

#### भारत सरकार

## Government of India

विद्युत मंत्रालय

Ministry of Power केन्द्रीय विद्युत प्राधिकरण

### Central Electricity Authority पावर कम्युनिकेशन डवलपोट प्रभाग

## **Power Communication Development Division**

No.: CEA/PCD/PTCC/JHR-48 /12/11-12/14

Date: 09.12.2019

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 Jasidih – Giridih Transmission line

Reference:

- (i) Dy.G.M.Trans.Operation/Projects, JUSNL letter No. 588/ESE(T) dated 15.07.19
- (ii) BSNL letter no. DE/PTCC/ER/EJH060420192409/01 dated 20.08.19
- (iii) Eastern Railway no.SG.241/1/PTCC/260 dated 10.07.19
- (iv) East Central Railway letter no. ECR/S&T/PTCC/134, Pt.III/686 dated 30.07.19
- (v) Defense letter no. B/46937/Sigs 7(b)/1709 dated 07.08.19

The PTCC proposal submitted vide above ref(i) has been examined. BSNL vide above reference (ii) has issued NOC. The low frequency induction on Block & Telecom circuits of Eastern Railway and East Central Railway with respect to details furnished vide above references have been computed. The Soil Resistivity (SR) value has been taken as 7500 Ohm-cm. The voltages likely to be induced on paralleling Block & Telecom circuits of Eastern Railway and East Central Railway under Single Line to Ground fault condition are enclosed at Annex-I & II respectively. The screening factors, as applicable, have been considered. Vide ref. (v) above, Defence Authority have issued No Objection Certificate (NOC) (a copy enclosed as Annex-III).

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

Encl.: As above

उपेन्द्र मुमार

Upendra Kumar Chief Engineer

#### Copy to:

1) CSTE, Eastern Railway, N.S. Road, B.B.D. Bagh, Kolkata, West Bengal - 700001 (Only Annex-I)

2) GM(S&T), East Central Railway, Hajipur, Bihar – 844101 (Only Annex-II)

3) DGM (Operations & Project), Transmission Circle, Jharkhand Urja Sancharan Nigam Limited, Deoghar, Campus- 132/33 kV Grid Sub-Station, Deogarh - 814112, Jharkhand.

Receved By SK. Habib Ali LNT (Reognar) 16:12:10

एन आर पी सी परिसर, कटवारिया सराय, नई दिल्ली-110016 टेलीफैक्स: 011-26565214 ईमेल: celdntcea@gmail.com NRPC Building, Katwaria Sarai, New Delhi-110016 Telefax: 011-26565214 Email: celdntcea@gmail.com Website: <u>www.cea.nic.in</u>

ANNEXURE - I

Case No.: JHR-48 Name of the Power line: 220 KV D/C Jasidih – Giridih Overhead Transmission line			Map Scale: 1cm=500mts Total Length: 76.553Km. S.R. Value: 7,500 Ohms-cm		
S.No.	Telecom. Details	Length of Parallelism in Km.	Mutual Coupling in Ohms.	Effective Fault current in Amps.	I.V in Volts
EASTE Ref. No:	RN RAILWAY SG. 241 / PTCC / 260 DATED: 10-0	7-2019	······································		
Affecte	d Blocks & Telcom Circuits Details				
1	Giridih - Maheshmunda	Out Side I	V	<u>.                                    </u>	·
	Mathurapur - Sankarpur	2	V consideration 0.0004	T :	0
3	Sankarpur - Jasidih	8	0.0004	7200	3
4	Jasidih - Tulsitanr	11	0.0031	7800 8500	24
5	Jasidih – Baidyanath Dham	2	0.0049	8500 8400	42
			<u> </u>	0400	4
				34-6-45	112
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<u>ANNEXURE - II</u> Case No.: JHR-48 Map Scale Name of the Power line: 220 KV D/C Jasidih - Giridih Overhead : 1cm=500mts Total Length: 76.553Km. Transmission line S.R. Value : 7,500 Ohms-cm **Effective** Length of Mutual Fault I.V Parallelism Coupling current S.No. Telecom. Details in in Km. in Ohms. in Amps. Volts. East Central Railway ECR /S&T /PTCC /134,Pt.III /686 dt. 30.07.2019 Kawar - Jamua -Out of //sm----महारा प्राचिति प्राचिति । C.E.A.

केन्द्रीय विद्या प्राचिति । Of Power

विद्या विप्राचिति / Ministry of India

विद्या विप्राचिति / Govi. of India

विद्या (Tebr) / Govi. Delhi

विद्या (Tebr) / New Delhi
विद्या (Tebr) / New Delhi

Annex-111
THR-48

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)/1709/

6/Aug 2019

Office of the Dy. G.M. (Transmission Operation/Projects) Jharkhand Urja Sancharan Nigam Limited 132/33kV Grid Sub-Station, Deoghar, Dist. Deoghar, PIN-814112

# PROPOSAL FOR PTCC APPROVAL OF 220KV D/C JASIDIH-GIRIDIH TRANSMISSION LINE

- Ref your letter No 494/ESE(T) dt 17 Jun 2019 (copy att),
- No Objection Certificate (NOC) is accorded based on inputs provided vide Map sheet received under your letter mentioned above.
- Documents alongwith map sheets (in original) are returned herewith for your further necessary action.

(Anurag Mishra)

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

Divisional Engineer Telegraph (PTCC) O/o GM (North); BSNL, QA & Inspection Circle, CTS Compound, Africa Avenue Road, Metaji Nagar, New Delhi-110023

for information