



भारत सरकार

Government of India

विद्युत मंत्रालय

Ministry of Power

केन्द्रीय विद्युत प्राधिकरण

Central Electricity Authority

पावर कम्युनिकेशन डवलपमेंट प्रभाग

Power Communication Development Division

No.:CEA/PCD/PTCC/UP-490/787-789

Date: 05.07.2019
०५

DET (PTCC), Northern Zone,
Bharat Sanchar Nigam Ltd (BSNL),
O/o PGM(N), Inspection Circle,
CTS Compund, Netaji Nagar,
New Delhi – 110023

Subject: Induced Voltage Calculation in respect of PTCC proposal for LILO of one circuit of 220 kV DC Lalitpur TPS – Dunara Transmission Line at Babina 220 kV SS

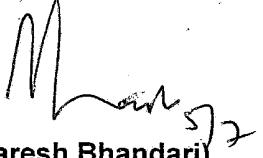
Reference: (i) BSNL letter no. DET/PTCC/ND/DV-9443/UP-697/2019-2020 dated 25.06.2019
(ii) North Central Railway letter no. एन सी आर/एस एंड टी/2074/टेलिकॉम/पी.टी.सी.सी. (पार्ट-1) dated 11.06.2019

Sir,

The instant PTCC proposal has been examined. Low frequency induction on Block & Telecom circuits of North Central Railway with respect to details furnished vide above reference has been computed. The Soil Resistivity (SR) value has been taken as 25,000 Ohm-cm: The voltages likely to be induced on paralleling Block & Telecom circuits of North Central 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).

Telecommunication details from Defense are pending and the power authority has shown urgency for charging the line. In view of this, you are requested to issue provisional PTCC route approval.

Encl.: As above


(Naresh Bhandari)
Chief Engineer

Copy to:

1. ASTE, North Central Railway, HQ's Office (S&T Branch), Ganga Parisar, Subedarganj, Allahabad, Uttar Pradesh - 211015
2. Executive Engineer, Electricity Transmission Division Jhansi, UP Power Transmission Corporation Limited, 132 kV S/S Hasari, Jhansi, UP - 284135

MIC

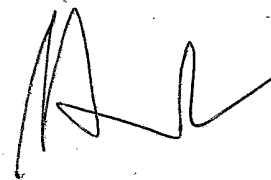
एन आर पी सी परिसर, कटवारिया सराय, नई दिल्ली-110016 टेलीफैक्स: 011-26565214 ईमेल: nbnareshbhandari@gmail.com

NRPC Building, Katwaria Sarai, New Delhi-110016 Telefax: 011-26565214 Email: nbnareshbhandari@gmail.com Website: www.cea.nic.in

ANNEXURE - I

Case No.: UP-490		Map Scale : 1cm=500mts			
Name of the Power line: LILO of one circuit of 220 kV DC Lalitpur TPS – Dunara Transmission Line at Babina 220 kV SS		Total Length : 7.278 km		Soil Resistivity : 25,000 Ohm-cm	
S.No.	Telecom. Details	Length of Parallelism in Km.	Mutual Coupling in Ohms.	Effective Fault current in Amps.	I.V in Volts.

North Central Railway letter no. एन सी आर/एस एंड टी/2074/टेलिकॉम/पी.टी.सी.सी. (पार्ट-1) dated 11.06.2019					
1	Khajraha – Babina	0.9	0.0002	8000	2
2	Babina – Burhpura	OUT OF PARALLELISM			0
3	Burhpura - Basai	OUTSIDE IV CONSIDERATION ZONE			0


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