



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

Case No.: GUJ-770	dt. 07.04.2021
PTCC proposal of LILO of one circuit of 400 kV D/C existing Zanor to Navsari (PGCIL) transmission line at Vav S/S.	

Reference:		
S. No.	Reference No.	Dated
(i)	GETCO:CE(Project)/EE(Tr.-3)/2864	14.09.2018
(ii)	BSNL: IC/MBI/PTCC/GUJ-2729	29.05.2019
(iii)	Western Railway: SG. 158/28/12 (1039)	17.12.2020
(iv)	Defense: B/46937/ Sigs 7(b)/1292	07.02.2019

The PTCC proposal submitted vide reference (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 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 Annexure-I and Annexure-II respectively. The screening factors, as applicable, have been considered. Vide reference (iv) above, The Defence Authority have issued No Objection Certificate (NOC) (Annexure-III).

Taking above into consideration, necessary action regarding issuance of PTCC route approval may be taken.

Encl.: As above.

Digitally signed by RAGHUPENDRA PRATAP SINGH
 Date: 2021.04.07 17:08:28 +05'30'

Director

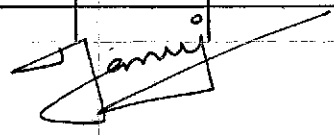
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To,

1.	Divisional Engineer (PTCC), Western Zone	BSNL; Inspection Circle, 3 rd Floor, D-Wing, BSNL Admin Building, Juhu Tara Road, Santacruz (West), Mumbai-400054.	Annexure-I & Annexure-III only
2.	Dy. CSTE/Co/CCG.	Western Railway; O/o CSTE, S&T Dept., 5 th floor, Station Building, Churchgate, Mumbai-400020.	Annexure-II only
3.	I/C Chief Engineer (Project)	GETCO; Sardar Patel Vidyut Bhavan, Race Course, Vadodara-390007.	Copy for information

(Annexure-I)

CEA Office Case No.-----		Map scale- 1 Cms = 500 Meters			
DET (PTCC) Office Case No. 2729		Route Length- 9.251 KMs- 2 X 27.151 km			
Railway Office Case No.		Soil Resistivity- 1240.0 Ohm/cm ² 1500 ohm			
Name of Power Line : 400 KV LILO to Vav GIS from 400 KV Zanor S/S - Navsari S/S Line.					
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 KAMREJ EXCHANGE					
1A	Kamrej Exch.- Yadgar chokdi- 400*16+200*4 P	IV			
2A	Yadgar chokdi- Kamrejam-200*3+100*4+50*6 P				
3A	Kamrejam-Bhairav- 100*1+50*1 P				
4A	Kamrejam-Derod- 100*4+50*3 P				
5A	Kamrej Exch.- Nansad- 200*1+100*1 P				
6A	Kamrej Exch.- Navagam - 800*1+400*2+100*1 P				
7A	Navagam - Wavgam- 200*2 P				
8A	Navagam - Wavgam- 200*1 +100*2 P				
9A	Kamrej Exch.- Kholwad - 200*3+100*1+50*4 P				
10A	Kholwad - Bhadagam- 50*3 P				
11A	Kamrej Exch.-Pasodra- 400*1+200*1+100*4 P				
2 KATHOR EXCHANGE					
1B	Kathor Exch.- Cabinet - 800 P	less than			430 V
2B	Kathor Exch.- Kumbharfalia - 200*1+100*1 P				
3B	Kathor Exch.- Amboli X Rd.-200*2 +100*1 P				
4B	Amboli X Rd.- Amboli village- 50*1 P				
5B	Kathor Exch.- Khatkiwad - 100*1 P				
6B	Kathor Exch.- Navafaliya - 100*2 P				
3 SEVNI EXCHANGE					
1C	Sevni Exch. - Asta X Rd-200*2+100*2 P				
2C	Asta X Rd- Asta Gam-200*1+100*1 P				
3C	Asta Gam- Segva Gam- 50*1 P				
4C	Asta Gam- Dharuntha-Jat Bharthana- 50*1 P				
5C	Asta Gam- Orna- 100*1 P				
6C	Asta Gam- Local 100*2 P				
7C	Asta Gam- Local 100*1 P				
8C	Sevni Exch - Delad --50*2 P				
9C	Sevni Exch - Khanpur --50*1 P				
4 VIHAN EXCHANGE					
1D	Vihan Exch. - Pillar- 200*3+100*1 P				
2D	Pillar - Dungar - 100*2 P				
3D	Dungar- Mowachi- 50*1 P				
4D	Pillar - Nagod- Rundhwada- 100*1+50*1 P				
5D	Vihan Exch. - Shyampara 200*3 P				
6D	Shyampara - Timba- Galteshwar - 20 P				


 तनुज/TANUJ
 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-66

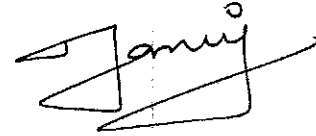
ANNEXURE - II

Case No.: GUJ-770 Name of the Power line: LILO of 400 kV D/C existing Zanor to Navsari (PGCIL) transmission line at Vav S/S.		Map Scale : 1cm=500mts Total Length : 2 X 27.151 km S.R. Value : 1,500 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 (1039) DATED: 17-12-2020

Affected Blocks & Telecom Circuits Details

1	Udhna to Chalthan	Outside IV consideration zone	00
2	Chalthan to Gangadhara	Outside IV consideration zone	00
3	Gangadhara to Bordi	Outside IV consideration zone	00
4	Bordi to Timbarva	Outside IV consideration zone	00



तनुज/TANUJ
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-66

Tele : 23019746

(Annexure-III)
GUT-770

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

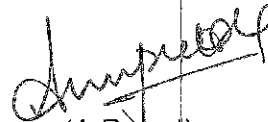
B/46937/Sigs 7(b)/1292/

07 Feb 2019

W/C Chief Engineer (Project)
Gujarat Energy Transmission Corporation Ltd
Sardar Patel Vidyut Bhawan
Race Course, Vadodara - 390 007

**SUBMISSION OF PROPOSAL FOR HV/EHV TRANSMISSION LINE OF GETCO FOR PTCC
APPROVAL OF 400KV LILO TO VAV GIS FROM EXISTING 400KV ZANOR-NAVSARI LINE**

1. Ref your letter No CE (Project)/EE (Tr.-3)/2864 dt 14 Sep 2018 (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 Jeet Singh Marg
Katwaria Sarai, New Delhi - 110016

for information.

D.Z