



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. : JHR-50
PTCC proposal of 400 kV D/C North Karanpura – Chandwa transmission line (38.068 km)

Reference:		
S. No.	Reference No.	Dated
(i)	M/s North Karanpura Transco Ltd: letter no. NIL	13.08.2019
(ii)	BSNL: DE/PTCC/EJH290920200001/OFFLINE	12.07.2021
(iii)	East Central Railway: ECR-HQ0SnT(CPTC)/1/2020-O/o Dy.CSTE/HQ/ECR eFile no. 947	11.04.2022
(iv)	Defense: B/56937/Sigs 7(b)/1814	27.11.2019

The PTCC proposal submitted vide reference (i) has been examined. BSNL, vide reference (ii) has conveyed its NOC. The LF induction on block & telecom circuits of East Central Railway with respect to details furnished vide above reference (iii) has been computed. The voltages likely to be induced on paralleling block & telecom circuits of East Central Railway under Single Line to Ground fault condition are enclosed at Annexure-I. The screening factors, as applicable, have been considered. Defense Authority, vide reference (iv) above, has conveyed its NOC (enclosed at Annexure-II).

Taking above into consideration, necessary action regarding issuance of PTCC route approval may be taken.

Encl.: As above.

सचिव एवं प्रमुख निदेश
 10.05.22
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 Annexure -II
2.	Dy. CSTE	East Central Railway, Office of the General Manager (S&T), Hajipur - 844118	With Annexure -I
3.	M/s North Karanpura Transco Ltd	Sunita Sadan, 1 st floor, Ashram Marg, Bariatu, Near Military Firing Range, Ranchi, Jharkhand - 834009	Copy for information

File No.CEA-PS-17-11(13)/12/2022-PCD Division



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के.वि.प्रा. केस सं. : JHR-50 / 399-401
पी.टी.सी.सी. प्रस्ताव 400 kV D/C North Karanpura – Chandwa transmission line (38.068 km)

क्रमांक	सन्दर्भ सं.	दिनांक
(i)	M/s North Karanpura Transco Ltd: letter no. NIL	13.08.2019
(ii)	BSNL: DE/PTCC/EJH290920200001/OFFLINE	12.07.2021
(iii)	East Central Railway: ECR-HQ0SnT(CPTC)/1/2020-O/o Dy.CSTE/HQ/ECR eFile no. 947	11.04.2022
(iv)	Defense: B/56937/Sigs 7(b)/1814	27.11.2019

संदर्भ (i) द्वारा प्रस्तुत पीटीसीसी प्रस्ताव की जांच की गई है। बीएसएनएल ने उपरोक्त संदर्भ (ii) के द्वारा अनापत्ति प्रमाण पत्र जारी किया है। पूर्वीय मध्य रेल के ब्लॉक एवं टेलिकॉम सर्किटों पर निम्न आवृत्ति प्रेरण गणना उपरोक्त संदर्भ (iii) में दिए गए विवरणों के संबंध में की गई है। सिंगल लाइन टू ग्राउंड फाल्ट अवस्था में समानांतर पूर्वीय मध्य रेल के ब्लॉक एवं टेलिकॉम सर्किटों पर प्रेरित वोल्टेज अनुलग्नक -I में संलग्न है। स्क्रीनिंग कारक का मान यथानुरूप लिया गया है। रक्षा प्राधिकरण ने उपरोक्त संदर्भ (iv) के द्वारा अनापत्ति प्रमाण पत्र जारी किया है (अनुलग्नक -II में संलग्न)।

उपरोक्त को ध्यान में रखते हुए, पीटीसीसी मार्ग अनुमोदन जारी करने के संबंध में आवश्यक कार्रवाई की जाए।

संलग्न: ऊपरोक्त अनुसार

शाफ़िकुल्लाह प्रताप सिंह
10.05.22
निदेशक

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 Annexure -II
2.	Dy. CSTE	East Central Railway, Office of the General Manager (S&T), Hajipur - 844118	With Annexure -I
3.	M/s North Karanpura Transco Ltd	Sunita Sadan, 1 st floor, Ashram Marg, Bariatu, Near Military Firing Range, Ranchi, Jharkhand - 834009	Copy for informati on

ANNEXURE - I

EA Case No.: JHR-50

Name of the Power line: 400 kV D/C North Karanpura - Chandwa transmission line

Map Scale : 1 cm=500 m

Total Length : 38.068 km

S.R. Value : 7,500 Ω -cm

S.No.	Telecom. Details	Length of Parallelism in Km.	Mutual Coupling in Ohms.	Effective Fault current in Amps.	I.V in Volts.
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EAST CENTRAL RAIWAY Ref. No: ECR-HQ0SnT(CPTC)/1/2020-O/o Dy.CSTE/HQ/ECR eFile no. 947 Dated: 11.04.2022

Affected Blocks & Telecom Circuits Details

1	Bukhru - Balumath	Out of parallelism			0
2	Balumath - Kusmahi	3.1	0.0029	9375	27
3	Kusmahi - Biratoli	5.2	0.0007	15000	11

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

Tele : 23019746

JHR-50

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)/1814/

29 Nov 2019

North Karanpura Transco Limited
Sunita Sadan, 1st Floor, Ashram Marg Bariatu,
Near Military Firing Range,
Dist-Ranchi, PIN-834009 Jharkhand

PTCC PROPOSAL FOR 400KV D/C NORTH KARANPUR-CHANDWA TRANSMISSION LINE

1. Ref your letter No Nil dt 13 Aug 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.

~~(A) Rawat~~
Maj
GSO 1 (Comn)
for SO-in-C

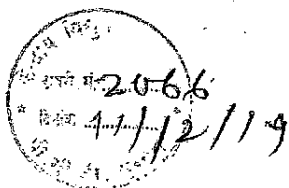
Enclosures : (As above)

Copy to :-

✓ The Director (PTCC), CEA
Power Communication Development Division
NRPC Complex, 18-A Shaheed 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,
Netaji Nagar, New Delhi-110023

for information



Handwritten notes:
ST JPS
MCC LT
13/12
11/12