



भारत सरकार
Government of India
विद्युत मंत्रालय
Ministry of Power
केन्द्रीय विद्युत प्राधिकरण
Central Electricity Authority
विद्युत संचार विकास प्रभाग
Power Communication Development Division

Case No.: JHR-55
PTCC proposal for LILO of both circuits of Ranchi – Maithon RB 400 kV D/C transmission line at Dhanbad (2.70 km)

Reference:		
S. No.	Reference No.	Dated
(i)	M/s North Karanpura Transco Ltd: NKTL/LILO/DNB/03	12.10.2020
(ii)	BSNL: DE/PTCC/EJH060120211001	14.06.2021
(iii)	Defense: B/46937/ Sigs 7(b)/2197	01.01.2021

The PTCC proposal submitted vide reference (i) has been examined. BSNL vide reference (ii) has intimated that no U/G cable crosses the proposed transmission line. However, BSNL has not submitted details of telecom cables in the vicinity of proposed transmission line, as per PTCC Manual 2010. Therefore, IV calculation on paralleling BSNL telecom circuits could not be carried out. The telecommunication details from Eastern Railway are pending. Meanwhile, power authority has shown urgency for the charging of the line. The low frequency induction on Block & Telecom circuits of Eastern Railway has been computed based on topographical map provided by the power utility. Voltages likely to be induced on paralleling Block & Telecom circuits of Eastern Railway under Single Line to Ground fault condition are enclosed at Annex-I. The screening factors, as applicable, have been considered. Vide ref. (iii) above, Defense have conveyed No Objection Certificate (a copy enclosed as Annexure-II).

Taking above into consideration, take necessary action regarding issuance of provisional PTCC route approval for LILO of both circuits of Ranchi – Maithon RB 400 kV D/C transmission line at Dhanbad.

Encl: as above

Signature Not Verified
Digitally signed by RAGHVENDRA
PRATAP SINGH
Date: 2021.06.28 15:17:46 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.	With a request to issue provisional RAC and submit telecom details, if any, to this office for IV calculation at the earliest
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Contd...

2.	PCSTE	Eastern Railway, HQ Building, 17, Netaji Subhas Road, Fairlie Place, Kolkata - 700001	With a request to inform this office in case any telecom circuits other than Annex-I are present in the vicinity of the line
3.	M/s North Karanpura Transco Ltd	Adani House, 3 rd Floor, Shantigram, SG Highway, Ahmedabad, Gujarat - 380009	For kind information

ANNEXURE-1

Case No.: JHR-55		Route Length : 2.70 km Soil Resistivity : 7,500 Ohm-cm			
Name of the Power Line: LILO of both circuits of Ranchi – Maithon RB 400 kV D/C transmission line at Dhanbad					
S.No.	Telecom Details	Length of Parallelism (in km)	Mutual Coupling (Ohms)	Fault Current (Amps)	Induced Voltage (Volts)
EASTERN RAILWAY (based on topographical map provided by power utility)					
<u>Affected Blocks & Telecom Circuits Details</u>					
1	Chhota Ambona RS – Kalubathan RS	1.3	0.0008	12500	10

Prateek

प्रतीक श्रीवास्तव/PROFESSOR SRINIVASTAVA
सहायक निदेशक-II (Tech. Director-II)
केन्द्रीय विद्युत आयोग / C.E.A.,
विद्युत मंत्रालय / Ministry of Power
नयाँ दिल्ली / Govt. of India
New Delhi / New Delhi

Tele : 23019746

JHR-55

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


B/46937/Sigs 7(b)/2197/

6 Jan 2021

North Karanpura Transco Limited
NKTL Projects C/o Arun Soni, Barkagaon Rd
Behind Markham College, Nr. Marriage Hall
Jai Prabha Nagar, Hazaribagh-825301

PTCC PROPOSAL FOR CONSTRUCTION OF LILO OF BOTH CIRCUITS OF 400KV
D/C RANCHI-MAITHON RB TRANSMISSION LINE AT DHANBAD

1. Ref your letter No NKTL/LILO/DNB/03 dt 12 Oct 2020 (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.


(Rakesh Kumar)
Lt Col
GSO 1 (Comn)
for SO-in-C

Encls: (As above)

Copy to :-

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

The DET(PTCC), Northern Zone
O/o PGM (North), QA & Inspection Circle,
D/Tax Building, Janpath
New Delhi-110001

} for information