



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-448
PTCC proposal of LILO of 220 kV Jabalpur – Amarkantak DCDS line for proposed 220/132 kV S/S Gorabazar (6.056 km)

Reference:		
S. No.	Reference No.	Dated
(i)	MPPTCL: 04-01/PTCC/2219/TR-I/8699	06.11.2018
(ii)	BSNL: IC/MBI/PTCC/MP-588	19.01.2019
(iii)	South East Central Railway: SECR/S&T/PTCC/TD/833 Received on 22.01.2021 with MPPTCL letter no. 04-01/PTCC/1202/TR-I/5746	19.09.2019
(iv)	West Central Railway: WCR/N-HQ/120/PTCC/CORR/T-50/Pt-III Case no. 244	28.02.2019
(v)	Defense: B/46937/Sigs 7(b)/1351	06.02.2019

The PTCC proposal submitted vide reference (i) has been examined. The low frequency induction on BSNL cables and block & telecom circuits of South East Central Railway and West Central Railway as per details furnished vide reference (ii), (iii) and (iv) respectively has been examined. Voltages likely to be induced on paralleling BSNL cables and block & telecom circuits of South East Central Railway and West Central Railway under single line to ground fault condition are enclosed at Annexure-I, Annexure-II and Annexure-III respectively. The screening factors as applicable have been considered. Vide ref. (v) above, Defense have conveyed No Objection Certificate (a copy enclosed as Annexure-IV).

Taking above into consideration, take necessary action for issuance of PTCC route approval.

Encl.: As above.

Signature Not Verified
Digitally signed by RAGHUVENDRA PRATAP SINGH
Date: 2021.10.14 16:47:45 IST

Director

To,

1.	Divisional Engineer (PTCC), Western Zone	Bharat Sanchar Nigam Limited (BSNL), 3 rd Floor, D-Wing, BSNL Admin Building, Juhu Tara Road, Santacruz (West), Mumbai-400054	
----	--	--	--

Contd...

File No.CEA-PS-17-11(12)/35/2021-PCD Division

2.	Dy. CSTE	South East Central Railway, O/f Principal Chief Signal & Telecom Engineer, 2 nd floor, SECR Zonal Hq Building, Bilaspur - 495004	Annexure -II only
3.	GM (S&T)	West Central Railway, Office of the GM (S&T), 1 st Floor, Annex II Building, Jabalpur	Annexure -III only
4.	Chief Engineer (Planning & Design)	MPPTCL, Block no.3 Shakti Bhawan, Rampur, Jabalpur - 482008	Copy for information

Annexure - I

CEA Office Case No.: MP-448	Map Scale: 1:50,000
DET (PTCC) Office Case No.: IC/MBI/PTCC/MP-588	Route Length: 6.056 Kms
Railway Office Case No.:	Average SR Value: 7500 Ohm cms
Name of Power Line: LIL0 220KV Jabalpur - Amarkantak DCDS line for proposed 220/132KV S/s Gorabazar.	

S. No.	Name of Telecom Line/ Cable	Length of Parallelism in Kms.	Mutual Coupling in Ohms	Fault Current in Amps	Induce Voltage in Volts
	JABALPUR SSA				
	SDOT Jabalpur				
(A)	Barela T/Exchange				
(1)	Bareala Exch to Basti Barela - (200x2) Pair	} IV less than 430 V			
(2)	Bus Stand Choraha to Basti Andar - (50x2) Pair				
(3)	Bus Stand Choraha to Main Road Barela - (100x2) Pair				
(4)	Main Road Barela Store - 20 Pair				
(5)	Barela Basti DP - 10 Pair				
(B)	Padariya T/Exchange				
(1)	Padariya Exch to TFR I Colony - (100x2) Pair				
(2)	Padariya Exch to Saliwada - (50x2) Pair				
(3)	Padariya Exch to Village - 20 Pair				
(4)	Padariya Exch to Saliwada Nimkheda DP - 10 Pair				

Prateek

प्रतीक श्रीवास्तव / PRATEEK SRIVASTAVA
 सहायक निदेशक / Asst. Director-II
 क्षेत्रीय कार्यालय / Regional Office / C.E.A.
 विद्युत विभाग / Ministry of Power
 भारत सरकार / Govt. of India
 नई दिल्ली / New Delhi

ANNEXURE - II

CEA Case No.: MP-448		Map Scale : 1 cm = 500 m. Route Length : 6.056 km Soil Resistivity : 7,500 Ohm-cm			
Name of the Power Line: LILO of 220 kV Jabalpur – Amarkantak DCDS line for proposed 220/132 kV S/S Gorabazar					
S.No.	Telecom Details	Length of Parallelism (in km)	Mutual Coupling (Ohms)	Fault Current (Amps)	Induced Voltage (Volts)

SOUTH EAST CENTRAL RAILWAY Ref. No: SECR/S&T/PTCC/TD/833 dated 19.09.2019					
Affected Blocks & Telecom Circuits Details					
1	Garha – Guwarighat	OUTSIDE IV CONSIDERATION ZONE			0
2	Guwarighat - Bargi	1.4	0.0002	10000	2

Prateek

प्रतीक श्रीवास्तव/PRATEEK SHIVASTAVA
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 – III

CEA Case No.: MP-448					
Name of the Power Line: LILO of 220 kV Jabalpur – Amarkantak DCDS line for proposed 220/132 kV S/S Gorabazar		Map Scale : 1 cm = 500 m. Route Length : 6.056 km Soil Resistivity : 7,500 Ohm-cm			
S.No.	Telecom Details	Length of Parallelism (in km)	Mutual Coupling (Ohms)	Fault Current (Amps)	Induced Voltage (Volts)

WEST CENTRAL RAILWAY					
Ref. No: WCR/N-HQ/120/PTCC/CORR/T-50/Pt-III Case no. 244 dated 28.02.2019					
Affected Blocks & Telecom Circuits Details					
1	Adhartal – Jabalpur	OUT OF PARALLELISM			0
2	Jabalpur – Madan Mahal				0
3	Madan Mahal – Kachhpura	OUTSIDE IV CONSIDERATION ZONE			0

Prateek

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

Tele : 23019746

MP-448

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

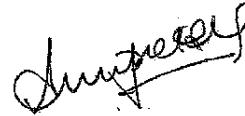
B/46937/Sigs 7(b)/1351/

06 Feb 2019

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

**CONSTRUCTION OF OF LILO OF 220KV JABALPUR-AMARKANTAK DCDS LINE FOR
PROPOSED 220/132KV S/S GORABAZAR-PTCC ROUTE APPROVAL**

1. Ref your letter No 04-01/ PTCC/2219/TR-I/8699 dt 06 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 (Comn)
for SO-in-C

Enclosures : As above

Copy to:

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

for information.