



भारत सरकार
Government of India
विद्युत मंत्रालय
Ministry of Power
केन्द्रीय विद्युत प्राधिकरण
Central Electricity Authority
विद्युत संचार विकास प्रभाग
Power Communication Development Division

CEA Case No. : HRA-243: / 437 - 439 PTCC proposal for 220 kV D/C line from 220 kV S/S Deroli Ahir to 220 kV S/S Narnaul :13.113 km

Reference:		
S. No.	Reference No.	Dated
(i)	HVPNL: Ch-20/HDP2397/Correspondance & EPR details received mail dated 27.05.2022	20.05.2021
(ii)	BSNL: DET/PTCC/ND/DV-9912/HR-869/2021-2022	26.07.2021
(iii)	North Western Railway : SG/158/NWR/PTCC/835	20.07.2021
(iv)	Defense : B/46937/Sigs 7(b)/2470	08.10.2021

The PTCC proposal submitted vide reference (i) has been examined. The low frequency 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. Vide above reference (iv), Defence Authority have issued No Objection Certificate (NOC).

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

Encl.: As above.

राज्य के मुख्य प्रशासक
Director 1.06.22

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
2.	Dy. CSTE/Tele	NWR/Jaipur, Head Quarter Office, Room No. 136, First Floor, Near Jawahar Circle, Jaipur-302017.	Annexure-II
3.	XEN/TS Division	HVPNL; O/o EE, T.S. Division, Rewari-123401.	Copy for information

File No.CEA-PS-17-11(11)/30/2022-PCD Division



आजादी का
अमृत महोत्सव

भारत सरकार
Government of India
विद्युत मंत्रालय
Ministry of Power
केन्द्रीय विद्युत प्राधिकरण
Central Electricity Authority
विद्युत संचार विकास प्रभाग
Power Communication Development Division

के.वि.प्रा. केस सं. : HRA-243: 437-439
पी.टी.सी.सी. प्रस्ताव 220 kV D/C line from 220 kV S/S Deroli Ahir to 220 kV S/S Narnaul :13.113 km

क्रमांक	सन्दर्भ सं.	दिनांक
(i)	HVPNL: Ch-20/HDP2397/Correspondance & EPR details received mail dated 27.05.2022	20.05.2021
(ii)	BSNL: DET/PTCC/ND/DV-9912/HR-869/2021-2022	26.07.2021
(iii)	North Western Railway : SG/158/NWR/PTCC/835	20.07.2021
(iv)	Defense : B/46937/Sigs 7(b)/2470	08.10.2021

संदर्भ (i) द्वारा प्रस्तुत पीटीसीसी प्रस्ताव की जांच की गई है। बी.एस.एन.एल. के टेलिकॉम केबलों एवं उत्तर पश्चिम रेलवे के ब्लॉक और टेलीकॉम सर्किट पर निम्न आवृत्ति प्रेरण गणना क्रमशः उपरोक्त संदर्भ (ii) और संदर्भ (iii) में दिए गए विवरणों के संबंध में की गई है। सिंगल लाइन टू ग्राउंड फॉल्ट की स्थिति के तहत बी.एस.एन.एल. और उत्तर पश्चिम रेलवे के ब्लॉक और टेलीकॉम सर्किट के समानांतर दूरसंचार केबलों पर प्रेरित होने की संभावना वाले वोल्टेज क्रमशः अनुलग्नक-I और अनुलग्नक-II में संलग्न हैं। स्क्रीनिंग कारक का मान यथानुरूप लिया गया है। उपरोक्त संदर्भ (iv) द्वारा, रक्षा प्राधिकरण ने अनापत्ति प्रमाण पत्र (एन.ओ.सी.) जारी किया है।

उपरोक्त को ध्यान में रखते हुए, पीटीसीसी मार्ग अनुमोदन जारी करने के लिए आवश्यक कार्रवाई की जाए।
संलग्न: ऊपरोक्त अनुसार

राज्य केन्द्र प्रताप सिंह
निदेशक 01.06.2022

To,

1.	Divisional Engineer (PTCC), Northern Zone	BSNL O/o PGM (N), QA & Inspection Circle, D-Tax Building, Eastern Court, Janpath, New Delhi- 110001.	अनुलग्नक-I
2.	Dy. CSTE/Tele	NWR/Jaipur, Head Quarter Office, Room No. 136, First Floor, Near Jawahar Circle, Jaipur-302017.	अनुलग्नक-II
3.	XEN/TS Division	HVPNL; O/o EE, T.S. Division, Rewari-123401.	जानकारी हेतु

Case No. : HRA-243

Annexure I

Name of the Power Line: 220 KV D/CTransmission Line from 220 KV S/Stn Deroli Ahir to 220 KV S/Stn Narnaul

Toposheet Scale : 1cm=500ms
 Total Length : 13.113 Kms
 S.R Value : 7,500 Ohm-cm

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

BSNL

Reference No. DET/PTGC/ND/DV-9912/HR-869/2021-22 Dated:- 26.07.2021

BSNL Details					
	Kojnda to Khanpur 20 pair, 5 KM				
	Kojnda to Mondhana Khurd 100 pair, 4 KM				
	Nngal Choudhary Road to Tazipur 20 Pair 1.5 KM				
	Narnaul to Kodinja 200 pair 4 KM				
	Kadipur Chowk to Seka 50 pair 2 KM				
	Kadipur Chowk to Bhusan Kalan 50 Pair 3 KM				
	Kadipur Chowk to Shobhapur 50 pair 4 KM				
	Narnaul to Patikra 200 pair 4 KM				
	Narnaul to Mirpur 100 pair				
	Narnaul to Surana 20 pair 8 KM				
	Bachhot to Surani 100 pair 2 KM				
	Narnaul to Chhapra Salimpur 40 pair 8 KM				
	Bachhot to Mirpur bachhod 400 pair 2 KM				
	Bachhot to Jat Guwani 20 pair 6 KM				IV less than 430V
	Bachhot to Guwani 100 pair 6 KM				
	Bachhot to Dablana 50 pair 5 KM				
	NSB to Barkoda 100 pair 4 KM				
	Bachhot to Saluni 100 pair 5 KM				
	Simha to Khaspur 50 pair 2 KM				
	Bachhot to Khatri pur 50 pair 6 KM				
	Simha to Khampura 50 pair 2 KM				
	Simha to Sagarpur 50 pair 2 KM				
	Ateli to Gujrawas 50 pair 2 KM				
	Rataa to Katki 50 Pair 3 KM				
	NSB to Silarpur 20 pair 3 KM				
	Simha to Deroli Ahir 20 pair 3 KM				
	Simha Exchange to Simha 400 pair 3 KM				
	Simha to Atali 50 pair 4 KM				
	Dongar Ahir Exchange to Dongra Ahir 200 Pair 2 KM				
	Mahendergarh to beri 50 pair 5 KM				
	Nangal Sirohi Exchange to nangal Sirohi 200 pair 4 KM				

(1/2)

तनुज / TANDU
 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

ANNEXURE – II

CEA Case No.: HRA-243
Name of the Power line: 220 kV D/C line from 220 kV S/S Deroli Ahir to 220 kV S/S Narnaul.

Map Scale : 1 cm=500 m
Total Length : 13.113 km
S.R. Value : 7,500 Ω -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/835 Dated: 20.07.2021

Affected Blocks & Telecom Circuits Details

1	Nizampur – Amarpur Jorasi	Outside IV Consideration Zone			00
2	Amarpur Jorasi – Narnaul	Out of Parallelism			00
3	Narnaul – Mirzapur Bachod	0.6	0.0001	9890	01
4	Mirzapur Bachod – Ateli	Outside IV Consideration Zone			00

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