



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-481/421-424
PTCC proposal of LILO of 220 kV Bina – Ganjbasoda line at 400 kV S/S Bina (12.401 km)

Reference:		
S. No.	Reference No.	Dated
(i)	MPPTCL: 04-01/PTCC/2673/TR-I/5352	04.01.2021
(ii)	BSNL: PTCC/WR/2021-22/MP-701	03.01.2022
(iii)	West Central Railway: WCR/N-HQ/120-PTCC-CORR-T-50 Pt-III Case 305 received through MPPTCL email dated 07.03.2022	29.01.2021
(iv)	North Central Railway: एन सी आर/एस एंड टी/2074/टेलिकॉम/पी.टी.सी.सी.(पार्ट-1)	12.05.2022
(v)	Defense: B/46937/ Sigs 7(b)/2303	02.03.2021

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

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

Encl.: As above.

21 फरवरी 2022
Director 26.05.2022

To,

1.	Divisional Engineer (PTCC), Western Zone	BSNL, Inspection Circle, 3 rd Floor, D-Wing, BSNL Admin Building, Juhu Tara Road, Santacruz (West), Mumbai-400054.	Only Annex-I & IV
2.	GM (S&T)	West Central Railway, Office of the GM (S&T), 1 st floor, Annex II Building, Jabalpur	Only Annex-II
3.	ASTE/Tele	North Central Railway, HQ's Office (S&T) Branch, Ganga Parisar, Subedarganj, Prayagraj – 211015	Only Annex-III
4.	Chief Engineer (Plg. & Design)	MPPTCL, Block No. 3, Shakti Bhawan, Rampur, Jabalpur – 482008	Copy for information



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आजादी का
अमृत महोत्सव

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Power Communication Development Division

के.वि.प्रा. केस सं. : MP-481/421-424
पी.टी.सी.सी. प्रस्ताव LILO of 220 kV Bina – Ganjbasoda line at 400 kV S/S Bina (12.401 km)

क्रमांक	सन्दर्भ सं.	दिनांक
(i)	MPPTCL: 04-01/PTCC/2673/TR-I/5352	04.01.2021
(ii)	BSNL: PTCC/WR/2021-22/MP-701	03.01.2022
(iii)	West Central Railway: WCR/N-HQ/120-PTCC-CORR-T-50 Pt-III Case 305 received through MPPTCL email dated 07.03.2022	29.01.2021
(iv)	North Central Railway: एन सी आर/एस एंड टी/2074/टेलिकॉम/पी.टी.सी.सी.(पोर्ट-1)	12.05.2022
(v)	Defense: B/46937/ Sigs 7(b)/2303	02.03.2021

संदर्भ (i) द्वारा प्रस्तुत पीटीसीसी प्रस्ताव की जांच की गई बीएसएनएल के टेलिकॉम केबलों एवं पश्चिम मध्य रेल तथा उत्तर मध्य रेल के ब्लॉक एवं टेलिकॉम सर्किटों पर निम्न आवृत्ति प्रेरण गणना क्रमशः उपरोक्त संदर्भ (ii), (iii) एवं (iv) में दिए गए विवरणों के संबंध में की गई है। सिंगल लाइन टू ग्राउंड फाल्ट अवस्था में समानांतर बीएसएनएल के टेलिकॉम केबलों एवं पश्चिम मध्य रेल तथा उत्तर मध्य रेल के ब्लॉक एवं टेलिकॉम सर्किटों पर प्रेरित वोल्टेज क्रमशः अनुलग्नक -I, II एवं III में संलग्न है। स्क्रीनिंग कारक का मान यथानुरूप लिया गया है। रक्षा प्राधिकरण ने उपरोक्त संदर्भ (v) के द्वारा अनापत्ति प्रमाण पत्र जारी किया है। (अनुलग्नक- IV में संलग्न)।

उपरोक्त को ध्यान में रखते हुए, पीटीसीसी मार्ग अनुमोदन जारी करने के संबंध में आवश्यक कार्रवाई की जाए।

संलग्न: उपरोक्त अनुसार

26.05.2022
निदेशक

To,

1.	Divisional Engineer (PTCC), Western Zone	BSNL, Inspection Circle, 3 rd Floor, D-Wing, BSNL Admin Building, Juhu Tara Road, Santacruz (West), Mumbai-400054.	Only Annex-I & IV
2.	GM (S&T)	West Central Railway, Office of the GM (S&T), 1 st floor, Annex II Building, Jabalpur	Only Annex-II
3.	ASTE/Tele	North Central Railway, HQ's Office (S&T) Branch, Ganga Parisar, Subedarganj, Prayagraj – 211015	Only Annex-III
4.	Chief Engineer (Plg. & Design)	MPPTCL, Block No. 3, Shakti Bhawan, Rampur, Jabalpur – 482008	Copy for information

CFA Care No: MP-481
 SR: 3000 2-cm

Annex-I

Details of BSNL U/G Cables (Including Armored OFC/Excluding OFC)

S. No.	Name of Telecom Line/ Cable	No. of Pair
1	A-B - 1/4 cable	800 Pn
2	B-C - 1/4 cable	200 Pn
2	A-D - 1/4 cable	800 Pn
4	D-E - 1/4 cable	200 Pn
5	D-F - 1/4 cable	400 Pn
6	A-G - 1/4 cable	800 Pn
7	G-H - 1/4 cable	400 Pn
8	G-I 1/4 cable	200 Pn
	and other 1/4 cable of 100 Pn, 50 Pn 20 Pn 10 Pn 5 Pn in the exchange and local area of Bina town is available	
	△ - South Tower	
	□ - Telephone exch	

IV less
 than 430 V

Prateeb

प्रतीक श्रीवास्तव / PRATEEK SHRIWASTAVA
 सहायक निदेशक-1 / Asst. 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.: MP-481 Name of the Power line: LILO of 220 kV Bina – Ganjbasoda line at 400 kV S/S Bina		Map Scale : 1 cm=500 m Total Length : 12.401 km S.R. Value : 3,000 Ω-cm			
S.No.	Telecom. Details	Length of Parallelism in Km.	Mutual Coupling in Ohms.	Effective Fault current in Amps.	IV in Volts.

WEST CENTRAL RAIWAY Ref. No: WCR/N-HQ/120-PTCC-CORR-T-50 Pt-III Case 305
Dated: 29.01.2021

Affected Blocks & Telecom Circuits Details

1	Malkhedi - Baghora	1.8	0.0007	6500	5
2	Baghora - Khurai	Out of parallelism			0
3	Khurai - Sumereri	Outside IV consideration zone			0
4	Sumereri – Malkhedi	1.8	0.0007	6500	5
5	Mandi Bamora – Kurwai Kethora	Outside IV consideration zone			0
6	Kurwai Kethora - Bina	Out of parallelism			0
7	Bina - Mahadeokhedi				0
8	Mahadeokhedi - Semarkhedi	Outside IV consideration zone			0

Prateek

प्रदीप श्रीवास्तव/PRATEEK SHRIWASTAVA
 सहायक निदेशक-II / Asstt. Director-II
 केन्द्रीय विद्युत अधिकारण / C.E.A.,
 विद्युत मंत्रालय / Ministry of Power
 भारत सरकार / Govt. of India
 नई दिल्ली / New Delhi

ANNEXURE – III

CEA Case No.: MP-481 Name of the Power line: LILO of 220 kV Bina – Ganjbasoda line at 400 kV S/S Bina			Map Scale : 1 cm=500 m Total Length : 12.401 km S.R. Value : 3,000 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 CENTRAL RAIWAY Ref. No: एन सी आर/एस एंड टी/2074/टेलिकॉम/पी.टी.सी.सी.(पार्ट-1) Dated: 12.05.2022

Affected Blocks & Telecom Circuits Details

1	Bina – Agasod	Out of parallelism	0
2	Agasod - Karonda	Outside IV consideration zone	0

Prateek

प्रतीक शिवशर्मा/PRATEEK SHIVASTAVA
सहायक निरीक्षक-II /Asstt. Director-II
केन्द्रीय विद्युत अधिकारी/C.E.A.
विद्युत मंत्रालय/Ministry of Power
भारत सरकार/Govt. of India
नई दिल्ली/New Delhi

Tele : 23019746

MP-481

Annex - IV

Directorate General of Signals
Signals 7
General Staff Branch
Integrated HQ of MoD, (Army)
DHQ PO, New Delhi - 110011

B/46937/Sigs 7(b)/2303/

02 Mar 2021

Chief Engineer (Procurement)
Madhya Pradesh Power Transmission Co. Ltd.
Block No. 3, Shakti Bhawan, Rampur,
Babalpur(M.P.)482008

**CONSTRUCTION OF LILO OF 220KV BINA-GANJBASODA LINE AT 400KV S/S
BINA-PTCC ROUTE APPROVAL**

1. Refer your letter No 04-01/PTCC/2673/TR-I/5352 dt 04 Jan 2021 (copy att).
2. No Objection Certificate (NOC) is accorded based on inputs provided vide Map sheet received under your letter mentioned above.
3. Documents alongwith map sheets (in original) are returned herewith for your further necessary action.

(A Rawat)
Maj
GSO 1 (Comn)
for SO-in-C

Enclosures : As above

Copy to :-

✓ The Director (PTCC), CEA
Power Communication Development Division
NRPC Complex, 18-A Shaheed Jeet Singh Marg
Katwaria Sarai, New Delhi - 110016

for information

✓ The DET(PTCC), Northern Zone
O/o PGM (North), QA & Inspection Circle,
D-Tax Building, Eastern Court, Janpath
New Delhi-110001



Handwritten notes and signatures at the bottom right, including 'for information', '08/03/21', and other illegible scribbles.