

I/25568/2023



सत्यमेव जयते

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. : UP-603		
PTCC approval for 400 kV D/C line from Panki PTPS to 400 kV Panki substation (0.757 km) - regd.		
S. No	Reference No.	Dated
(i)	UPPTCL: 1162/E220KVS/SD(P)	07.11.2022
(ii)	UPPTCL: 1637/ETC-I P(K)/PTPS/660MW	19.12.2022
(iii)	UPPTCL: 1653/ETC-I(K)/PTCC	21.12.2022
(iv)	BSNL: DET/PTCC/ND/DV-10157/UP-1102/2022-2023	12.12.2022
(v)	North Central Railway: एन.सी.आर./एस.एंड.टी./2074/टेलिकॉम/पी.टी.सी.सी. (पार्ट-1)	22.11.2022

The PTCC proposal submitted vide reference (i) & (iii) has been examined. Vide reference (iv) above, BSNL has issued No Objection Certificate (NOC). The LF induction on communication circuits of North Central Railway with respect to details furnished vide above reference (v) has been computed. The voltage likely to be induced on paralleling communication circuits of North Central Railway under Single Line to Ground fault condition are enclosed at Annexure-I. The screening factors as applicable have been considered.

EPR Zone for proposed 400 kV Switchyard for 660MW Panki PTPS is mentioned below.

Voltage Level (V)	430	650	7000	10000
EPR Zone (m)	332	172	NA	NA

Telecommunication details from DG Signals, MoD are pending however, vide reference (ii) above, UPPTCL has shown urgency for charging the line in order to supply start-up power to 660MW Panki Thermal Plant and requested for provisional PTCC clearance.

In view of the above, it is requested that provisional PTCC route approval may be issued for the subject transmission line under intimation to this office.

Encl.: As above

Chief Engineer

To,

1.	Divisional Engineer (PTCC), Northern Zone	BSNL O/o PGM (N), QA & Inspection Circle, D-Tax Building, Eastern Court, Janpath, New Delhi 110001	
2.	ASTE/Tele	North Central Railway, HQ's Office (S&T Branch), Ganga Parisar, Subedarganj, Allahabad - 211015	
3.	Executive Engineer	UPPTCL, O/o Executive Engineer, Electricity 220 kV Substation Division Panki, Kanpur - 208020	Copy for information

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ANNEXURE-I

CEA Case No.: UP-603 Name of the Power line: 400 kV D/C line from Panki PTPS to 400 kV Panki substation		Map Scale : 1 cm= 500 m Total Length : 0.757 km S.R. Value : 25000 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 CENTRAL RAILWAY: एन.सी.आर./एस.एंड.टी./2074/टेलिकॉम/पी.टी.सी.सी. (पार्ट-1) Date: 22.11.2022

Affected Blocks & Telecom Circuits Details

<u>Govindpur – Bhaupur</u>					
1	Govindpuri – Panki	0.3	0.0005	17660	9
2	Panki – Bhaupur	0.45	0.0006	20567	12
<u>Kanpur Central – Bhimsen</u>					
1	Kanpur Central – Bhimsen	0.3	0.0001	14090	1