



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

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No.: CEA/PCD/ PTCC/GUJ-737/261-263

Date: 23.06.2020

Subject: - PTCC proposal for 400 kV LILO at Dehgam from 400 kV S/C Wanakbori- Soja Transmission line -Reg.

**References: -**

- (i) GETCO Ref. No. CE (Project)/EE (Tr.-3.)/921
- (ii) BSNL Ref. No. IC/MBI/PTCC/GUJ-2488
- (iii) Western Railway Ref. No. SG.158/28/12 (908)
- (iv) Defense letter Ref. No. B/46937/Sigs 7(b)/717

Dated: 15.09.2017

Dated: 25.03.2019


Dated: 29.05.2018

Dated: 02.02.2018

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 3,500 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.

  
23.06.2020

(Upendra Kumar)  
Chief Engineer

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

**Copy to:**

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

OK issued 24/6/2020

Annex-I

CEA Office Case No. <u>757</u>		Map scale- 1 Cms = 500 Meters		
DET (PTCC) Office Case No. 2488		Route Length- 6.00		KMS
Railway Office Case No.		Soil Resistivity- <u>2,500</u> Ohm/CM		
Name of Power Line: 400 KV LILO at Dehgam from 400 KV Wanakbori S/S to Soja 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
<b>1 DEHGAM EXCHANGE</b>				
1A	Dehgam exch.- Local-400*2 P	}	-	-
2A	Dehgam exch.- Local-400*2 P			
3A	Dehgam exch.- Local-400*2 P			
4A	Dehgam exch.- Local-400*2 P			
<b>2 JUNA LIHORA EXCHANGE</b>				
1B	Juna Lihora Exch.- Local- 200*1 P	}	-	-
2B	Juna Lihora Exch.- Local- 100*1 P			
3B	Juna Lihora Exch.- Local- 100*1 P			
4B	Juna Lihora Exch.- Local- 100*1 P			
<b>3 JALUNDRA MOTA EXCHANGE</b>				
1C	Jalundra Mota Exch.- Local- 200*1 P	}	-	-
2C	Jalundra Mota Exch.- Local- 200*1 P			
3C	Jalundra Mota Exch.- Local- 100*1 P			
<b>4 GALUDAN EXCHANGE</b>				
1D	Galudan Exch.- Local- 400*1 P	}	-	-
2D	Galudan Exch.- Wadodra- 400*1+ 50 P			
3D	Galudan Exch.- Sanorda - 400*1+100*1 P			

-V less than 430V →  
 = out of ID Calculation Consideration Zone.  
 out of ID Calculation Consideration Zone.  
 out of ID Calculation Consideration Zone.

LK  
 23/05/20  
 मुख्य अभियंता/Chief Engineer  
 कर्नाय विद्युत प्राधिकरण/C.E.A.  
 विद्युत मंत्रालय/Ministry of Power  
 भारत सरकार/Govt. of India  
 नई दिल्ली/New Delhi

## ANNEXURE - II

Case No.: GUJ-737  
 Name of the Power line: 400 kV LILO at Dehgam from 400  
 kV S/C Wanakbori- Soja Transmission line

Map Scale : 1cm=500mts  
 Total Length : 6.00 Km.  
 S.R. Value : 3,500 Ohms-cm

S.No.	Telecom. Details	Length of Parallelism in Km.	Mutual Coupling in Ohms.	Effective Fault current in Amps.	I.V in Volts.
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## WESTERN RAILWAY

Ref. No: SG. 158 / 28 / 12 (908)

DATED: 29.05.2018

## Affected Blocks &amp; Telcom Circuits Details

Affected Blocks & Telcom Circuits Details					
1	Naroda-Dabhoda	Out of IV Calculation Consideration Zone.			0
2	Dabhoda-Nandol Dahegam				0
3	Nandol Dahegam-Talod				2.5

912  
 23/06/20

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

Annex - 1

GUJ-737

Tele : 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)/717/

Feb 2018

Chief Engineer (Project),  
Gujarat Energy Transmission Corporation Ltd  
Sardar Patel Vidyut Bhawan  
Race Course, Vadodara - 390007

**PTCC PROPOSAL FOR HV/EHV TRANSMISSION LINE OF GETCO  
FOR 400KV LILO AT DEHGAM FROM 400KV WANAKBORI - SOJA  
LINE**

1. Reference your letter No CE(Project)/EE(Tr-3)/1921/ dt 15 Sep 2017.
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.

(Nainee Sharma)  
Lt.Col  
GSO 1 (Comn)  
for SO-in-C.

**Copy to :-**

The Director (PTCC), CEA  
NREB Complex,  
18-A, Shaheed Jeet Singh Marg  
Katwaria Sarai, New Delhi - 110016.

- For information.