



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-651:	17.05.2 Dt. :17.05.2
PTCC proposal of 220 KV S/C Balotra to HRRL (Refinery) transmission line (approx. 36 km).	

Reference:		
S. No.	Reference No.	Dated
(i)	RVPNL : RVPN/XEN(PTCC)/JPR/F.1880-A/D.115	20.10.2020
(ii)	BSNL: DET/PTCC/ND/DV-9706/Raj-1265/2020-2021	01.03.2021
(iii)	North Western Railway: SG/158/NWR/PTCC/773	29.05.2020
(iv)	Defense: B/46937/ Sigs 7(b)/2046	02.11.2020

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 the proposed power line.

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

Encl.: As above.

*Jamuj*  
Asst. Director

For Director

To,

*MIC*

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	North Western Railway, Head Quarter Office, Room No. 136, First Floor, Near Jawahar Circle, Jaipur-302017	Annexure-II only
3.	Executive Engineer (PTCC), Jaipur	RVPNL, Vidyut Bhawan, Janpath, Jyoti Nagar, Jaipur-302005	Copy for information

Case No. : RAI-651

Annexure I

Toposheet Scale : 1cm=500mts  
 Total Length : Approx 36 Kms  
 S.R Value : 10,000 Ohm-cm

Name of the Power Line: 220 KV S/C Baltora- HRRL(Refinery) 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. DET/PTCC/ND/DV-9706/Raj-1265/20201-21 Dated:- 01.03.2021  
 Date:

BSNL Details					
1	Baltora T Exch to Pillar Road 1000 Pair (2 KM)				
2	Baltora T Exch to Pillar Road 1000 Pair (0.5 KM)				
3	Baltora T Exch to Pillar Road 1000 Pair (1.5 KM)				
4	Baltora T Exch to Pillar Road 400 pair x 4 (2 KM)				
5	Baltora T Exch to Pillar Road 400 pair x 2 (0.5 KM)				
6	Baltora T Exch to Pillar Road 400 pair x 2 (1.5 KM)				
7	Baltora T Exch to Pillar Road 200 pair (1.5 KM)				
8	Baltora T Exch to Pillar Road 200 pair (1 KM)				
9	Baltora T Exch to Pillar Road 100 pair (1.5 KM)				
10	Baltora T Exch to Pillar Road 100 pair (1.2 KM)				
11	Baltora T Exch to Pillar Road 200 pair (1.8 KM)				
12	Pachdadra T exch to Pillar road 400 pair (2 KM)				
13	Pachdadra T exch to Pillar road 100 pair (2 KM)				
14	Pachdadra T exch to Pillar road 50 pair (2 KM)				

IV less than 430V

तनुज/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-66

ANNEXURE-II

<b>Case No.: RAJ-651</b> <b>Name of the Power line: 220 KV S/C Balotra to HRRL</b> (Refinery) transmission line.			Map Scale : 1 cm=500 m Total Length : 36 km (Approx.) S.R. Value : 10,000 ohm-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/773

Dated:29.05.2020

Affected Blocks & Telecom Circuits Details

S.No.	Telecom. Details	Length of Parallelism in Km.	Mutual Coupling in Ohms.	Effective Fault current in Amps.	I.V in Volts.
1	Tilwara to Balotra	0.8	0.0002	9778	02
2	Balotra to Janiyana	6.5	0.0026	7361	19
3	Janiyana to Parlu	0.7	0.0001	6917	01



तनुज/TANUJ  
 सहायक निरीक्षक-II/Asstt. Director-II  
 केन्द्रीय विद्युत प्राधिकरण/C.E.A.  
 विद्युत विभाग/Ministry of Power  
 भारत सरकार/Govt. of India  
 नई दिल्ली/New Delhi-88

29/05/2020  
 10:00 AM