



भारत सरकार
Government of India
विद्युत मंत्रालय
Ministry of Power
केन्द्रीय विद्युत प्राधिकरण
Central Electricity Authority
पावर कम्युनिकेशन डवलपमेंट प्रभाग
Power Communication Development Division

No.: CEA/PCD/PTCC/JHR-46 1913-15

Date: 22.08.2019

DET (PTCC), Eastern Zone,
Inspection & QA Circle, BSNL
Q.A. Bhawan, EP-GP Block, Sector-V,
Salt Lake, Kolkata – 700091

Subject: PTCC Route Approval for 220 kV D/C line from 220/132/33 kV S/S Chatra to 400/220/132 kV S/S Latehar
Reference: (i) BSNL letter no. DE/PTCC/ER/EJH150220192346/01 dated 01.08.2019
(ii) East Central Railway letter no. ECR/S&T/PTCC/134, Pt.III/2158 dated 06.03.2019
(iii) Defense letter no. B/46937/Sigs 7(b)/1495 dated 30.04.2019

Sir,

The instant PTCC proposal has been examined. Low frequency induction on Block and Telecom Circuits of East Central Railway with respect to details furnished vide above reference has been computed. The Soil Resistivity (SR) value has been taken as 15,000 ohm-cm. The voltages likely to be induced on paralleling Block and Telecom Circuits of East Central Railway under single line to ground fault condition have been computed and are enclosed as Annex – I. The screening factors, as applicable, have been considered. Vide ref. (i) above, BSNL have issued No Objection Certificate (NOC). Vide ref. (iii) above, Defense Authority have issued No Objection Certificate (NOC) (enclosed as Annex – II).

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

Encl.: As above

राष्ट्रिय पदाध्यक्ष
(R. P. Singh)
Director, PTCC

Copy to:

- (1) GM(S&T), East Central Railway, Hajipur, Bihar – 844101 (Annexure – I only)
- (2) DGM (Transmission Projects), Transmission Circle, Jharkhand Urja Sancharan Nigam Limited, SLDC Building, Kusai Colony, Doranda, Ranchi, Jharkhand - 834002

M/K

ANNEXURE - I

Case No.: JHR-46					
Name of the Power line: 220 kV D/C line from 220/132/33 kV S/S Chatra to 400/220/132 kV S/S Latehar		Map Scale	: 1cm=500mts		
		Total Length	: 106.48 Km.		
		Avg Soil Resistivity	: 15000 ohm-cm		
S.No	Telecom. Details	Length of Parallelism in Km.	Mutual Coupling in Ohms.	Effective Fault current in Amps.	I.V in Volts.

EAST CENTRAL RAILWAY letter no. – ECR/S&T/PTCC/134, Pt.III/2158 dated 06.03.2019					
1	Bendi – Latehar	0.5	0.0001	10000	1
2	Latehar - Demu	0.9	0.0001	10000	1

214वर्ग 9214 CHE
 22.08.19.
 RAGHVEN德拉 PRATAP SINGH
 निदेशक / Director
 केन्द्रीय विद्युत प्राधिकरण / C.E.A.
 विद्युत मंत्रालय / Ministry of Power
 भारत सरकार / Govt. of India
 नई दिल्ली / New Delhi-66

Annex-II JTR-46

Tele : 23019746

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

B/46937/Sigs 7(b)/1495/

30 Apr 2019

Dy. G.M. (Transmission Projects)
Jharkhand Urja Sancharan Nigam Limited
SLDC Building, Kusai Colony,
Doranda, Ranchi-834 002

**SUBMISSION OF PROPOSAL FOR PTCC CLEARANCE FOR 220KV D/C CHATRA-LATEHAR
TRANSMISSION LINE (PKG-B)**

1. Ref your letter No 49/DGM(P) dt 06 Feb 2019 (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.

(AV Umdekar)
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.