohima - Mokokchung Transmission Line			Map Scale : 1 cm= 500 m Total Length 86.54 km S.R. Value : 7500 Ohm-cm		
S.No.	Telecom. Details	Length of Parallelism in Km.	Mutual Coupling in Ohms.	Effective Fault current in Amps.	I.V in Volts.
Defense Letter No: B/46937/Sigs7(b)/ Dated 18.10.2024					
<u>Affected Blocks & Telecom Circuits Details</u>					
1	Army Camp Mokokchung Note: Camp closed	-Out of Parallelism-			
2	Tseminyu Camp Note: Camp closed	1.5	0.001	14500	15
3	Zadima Camp Note: Camp closed	1.0	0.0028	22400	63