



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.: RAJ-637	df. 27/08/21
PTCC proposal of 400 kV D/C Khetri to Sikar transmission line: 78.083 km	

Reference:		
Sl. No.	Reference No	Dated
(i)	PGCIL:NRI/PKTS/400KV Khetri-Sikar/PTCC/CEA	20.07.2020
(ii)	BSNL: DET/PTCC/ND/DV-9747/Raj-1273/2020-21	08.01.2021
(iii)	North Western Railway: SG/158/NWR/PTCC/775	10.06.2020
(iv)	Defense: B/46937/Sigs 7(b)/2106	07.10.2020

The PTCC proposal submitted vide reference (i) has been examined. The LF induction on telecom cables of BSNL and Block & Telecom circuits of North Western 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 Western 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 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
RAGHVENDRA PRATAP SINGH
Date: 2021.08.27 14:41:18 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.	Dy. CSTE/Tele, NWR, Jaipur	NWR, Head Quarter Office, Room No. 136, First Floor, Near Jawahar Circle, Jaipur-302017	Annexure-II only
3.	Dy. Manager	Powergrid Khetri Transmission System Limited; 765/400/220 kV Khetri Substation, Village- Jasrapur, Tehsil-Khetri, District-Jhunjhunu-333514.	Copy for information

Case No. RAJ-637

Annexure I

Toposheet Scale : 1cm=500mts
 Total Length : 78.083 Kms
 S.R Value : 2,000 Ohm-cm

Name of the Power Line: 400 KV DC Khetri- Sikar Transmission line

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-9747/Raj-1273/2020-21		Dated:- 08.01.2021			
BSNL Details					
1	Binjuvsar to Ajuri Kaian 50 Pair (4 KM)				
2	Ajuri Kaia to Bas Nanay 5 pair (2.5 KM) Indali to Dorasar 50 pair, 20 pair (3 KM)				
3	Indali to barun da Kala 500 pair, 50 Pair (4 KM)				
4	Chanana to Bhukana 50 pair (3.5 KM)				
5	Chanana to Loyal 50 pair (4 KM)				
6	Chanana to Bhramino Ki Dhani 10 pair (5 KM)				
7	Chanana to Gowala 50 pair (3.5 KM)				
8	Chanana to Chanana 400 pair x 1 (1.2 KM)				
9	Chanana to Chanana 200 pair x 4 (6 KM)				
10	Chanana to Chanana 100 pair x 15 (12 KM)				
11	Chanana to Chanana 50 pair x 10 (13 KM)				
12	Chanana to Chanana 20 pair x 50 (17 KM)				
13	Chanana to Chanana 10 pair x 100 (8 KM)				
14	Jasrapur to jasrapur 100 pair, 50 pair (2 KM)				
15	Jasrapur to jasrapur 20 pair, 10 pair, 5 pair (4 KM)				
16	Barau to barau 100 pair, 50 pair (2.2 KM)				
17	Barau to barau 20 pair, 10 pair, 5 pair (5 Km)				
18	Baragaon to Hasalsar 50 pair (2 KM)				
19	Baragaon to Natas 20 pair (3 KM)				
20	Baragaon to Bajaur 100 pair (4 KM) Baragaon to seethal 50 pair, 20 pair (3 KM)				
21	Titanwar to Sunthati 100 pair (2 KM) Titanwar to Khedro ki Dhani 50 pair, 20 pair (1 KM) Titanwar to Meeno ki Dhani 100 pair, 20 pair (2 KM)				
22	Chandsary to Khinwasar 100 pair, 50 pair (2 KM)				
23	Chandsary to Bhatiwad, 50 pair (3 KM)				
24	Chandsary to balaji Stand 100 pair (3 KM)				
25	Chandsary to ked village 20 pair, 30 pair (3.5 KM)				

IV less than 430V

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Case No. : RAJ-637

Annexure I

Toposheet Scale : 1cm=500mts
 Total Length : 78.083 Kms
 S.R Value : 2,000 Ohm-cm

Name of the Power Line: 400 KV DC Khetri- Sikar Transmission line

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					
26	Chandsary to Mundo ki Dhani 50 pair, 20 pair (4 KM)				
27	Barwasi to Sultanpura 100 pair(4 KM)				
28	Barwasi to Keru 50 pair(7 KM)				
29	Barwasi to Kolsiya 50 pair(5.5 KM)				
30	Barwasi to Newai 50 pair(5.5 KM)				
31	Barwasi to Milo ka Bag 50 pair (4 KM)				
32	Barwasi to dako Ka Bag 50 pair (4 KM)				
33	Sultanpura to neai 50 pair (3 KM)				
34	Jakhal to kari 100 pair(4 KM)				
35	Jakhal to Bugala 100 pair, 50 pair (4 KM)				
36	Jakhal to Dudiyo Ki dani 50 pair (5 KM)				
37	Jakhal to paniyo ki Dani 20 pair (6 KM)				
38	Jakhal to Hanumanji ki Dani 20 pair (7 KM)				
39	Navalgarh to Navalni 100 pair (6 KM)				
40	Navalgarh to Balutpura 50 pair (6 KM)				
41	Navalgarh to Sunari Kua 200 pair, 100 pair (2 KM)				
42	Navalgarh to Navalgar 200 pair (0.5 KM)				
43	Navalgarh to Navalgar 800 pair (1.5 KM)				
44	Mukandgarh to Dundlod 100 pair (6 KM)				
45	Mukandgarh to Balaria 100 pair (6 KM)				
46	Mukandgarh to Kaseru 50 pair (5 KM)				
47	Mukandgarh to Ghosiwara 50 pair (4 KM)				
48	Jesjsar to Doomra 100 pair (5 KM)				
49	Jesjsar to Kumawas 50 pair (6 KM)				
50	Jesjsar to Sotwara 50 pair (5 KM)				

IV less than 430V

Case No. : **RAJ-637**

Annexure I

Toposheet Scale : 1cm=500mts
 Total Length : 73.083 Kms
 S.R Value : **2,000** Ohm-cm

Name of the Power Line: 400 KV DC Khetri- Sikar Transmission line

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					
51	Bidasar to Birodi Bari 50 pair (5 KM)				
52	Birdo Chati to Birodi Bari 50 pair (2 KM)				
53	Bidasar to Khiwasar 50 pair (3 KM)				
54	Bidasar to Mirjawas 50 pair, 20 pair (4KM)				
55	Bidasar to Panlawar 50 pair (5KM)				
56	Bidasar to Punia Ka Bas 50 pair (4KM)				
57	Bidasar to Bidasar 50 pair (4KM)				
58	Punia Ka Bas to kalyanpura 20 pair (2 KM)				
59	Birodi badi to Barman Ki Dhani 20 pair (3 KM)				
60	Birodi badi to GSS Birodi 10 pair (2 KM)				
61	Birodi Chhoti to Gojiyo Ka Bas 20 pair (2 KM)				
62	Bidasar to Moli Ka bas 20 pair (4 KM)				
63	Balaran to Kheri 50 pair (4.1 KM)				
64	Balaran to ranawa 50 pair(5 KM)				
65	Khirwa to Phadhanpura 100 pair (2.5 KM)				
66	Khirwa to Dudwa 100 pair(3 KM)				
67	Dudwa to bagriyo ka bas 20 pair (2 KM)				
68	Khirwa to bau 50 pair (4 KM)				
69	Gassu Ka Bas to Ghassu 100 pair (2.5 KM)				
70	Gassu to Khoru 100 pair (2.5 KM)				
71	Gassu ka bas to Khuri 100 pair (4KM)				
72	Gassu ka bas to Partapura 50 pair (5KM)				
73	Gassu ka bas to Narodra 100 pair (5 KM)				
74	Gassu ka bas to Lalasi 150 pair (4KM)				
75	Lalasi to Thorasi 20 pair (2 KM)				
76	Khuri to jasrasar 50 pair (5 KM)				
77	Lalasi to bau 20 pair (2 KM)				
78	Beri to Kolida 200 pair, 100 pair (5 KM)				
79	Beri to Local village 100 pair (3KM)				

IV less than 430V

Case No.: RAJ-637

Annexure I

Toposheet Scale : 1cm=500mts
Total Length : 78.083 Kms
S.R Value : 2,000 Ohm-cm

Name of the Power Line: 400 KV DC Khetri- Sikar Transmission line

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.						
80	BSNL Details					
81	Kundan to Jerthi 200 pair (5KM)					
82	Kundan to Gothna Bhuu 50 pair (3 KM)					
83	Kundan to Ajeetpura 50 pair (2. 5KM)					
84	Kundan to Palari 50 pair (5KM)					
85	Kundan to Local Village 400 pair (2KM)					
86	Jhaghar Choti to Bheronpura 100 pair (4KM)					IV less than 430V.
87	Jhaghar Choti to Jhgighan Beoli 50 pair (2.5 KM)					
88	Rasidpura to Malasi 20 pair (4 KM)					
89	Rasidpura to Bhadhar 50 pair (3 KM)					
90	Rasidpura to Pathana 100 pair (5 KM)					
91	Bidasar to balaran 6 F Armoured cable (11 KM)					

तनुज TANUJ
साहायक 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-13

ANNEXURE-II

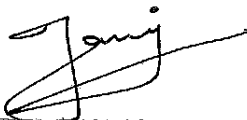
Case No.: RAJ-637 Name of the Power line: 400 kV D/C Khetri to Sikar transmission line.		Map Scale : 1 cm=500 m Total Length : 78.083 km S.R. Value : 2,000 ohms-cm			
S.No.	Telecom. Details	Length of Parallelism in Km.	Mutual Coupling in Ohms.	Effective Fault current in Amps.	I.V in Volts.

North Western Railway Ref. No.: SG/158/NWR/PTCC/775

Dated: 10.06.2020

Affected Blocks & Telecom Circuits Details

1	Sikar to Lacchhmangarh Sikar	3.8	0.0042	14759	62
2	Sikar to Nawalgarh	1.2	0.0011	9826	11
3	Nawalgarh to Dundlod Mukangarh	4.2	0.0006	9615	06
4	Dundlod Mukangarh to Nua	Outside IV consideration zone			00



तनुज/TANUJ
सहायक निदेशक-II/Asstt. Director-II
केन्द्रीय विद्युत प्राधिकरण/C.E.A.
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