



सत्यमेव जयते

भारत सरकार

Government of India

विद्युत मंत्रालय

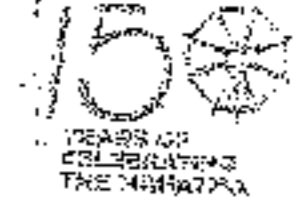
Ministry of Power

केन्द्रीय विद्युत प्राधिकरण

Central Electricity Authority

विद्युत संचार विकास प्रभाग

Power Communication Development Division



No.: CEA/PCD/ PTCC/GUJ-757/264-66

Date: 24.06.2020

Subject: - PTCC proposal for 220 kV LILO at Kawant S/s from 220 kV Vyankatpura-Achhaliya Transmission line -Reg.

References: -

- | | |
|---|-------------------|
| (i) GETCO Ref. No. CE (Project)/EE (Tr.-3.)/3507 | Dated: 31.03.2018 |
| (ii) BSNL Ref. No. IC/MBI/PTCC/GUJ-2549 | Dated: 29.05.2019 |
| (iii) Western Railway Ref. No. SG.158/28/12 (1025) | Dated: 11.10.2019 |
| (iv) Defense letter Ref. No. B/46937/Sigs 7(b)/1075 | Dated: 31.07.2018 |

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 with respect to details furnished vide above references (ii) and (iii) respectively has been computed. The Soil Resistivity (SR) value has been taken as 3,000 Ohm-cm. The 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 Annex-II respectively. The screening factors, as applicable, have been considered. Vide ref. (iv) above, Defense Authority have issued No Objection Certificate (NOC) (a copy enclosed as Annex-III).

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

Encls.: As above.

Upendra Kumar
24.06.2020

(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

Copy to:

1. GM (S&T), Western Railway, Office of CSTE, S&T Dept., 5th Floor, Station Building, Church gate, Mumbai-400020 (with Annexure-II).
2. Chief Engineer (Project), Gujarat Energy Transmission Corporation Ltd. Sardar Patel Vidyut Bhavan, Race Course, Vadodara, Gujarat-390 007.

Annex - I

SEA Office Case No. —		Map scale- 1 Cms = 500 Meters				
DET (PTCC) Office Case No. 2549		Route Length- 83.82 KMS				
Railway Office Case No.		Soil Resistivity- 1000 Ohm/CM				
Name of Power Line: 220 KV LLD to Kawat S/S from 220 KV Vyankatpura S/S - Achhaliya S/S Line No-1						
DETAILS FROM BSNL SIDE		DETAILS FROM POWER COMPANY				
Sl.No.	Name of the Telecom line/Cable	Length of parameter in KM	Mutual coupling in Ohms	Fault Current in Amp	Induce Voltage in Volts	
1 GHADH BORIAD EXCHANGE EXCHANGE						
1A	Ghadh Boriad Exch. - Local- 200*1 P					
2A	Ghadh Boriad Exch. - Local- 50*1 P					
3A	Ghadh Boriad Exch. - Local- 100*1 P					
2 SANKAL EXCHANGE						
1B	Sankal Exch. - Local - 100*1 P					
2B	Sankal Exch. - Local - 50*2 P					
3 NASWADI EXCHANGE						
1C	Naswadi Exch. - Local- 100*2 P					
2C	Naswadi Exch. - Local- 100*3 P					
3C	Naswadi Exch. - Local- 100*3 P					
4C	Naswadi Exch. - Local- 100*3 P					
5C	Naswadi Exch. - Amroli-50*1+20*2+10*1 P					
4 DEVALIYA EXCHANGE						
1D	Devaliya Exch.- Local- 200*1 P					
5 SAVLI EXCHANGE						
1E	Savli Exch.- Local- 100*1 P					
2E	Savli Exch.- Local- 10*2 P					
3E	Savli Exch.- Local- 20*4 P					
6 VOHRA EXCHANGE						
2F	Vohra Exch.- Local- 50*2 P					
3F	Vohra Exch.- Local- 20*3 P					
3F	Vohra Exch.- Local- 20*2 P					
7 UTAWALI EXCHANGE						
2G	Utawali Exch. - Local- 100*2 P					
2G	Utawali Exch. - Local- 50*1 P					
3G	Utawali Exch. - Local- 50*1 P					
8 TILAKWADA EXCHANGE						
1H	Tilakwada Exch.- Local - 100*2 P					
2H	Tilakwada Exch.- Local - 20*2+10*1 P					
3H	Tilakwada Exch.- Local - 100*1 P					
4H	Tilakwada Exch.- Local - 100*2 P					
5H	Tilakwada Exch.- Local - 100*1 P					

(5) less than 30 V.

24/06/2023
 मुख्य अभियंता/Chief Engineer
 केंद्रीय विद्युत प्राधिकरण/C.E.A.
 विद्युत मंत्रालय/Ministry of Power
 भारत सरकार/Govt. of India
 नई दिल्ली/New Delhi

ANNEXURE - II

Case No.: GUJ-757 Name of the Power line: 220 kV LILO at Kawant S/s from 220 kV Vyankatpura-Achhaliya Transmission line			Map Scale : 1cm=500mts Total Length : 83.82 Rkm. S.R. Value : 3,000 Ohms-cm		
S.No.	Telecom. Details	Length of Parallelism in Km.	Mutual Coupling in Ohms.	Effective Fault current in Amps.	I.V in Volts.

WESTERN RAILWAY

Ref. No: SG. 158 / 28 / 12 (1025)

DATED: 11.10.2019

Affected Blocks & Telcom Circuits Details

1	Malasar- Choranda	2.6	0.00112	9400	11
2	Dabhoj-Vadaj	3.2	0.00137	9040	13
3	Vadaj-Chandod	2.7	0.00116	7400	9

24.06.2020
 मुख्य अभियंता/Chief Engineer
 केन्द्रीय विद्युत प्राधिकरण/C.E.A.
 विद्युत मंत्रालय/Ministry of Power
 भारत सरकार/Govt. of India
 नई दिल्ली/New Delhi

Gen-747

Telex 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)/1075/1

31 Jul 2018

Gujarat Energy Transmission Corporation Ltd.
Chief Engineer (Project)
Sardar Patel Vidyut Bhavan,
Race Course, Vadodara-390 007

**SUBMISSION OF PROPOSAL FOR HV/EHV TRANSMISSION LINES OF GETCC
FOR PTCC APPROVAL FOR 220KV LILO TO KAWANT S/S FROM 220KV
VYANKATPURA - ACHHALIYA LINE No. 1**

1. Reference your letter No. CE(Project)/ET/IT-3/3807 dt 31 Mar 2016 (copy att)
2. No Objection Certificate (NOC) is accorded based on inputs given and map sheet received under your letter mentioned above.
3. Documents alongwith map sheets (in original) are returned herewith for your further necessary action.

[Signature]
A Khandekar
Mo.
CSO 1 (Comm.)
for SO-in-C

Copy to -

Director (PTCC)
Central Electricity Authority
Power Communication Development Division
NRCD Complex, 18 A, Shaheed Jeeb Singh S Marg
Karwaria Sara, New Delhi - 110016

For information

RECEIVED
PTCC
31 JUL 2018