



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-470 / 55-58
PTCC proposal of 220 kV DCDS line from 400 kV S/S PGCIL Itarsi to proposed 220 kV S/S Budhni: 29.942 km

Reference:		
S. No.	Reference No.	Dated
(i)	MPPTCL: 04-01/PTCC/2631/TR-1/7324	05.11.2019
(ii)	BSNL: PTCC/WR/2020-21	18.12.2021
(iii)	Central Railway: N.153/PTCC/220kV/MP-25	21.11.2019
(iv)	West Central Railway: WCR/N-HQ/120 PTCC-T-50-III Caes-281	22.01.2020
(v)	Defense: B/46937/ Sigs 7(b)/1893	16.01.2020

The PTCC proposal submitted vide reference (i) has been examined. Vide reference (ii), BSNL has intimated that there are no BSNL U/G cable existing within vicinity of 8 km of the proposed power line. The LF induction on Block & Telecom circuits of Central Railway and West Central Railway with respect to details furnished vide above references (iii) and (iv) respectively has been computed. The voltages likely to be induced on paralleling Block & Telecom circuits of Central Railway and West Central 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 reference (v) above, The Defence Authority have issued No Objection Certificate (NOC). (a copy enclosed as Annex-III).

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

Encl.: As above.

28.1.22
Director

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.	.
2.	GM (S&T).	Central Railway, Headquarters Office, S&T Branch, 3 rd Floor, Annex Bldg., Mumbai CSMT	Annexure-I only
3.	GM (S&T)	West Central Railway, Office of the GM (S&T), 1 st Floor, Annex II Building, Jabalpur - 482001	Annexure-II only
4.	Chief Engineer (Plg. & Design)	MPPTCL, Block No. 3, Shakti Bhawan, Rampur, Jabalpur - 482008	Copy for information



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. : MP-470
पी.टी.सी.सी. प्रस्ताव 220 kV DCDS line from 400 kV S/S PGCIL Itarsi to proposed 220 kV S/S Budhni: 29.942 km

क्रमांक	सन्दर्भ सं.	दिनांक
(i)	MPPTCL: 04-01/PTCC/2631/TR-1/7324	05.11.2019
(ii)	BSNL: PTCC/WR/2020-21	18.12.2021
(iii)	Central Railway: N.153/PTCC/220kV/MP-25	21.11.2019
(iv)	West Central Railway: WCR/N-HQ/120 PTCC-T-50-III Caes-281	22.01.2020
(v)	Defense: B/46937/ Sigs 7(b)/1893	16.01.2020

संदर्भ (i) द्वारा प्रस्तुत पीटीसीसी प्रस्ताव की जांच की गई है। बीएसएनएल ने उपरोक्त संदर्भ (ii) के द्वारा अवगत कराया है कि पॉवर लाइन के 8 कि.मी. के दायरे में बीएसएनएल के टेलीकॉम केबल नहीं हैं पश्चिम मध्य रेलवे एवं मध्य रेल के ब्लॉक और टेलीकॉम सर्किट पर निम्न आवृत्ति प्रेरण गणना क्रमशः उपरोक्त संदर्भ (iii) और (iv) में दिए गए विवरणों के संबंध में की गई है। सिंगल लाइन टू ग्राउंड फाल्ट अवस्था में समानांतर पश्चिम मध्य रेलवे एवं मध्य रेल के ब्लॉक और टेलीकॉम सर्किट पर प्रेरित वोल्टेज क्रमशः अनुलग्नक -I एवं अनुलग्नक -II 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- III में संलग्न)।

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

संलग्न: ऊपरोक्त अनुसार

राजवेंद्र झा
28.1.22
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.	
2.	GM (S&T).	Central Railway, Headquarters Office, S&T Branch, 3 rd Floor, Annex Bldg., Mumbai CSMT	Annexure-I only
3.	GM (S&T)	West Central Railway, Office of the GM (S&T), 1 st Floor, Annex II Building, Jabalpur - 482001	Annexure-II only
4.	Chief Engineer (Plg. & Design)	MPPTCL, Block No. 3, Shakti Bhawan, Rampur, Jabalpur - 482008	Copy for information

ANNEXURE - I

CEA Case No.: MP-470 Name of the Power line: 220 kV DCDS line from 400 kV S/S PGCIL Itarsi to proposed 220 kV S/S Budhni		Map Scale : 1 cm=500 m Total Length : 29.942 km S.R. Value : 10,000 Ω-cm			
S.No.	Telecom. Details	Length of Parallelism in Km.	Mutual Coupling in Ohms.	Effective Fault current in Amps.	I.V in Volts.

CENTRAL RAIWAY Ref. No: N.153/PTCC/220kV/MP-25		Dated: 21.11.2019			
Affected Blocks & Telecom Circuits Details					
1	Itarsi – Jujharpur	1.3	0.0002	10000	2
2	Jujharpur – Kiratgarh	0.5	0.0001	10000	1
3	Kiratgarh – Kesla	Out of parallelism			0
4	Kesla – Taku				0

Prateek

प्रतीक श्रीवास्तव / PRATEEK SRIVASTAVA
 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.: MP-470
 Name of the Power line: 220 kV DCDS line from 400 kV S/S
 PGCIL Itarsi to proposed 220 kV S/S Budhni

Map Scale : 1 cm=500 m
 Total Length : 29.942 km
 S.R. Value : 10,000 Ω-cm

S.No.	Telecom. Details	Length of Parallelism in Km.	Mutual Coupling in Ohms.	Effective Fault current in Amps.	I.V in Volts.
-------	------------------	------------------------------	--------------------------	----------------------------------	---------------

WEST CENTRAL RAIWAY Ref. No: WCR/N-HQ/120 PTCC-T-50-III Caes-281 Dated: 22.01.2020
Affected Blocks & Telecom Circuits Details

1	Midghat - Budni	Out of parallelism			0
2	Budni - Hoshangabad	2.1	0.0004	10000	4
3	Hoshangabad - Powerkheda	6.2	0.0011	6500	7
4	Powerkheda - Itarsi	8.7	0.0043	8200	35
5	Itarsi - Dulariya	1.1	0.0001	9800	1
6	Itarsi - Gurra	0.5	0.0001	10000	1
7	Gurra - Sontalai	Outside IV consideration zone			0

Prateek

प्रवीण श्रीवास्तव/PRATEEK SRIVASTAVA
 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

Tele : 23019746

MP-470

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

16 Jan 2020

B/46937/Sigs 7(b)/1893/

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

**CONSTRUCTION OF 220KV DCDS LINE FROM 400KV S/S PGCIL ITARSI TO PROPOSED
220KV S/S BUDHNI-PTCC ROUTE APPROVAL**

1. Ref your letter No 04-01/PTCC/2631/TR-I/7324 dt 05 Nov 2019 (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.

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

Divisional Engineer Telegraph (PTCC)
O/o GM (North); BSNL, QA & Inspection Circle,
CTS Compound, Africa Avenue Road,
Netaji Nagar, New Delhi-110023

for information

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

Dh
20.1
27/1/20

106
27/1/2020