



सत्यमेव जयते

भारत सरकार

Government of India

विद्युत मंत्रालय

Ministry of Power

केन्द्रीय विद्युत प्राधिकरण

Central Electricity Authority

विद्युतसंचारविकासप्रभाग

Power Communication Development Division

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No.: CEA/PCD/ PTCC/UP-524 / 674-676

Date: 09.11.2020

**Subject: PTCC proposal for LILO of 765 kV Anpara "D"- Unnao S/C transmission line at Obra "C" TPS-regd.**

**Ref.:** (i) OCBTL Ref. No. OCBTL/Bareilly/PTCC/150 Dated: 27.01.2020  
(ii) BSNL Ref. No. DET/PTCC/ND/DV-9789/UP-910/2020-21 Dated: 28.10.2020  
(iii) East Central Railway Ref. No. ECR/S&T/PTCC/134,Pt.III/1751 Dated: 03.07.2020  
(iv) Defense Ref. No. B/46937/Sigs 7(b)/1992 Dated: 01.07.2020

The PTCC proposal submitted vide ref. (i) has been examined. The LF induction on telecom cables of BSNL and Block & Telecom circuits of East Central 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 25,000 Ohm-cm. The voltages likely to be induced on paralleling telecom cables of BSNL and Block & Telecom circuits of East Central Railway under Single Line to Ground fault condition are enclosed at Annex-I and 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.

*34-5-2020*  
*09.11.2020*

(Upendra Kumar)  
Chief Engineer

*Sh. P. S.*  
*RPS*

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

*M/c*

Copy to:-

1. Dy. CSTE/HQ, East Central Railway O/o General Manager (S&T), Hajipur-844101. (Annex-II)
2. Associate Manager, Obra C- Badaun Transmission Ltd., House No. 116, Green Park Colony, Bilaspur Road, Bareilly (UP)-243006.

Case No. :

Name of the Power Line: LILO of 765 KV Anpara "D"-Unnao S/C  
Transmission Line at Obra "C" TPS

Annexure 1

Toposheet Scale : 1cm=500mts

Total Length : 8.983Kms

S.R Value : 25000 Ohm-cm


Sl. No.	Name of Telecom Line	LOP in Kms	MC in Ohms	Fault Current (Amps)	IV in Volts
BSNL Reference No. DET/PTCC/ND/DV-9789/UP-910/20201-21 Dated - 28.10.2020 Date					
BSNL Details					
1	Obra TE to Club No 1 & Colony 100 pair x 3, 50 Pair x 1 ( 1.5 KM)	}			IV less than 430V
2	Obra TE to Sectrop-9 & Colony 200 Pr x 1, 100 pair x 1, 50 Pair x 1 ( 3 KM)				
3	Obra TE to Sectrop-8 & Colony 400 Pr ( 2.5 KM)				
4	Obra TE to Convent School & market, 100 pair x 3, 50 Pair x 1 ( 1 KM)				
5	Obra TE to Chopan Road & market, 100 pair x 3, 50 Pair x 1 (1.8 KM)				

*Tanuj*  
 तनुज / TANUJ  
 सहायक निरीक्षक-II / Asst. Insp. for II  
 क्षेत्रीय विद्युत परियोजना/ R.A.  
 विद्युत विभाग / Ministry of Power  
 भारत सरकार / Govt. of India  
 नई दिल्ली / New Delhi-60

## ANNEXURE - II

<b>Case No.: UP-524</b> <b>Name of the Power Line: LILO of 765 kV Anpara "D"-</b> <b>Unnao S/C transmission line at Obra "C" TPS.</b>		<b>Map Scale : 1 cm = 500 m.</b> <b>Route Length : 8.983 km</b> <b>Soil Resistivity : 25.000 Ohm-cm</b>			
S.No.	Telecom Details	Length of Parallelism (in km)	Mutual Coupling (Ohms)	Fault Current (Amps)	Induced Voltage (Volts)

<b>EAST CENTRAL RAILWAY</b> <b>Ref. No: ECR/S&amp;T/PTCC/134,Pt.III/1751</b>		<b>DATED: 03.07.2020</b>			
<b><u>Affected Blocks &amp; Telecom Circuits Details</u></b>					
1	Copan-Billi	5.4	0.0020	15548	31
2	Billi-Obradam	0.7	0.0004	17328	07
3	Obradam-Paparkund	0.5	0.0005	18887	09

  
 सहायक निदेशक-II/Asstt. Dir. of II  
 केंद्रीय विद्युत प्रबंधन/CT. A.  
 विद्युत विभाग/Ministry of Power  
 भारत सरकार/Govt. of India  
 नई दिल्ली/New Delhi

Tele 23019748

UP-524  
(Annex-TII)

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


B/46937/Sigs 7(b)/1992/

2 Jul 2020

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

PROPOSAL FOR PTCC APPROVAL OF LILO OF 765KV ANPARA "D"-UNNAO S/C LINE AT  
OBRA "C" TPS

- 1 Ref your letter No OCBTL/Bareilly/PTCC/ dt Jan 2020. (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  
Kaiwaria 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