



आसानी से  
अभूत महोत्सव

भारत सरकार  
Government of India  
विद्युत मंत्रालय  
Ministry of Power  
केन्द्रीय विद्युत प्राधिकरण  
Central Electricity Authority  
विद्युत संचार विकास प्रभाग  
Power Communication Development Division  
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CEA Case No. : MP-488 / 87-89	dt. 04.02.22
PTCC proposal of 220 kV DCDS line from 220 kV Budhni to Project site of M/s Trident Ltd., Budhni for enhancement of power supply from existing contract demand of 46MVA to 95MVA for upcoming Project of M/s Trident under consumer contribution works: 1.606 km	

Reference:		
S. No.	Reference No.	Dated
(i)	MPPTCL: 04-02/PTCC/2682/PS/1920	11.08.2021
(ii)	BSNL: PTCC/WR/2021-22/MP-717	17.01.2022
(iii)	West Central Railway: WCR/N-HQ/120/PTCC/T-50/III Case-316	30.09.2021
(iv)	Defense: B/46937/ Sigs 7(b)/2520	30.09.2021

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 with respect to details furnished vide above references (ii) and (iii) respectively has been computed. The voltages likely to be induced on paralleling telecom cables of BSNL and Block & Telecom circuits of 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 (iv) 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.

*Raghunath Prasad Singh*

Director

To,

1.	Divisional Engineer (PTCC), Western Zone	BSNL; Inspection Circle, 3 <sup>rd</sup> Floor, D-Wing, BSNL Admin Building, Juhu Tara Road, Santacruz (West), Mumbai-400054.	.
2.	GM (S&T)	West Central Railway, Office of the GM (S&T), 1 <sup>st</sup> Floor, Annex II Building, Jabalpur - 482001	Annexure-II only
3.	Chief Engineer (Plg. & Design)	MPPTCL, Block No. 3, Shakti Bhawan, Rampur, Jabalpur - 482008	Copy for information

M/C



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Power Communication Development Division

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के.वि.प्रा. केस सं. : MP-488 / 87-89	df. 04. 02. 22
पी.टी.सी.सी. प्रस्ताव 220 kV DCDS line from 220 kV Budhni to Project site of M/s Trident Ltd., Budhni for enhancement of power supply from existing contract demand of 46MVA to 95MVA for upcoming Project of M/s Trident under consumer contribution works: 1.606 km	

सन्दर्भ:		
क्रमांक	सन्दर्भ सं.	दिनांक
(i)	MPPTCL: 04-02/PTCC/2682/PS/1920	11.08.2021
(ii)	BSNL: PTCC/WR/2021-22/MP-717	17.01.2022
(iii)	West Central Railway: WCR/N-HQ/120/PTCC/T-50/III Case-316	30.09.2021
(iv)	Defense: B/46937/ Sigs 7(b)/2520	30.09.2021

संदर्भ (i) द्वारा प्रस्तुत पीटीसीसी प्रस्ताव की जांच की गई है। बीएसएनएल के टेलिकॉम केबल एवं पश्चिम मध्य रेलवे के ब्लॉक और टेलीकॉम सर्किट पर निम्न आवृत्ति प्रेरण गणना क्रमशः उपरोक्त संदर्भ (ii) और (iii) में दिए गए विवरणों के संबंध में की गई है। सिंगल लाइन टू ग्राउंड फाल्ट अवस्था में समानांतर बीएसएनएल के टेलिकॉम केबल एवं पश्चिम मध्य रेलवे 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 (iv) 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

*Ranghanshi Prakash Singh*

निदेशक

To,

1.	Divisional Engineer (PTCC), Western Zone	BSNL; Inspection Circle, 3 <sup>rd</sup> Floor, D-Wing, BSNL Admin Building, Juhu Tara Road, Santacruz (West), Mumbai-400054.	
2.	GM (S&T)	West Central Railway, Office of the GM (S&T), 1 <sup>st</sup> Floor, Annex II Building, Jabalpur - 482001	Annexure-II only
3.	Chief Engineer (Plg. & Design)	MPPTCL, Block No. 3, Shakti Bhawan, Rampur, Jabalpur - 482008	Copy for information

CEA Case No.: MP-488

ANNEXURE - II

Name of the Power line: 220 kV DCDS line from 220 kV Budhni to Project site of M/s Trident Ltd., Budhni for enhancement of power supply from existing contract demand of 46MVA to 95MVA for upcoming Project of M/s Trident under consumer contribution works

Map Scale : 1 cm=500 m  
Total Length : 1.606 km  
S.R. Value : 10,000  $\Omega$ -cm

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

Ref. No: WCR/N-HQ/120/PTCC/T-50/III Case-316

Dated: 30.09.2021

Affected Blocks & Telecom Circuits Details

S.No.	Telecom. Details	Length of Parallelism in Km.	Mutual Coupling in Ohms.	Effective Fault current in Amps.	I.V in Volts.
1	Powerkheda - Hoshangabad	Out of parallelism			0
2	Hoshangabad - Budni				0
3	Budni - Midghat				0
4	Midghat - Choka				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

Tele : 23019746

Annex-III MP-489  
Directorate General of Signals  
Signals 7  
General Staff Branch  
Integrated HQ of MoD, (Army)  
DHQ PO, New Delhi - 110011

B/46937/Sigs 7(b)/2520/

30 Sep 2021

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

**PTCC ROUTE APPROVAL FOR 220KV DCDS LINE FROM 220KV BUDHNI  
(UNDER CONST) TO PROJECT SITE OF M/S TRIDENT LTD, BUDHNI FOR  
ENHANCEMENT OF POWER SUPPLY FROM EXISTING CONTRACT DEMAND  
OF 46MVA TO 95 MVA FOR UPCOMING PROJECT OF M/S TRIDENT, BUDHNI  
UNDER CONSUMER CONTRIBUTION WORKS**

1. Refer your letter No 04-02/PTCC/2682/PS/1920 dt 11 Aug 2021 (copy att).
2. No Objection Certificate (NOC) is accorded based on inputs provided as per 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)  
Lt Col  
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

036  
26/021

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

S. No.	Name of Telecom Line/ Cable	No. of Pair
1	Point A telephone Exchange Budhni to point 10	250 pr
2	Point A to point 9	200 pr
3	Point A to point 11	10 pr
4	Point A to point 12	10 pr
5	Point B telephone Exchange to point 1	10 pr
6	Point B to point 2	100 pr
7	Point B to point 3	50 pr
8	Point B to point 4	50 pr
9	Point B to point 5	50 pr
10	Point B to point 6	50 pr
11	Point B to point 7	50 pr
12	Point B to point 8	200 pr

IV less than  
430 V

Prateek

प्रतीक श्रीवास्तव / PRATEEK SRIVASTAVA  
 सहायक निदेशक-II / Asst. Director-II  
 केन्द्रीय विद्युत प्राधिकरण / C.E.A.  
 विद्युत मंत्रालय / Ministry of Power  
 भारत सरकार / Govt. of India  
 नई दिल्ली / New Delhi