



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-765/809-810

Date: 25.12.2020

Subject: PTCC proposal for LILO of 400 kV D/C Ukai to Kosamba transmission line at Vav GIS -regd.

- Ref.:** (i) GETCO Ref. No. CE(Project)/EE(Tr-3.)/333 dated 12.07.2018
(ii) BSNL Ref. No. IC/MBI/PTCC/GJ-2724 dated 29.05.2019
(iii) Western Railway Ref. No. SG.158/28/12/989 received via email dated 11.12.2020
(iv) Defense Ref. No. B/46937/Sigs 7(b)/1210 dated 06.09.2018

The PTCC proposal submitted vide ref. (i) has been examined. The LF induction on telecom cables of BSNL with respect to details furnished vide above references (ii) has been computed. The Soil Resistivity (SR) value has been taken as 2,000 Ohm-cm. The voltages likely to be induced on paralleling telecom cables of BSNL under Single Line to Ground fault condition are enclosed at Annex-I. The screening factors, as applicable, have been considered. Western Railway vide ref. (iii) has intimated that no railway lines are present within 8 km area of the proposed power line. Hence, IV calculation for Western Railway is not required. Vide ref. (iv) above, Defence Authority have issued No Objection Certificate (NOC). (a copy enclosed as Annex-II).

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

Encl.: As above.

उपेन्द्र कुमार

(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.

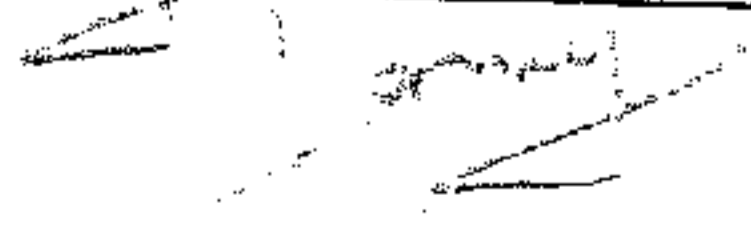
Copy to:-

Chief Engineer (Project), GETCO, Sardar Patel Vidyut Bhavan, Race Course, Vadodra-390007.

(Annex-I)

CEA Office Case No. --- CEA-765	Map scale- 1 Cms = 500 Meters
DET (C) Office Case No. 2724	Route Length- 30.564 KMs
Railway Office Case No.	Soil Resistivity- 4620.0 Ohm/cm³ 2,000 Ohm
Name of Power Line : 400 KV LILO to Vav GIS from 400 KV Ukai S/S - Kosamba 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 KAMREJ EXCHANGE					
1A	Kamrej Exch.- Yadgar chokdi- 400*16+200*4 P	}	IV less than	430V	
2A	Yadgar chokdi- Kamreigam-200*3+100*4+50*6 P				
3A	Kamreigam-Bhairav- 100*1+50*1 P				
4A	Kamreigam-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	}	Outside IV	consideration	
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				
1 BODHAN EXCHANGE					
1C	Bodhan Exch. - Local-- 100*1 P	}	IV less		
2C	Bodhan Exch. - Local-- 100*1 P				
3C	Bodhan Exch. - Local-- 50*2 P				
2 ARETH EXCHANGE					
1D	Areth Exch. - Local- 400*1 P	}	IV less		
2D	Areth Exch. - Local- 200*2 P				
3D	Areth Exch. - Local- 100*3 P				
4D	Areth Exch. - Local- 100*2 P				
3 SEVNI EXCHANGE					
1E	Sevni Exch. - Asta X Rd-200*2+100*2 P	}	than	430V	
2E	Asta X Rd- Asta Gam-200*1+100*1 P				
3E	Asta Gam- Segva Gam- 50*1 P				
4E	Asta Gam- Dharuntha-Jat Bharthana- 50*1 P				
5E	Asta Gam- Orna- 100*1 P				
6E	Asta Gam- Local 100*2 P				
7E	Asta Gam- Local 100*1 P				
8E	Sevni Exch - Delad --50*2 P				
9E	Sevni Exch - Khanpur --50*1 P				


 Director
 Railway Board
 New Delhi-110001

Railway Office Case No.		Soil Resistivity- 1620.0 Ohm/CM ³ 20,000 Ohm			
Name of Power Line : 400 KV LILO to Vav GIS from 400 KV Ukai S/S -Kosamba 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
4	VIHAN EXCHANGE				
1F	Vihan Exch. - Pillar- 200*3+100*1 P	} IV	less than	450 V	
2F	Pillar - Dungar - 100*2 P				
3F	Dungar- Mowachi- 50*1 P				
4F	Pillar - Nagod- Rundhwada- 100*1+50*1 P				
5F	Vihan Exch. - Shyampara 200*3 P				
6F	Shyampara - Timba- Galteshwar - 20 P				

Jamun

११/११/२०११
 ११/११/२०११
 ११/११/२०११
 ११/११/२०११
 ११/११/२०११
 ११/११/२०११

Tele : 23019746

(Annex-II)

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

B/46937/Sigs 7(b)/1210/


06 Sep 2018

Chief Engineer (Projects)
Gujrat Energy Transmission Corporation Ltd
Sardar Patel Vidyut Bhavan
Race Course
Vadodara-390 007

[G01 - 765]

**SUBMISSION OF PROPOSAL FOR HV/EHV TRANSMISSION LINES OF GETCO FOR
PTCC APPROVAL OF 400 KV LILO TO VAV GIS FROM 400 KV UKAI-KOSAMBA
LINE NO.1**

1. Ref your letter No CE (Project)/EE (Tr.-3)/333 dt 12 Jul 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:-

Director(PTCC)
Central Electricity Authority
Power Communication Development Division
NRPC Complex, 18-A, Shaheed Jeet Singh S Marg
Katwaria Sarai, New Delhi - 110016

- For information.