



सत्यमेव जयते

भारत सरकार  
Government of India  
विद्युत मंत्रालय  
Ministry of Power  
केन्द्रीय विद्युत प्राधिकरण  
Central Electricity Authority  
विद्युत संचार विकास प्रभाग  
Power Communication Development Division

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No.: CEA/PCD/ PTCC/UP-508/410-412

Date 20.08.2020

**Subject:** PTCC proposal for LILO of 220 kV S/C Chandausi-Badaun transmission line at 400 kV GIS Badaun-regd.

- Ref.:** (i) OCBTL Ref. No. OCBTL/Bareilly/PTCC/92 Dated: 31.08.2019  
(ii) BSNL Ref. No. DET/PTCC/ND/DV-9719/UP-866/2020-21 Dated: 16.07.2020  
(iii) North Eastern Railway Ref. No. N/242/0(Tele)PTCC Part-II/1067 Dated: 11.03.2020  
(iv) 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 North Eastern Railway with respect to details furnished vide above references (ii) and (iii) respectively has been computed. The Soil Resistivity (SR) value has been taken as 20,000 Ohm-cm. The voltages likely to be induced on paralleling telecom cables of BSNL and Block & Telecom circuits of North Eastern Railway under Single Line to Ground fault condition are enclosed at Annex-I and Annex-II 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-III).

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

Encl.: As above.

*Upendra Kumar*  
20.08.2020

(Upendra Kumar)  
Chief Engineer

To,  
The Divisional Engineer (Telecom), BSNL  
PTCC O/o GM (North), Inspection Circle (T & D),  
CTS Compound, Netaji Nagar,  
Africa Avenue, New Delhi - 110023.

*MJC*

Case No. : UP-508

Annexure I

Name of the Power Line: 220 KV Chandausi- Badaun Transmission line at 400/220/132 KV GIS Badaun

Toposheet Scale : 1cm=500mts  
 Total Length : 18.489 Kms  
 S.R Value : 20,000 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-9719/UP-866/20201-21 Dated:- 16.07.2020  
 Date :

BSNL Details					
1	Devchara to Bhamora 20 Pair ( 3 KM)				
2	Sainda to Iffco Township 1200 pair ( 4 KM)				
3	Sainda to Khudha 50 pair ( 5 KM)				
4	Kunwargaon TE to Charwah 20 pr. 200mts				} IV less than 430V
5	Kunwargaon TE to Charwah Town 50 pr. 100mts				
6	Bitraur TE to Bitraur Thana 200 pr. 100mts				

*Jamun*  
 सहायक निदेशक-II/Asstt. Director-II  
 केन्द्रीय विद्युत प्राधिकरण/C.E.A.  
 विद्युत मंत्रालय/Ministry of Power  
 भारत सरकार/Govt. of India  
 नई दिल्ली/New Delhi

**ANNEXURE - II**

<b>Case No.: UP-508</b> <b>Name of the Power Line:</b> LILO of 220 kV S/C Chandausi-Badaun transmission line at 400 kV GIS Badaun.		Map Scale : 1 cm = 500 m. Route Length : 18.489 km Soil Resistivity : 20,000 Ohm-cm			
S.No.	Telecom Details	Length of Parallelism (in km)	Mutual Coupling (Ohms)	Fault Current (Amps)	Induced Voltage (Volts)

<b>NORTH EASTERN RAILWAY</b> Ref. No: N/242/0(Tele)PTCC Part-II/1067		DATED: 11.03.2020			
<b><u>Affected Blocks &amp; Telecom Circuits Details</u></b>					
1	Makrandpur-Ghatpuri	10.3	0.0098	7241	71
2	Makrandpur-Bamiyana	Out of Parallelism			00

*Jamir*

राजन/TANUJ  
 सहायक निदेशक-II/Asstt Director-II  
 केन्द्रीय विद्युत प्राधिकरण/Central  
 विद्युत मंत्रालय/Ministry of Power  
 भारत सरकार/Govt of India  
 नई दिल्ली/New Delhi

Tele: 23019746

Annex-III

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


B/46937/Sigs 7(b)/1850/

21 Jan 2020

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

PTCC APPROVAL OF LILO OF 220KV S/C CHANDAUSI-BADAUN TRANSMISSION LINE AT  
400KV GIS BADAUN

1. Ref your letter No OCBTL/Bareilly/PTCC/92 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