



भारत सरकार  
Government of India  
विद्युत मंत्रालय  
Ministry of Power  
केन्द्रीय विद्युत प्राधिकरण  
Central Electricity Authority  
विद्युत संचार विकास प्रभाग  
Power Communication Development Division  
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Case No.: RAJ-652

PTCC proposal of 765 kV D/C Khetri to Jhatikara transmission line: 145.964 km

Reference:		Dated
S. No.	Reference No	
(i)	PGCIL:NR1/PKTSL/765KV Khetri-Jhatikara/PTCC/CEA/37	29.10.2020
(ii)	BSNL: DET/PTCC/ND/DV-9797/Raj-1285/2020-21	29.04.2021
(iii)	Northern Railway: 342-SIG/1/PTCC/2021-22/08/09	30.08.2021
(iv)	North Western Railway: SG/158/NWR/PTCC/776	10.06.2020
(v)	Defense: B/46937/Sigs 7(b)/2055	01.04.2021

The PTCC proposal submitted vide reference (i) has been examined. The LF induction on telecom cables of BSNL, Block & Telecom circuits of Northern Railway and North Western Railway with respect to details furnished vide above reference (ii), reference (iii) and reference (iv) respectively has been computed. The voltages likely to be induced on paralleling telecom cables of BSNL and Block & Telecom circuits of Northern Railway and North Western Railway under Single Line to Ground fault condition are enclosed at Annexure-I, Annexure-II and Annexure-III respectively. The screening factors, as applicable, have been considered. The Defense Authority have accorded NOC vide above reference (v) for this 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 RAGHUPADRA PRATAP SINGH  
Date: 2021.09.08 14:37:18 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.	Annexure-I only
2.	AESTE/UTS	Northern Railway, Headquarters Office, Baroda House, New Delhi-110001.	Annexure-II only
3.	Dy. CSTE/Tele, NWR, Jaipur	NWR, Head Quarter Office, Room No. 136, First Floor, Near Jawahar Circle, Jaipur-302017.	Annexure-III only
4.	Dy. Manager	Powergrid Khetri Transmission System Limited; 765/400/220 kV Khetri Substation, Village- Jasarapur, Tehsil-Khetri, District-Jhunjhunu-333514.	Copy for information

Case No. : **RAJ-652**

Name of the Power Line: **765 KV D/C Khetri- Jhatikara Transmission Line**

Annexure I

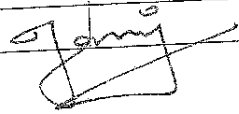
Toposheet Scale : 1cm=500mts  
 Total Length : 145.964 Kms  
 S.R Value : 7500, 15000 Ohm-cm  
 & 40,000

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. No. DET/PTCC/ND/DV-9797/Raj-1285/2020-21 Dated:- 29.04.2021

BSNL Details					
1	Kund to Manethi 100 Pair ( 2 KM)				
2	Kund to Parla 50 Pair ( 2.5 KM)				
3	Kund to Majra Mutsiol Bhalki 50 Pair ( 2.5 KM)				
4	Kund to Bhalki 50 Pair ( 3.5 KM)				
5	Kund to Ahrod 50 Pair ( 6 KM)				
6	Kund to Basduda 50 Pair ( 8 KM)				
7	Dahima to Kandwali 100 + 50 Pairs (2 KM)				
8	Dahima to Zianabad 100 + 100 Pairs (2 KM)				
9	Dahima to Dhani thethrabad 50 Pairs (4 KM)				
10	Dahima to Nimaut 50 Pairs (6 KM)				
11	Dahima to Gothra tappa Dahima 20 Pairs (5 KM)				
12	Mundi to Pranpura 50 Pairs (2 KM)				
13	Mundi to Bas 20 Pairs (2 KM)				
14	Mundi to Bas Baturi 50 Pairs (3 KM)				
15	Mayan to Nandha 50 + 20 Pairs (3 KM)				
16	Mayan to Balwari 100 Pairs (2 KM)				
17	Mayan to Khaleta 50 Pairs (2 KM)				
18	Mayan to Gothra Tappa Khori 50 Pairs (2.5 KM)				
19	Mayan to Mamria Ahir 50 Pairs (2 KM)				
20	Mayan to Mamria Thathar 20 Pairs (3 KM)				
21	Mayan to Mamria Asanpur 20 Pairs (4 KM)				
22	Mayan to Nangla 20 Pairs (1.52 KM)				
23	Lohana to Buroli 50 Pairs (4 KM)				
24	Lohana to BDhawana 50 Pairs (2 KM)				
25	Lohana to Siha 50 Pairs (3 KM)				
26	Mandola to Bohka 50 Pair (3 KM)				
27	Mandola to Khol 100 + 50 Pair (4 KM)				

*IV less than 430V*



Director  
 Telecom Administration  
 Govt. of India  
 New Delhi-66

Case No. : **RAJ-659**

Annexure I

Name of the Power Line: **765 KV D/C Khetri- Jhatikara Transmission Line**

Toposheet Scale : 1cm=500mts  
 Total Length : 145.964 Kms  
 S.R Value : 7500, 15000 Ohm-cm  
 & 40000

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.

BSNL Details					
28	Bhalotu to Bhalotu 100 pair ( 0.4 KM)				
29	Bhalotu to Bhalotu 200 pair (2 KM)				
30	Bhalotu to Nihalotu 20 pair ( 4 KM)				
31	Bhalotu to Meghpur Panthroli 50 pair ( 4 KM)				
32	Buhana to Kalakhari 50 pair( 4 KM)				
33	Buhana to Palota 20 pair( 3 KM)				
34	Pacheri to Bhirr 50 pair( 5 KM)				
35	Pacheri to Rasoolpur 50 pair, 20 pair ( 4 KM)				
36	Pacheri to Pacheri Khurd 50 pair( 2 KM)				
37	Pacheri to Ramsar 20 pair( 3 KM)				
38	Pacheri to Alipur 10 pair( 4 KM)				
39	Pacheri to Shivsinghpur 20 pair( 3.5 KM)				
40	Khetri nagar to Khetri nagar 800 Pairs ( 1.5 KM)				IV less than 430V
41	Khetri nagar to Khetri nagar 200 Pairs ( 12 KM)				
42	Khetri nagar to Singhana 200 Pairs ( 2 KM)				
43	Khetri nagar to Singhana Thana 400 Pairs ( 3 KM)				
44	Khetri nagar to Singhana 100 Pairs ( 3 KM)				
45	Khetri nagar to Khetri nagar 50 Pairs ( 7 KM)				
46	Khetri nagar to Singhana 20 Pairs ( 5 KM)				
47	Gharana Khurd to Gharana kalan 20 Pair (3 KM)				
48	Gharana Khurd to MOP 50 Pair (5 KM)				
49	Gharana Khurd to Amnarpura 50 Pair (7 KM)				
50	Puhania to Bhaswata Khurd 50 pair ( 5 KM)				
51	Puhania to Dhedhot 50 pair ( 5 KM)				
52	Khetri Nagar Exch to Hospital Pillar 800 Pair ( 1.5 KM)				

*[Handwritten Signature]*

भारतीय दूरसंचार निगम  
 भारत सरकार  
 दूरसंचार विभाग/Ministry of Power  
 और दूरसंचार/Dept. of Power  
 and Telecom, New Delhi-66

Case No. : RAJ-65-2

Name of the Power Line: 765 KV D/C Khetri- Jhatikara Transmission Line

Annexure I

Toposheet Scale : 1cm=500mts  
 Total Length : 145.964 Kms  
 S.R Value : 7500, 15000 Ohm-cm  
 & 40000

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.					
BSNL Details					
53	Khetri Nagar Exch to Raj Sr. School 400 Pair ( 1.5 KM)				
54	Khetri Nagar Exch to Khetri Nagar 200 Pair ( 11.5 KM)				
55	Khetri Nagar Exch to Bagh Ki Dhani 200 Pair ( 3.5 KM)				
56	Khetri Nagar Exch to III B , Khetri nagar 400 Pair ( 3.5 KM)				
57	Khetri Nagar Exch to IA , Khetri nagar 100 Pair ( 2 KM)				
58	Khetri Nagar Exch to KVS School 200 Pair ( 1 KM)				
59	Khetri Nagar Exch to Khetri Nagar 20 Pair ( 5 KM)				
60	Khetri Nagar Exch to Khetri Nagar 10 Pair ( 5 KM)				
61	Khetri to Nanu wali Baoti 400 Pair ( 8 KM)				IV less than 430V
62	Khetri to Nanu wali Baoti 200 Pair ( 3.5 KM)				
63	Khetri to Nanu wali Baoti 100 Pair, 50 Pair ( 4 KM)				
64	Khetri to Nanu wali Baoti 20 Pair, 10 Pair ( 5 KM)				
65	Khetri to Khetri 5 Pair ( 4 KM)				
66	Simla to Rawan mandti 50 Pair, 20 Pair ( 9 KM)				
67	Simla to Dochana Ki Dhani 20 Pair ( 4 KM)				
68	Simla to Doodwa 50 Pair ( 3 KM)				
69	Simla to Simla 100 Pair, 50 Pair ( 2 KM)				
70	Simla to Simla 20 Pair, 10 Pair, 5 Pair ( 4.5 KM)				
71	Jasrapur to Jasrapur 100 Pair, 50 Pair ( 2 KM)				
72	Jasrapur to Jasrapur 20 Pair, 10 Pair, 5 Pair ( 4 KM)				
73	Barsu ro barsu 100 Pair, 50 Pair ( 2.2 KM)				
74	Barsu to Barsu 20 Pair, 10 Pair, 5 Pair ( 5 KM)				

*[Signature]*  
 Director II  
 New Delhi-06

**ANNEXURE-II**

**Case No.:** RAJ-652  
**Name of the Power line:** 765 kV D/C Khetri to Jhatikara transmission line.

**Map Scale** : 1 cm=500 m  
**Total Length** : 145.964 km  
**S.R. Value** : 40,000 & 15,000 Ω-cm

S.No.	Telecom. Details	Length of Parallelism in Km.	Mutual Coupling in Ohms.	Effective Fault current in Amps.	LV in Volts.
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Northern Railway Ref. No.: 342-SIG/1/PTCC/2021-22/08/09 Dated: 30.08.2021

**Affected Blocks & Telecom Circuits Details**

**Delhi-Rewari Section**

1	Bijwasan R/S to Gurgaon R/S	0.4	0.0001	19826	02
2	Gurgaon R/S to Basai Dhankot R/S	0.3	0.0001	19724	02
3	Basai Dhankot R/S to Garhi Harsaru R/S	1.8	0.0004	18356	07
4	Garhi Harsaru R/S to Patli R/S	2.8	0.0007	17241	12
5	Patli R/S to Jataula Jauri Sampka R/S	5	0.0019	16468	31
6	Jataula Jauri Sampka R/S to Pataudi Road R/S	0.7	0.0003	16414	05
7	Pataudi Road R/S to Inchhapuri R/S	3.9	0.0012	15724	19
8	Inchhapuri R/S to Khalilpur R/S	Outside IV Consideration zone			00
9	Khalilpur R/S to Rewari R/S	Outside IV Consideration zone			00

**Garhi Harsaru- Farukhnagar Section**

1	Garhi Harsaru R/S to Farukhnagar R/S	5.9	0.0035	17861	63
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Director  
 Northern Railway  
 New Delhi-05

Director  
 Northern Railway  
 New Delhi-05

**ANNEXURE-III**

Case No.: RAJ-652

Name of the Power line: 765 kV D/C Khetri to Jhatikara transmission line.

Map Scale : 1 cm=500 m  
 Total Length : 145.964 km  
 S.R. Value : 7,500 ohm-cm

S.No.	Telecom. Details	Length of Parallelism in Km.	Mutual Coupling in Ohms.	Effective Fault current in Amps.	I.V in Volts.
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North Western Railway Ref. No.: SG/158/NWR/PTCC/776

Dated: 10.06.2020

**Affected Blocks & Telecom Circuits Details**

1	Ateli to Kathuwas	1.4	0.0001	10685	01
2	Kathuwas to Kund	1.1	0.0001	10548	01
3	Rewari to Nangal Mundi	Out of Parallelism			00
4	Nangal Mundi to Dahina Zainabad	7.4	0.0007	11507	08
5	Dahina Zainabad to Kanina Khas	0.8	0.0001	10822	01
6	Rewari to Kishangarh Balawas	Outside IV consideration zone			00
7	Kishangarh Balawas to Jatusana	4.2	0.0016	12877	21
8	Jatusana to Kosli	Out of Parallelism			00

*Jamij*

प्रमुख/TA/101  
 भारतीय रेलवे/एन.ए.सी. डी.डी.  
 प्रमुख/एन.ए.सी. डी.डी.  
 प्रमुख/एन.ए.सी. डी.डी.  
 प्रमुख/एन.ए.सी. डी.डी.