



सत्यमेव जयते

भारत सरकार

Government of India

विद्युत मंत्रालय

Ministry of Power

केन्द्रीय विद्युत प्राधिकरण

Central Electricity Authority

विद्युतसंचारविकासप्रभाग

Power Communication Development Division

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No.: CEA/PCD/PTCC/GUJ-735/807-808

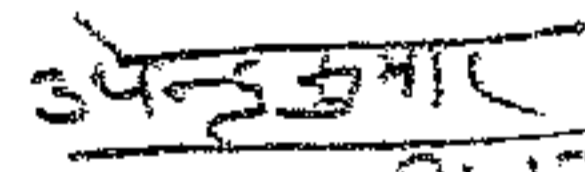
Date: 21.12.2020

**Subject:** PTCC proposal for LILO of 220 kV D/C Akrimota TPS to Nakhatrana transmission line No. 2 at proposed 400 kV Bhachunda S/S -regd.

- Ref.:** (i) GETCO Ref. No. CE(Project)/EE(Tr-3.)/1916 dated 15.09.2017  
(ii) BSNL Ref. No. IC/MBI/PTCC/GJ-2471 dated 01.12.2018  
(iii) Western Railway Ref. No. SG.158/28/12/830 received via email dated 11.12.2020  
(iv) Defense Ref. No. B/46937/Sigs 7(b)/719 dated 02.02.2018

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 35,000 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.

  
21.12.20  
(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:- Chief Engineer (Project), GETCO, Sardar Patel Vidyut Bhavan, Race Course, Vadodra-390007.

CEA Office Case No. --- <u>CEA-713</u>		Map scale- 1 Cms = 500 Meters			
DET (PTCC) Office Case No. <u>2471</u>		Route Length- <u>25.855</u> KMs			
Railway Office Case No.		Soil Resistivity- <del>33919</del> Ohm/CM <sup>2</sup> <u>25,000 Ohm</u>			
Name of Power Line: 220 KV LIL of One circuit of 220 KV D/C Akrimota TPS - Nakhatrana line at <u>Rohatki S/C</u>					
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
<b>1</b>	<b>BITTA EXCHANGE</b>				
3A	Bitta Ex.- Local -100x1 P	} IV	less than	430 V	
3A	Bitta Ex.- Local - 50x3 P				
3A	Bitta Ex.- Local - 20x2 P				
4A	Bitta Ex.- Local- 10x1 P				
<b>2</b>	<b>TERA EXCHANGE</b>				
1B	Tera Exch.-local- 100*1+50*1 P	} IV	less than	430 V	
2B	Tera Exch.-local- 100*1 P				
3B	Tera Exch.-local- 50*2 P				
<b>2</b>	<b>KOTDA JADODAR EXCHANGE</b>				
1C	Kotda(J) Ex- Local - 800*1+200*2 P	Out of parallelism			

*Tanuj*

सुनील / TANUJ  
 सहायक निरीक्षक-II (Asstt. Director-II)  
 केन्द्रीय विद्युत प्राधिकरण / C.E.A.  
 विद्युत विभाग, Ministry of Power  
 भारत सरकार / Govt. of India  
 नई दिल्ली / New Delhi-56

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

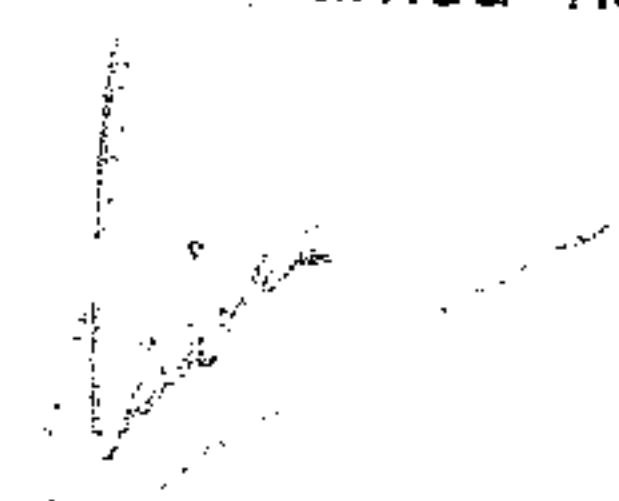
B/46937/Sigs 7(b)/719/

07 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 220 KV LILO AT 400KV BHACHUNDA S/S FRP. 220KV  
AKRIMOTA TPS- NAKHATRANA LINE NO.2**

1. Reference your letter No CE(Project)/EE(Tr-3)/1916/ 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.