

I/25300/2022



सत्यमेव जयते
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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. : MP-490		
PTCC approval for 220 kV DCSS line from 220 kV Nipaniya S/S for power supply of 54.5 MVA to pump house of Shamgarh-Suwasara irrigation project of SSPIU. -Regd.		
S. No	Reference No.	Dated
(i)	MPPTCL: 04-02/PTCC/2668/PS/2559	10.11.2021
(ii)	MPPTCL: e-mail.	02.11.2022
(iii)	MPPTCL: e-mail	12.12.2022
(iv)	BSNL: PTCC/WR/2021-2022/MP-730	14.06.2022
(v)	West Central Railway: WCR/N-HQ/120PTCC-CORR-T-50-PT-III Case-325	23.11.2021
(vi)	Defense: B/46937/ Sigs 7(b)/2657	09.12.2021

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

EPR zone for new 220/11 kV S/s at Kilgari village, Shamgarh is mentioned below:

Voltage Level (v)	430	650	7000	10000
EPR Zone (m)	1109	712	9	N.A

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

Encl.: As above

Chief Engineer

To,

1.	Div. Engr.(PTCC) Western Zone	'D' Wing, III floor, Administrative Bldg., Telecom Complex, Juhu Tara Road Santa Cruz (West), Mumbai	
2.	Chief Engineer (Plg.&Design)-MPPTCL	Block No.3 Shakti Bhawan, Rampur Jabalpur- M.P	Copy for information

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ANNEXURE-I

CEA Case No.: MP-490 Name of the Power line: 220 kV DCSS line from 220 kV Nipaniya S/S for power supply of 54.5 MVA to pump house of Shamgarh-Suwasara irrigation project of SSPIU.			Map Scale : 1 cm= 500 m Total Length : 14.8 km S.R. Value : 10000 Ohm-cm		
S.No.	Telecom. Details	Length of Parallelism in Km.	Mutual Coupling in Ohms.	Effective Fault current in Amps.	I.V in Volts.
BSNL Letter No: BSNL: PTCC/WR/2021-2022/MP-730 Date: 14.06.2022					
<u>Affected Telecom Circuits Details</u>					
1	Melkheda Exchange to village	0.45	0.0038	26622	101
2	Chandwasa Exchange to village	0.2	0.0008	15752	13