



भारत सरकार  
Government of India  
विद्युत मंत्रालय  
Ministry of Power  
केन्द्रीय विद्युत प्राधिकरण  
Central Electricity Authority  
विद्युतसंचारविकासप्रभाग  
Power Communication Development Division  
\*\*\*\*\*

Case No.: UP-555: 20.09.2021  
PTCC proposal for 400 kV D/C Muradnagar to Simbhavali transmission line :  
69.308 km

Reference:		
S. No.	Reference No.	Dated
(i)	Powergrid MSTL: PG/NR-I/PMSTL/PTCC/2021/665	15.01.2021
(ii)	BSNL:DET/PTCC/ND/DV-9846/UP-936/2020-2021	01.06.2021
(iii)	Northern Railway: 342-SIG/1/PTCC/2020-21/02/07	22.02.2021
(iv)	Defense: B/46937/ Sigs 7(b)/2338	26.03.2021

The PTCC proposal submitted vide reference (i) has been examined. The LF induction on telecom cables of BSNL and Block & Telecom circuits of Northern 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 Northern 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.

Signature Not Verified  
Digitally signed by RAGHUVENDRA PRATAP  
SINGH  
Date: 2021.09.20 16:22:39 IST

To,

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 only
2.	AESTE/UTS	Northern Railway, Head Quarter Office, Baroda House, New Delhi-110001.	Annexure-II only
3.	CEO, Powergrid MSTL	Powergrid MSTL, Plot No. 1, Pocket-N, Ganga Nagar, Meerut-250001.	Copy for information

MIC

CEA  
Case No.: UP-555

Annexure I

Toposheet Scale : 1cm=500mts  
Total Length : 69.308 km  
S.R Value : (20,000 & 25,000) Ohm-cm

Name of the Power Line: 400 KV D/C Muradnagar -Simbhavali  
Transmission Line

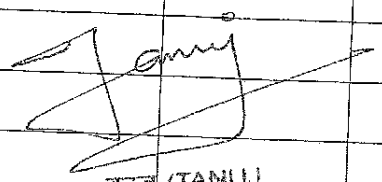
Sl. No.	Name of Telecom Line	LOP in Kms	MC in Ohms	Fault Current (Amps)	IV in Volts
---------	----------------------	------------	------------	----------------------	-------------

**BSNL**

Reference No. DET/PTCC/ND/DV-9846/UP-936/2020-21  
Date : 01.06.2021

BSNL Details					
1	Kithor to shajanpur road ( 200 pair / 2.5 Km )				
2	Kithor to RK College ( 200 pair - 3 Km )				
3	Ajarara TE to Itaula road ( 50 pair - 3.5 Km )				
4	Kharkhadha to Panchi road ( 50 /100 pair - 3.5 KM )				
5	Kharkhadua to Kharkhadua P.S ( 200/ 400 pair - 3 KM )				
6	Murahnagar TE to OFM murahnagar ( 400 pair - 4.5 KM )				
7	RauliKalan TE to Raulikalan Road ( 100 pair / 800 mtr)				
8	Patla TE to Kharkuda road ( 100 pair / 3 KM )				
9	Patla TE to Niwari road ( 200 pair / 3.5 km )				
10	Modinagar to Sikrikalan Road ( 6000 pair / 4.5 KM )				
11	Modinagar to govindpuri Road ( 4000 pair / 3.5 KM )				
12	Modinagar to mawivillage Road (200 pair / 2 KM )				
13	Modinagar to Godana village Road (100 pair / 1 KM )				
14	Talahta TE to talahta village (150 pair / 1 KM )				
15	GarhTE to Garh Rly station chock ( 800 pair / 1 km )				
16	garhRly station chock to Rajnagar colony ( 100 pair / 1 km )				
17	Garh Rly station to dautai village ( 100 pair / 3.5 KM )				
18	Simbhavali TE to buxer village ( 100 pair / 2 KM )				
19	Simbhavali TE to Khutliya village ( 200 pair / 1 km )				
20	Dehakuti TE to sadarpur Village ( 100 pair / 1.5KM )				
21	Bahadurgarh TE to postoffice ( 100 pair / 1 KM )				
22	Brijghat TE to syndicate bank road ( 100 pair / 1 KM )				
23	Ambedkar gate to Subhas gate ( 100 pair / 3 KM )				

IV less than 430V



तनुज / TANUJ  
सहायक निदेशक-II / Asstt. Director-II  
केन्द्रीय विद्युत प्राधिकरण / C.E.  
विद्युत मंत्रालय / Ministry of Power  
भारत सरकार / Govt. of India  
नई दिल्ली / New Delhi-86

## ANNEXURE-II

Case No.: UP-555

Name of the Power line: 400 kV D/C Muradnagar to Simbhavali transmission line.

Map Scale : 1 cm=500 m  
 Total Length : 69.308 km  
 S.R. Value: (20,000 & 25,000)  $\Omega$ -cm

S.No.	Telecom. Details	Length of Parallelism in Km.	Mutual Coupling in Ohms.	Effective Fault current in Amps.	I.V in Volts.
-------	------------------	------------------------------	--------------------------	----------------------------------	---------------

Northern Railway Ref. No. : 342-SIG/1/PTCC/2020-21/02/07

Dated: 22.02.2021

**Affected Blocks & Telecom Circuits Details**Ghaziabad- Meerut City section

Ghaziabad- Meerut City section		Outside IV consideration zone			00
Ghaziabad- Meerut City section		Out of Parallelism			00
1	Naya Ghaziabad R/S to Guldhar R/S				
2	Guldhar R/S to Muradnagar R/S				
3	Muradnagar R/S to Modinagar R/S	8.7	0.0036	12553	45
4	Modinagar R/S to Muhiuddinpur R/S	3.1	0.0033	11304	38
5	Muhiuddinpur R/S to Partapur R/S	1.2	0.0007	10316	07
6	Partapur R/S to Meerut City R/S	7.8	0.0001	10129	01

Meerut City- Hapur section

Meerut City- Hapur section		Outside IV consideration zone			00
1	Meerut City R/S to Kharkhauda R/S				
2	Kharkhauda R/S to Kailli R/S	5.4	0.0011	9348	10
3	Kailli R/S to Hapur R/S	0.7	0.0001	8044	01

Ghaziabad- Moradabad section

Ghaziabad- Moradabad section		Outside IV consideration zone			00
1	Mehrauli R/S to Dasna R/S				
2	Dasna R/S to Pilkhuwa R/S				
3	Pilkhuwa R/S to Hapur R/S				
4	Hapur R/S to Babugarh R/S	5.6	0.0010	9131	09
5	Kuchesar Road R/S to Simbhaoli R/S	7.6	0.0017	10869	18
6	Simbhaoli R/S to Garhmuktesar R/S	9.4	0.0056	12178	68
7	Garhmuktesar R/S to Garhmuktesar Bridge R/S	3.8	0.0023	13043	30
8	Garhmuktesar Bridge R/S to Kankather R/S	2.9	0.0013	14326	19

*[Signature]*  
 Director, Northern Railway  
 New Delhi