

भारत सरकार Government of India विद्युत मंत्रालय Ministry of Power केन्द्रीय विद्युत प्राधिकरण Central Electricity Authority विद्युत संचार विकास प्रभाग

Power Communication Development Division

Case No.: UP-535:

PTCC proposal for 220 kV D/C transmission line from 220/132 kV UPPTCL Substation Bithoor to UPMRC Kanpur Metro RSS at CSA: 8.87 km (approx.)

S. No.	Reference No.	
(i) ·	LIPMRC: LIPMPC/DTCC/D: : : C	Dated
(ii)	UPMRC: UPMRC/PTCC/Priority Section/Kanpur metro	22.06.2021
(iii)	BSNL: DET/PTCC/ND/DV-9931/UP-978/2021-2022	18.08.2021
·····	North Eastern Railway: NER-HQ0SndT(TELE)/31/2020- O/O PCSTE/HQ/NER	18.08.2021
(iv)	Defense: B/46937/Sigs 7(b)/2458	
	1 10557761gs 7(0)/2438	04.08.2020

The PTCC proposal submitted vide reference (i) has been examined. The LF induction on telecom cables of BSNL and Block & Telecom circuits of North Eastern Railway with respect to details furnished vide above references (ii) and (iii) respectively has been computed. The voltages likely to be induced on paralleling telecom cables of BSNL and Block & Telecom circuits of North Eastern Railway under Single Line to Ground fault condition are enclosed at Annexure-I and Annexure-II respectively. The screening factors, as applicable, have been considered. The Defense Authority have accorded NOC vide above reference (iv) for the proposed power line.

Taking above into consideration, necessary action regarding issuance of PTCC route approval may be taken.

Encl.: As above.

To.

Signature Not Verified
Digitally signed by
RAGHVENDRA-PRATAP SINGH
Date: 2021.09.04 15:05:23 IST

Director

1.	Divisional Engineer (PTCC), Northern Zone	BSNL O/o PGM (N), QA & Inspection Circle, D-Tax Building, Eastern Court, Janpath, New Delhi 110001.	Annexure-I
9.	Dy. CSTE/Tele/GKP	North Fostom D. II. O. C.	Annexure-II only
多	JGM/Tele	UPMRC: Administrative Building, Near Dr. Bhimrao Samajik Parivartak Sthal, Vipin Khand, Gomti Nagar, Lucknow-226010.	Copy for information

Gase No.: UP-535

Annexure I

ame of the Power Line: 220 KV transmission line (2-circuits) from

220/132 KV UPPTCL Substation, Bithoor to

UPMRC Kanpur Metro RSS at CSA

Toposheet Scale: 1cm=560mts
Total Length: 8.87 Kms (approx)
S.R Value: 50 00 Chmcm

Sl. No.	Name of Telecom Line	LOP in	Kms	MC in Ohms	Fault Correct (Amps)	IV in Voles
BSNL Reference	ce No. DET/PTCC/ND/DV-9931/UP-978/2021-2	22 Detail: 4	0.00.00			
a de	BSNL Details	22 Dated:- 1	8.08.20	21		
1 2	Sighpur to Bithoor turn at kalyanpur Metro Station of Kanpur Metro 100 pair (1.2 KM) & 200 pairs (2 KM) Underground copper cable Bithoor turn at kalyanpur Metro Station to RSS Bldg of Kanpur Metro near Rama dental turn 100 pair (0.3 KM), 200 pairs (0.5 KM) & 400 pairs (1.94 KM) Underground copper cable	I	/	less tha	n 430	V
3	Bithoor turn at kalyanpur Metro Station to RSS Bldg of Kanpur Metro near Rama dental turn 24 Fiber (2.6 KM) , 48 Fibers (3.5 KM) & 96 Fiber (1.2 KM) Armoured Optical Fiber Cable				mi	

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ANNEXURE-IT

Name of	of the Power line: 220 kV D/C transmis kV UPPTCL Substation Bithoor to UPMRCCSA.	ssion line from C Kanpur Metro	10tal Length	: 1 cm=500: 1: 8.87 km (ap : 5,000 ohm	m oprox.)
S.No.	Telecom. Details	Length of Parallelism in Km.	Mutual Coupling in Ohms.	Effective Fault current in Amps.	I.V in Volts.

	North Eastern Railway: NER-HQ0SndT(TEL <u>Affected Blocks & T</u>	E)/31/2020 [elecom Ci	-O/O PCSTE/HQ rcuits Details	/NER Dated: 2	1.01.2021
1	1 Rawatpur to Kanpur Anwarganj 2 Kanpur Anwarganj to Kanpur Central		Out of Parallelism		
2			Out of Parallelism		
3	Rawatpur to Kalyanpur	Out of Parallelism			00
4	Kalyanpur to Mandhana	4.2	0.0021	6864	15

Janus