

भारत सरकार

Government of India

विद्युत मंत्रालय

Ministry of Power केन्द्रीय विद्युत प्राधिकरण

Central Electricity Authority पावर कम्युनिकेशन डवलप्मेंट प्रभाग

Power Communication Development Division

No.: CEA/PCD/PTCC/ASM-20/7/6-7/8

Date: 17.06.2019

DET (PTCC), Eastern Zone, Inspection & QA Circle, BSNL Q.A. Bhawan, EP-GP Block, Sector-V, Salt Lake, Kolkata – 700091

Subject:

Induced Voltage Calculation in respect of PTCC proposal for 400 kV D/C Silchar – Misa Transmission Line

Reference:

- (i) BSNL letter no. DE/PTCC/EAS 300820182128/01 dated 08.11.2018
- (ii) Northeast Frontier Railway letter no. N/146/2/10 Pt. VI (TC) dated 15.11.2018
- (iii) Defense letter no. B/46937/Sigs 7(b)/1163 dated 08.08.2018

Sir,

The instant PTCC proposal has been examined. Low frequency induction on Block & Telecom Circuits of Northeast Frontier Railway with respect to details furnished vide above reference has been computed. The Soil Resistivity (SR) value has been taken as 5,000 ohm-cm, based on field inspection by CEA officers. The voltages likely to be induced on paralleling Block & Telecom Circuits of Northeast Frontier Railway under single line to ground fault condition have been computed and are enclosed as Annex – I. The screening factors, as applicable, have been considered. Vide ref. (i) above, BSNL have issued No Objection Certificate (NOC). Vide ref. (iii) above, Defense Authority have issued No Objection Certificate (NOC) (enclosed as

Taking above into consideration, kindly take necessary action for PTCC route approval.

Encl.: As above

MC

(Naresh Bhandari)

Copy to:

(i) GM (S&T), Office of the General Manager (S&T), Northeast Frontier Railway, Maligaon, Guwahati, Assam – 781011 (Annex – I only)

(ii) Construction Head, NER-II Transmission Limited, J.K. Kedia (Main Road), Opp. – HDFC Bank, 2nd floor, MRF Showroom, Hojai, Assam - 782435

ANNEXURE - I

Case No.: ASM - 20 Name of the Power line: 400KV D/C SILCHAR - MISA TRANSMISSION LINE			Map Scale : 1cm=500mts Total Length : 175.7 Km. S.R. Value : 5,000 Ohms-cm		
S.No.	Telecom. Details	Length of Parallelism in Km.	Mutual Coupling in Ohms.	Effective Fault current in Amps.	I.V in Volts.
NORTH	HEAST FRONTIER RAILWAY			T	
Ref. No: N / 146 / 2 / 10 PT. VI(TC) DATED: 15-11-2018					
Affecte	ed Blocks & Telecom Circuits Details				
1	Katakhal - Salchapra	OUTSIDE IV CALCULATION			
		CONSIDERATION ZONE			0
2	Salchapra - Arunachal	6.35	0.0047	13700	64
3	Arunachal - Silchar	OUTSI	DE IV CALCUL	1	
	·	CONSIDERATION ZONE			0
4	Jatinga Lampur - New Harangajao	2.4	0.0003	10700	3
5	New Harangajao - Ditokcherra	1.6	0.0013	10200	13
6	Ditokcherra - Bandarkhal	OUTSI	IDE IV CALCULATION		
		CONSIDERATION ZONE		ONE	0
7	Jamunamukh -Jogijan	2.9	0.0033	14100	47
8	Jogijan - Hojai	3.05	0.0007	13700	10
9	Hojai - Dhalpukhuri	OUTSIDE IV CALCULATION			
		CONSIDERATION ZONE			0
			-	-	,
				$\Lambda \Lambda$	

नरेश भंडारी/NARESH BHANDARI मुख्य अभियन्ता/Chief Engineer केन्द्रीय विद्युत प्राधिकरण/C.E.A. विद्युत मंत्रालय/Ministry of Power शारत सरकार/Govt. of India नई दिल्ली/New Delhi-66

ASM 20

Tele: 23019746

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

B/46937/Sigs 7(b)/1163/

Of Aug 2018

NER-II Transmission Ltd.
Construction Head
J. K. Kedia (Main Road)
Opp. HDFC Bank, Near Vishal Mega Mart
2nd Floor MRF Showroom, Hojai, Assam
Pin-782435

SUBMISSION OF PTCC PROPOSAL OF 400 KV D/C (QUAD) SILCHAR-MISA TRANSMISSION LINE UNDER NER SYSTEM STRENGTHENING SCHEME II (PART B) & V BY NER-II TRANSMISSION LTD

- 1. Reference your letter No NERII/SM/PTCC/2018-19/63 dt 11 Jun 2018 (copy att).
- 2. No Objection Certificate (NOC) is accorded based on inputs provided vide Map sheet received under your letter mentioned above.
- 3. Documents alongwith map sheets (in original) are returned herewith for your further necessary action.

(A Rawat)

Maj

GSO 1 (Comn)

for SO-in-C

Copy to :-

Director(PTCC)
Central Electricity Authority
Power Communication Development Division
NRF C Complex, 18-A, Shaheed Jeet Singh S Marg
Katwaria Sarai, New Delhi — 110016

For information.