



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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Case No.: MP-449  
PTCC proposal for LIL0 of one circuit of 400 kV Satna (PGCIL) to Bina (PGCIL) line at proposed 400 kV Substation Sagar (MPPTCL) : 24.799 km

Reference:		Dated
(i)	MPPTCL: 04-01/PTCC/2481/TR-I/8848	14.11.2018
(ii)	BSNL: IC/MBI/PTCC/MP-598 (rcvd. on 22.01.2021)	18.01.2020
(iii)	West Central Railway: WCR/N-HQ/120/PTCC/CORR/T-50/ Pt-III Case no. 245	28.02.2019
(iv)	Defense: B/46937/ Sigs 7(b)/1358	25.12.2018

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. The Defense Authority have accorded NOC vide above reference (iv) for the proposed power line. (a copy enclosed at Annexure-III)

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

Encl.: As above.

Signature Not Verified  
Digitally signed by RAGHUVENDRA PRATAP SINGH  
Date: 2021.07.06 17:16:24 IST

Director

To,

1.	Divisional Engineer (PTCC), Western Zone	Bharat Sanchar Nigam Limited (BSNL), Inspection Circle, 3 <sup>rd</sup> floor, D-Wing, BSNL Admin Building, Juhu Tara Road, Santacruz (West), Mumbai-400054.	Annexure- I & Annexure-III only
2.	AESTE/Tele/HQ	West Central Railway: O/o GM (S&T), 1 <sup>st</sup> floor, Annex II building, Jabalpur-482001	Annexure-II only
3.	Chief Engineer (Procurement)	MPPTCL: Block No. 3, Shakti Bhawan, Rampur, Jabalpur-482008.	Copy for information

MIC

## Annexure - I

CEA Office Case No.: MP-449		Map Scale: 1:50,000			
DET (PTCC) Office Case No.: IC/MBI/PTCC/MP-598		Route Length: 24.799 Kms			
Railway Office Case No.:		Average SR Value: 75,00 Ohm cms			
Name of Power Line		LILO of one circuit of 400KV Satna (PGCIL) – Bina (PGCIL) line at proposed 400KV S/s Sagar.			
S. No.	Name of Telecom Line/ Cable	Length of Parallelism in Kms.	Mutual Coupling in Ohms	Fault Current in Amps	Induce Voltage in Volts
	SAGAR SSA				
	SDOT Sagar				
(1)	Pathariya T/Exchange Exch to Location (A) – 100, 50, 20 & 10 Pair				
(2)	University T/Exchange Exch to Location (A) – 200, 100, 50, 20 & 10 Pair				
(3)	Parsoriya T/Exchange Exch to Location (A) – 100, 50, 20 & 10 Pair				
(4)	Makronia T/Exchange Exch to Location (A) – 800 Pair Exch to Location (B) – 400 Pair Exch to Location (C) – 200 Pair Exch to Location (D) – 100 & 50 Pair				
(5)	Sidguwan T/Exchange Exch to Location (A) – 100, 50, 20, 10 & 5 Pair				
(6)	Karrapur T/Exchange Exch to Location (A) – 100, 50, 20, 10 & 5 Pair				
(7)	Banda T/Exchange Exch to Location (A) – 400 Pair Exch to Location (B) – 200 & 100 Pair Exch to Location (B) – 50 & 20 Pair				

IV less than 430V

*[Signature]*

सहायक निदेशक (संरक्षण) / सहायक निदेशक (संरक्षण) / सहायक निदेशक (संरक्षण)  
 शिक्षण मंत्रालय / Ministry of Education  
 भारत सरकार / Govt. of India  
 नई दिल्ली / New Delhi-66

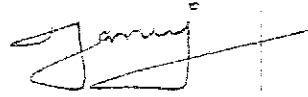
**ANNEXURE - II**

Case No. MP-449 Name of the Power line: LILO of one circuit of 400 kV Satna (PGCIL) to Bina (PGCIL) line at proposed 400 kV Substation Sagar (MPPTCL).			Map Scale : 1 cm=500 m Total Length : 24.799 km S.R. Value : 7,500 ohm-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 Railway Ref. No: WCR/N-HQ/120/PTCC/CORR/T-50/Pt-III Case no. 245 Dated: 28-02-2019

**Affected Blocks & Telecom Circuits Details**

1	Saugar to Makronia	Out of Parallelism			00
2	Makronia to Lidhorakhurd	4.6	0.0014	11876	17
3	Lidhorakhurd to Girwar	0.3	0.0001	10253	01



तनुज / TANUJ  
 सहायक निदेशक-II, Asstt. Director-II  
 विद्युत प्रणाली प्राधिकरण / C.E. A.  
 विद्युत मंत्रालय / Ministry of Power  
 भारत सरकार / Govt. of India  
 नई दिल्ली / New Delhi-66

Tele : 23019746

(Annexure-III)

MP-449

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

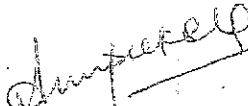
B/46937/Sigs 7(b)/1358/

28 Dec 2018

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

PTCC ROUTE APPROVAL FOR CONSTRUCTION OF LILO OF ONE CIRCUIT OF 400KV  
SATNA (PGCIL)-BIN (PGCIL) LINE AT PROPOSED 400KV SUB-STATION SAGAR (MPPTCL)

1. Ref your letter No 04-01/ PTCC/2481/TR-I/8848 dt 14 Nov 2018. (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 (Comd)  
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.