



सत्यमेव जयते

भारत सरकार

Government of India

विद्युत मंत्रालय

Ministry of Power

केन्द्रीय विद्युत प्राधिकरण

Central Electricity Authority

विद्युतसंचारविकासप्रभाग

Power Communication Development Division

No.: CEA/PCD/PTCC/UP-514/621-24

Date: 09.10.2020

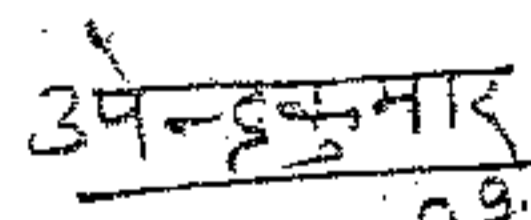
Subject: PTCC proposal for 400 kV D/C (Twin moose) Rosa-Badaun transmission line-regd.

Ref.: (i) OCBTL Ref. No. OCBTL/Bareilly/PTCC/91 Dated: 31.08.2019
(ii) BSNL Ref. No. DET/PTCC/ND/DV-9725/UP-869/2020-21 Dated: 24.08.2020
(iii) Northern Railway Ref. No. 342-SIG/1/PTCC/2020-21/09/02 Dated: 15.09.2020
(iv) North Eastern Railway Ref. No. N/242/0(Tele)PTCC Part-II/1055 Dated: 06.03.2020
(v) Defense Ref. No. B/46937/Sigs 7(b)/1850 Dated: 22.01.2020

The PTCC proposal submitted vide ref. (i) has been examined. The LF induction on Telecom cables of BSNL and Block & Telecom circuits of Northern Railway and North Eastern Railway with respect to details furnished vide above references (ii), (iii) and (iv) respectively has been computed. The Soil Resistivity (SR) value has been taken as 25,000 Ohm-cm. The voltages likely to be induced on paralleling telecom cables of BSNL and Block & Telecom circuits of Northern Railway and North Eastern Railway under Single Line to Ground fault condition are enclosed at Annex-I, Annex-II and Annex-III respectively. The screening factors, as applicable, have been considered. Vide ref. (iv) above, Defence Authority have issued No Objection Certificate (NOC) (a copy enclosed as Annex-IV).

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

Encl.: As above.


09.10.2020
(Upendra Kumar)
Chief Engineer

To,
The DET (PTCC), BSNL, Northern Zone,
O/o PGM (N), QA & Inspection Circle,
D-Tax Building, Eastern Court
Janpath, New Delhi 110001.

MIC

Contd.

Case No. : UP-514

Annexure I

Name of the Power Line: 400 KV DC (Twin Moose) Rosa- Badaun
Transmission line

Toposheet Scale : 1cm=500mts
Total Length : 85.220 Kms
S.R Value : 25,000 Ohm-cm

Sl. No.	Name of Telecom Line	LOP in Kms	MC in Ohms	Fault Current (Amps)	IV in Volts
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BSNL					
Reference No. DET/PTCC/ND/DV-9725/UP-869/20201-21 Dated:- 24.08.2020					
Date :					
BSNL Details					
1	Rosa TE to Rosa Mandir 50 Pair (0.6 KM)	}	IV	less than	430V
2	Bareilly More to PNB Piprala 100 Pairs (3 KMS)				
3	GIC SJN to Hathora Bujurg 100 Pairs (3 KMS)				
4	Dataganj Exch to within Tower Dataganj 200 Pairs(3 KMS)				
5	Dataganj Exch to within Tower Dataganj 100 Pairs(4.5 KMS)				
6	Dataganj Exch to within Tower Dataganj 50 Pairs(4 KMS)				

रवि शर्मा
 जूनियर इंजीनियर / असि. इंजीनियर-II
 विभाग-10, एन.पी.सी.ए.
 विद्युत विभाग, राजस्थान विद्युत निगम
 जयपुर, राजस्थान-302002

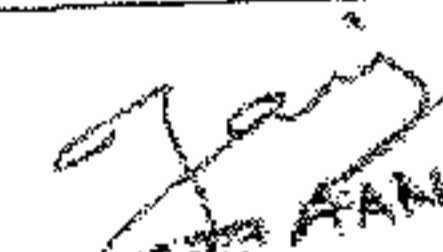
(1/1)

ANNEXURE - II

Case No.: UP-514 Name of the Power Line: 400 kV D/C (Twin moose) Rosa-Badaun transmission line.	Map Scale : 1 cm = 500 m. Route Length : 85.220 km Soil Resistivity : 25,000 Ohm-cm
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S.No.	Telecom Details	Length of Parallelism (in km)	Mutual Coupling (Ohms)	Fault Current (Amps)	Induced Voltage (Volts)
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NORTHERN RAILWAY Ref. No: 342-SIG/1/PTCC/2020-21/09/02		DATED: 15.09.2020			
<u>Affected Blocks & Telecom Circuits Details</u>					
<u>Bareilly-Rosa-Balamau section</u>					
1	Tisua R/S to Bilpur R/S	Outside IV consideration zone			00
2	Bilpur R/S to Miranpur Katra R/S	Outside IV consideration zone			00
3	Miranpur Katra R/S to Tilhar R/S	Outside IV consideration zone			00
4	Tilhar R/S to Banthra R/S	Outside IV consideration zone			00
5	Banthra R/S to Shahjahanpur R/S	Outside IV consideration zone			00
6	Shahjahanpur R/S to Rosa R/S	Out of Parallelism			00
7	Rosa R/S to Kahilia R/S	1.7	0.0029	14732	43
8	Kahilia R/S to Aigawan R/S	0.5	0.00006	14421	01
9	Aigawan R/S to Anji Shahabad R/S	Outside IV consideration zone			00


 J. K. SINGH
 Jt. Secy. (E) / Jt. Secy. (E) / Jt. Secy. (E)
 Ministry of Railways
 New Delhi

Case No.: UP-514 Name of the Power Line: 400 kV D/C (Twin moose) Rosa-Badaun transmission line.		Map Scale : 1 cm = 500 m. Route Length : 85.220 km Soil Resistivity : 25,000 Ohm-cm			
S.No.	Telecom Details	Length of Parallelism (in km)	Mutual Coupling (Ohms)	Fault Current (Amps)	Induced Voltage (Volts)

NORTH EASTERN RAILWAY Ref. No: N/242/0(Tele)PTCC Part-II/1055		DATED: 06.03.2020			
<u>Affected Blocks & Telecom Circuits Details</u>					
1	Makrandpur-Ghatpuri	2.1	0.0003	14879	05
2	Makrandpur-Bamiyana	Out of parallelism			00
3	Bamiyana-Ramganga Bridge	Outside IV consideration zone			00

राजेश/TANUJ
 सहायक निदेशक-II/Asstt. Dir. for II
 केन्द्रीय विद्युत प्राधिकरण/C.E.A.
 विद्युत मंत्रालय/Ministry of Power
 भारत सरकार/Govt. of India
 नई दिल्ली/New Delhi-65

राजेश/TANUJ
 सहायक निदेशक-II/Asstt. Dir. for II
 केन्द्रीय विद्युत प्राधिकरण/C.E.A.
 विद्युत मंत्रालय/Ministry of Power
 भारत सरकार/Govt. of India
 नई दिल्ली/New Delhi-65

Tele : 23019746

UP EIA
(Annex-IV)

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

B/46937/Sigs 7(b)/1853/

Dec 2019

Associate Manager
Obra-C/Badaun Transmission Limited
House No. 116, Green Park Colony,
Bisalpur Road, Bareilly (UP) India,
Pin Code-243006

PTCC APPROVAL OF 400KV D/C (TWIN MOOSE) ROSA-BADAUN T/L

1. Ref your letter No OCBTL/Bareilly/PTCC/91 dt 31 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