



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.: BHR-179
PTCC proposal for 220 kV D/C LILO from 220 kV Pusauli (PG) – Sahapuri transmission line to 220/132 kV Karmnasha (New) GSS; 0.879 km

Reference:		
S. No.	Reference No.	Dated
(i)	BSPTCL: 373 TC/DOS	25.03.2021
(ii)	BSNL: DE/PTCC/EBR200320215000/02	22.11.2021
(iii)	East Central Railway: ECR-HQ0SnT(CPTC)/1/2020-O/o Dy.CSTE/HQ/ECR/2019	18.11.2021
(iv)	Defense: B/46937/Sigs 7(b)/2572	25.10.2021

The PTCC proposal submitted vide reference (i) has been examined. The LF induction on telecom lines of BSNL and block & telecom circuits of East Central Railway with respect to details furnished vide above reference (ii) and (iii) respectively has been computed. The voltages likely to be induced on paralleling telecom lines of BSNL and block & telecom circuits of East 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 as 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
RAGHVENDRA PRATAP SINGH
Date: 2021.12.09 13:42:23 IST

Director

To,

1.	Divisional Engineer (PTCC), Eastern Zone	BSNL O/o DET(PTCC), Eastern Zone, QA & Inspection Circle, Q.A Bhawan, EP-GP Block, Sector-V, Salt lake, Kolkata-700091.	
2.	Dy. CSTE	East Central Railway, Office of the General Manager (S&T), Hajipur - 844118	Annexure -II only
3.	Chief Engineer (System Operation)	BSPTCL, 4 th Floor, Vidyut Bhawan, Bailey Road, Patna - 800021	Copy for information

M/C

220 KV D/C LHO from 220 KV Pusauli (PG) - Sahapuri transmission line to 220/132 KV Karmasha (New) CSS

Length: 0.879 km
SR: 1500 Ohm-cm

SI No.	NAME OF THE TELECOM ALIGNMENT	ALONG ROAD OR RAIL	AVERAGE SEPERATION FROM ROAD OR RAIL	LENGTH	FULL NAME OF THE CIRCUITS	METALLIC OR EARTH RETURN	MARKED INTERMEDIATE OR TAPPING POINTS	REMARKS
1.	Durgamudi XLE & b/s (JD)	near Durgamudi Railway station	500 meter from G.T Road & 500 meter from Rail line	nill	DURGAMUDI XLE & b/s (24.944)	nill	nill	6 km from 220 KV Proposed T/L
2.	Karmasha XLE & b/s (K)	near Railway station Karmasha	500 meter from Rail & 500 meter from Road.	nill	Karmasha XLE & b/s (24.944)	nill	nill	8 km from 220 KV Proposed T/L
3.	OFC 48 Fibres (←→)	Along G.T Road NH-2	25 meter from NH-2.	22 km	B.S.N.L OFC 48 Fibres	nill	(n/a)	48 fibres ofc along G.T Road & 1.5 km from Proposed T/L

IV Level
(t) 2017 413

Prabir

श्रीमान् श्रीमद्दत्तप्रसाद शर्मा
अधीक्षक प्रमुख II / असस. निदेशक-II
ग्रिड एजेंसी, नई दिल्ली / C.E.A.
सर्वोच्च शिक्षण / Ministry of Power
नई दिल्ली / New Delhi

ANNEXURE - II

Case No.: BHR-179		Map Scale : 1 cm = 500 m.			
Name of the Power Line: 220 kV D/C LILO from 220 kV Pusauli (PG) – Sahapuri transmission line to 220/132 kV Karmnasha (New) GSS		Route Length : 0.879 km			
		Soil Resistivity : 15,000 Ohm-cm			
S.No.	Telecom Details	Length of Parallelism (in km)	Mutual Coupling (Ohms)	Fault Current (Amps)	Induced Voltage (Volts)

EAST CENTRAL RAILWAY					
Ref. No: ECR-HQOSnT(CPTC)/1/2020-O/o Dy.CSTE/HQ/ECR/2019 dated 18.11.2021					
<u>Affected Blocks & Telecom Circuits Details</u>					
1	Saiyadraja – Karmnasa	OUT OF PARALLELISM			0
2	Karmanasa - Dhanichha	-			0
3	Dhanichha - Durgawati	0.6	0.0002	7600	2
4	Durgawati – Bhabhua Road	OUT OF PARALLELISM			0

Prateek

श्री श्री प्रदीप/PRATEEK BHANUSAWA
 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 : 23019748

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

BMR-179

B/46937/Sigs 7(b)/2572/

25 Oct 2021

Chief Engineer (System Operation)
Bihar State Power Transmission Co. Ltd.
4th Floor, Vidyut Bhavan, Bailey Road
Patna-800 021

PTCC-PROPOSAL FOR LILO PORTION OF 220KV D/C PUSAULI (PG)-
SAHUPURI AT GSS KARAMNASA NEW

1. Refer your letter, No 364/Tele/PTCC/16/2021 dt 16 Sep 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/b PGM (North), QA & Inspection Circle,
D-Tax Building, Eastern Court, Janpath
New Delhi-110001

R. P. P. P.