



## Government of India

विद्युत मंत्रालय

Ministry of Power केन्द्रीय विद्युत प्राधिकरण

### Central Electricity Authority पावर कम्युनिकेशन डवलप्मेंट प्रभाग

## Power Communication Development Division

No.: CEA/PCD/PTCC/JHR-45 & WB-130/1229-1232

Date: 20.12.2019

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 765 kV D/C Ranchi - Medinipur Transmission line

Reference:

- (i) CM, PGCIL, ER-II letter no. ER-II/TBCB/PMJTL/GBT/PTCC-RMTL/227 dated 11.06.18
- (ii) CM, PGCIL, ER-I letter no. ER-I/TBCB/PMJTL/W-18/113 dated 10.05.18
- (iii) BSNL letter no. DE/PTCC/ER/EJH201520182125/02 dated 24.12.18 & DE/PTCC/ER/EWB220620182137/01 dated 05.01.19
- (iv) South Eastern Railway no.S&T/T/176/Pt.X/751 dated 19.03.19
- (v) Defense letter no. B/46937/Sigs 7(b)/1395 dated 29.08.19 & B/46937/Sigs 7(b)/1230 dated 10.09.18

The PTCC proposal submitted vide above ref(i) and ref(ii) has been examined. The low frequency induction on BSNL and Railway Telecommunication circuits as per details furnished vide above references (iii) and (iv) respectively has been examined. The Soil Resistivity value has been taken as 50,000/1,00,000 Ohmscm, as per data submitted by Power Authority. Voltages likely to be induced on paralleling BSNL Telecom Cables and Railway Telecommunication circuits under single line to ground fault condition are enclosed at Annex-I(A&B) & II respectively. The screening factors as applicable have been considered. Defense has accorded NOC vide above Ref.(v) for the line (a copy enclosed at Annex-III (A&B).

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

Encl.: As above

Upendra Kumar Chief Engineer

ाज आभिनेता/Chief Engineer केन्द्रीय विद्युत प्राधिकरण/C.E.A. विद्युत मंत्रालय/Ministry of Power बारत संस्कार/Govt. of India

Ch. Manager, PGCIL, ER-I, House No.360A, Mamta Bhawan, Ranchi - 834002

Copy to:

1) Pr. CSTE, South Eastern Railway, Garden Reach, Kolkata - 700043 (Only Annex-II) Ch. Manager, PGCIL, ER-II, CF-17, Action Area 1C, New Town, Rajarhat, Kolkata - 700156 Ch. Manager, PGCIL, ER-II, CF-17, Action Area 1C, New Town, Rajarhat, Kolkata - 700156

ANNEXURE - I-A

Name,	Name of the Power line: 765 KV D/C RANCHI TO MEDINIPUR TRANSMISSION LINE (JHARKHAND PORTION)		Map Scale : 1cm=500mts Total Length : 118.427Km. S.R. Value : 50,000 & 1,00,000 Ohms-cm		
S.No.	Telecom. Details	Length of Parallelism in Km.	Mutual Coupling in Ohms.	Effective Fault current in Amps.	I.V in Volts.
	DETAIL		<u> </u>	·	
Ref. No:	DE / PTCC / ER / EJH210520182125 /	02 DATED: 24-12	2-2018		
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С	Pillar P to Pillar B		•		
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b	Pillar P to A		IV less than	430V <del></del>	
C	Pillar P to B				
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BUx ———	BUNDU EXCHANGE				
a		7		The second secon	-21
b			IV less than	430V	
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	Nimdih Exchange to pillar A				
	Nimdih Exchange to pillar B		IV less than430V		
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·		· · ·	अस्य अभियंता	प्राधिकरण /C.E.A.	
			क्षन्द्राय प्रयुत	ADTO A COWEL	

विद्युत संत्रातय/Ministry of Powe भारत संस्कार/Govt. of India नई दिल्ली/New Politic

ANNEXURE - I-B Case No.: WB - 130 Name of the Power line: 765 KV D/C RANCHI TO MEDINIPUR Map Scale : 1cm=500mts TRANSMISSION LINE (WEST BENGAL PORTION) Total Length: 151.671 Km. S.R. Value : 50,000 &1,00,000 Ohms-cm **Effective** Length of Mutual Fault I.V **Parallelism** Coupling current in S.No. Telecom. Details in Km. in Ohms. in Amps. Volts. BSNL DETAIL Ref. No: DE / PTCC / ER / EWB220620182137 / 01 DATED: 05-01-2019 Affected Blocks & Telcom Circuits Details SATBANKURA EXCHANGE Satbankura exchange to pillar a Satbankura exchange to pillar b ------IV LESS THAN 430V ------Satbankura exchange to pillar c В HOOMGARH EXCHANGE Hoomgarh Exchange to pillar a Hoomgarh Exchange to pillar b b Hoomgarh Exchange to pillar c C AMLASULI EXCHANGE Amlasuli Exchange to a Amlasuli Exchange to b --IV LESS THAN 430V Amlasuli Exchange to c D SIMLAPAL EXCHANGE Simlapal exchange to pillar a Simlapal exchange to pillar b Simlapal exchange to pillar c E LAKSHMISAGAR EXCHANGE Lakshmisagar Exchange to pillar a 1.5 0.0452 14200 641 Lakshmisagar Exchange to pillar b Lakshmisagar Exchange to pillar c -IV LESS THAN 430V -----F KHATRA EXCHANGE

पुष्प अभिगंता/Chief Engineer केन्द्रीय विद्युत प्राधिकरण/C.E.A. विद्युत प्राधिकरण/C.E.A. विद्युत मंत्रालय/Ministry of Power भारत संस्कार/Govt. of India नई दिल्ली/New Dolhi

-IV LESS THAN 430V ------

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(2/2)

मुख्य अभिवंता/Chief Engineer कन्द्रीय विद्युत प्राधिकरण/C.E.A. विद्युत मंत्रालय/Ministry of Power भारत संस्कार/Govt. of India नई दिल्ली/Mory Coll:

ANNEXURE - II

Gase No : WR -130 & IHP-45			ANNEXURE – II			
Case No.: WB -130 & JHR-45 Name: of the Power line: 765 KV D/C RANCHI TO MEDINIPUR TRANSMISSION LINE ( JHARKHAND & WEST BENGAL PORTION)			Map Scale : 1cm=500mts Total Length : 270.098 Km. S.R. Value : 50,000 & 1,00,000 Ohms-cm			
S.No.	Telecom. Details	Length of Parallelism in Km.	Mutual Coupling in Ohms.	Effective Fault current in Amps.	I.V in Volts.	
	I EASTERN RAILWAY S&T /T/176 /Pt.X / 751 DATED: 19-	03-2019				
<u>Affecte</u>	d Blocks & Telcom Circuits Details	<del></del>				
1	Hatia - Balsiring	1	0.0005	17000	9	
2	Balsiring - Lodhma	5	0.0099	18100	 178	
3	Lodhma - Karra	1.5	0.0007	18350	13	
4	Gundabihar - Jhimri	3	0.0032	11470	37	
5	Jhimri - Latemdah	9	0.0238	12200	290	
6	Latemdah - Tiruldih	7	0.0226	12600	285	
7	Tiruldih - Suisa	1	0.0005	12900	6	
			किन्द्रोय है। विद्युत मंत्रा आरत नंड	THE AND THE POWER OF THE POWER		

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)/1230/

**I**○Sep 2018

Chief Manager (TBCB)
PowerGrid Medinipur-Jeerat Transmission Limited ERTS-I, House No. 360A, Mamta Bhawan, Road No. 4B, Ashok Nagar Ranchi (Jharkhand)-834002

## PROPOSAL FOR PTCC APPROVAL OF 765 KV D/C (HEXA ZEBRA) RANCHI-MEDINIPUR T/L (JHARKHAND PORTION)

- 1. Ref your letter No. ER-1/TBCB/PMJTL/W-18/113 dt 10 May 2018 (copy att).
- 2. No Objection Certificate (NOC) is accorded based on inputs provided vide Map sheets received under your letter mentioned above.
- 3. Documents alongwith map sheets (in original) are returned herewith for your further necessary action.

(A Rawat)

Мај

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.

1 28/5

A. J. SPA-11 10118 Tele: 23019746

WB-130

Annex-111B

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

29 May 2019

B/46937/Sigs 7(b)/1395/

Chief Manager (TBCB)
Power Grid Medinipur-Jeerat Transmission Limited
Powergrid, Tiger House (Near Gitanjali Lodge)
Chandrakona Road, P.O.-Satbankura,
Dist.-Paschim Medinipur, PIN-721253, West Bengal

# PROPOSAL FOR PTCC APPROVAL OF 765 KV D/C HEXA ZEBRA RANCHI- MEDINIPUR TRANSMISSION LINE (WEST BENGAL PORTION)

- 1. Ref your letter No. ER-II/TBCB/PMJTL/GBT/PTCC-RMTL/1864 dt 13 May 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)

Мај

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.

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STUDENT THE SUCK

18.06.19

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