



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/GUJ-803/651-53

Date: 27.10.2020

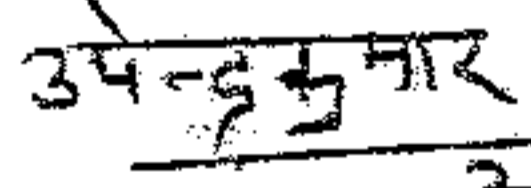
Subject: PTCC proposal for LILO of Bhachau – EPGL 400 kV D/C line at Lakadia PS-regd.

Ref.: (i) WRSS XXI(A) Transco Ltd Ref. no. WRSS/2019-20/95 dated 29.02.2020
(ii) BSNL Ref. no. IC/MBI/PTCC/GJ-2821 & 2822 dated 27.07.2020
(iii) Western Railway Ref. no. SG.158/28/12 (1134) dated 08.09.2020
(iv) Defense Ref. no. B/46937/Sigs 7(b)/2037 dated 04.09.2020

The PTCC proposal submitted vide ref. (i) has been examined. The LF induction on telecom cables of BSNL and block & telecom circuits of Western Railway, as per details furnished vide ref. (ii) and (iii) respectively, has been examined. The Soil Resistivity value has been taken as 5,000 Ohms-cm. Voltages likely to be induced on paralleling telecom cables of BSNL and block & telecom circuits of Western Railway, under single line to ground fault condition are enclosed at Annex-I and II respectively. The screening factors as applicable have been considered. Defense has accorded NOC vide above ref. (iv) for this line (a copy enclosed at Annex-III).

Taking above into consideration, kindly take necessary action regarding issue of PTCC route approval.

Encl.: As above.

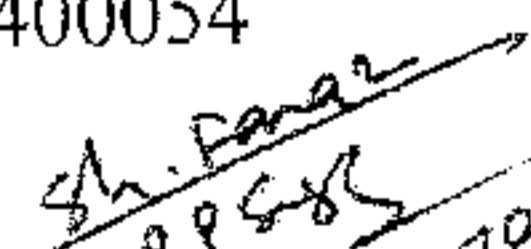

(Upendra Kumar)
27.10.2020
Chief Engineer

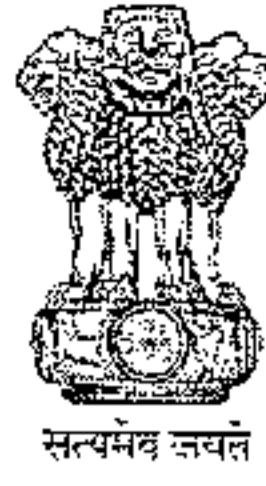
To,
Divisional Engineer (PTCC), Inspection Circle,
Bharat Sanchar Nigam Limited (BSNL),
3rd Floor, D-Wing, BSNL Admin Building
Juhu Tara Road, Santacruz (West), Mumbai-400054

Copy to:

1. GM(S&T), Office of CSTE, Western Railway, S&T Dept. , 5th Floor, Station Building, Churchgate, Mumbai – 400020 (Only Annex-II)
2. Associate General Manager (Projects), WRSS XXI(A) Transco Ltd, House No. 22, Odhav Vandana-4, Near MEWS School, Air Port Road, Bhuj, Gujarat - 370001




RPS/S
29.10.20



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Encl.: As above.

उपेन्द्र कुमार
27.10.2020
(Upendra Kumar)
Chief Engineer

To,
Divisional Engineer (PTCC), Inspection Circle,
Bharat Sanchar Nigam Limited (BSNL),
3rd Floor, D-Wing, BSNL Admin Building
Juhu Tara Road, Santacruz (West), Mumbai-400054

M/C

Sh. Tanuj
RP Singh
27.10.20

Copy to:

1. GM(S&T), Office of CSTE, Western Railway, S&T Dept., 5th Floor, Station Building, Churchgate, Mumbai – 400020 (Only Annex-II)
2. Associate General Manager (Projects), WRSS XXI(A) Transco Ltd, House No. 22, Odhav Vandana-4, Near MEWS School, Air Port Road, Bhuj, Gujarat - 370001

CEA.

Annex-I

CEA office case No: <u>GUJ-803</u>		Map Scale: 1 Cm=500 Meters			
DET (PTCC) Office Case No: <u>2821</u>		Route Length: <u>38.562</u> Kms			
Railway Office Case No:		Soil Resistivity: <u>5000 Ohm-cm</u>			
Name of Power Line: <u>LILU of Bachau - EPGL 400KV Dle (Tarehal) line at</u>					
Telecom Details from BSNL			Details from Power Company/Authority		
Sl No.	Name of the Telecom Cable/Line	Length of Parameter in Km	Mutual coupling in Ohms	Fault current in Amp	Induced Voltage in Volts
1. Lakadia Gch					
1A	Lakadia Gch to local 400px1, 100px1, 50px2				
2A	" to local 200px1, 50px2, 20x1				
3A	" to local 50px1, 20px1				
4A	" to local 20px1				
2. Samakhiali Gch					
1B	Samakhiali Gch to Supermarket 200px1, 50px1				IV less than 430V
2B	" to local 200px1, 100px1, 20px1				
3B	" to local 50px1, 20px2				
3. Adhai Gch					
1C	" to local 400px1, 50px1, 20px1				
2C	" to local 100px1, 50px1				
3C	" to local 50px1, 20px1				
<p><u>Prateek</u></p> <p>प्रतीक श्रीवास्तव / Prateek Srivastava सहायक निदेशक-II / Asst. Director-II केन्द्रीय विद्युत नियंत्रण / Central Board of Secondary Education / C.B.S.E. शिक्षा विभाग / Ministry of Education भारत सरकार / Govt. of India नई दिल्ली / New Delhi</p>					

ANNEXURE – II

Case No.: GUJ-803 Name of the Power line: LILO of Bhachau – EPGL 400 kV D/C line at Lakadia PS		Map Scale : 1cm=500mts Total Length : 38.562 Km. Soil Resistivity : 5000 ohm-cm			
S.N	Telecom. Details	Length of Parallelism in Km.	Mutual Coupling in Ohms.	Effective Fault current in Amps.	I.V in Volts.

Western Railway letter no. SG.158/28/12 (1134) dated 08.09.2020					
1	Chitrod - Shivilakha	Outside IV Calculation Consideration Zone			0
2	Shivilakha - Lakadiya	4.7	0.0033	11200	37
3	Lakadiya - Samakhiyali	4.3	0.0007	9600	7
4	Samakhiyali – Katariya	1.2	0.0009	8200	7
5	Samakhiyali – Vondh	Outside IV Calculation Consideration Zone			0
6	Katariya – Surbari				

Prateek

प्रदीप श्रीवास्तव / PRATEEK SHRIWASTAVA
 सहायक निदेशक II / Asst. Director-II
 केन्द्रीय विद्युत आयोग / C.E.A.
 विद्युत मंत्रालय / Ministry of Power
 भारत सरकार / Govt. of India
 नई दिल्ली / New Delhi

File No. 2301974E

Annex-III
Directorate General of Signals 645-803
Signals 7
General Staff Branch
Integrated HQ of MoD, (Army)
DHQ PO, New Delhi - 110011


B/46937/Sigs 7(b)/2037/

04 Sep 2020

Associate General Manager (Projects)
WRSS XXI(A) Transco Limited
House No. 22, Odhav Vandana-4,
Near MEWS School, Air Port Road,
Bhuj-370001, Gujarat, India

REGARDING PTCC PROPOSAL OF LILO OF BHACHAU-EPGL 400KV D/C (TRIPLE) LINE
AT LAKADIA PS

- 1 Ref your letter No WRSS/2019-20/95 dt 29 Feb 2020 (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)
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 Jeei Singh Marg
Katwaria Sarai, New Delhi - 110016

The DET(PTCC), Northern Zone
O/o PGM (North), QA & Inspection Circle,
D-Tax Building, Janpath
New Delhi-110001

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for information