

I/24751/2022



विद्युत संचार विकास प्रभाग
POWER COMMUNICATION DEVELOPMENT DIVISION

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. : UP-581		
PTCC approval of 220 kV D/C Saharanpur-Deoband transmission line. -Regd.		
S. No	Reference No.	Dated
(i)	UPPTCL: 128/विपाखदिस/ETD-II/SRE/PTCC	22.09.2021
(ii)	UPPTCL: 5080/विपाखदिस/ETD-II/SRE/	07.10.2022
(iii)	UPPTCL: 5346/विपाखदिस/सोपुर/ETD-II/SRE/	29.11.2022
(iv)	BSNL: DET/PTCC/ND/DV-99687/UP-999/2022-2023	07.10.2022
(v)	Northern Railway: 342-SIG/1/PTCC/2021-22/10/02	06.10.2021
(vi)	Defense: B/46937/ Sigs 7(b)/2584	09.11.2021

The PTCC proposal submitted vide reference (i), (ii) & (iii) has been examined. The LF induction on block & telecom circuits of Northern Railway with respect to details furnished vide above references (v) has been computed. The voltages likely to be induced on paralleling block & telecom circuits of Northern Railway under Single Line to Ground fault condition are enclosed at Annexure-I. The screening factors, as applicable, have been considered. BSNL and Defense Authority have issued No Objection Certificate (NOC) vide reference (iv) & (vi) respectively.

EPR zone for new 220/132/33 kV S/S at Deoband is mentioned below:

Voltage Level (v)	430	650	7000	10000
EPR Zone (m)	288	173	N.A	N.A

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

Encl.: As above

Digitally Signed by Upendra
Kumar
Date: 02-12-2022 10:17:56
Reason: Approved
Chief Engineer

To,

1.	Divisional Engineer (PTCC), Northern Zone	O/o PGM(N), QA & Inspection Circle D-Tax Building, Eastern Court Janpath, New Delhi	
2.	GM (S&T)	Northern Railway HQ Baroda House, New Delhi	
3.	Exec. Engineer UPPTCL	Elect. Transmission Division-II 220 kV S/S Saharanpur	Copy for information



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ANNEXURE-I

CEA Case No.: UP-581		Map Scale : 1 cm= 500 m			
Name of the Power line: PTCC approval of 220 kV D/C Saharanpur-Deoband transmission line.		Total Length : 24.63 km			
		S.R. Value : 15000 Ohm-cm			
S.No.	Telecom. Details	Length of Parallelism in Km.	Mutual Coupling in Ohms.	Effective Fault current in Amps.	I.V in Volts.
Northern Railway Letter No: 342-SIG/1/PTCC/2021-22/10/02 Date: 06.10.2021					
Affected Blocks & Telecom Circuits Details					
(A)	Saharanpur-Ghaziabad				
1	Saharanpur R/S to Tapri R/S	-Out of Parallelism-			
2	Tapri R/S to Nagal R/S	2.5	0.0061	9648	147
3	Nagal R/S to Talheri Buzurg R/S	7	.0024	9097	153
4	Talheri Buzurg R/S to Deoband R/S	3.1	0.006	13569	253
5	Deoband R/S to Rohana Kalan R/S	-Out of Parallelism-			
(B)	Tapri - Shamli				
1	Tapri R/S to Manani R/S	1	0.0154	18872	291
2	Manani R/S to Rampur Maniharan R/S	2.3	0.0065	17035	254
3	Rampur Maniharan R/S to Nanauta R/S	-Out of Parallelism-			