



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-499 :	07.22.02.21
PTCC proposal of LILO of single circuit of 400 kV D/C Bamnauli- Jhaokara transmission line at Dwarka associated with 400/220 kV Substation in NCT of Delhi during 12 th Plan period.	

Reference:		
S. No.	Reference No.	Dated
(i)	PGCIL: PG/NR1/Dwarka/PTCC	20.06.2019
(ii)	BSNL:DET/PTCC/ND/DV-9572/ND-225/2020-21(MTNL telecom details)	02.11.2020
(iii)	DMRC Sr. DGM letter	15.05.2019
(iv)	Northern Railway: 342-SIG/1/PTCC	10.07.2019
(v)	Defense: B/46937/Sigs 7(b)/ 1717	28.08.2019

The PTCC proposal submitted vide ref. (i) has been examined. The LF induction on U/G cooper and armoured OFC cables of MTNL, DMRC and Block & Telecom circuits of Northern Railway with respect to details furnished vide above ref. (ii), ref. (iii) and ref. (iv) respectively has been computed. The voltages likely to be induced on paralleling telecom cables of MTNL, DMRC and Block & Telecom circuits of Northern Railway under Single Line to Ground fault condition are enclosed at Annex-I, Annex-II and Annex-III respectively. The screening factors, as applicable, have been considered. Vide ref. (v) above, Defence Authority have issued No Objection Certificate (NOC).

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

Encl.: As above.

Signature Not Verified
Digitally signed by RAGHUVENDRA PRATAP SINGH
Date: 2021.02.22 12:34:21 IST

Director

To,

1.	Divisional Engineer (PTCC), Northern Zone	BSNL O/o PGM (N), QA & Inspection Circle, D-Tax Building, Eastern Court, Janpath, New Delhi 110001	Annex-I only
2.	Sr. DGM	DMRC, Metro Bhawan, Fire Brigade Lane, Barakhamba Road, New Delhi-110001	Annex-II only
3.	General Manager (S&T)	Northern Railway, Office Headquarters, Baroda House, New Delhi-110001.	Annex-III only
4.	DGM,	PGCIL, 400/220 GI substation, Sector-5, Dwarka, New Delhi-110075.	Copy for information

Case No. : UP-499

Name of the Power Line: LILo of Single Ckt of 400 KV D/C
Bamnauli- Jhatikara Transmission Line at
Dwarka associated with 400/220 KV
substation in NCT Delhi

Annexure I

Toposheet Scale : 1cm=500mts
 Total Length : 8.752 Kms
 S.R Value : 8,000 Ohm-cm

Sl. No.	Name of Telecom Line	LOP in Kms	MC in Ohms	Fault Current (Amps)	IV in Volts
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BSNL
 Reference No. DET/PTCC/ND/DV-9572/ND-225/20201-21 Dated:- 02.11.2020
 Date :

MTNL Details					
1	MTNL TE Sec 6 Dwarka to Sec 13 Dwarka via Sec 4 & 3, 2400 x 4 Pair (3 KM)	}	IV	less	than 430V
2	Samsabad to Samsabad, 1200 Pairs (2.5 KMS)				
3	Samsabad to Samsabad, 1200 Pairs (2.5 KMS)				
4	Samsabad to Samsabad, 800 Pairs (2 KMS)				

Jainy

तमिल/ TANJU
 कलकत्ता विभाग-II/Arvt. Div. 10-11
 के.पी.डी. विभाग/PTCC/ND/DV-9572/ND-225/20201-21
 दिनांक 02.11.2020
 भारत सरकार/Ministry of P & T
 नई दिल्ली/NEW DELHI

(Selu)
Case No.: UP-499

of the Power Line: LILO of Single Ckt of 400 KV D/C
Bamnauli- Jhatikara Transmission Line at
Dwarka associated with 400/220 KV
substation in NCT Delhi

Annexure II
Toposheet Scale : 1cm=500mts
Total Length : 8.754 Kms
S.R Value : 8,000 Ohm-cm

Sl. No.	Name of Telecom Line	LOP in Kms.	MC in Ohms	Fault Current (Amps)	IV in Volts
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DMRC Details					
1	Dwarka Sec 12 to Dwarka Sec 11, 1 x 24 Pair (1.257 KM) Single Mode Fiber upirack	}			IV less than 430V
2	Dwarka Sec 12 to Dwarka Sec 11, 1 x Pair (1.251 KM) Single Mode fiber DN Track				
3	Dwarka Sec 12 to Dwarka Sec 11, 4 x 1x 0.9 (2 cables) (0.182 KM) Armoured				
4	Dwarka Sec 12 to Dwarka Sec 11, 8 x 1x 1.4 (0.270KM) Dwarka Sec 12 to Dwarka Sec 11, 12 x 1x 0.9 (0.299KM) Armoured.				
5	Dwarka Sec 12 to Dwarka Sec 11, 1 x 4 x 1.4 (0.294KM) Loop Cable Armoured				
6	Dwarka Sec 12 to Dwarka Sec 11, 1 x 4 x 0.9 (0.516KM) Track circuit Cable UnArmoured				
7	Dwarka Sec 12 to Dwarka Sec 11, 1 x 4 x 1.4 (0.850KM) Track circuit Cable UnArmoured				
8	Dwarka Sec 11 to Dwarka Sec 12, 1 x 4 x 1.4 (0.371KM) Track circuit Cable UnArmoured				

Jain

संयुक्त/TA/ML/J
संयुक्त निदेश/Assd. Eng. : J
केन्द्रीय विद्युत नियंत्रण बोर्ड
विद्युत वि. वि. वि. Ministry of P. & C
भारत सरकार/GOVT. of India
नई दिल्ली/New Delhi-110053

ANNEXURE - III

Case No.: UP-499					
Name of the Power Line: LILO of single circuit of 400 kV D/C Barnauli- Jhatikara transmission line at Dwarka associated with 400/220 kV Substation in NCT of Delhi during 12 th Plan period.		Map Scale : 1 cm = 500 m. Route Length : 8.757 km Soil Resistivity : 8,000 Ohm-cm			
S.No.	Telecom Details	Length of Parallelism (in km)	Mutual Coupling (Ohms)	Fault Current (Amps)	Induced Voltage (Volts)
NORTHERN RAILWAY Ref. No:342-SIG/1/PTCC DATED: 10.07.2019					
<u>Affected Blocks & Telecom Circuits Details</u>					
1	Delhi Cantt R/S to Palam R/S	Out of parallelism			00
2	Palam R/S to Shahabad Mohammadpur	2.9	0.0006	9819	06
3	Shahabad Mohammadpur to Bijwasan R/S	3.1	0.0008	9932	08



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