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आजादी का
अमृत महोत्सव

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

CEA Case No. : GUJ-732/59-61
PTCC proposal of 400 kV D/C Soja – Zerda line; 133.959 km

Reference:		
S. No.	Reference No.	Dated
(i)	GETCO: CE (Project)/EE(Tr-3.)/2702	04.10.2017
(ii)	BSNL: IC/MBI/PTCC/GUJ-2466	07.08.2019
(iii)	Western Railway: SG. 158/28/12 (801)	04.06.2019
(iv)	Defense: B/46937/Sigs 7(b)/731 forwarded by GETCO via email dated 28.01.2022	02.02.2018

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). (a copy enclosed as Annex-III).

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

Encl.: As above.

राधेवीन्दु प्रताप सिंह
28.1.22
Director

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.	
2.	GM (S&T).	Western Railway, Office of CSTE, S&T Dept. 5 th Floor, Station Building, Churchgate, Mumbai - 400020	Annexure-II only
3.	Chief Engineer (Project)	GETCO, Sardar Patel Vidyut Bhavan, Race Course, Vadodara - 390007	Copy for information

ATC



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Power Communication Development Division

के.वि.प्रा. केस सं. : GUJ-732 / 59-61
पी.टी.सी.सी. प्रस्ताव 400 kV D/C Soja - Zerda line; 133.959 km

सन्दर्भ:	क्रमांक	सन्दर्भ सं.	दिनांक
(i)		GETCO: CE (Project)/EE(Tr-3.)/2702	04.10.2017
(ii)		BSNL: IC/MBI/PTCC/GUJ-2466	07.08.2019
(iii)		Western Railway: SG. 158/28/12 (801)	04.06.2019
(iv)		Defense: B/46937/Sigs 7(b)/731 forwarded by GETCO via email dated 28.01.2022	02.02.2018

संदर्भ (i) द्वारा प्रस्तुत पीटीसीसी प्रस्ताव की जांच की गई है। बीएसएनएल के टेलिकॉम केबलों एवं पश्चिम रेलवे के ब्लॉक और टेलीकॉम सर्किट पर निम्न आवृत्ति प्रेरण गणना क्रमशः उपरोक्त संदर्भ (ii) और (iii) में दिए गए विवरणों के संबंध में की गई है। सिंगल लाइन टू ग्राउंड फाल्ट अवस्था में समानांतर बीएसएनएल के टेलिकॉम केबलों एवं पश्चिम रेलवे के ब्लॉक और टेलीकॉम सर्किट पर प्रेरित वोल्टेज क्रमशः अनुलग्नक -I एवं अनुलग्नक -II में संलग्न है। स्क्रीनिंग कारक का मान यथानुरूप लिया गया है। रक्षा प्राधिकरण ने उपरोक्त संदर्भ (iv) के द्वारा अनापत्ति प्रमाण पत्र जारी किया है। (अनुलग्नक - III में संलग्न)।

उपरोक्त को ध्यान में रखते हुए, पीटीसीसी मार्ग अनुमोदन जारी करने के संबंध में आवश्यक कार्रवाई की जाए।

संलग्न: ऊपरोक्त अनुसार

राजेश कुमार उताप मिश्रा
28.1.22
निदेशक

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.	
2.	GM (S&T).	Western Railway, Office of CSTE, S&T Dept. 5 th Floor, Station Building, Churchgate, Mumbai - 400020	Annexure-II only
3.	Chief Engineer (Project)	GETCO, Sardar Patel Vidyut Bhavan, Race Course, Vadodara - 390007	Copy for information

Annex - I

CEA Office Case No. --- AVJ-732	Map scale- 1 Cms = 500 Meters
DET (PTCC) Office Case No. 2466	Route Length- 133.959 KMS
Railway Office Case No.	Soil Resistivity- 550026.7 Ohm/cm 10000 Ω -cm
Name of Power Line: 400 KV D/C Soza S/S - Zerda 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 BALWA EXCHANGE									
1A	Balwa Exch - Local - 100*3 P	}							
2A	Balwa Exch -Local - 200*1 P								
3A	Balwa Exch - Chandasan - 100*2 P								
4A	Balwa Exch - Limbroda - 200*1+50*2 P								
2 SARDHAV EXCHANGE									
1B	Sardhav Exch.- local-200*3 +100*3 P.								
2B	Sardhav Exch.- local-200*3 +100*4 P								
3 NARDIPUR EXCHANGE									
1C	Nardipur Exch- Local- 800*1 P								
2C	Nardipur Exch- Soja- 200*2 P								
3C	Nardipur Exch- Paliyad- 400*1+100*2 P								
4C	Nardipur Exch-Thol-Bhavpura- 100*1+20*2 P								
5C	Nardipur Exch- Mokhasan- 100*1+50*1 P								
6C	Nardipur Exch-Golthara- 200*1 P								
4 MANSAX EXCHANGE									
1D	Mansa Exch.- Local- 800*3 P								
2D	Mansa Exch.- Ridraj Rd-200*1+100*2 P								
3D	Mansa Exch.- Bapupura- 200*1+100*1 P.								
4D	Mansa Exch.- GIDC - 100*2 P								
5D	Mansa Exch.- Fatepur-salaiya - 100*1+50*1 P								
6D	Mansa Exch.- Gulabpur-Itodra- 100*150*1 P								
7D	Mansa Exch.-Rampura -Indrapura 100*1 +50*2+50*2 P								
8D	Mansa Exch.- Dholakuva Pillar- 100*2 P								
9D	Dholakuva Pillar-Rajpura - 100*1 P								
10D	Dholakuva Pillar- Dholakuva - 100*1 P								
11D	Mansa Exch.- Manipura - 100*1 +50*2 P								
5 BORU EXCHANGE									
1E	Boru Exch.- Local- 100*1 P								
2E	Boru Exch.- Local- 50*4 P								
3E	Boru Exch.- Remnagar- 100*4 P								
4E	Boru Exch.- Khata Amba- 100*1+50*1 P								
5E	Boru Exch.- Local- 100*1+50*1 P								
6 WADASANA EXCHANGE									
1F	Wadasana Exch.- Local - 200*1 P								
2F	Wadasana Exch.- Local - 100*1 P								
3F	Wadasana Exch.- Sankarpura - 100*1 P								
4F	Wadasana Exch.- Local - 100*1 P								

IV less than 430V

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CEA Office Case No.-----		Map scale- 1 Cms = 500 Meters							
DET (PTCC) Office Case No. 2466		Route Length- 133.959		KMS					
Railway Office Case No.		Soil Resistivity- 5500207		Ohm/CM					
Name of Power Line: 400 KV D/C Soza S/S - Zerda 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				
7 LANGHNAJ EXCHANG									
1G	Langhnaj Exch - Local - 400*1 P								
2G	Langhnaj Exch - Local - 200*1 P								
3G	Langhnaj Exch - Local - 100*1 P								
4G	Langhnaj Exch - Soldi - 100*1+50*1 P								
8 GOZARIA EXCHANGE									
1H	Gozaria Exch.- Local- 800*2 P								
2H	Gozaria Exch.- Local- 800*2 +400*1 P								
3H	Gozaria Exch.- Local- 200*1 P								
4H	Gozaria Exch.- Local- 100*1 P								
5H	Gozaria Exch.- Parsa- 100*1 P								
6H	Gozaria Exch.- Kharva- 100*1 P	IV less than 430 V							
9 AKHAJ XCHANG									
1I	Akhaj Exch.- Local-200*1 P								
2I	Akhaj Exch.- Local-100*1 P								
3I	Akhaj Exch.- Local-50*1 P								
4I	Akhaj Exch.- Balwantpura - 50*1 P								
10 MEU EXCHANG									
1J	Meu Exch.- Local- 100*1 P								
2J	Meu Exch.- Anandpar- 50*1 P								
3J	Meu Exch.- Local- 200*1 P								
4J	Meu Exch.- Dhandhusar- 50*1 P								
11 VASAI DABHALA EXCHANGE									
1K	Vasai Dabhala Exch.- Local - 200*1 P								
2K	Vasai Dabhala Exch.- Local - 100*1 P								
3K	Vasai Dabhala Exch.- Local - 50*2 P								
4K	Vasai Dabhala Exch.-Dabhala - 100*1 P								
12 UDALPUR EXCHANGE									
1L	Udalpur Exch.- Local- 200*1 P								
2L	Udalpur Exch.- Local- 100*1 P								
3L	Udalpur Exch.- Basana Rd- 50*1 P								
4L	Udalpur Exch.- Bhadu- 50*1 P								
5L	Udalpur Exch.- Local- 50*1 P								
6L	Udalpur Exch.- Bamasana- 100*1 P								

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प्रतीक श्रीवास्तव/PRATEEK SRIVASTAVA
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

CEA Office Case No.-----	Map scale- 1 Cms = 500 Meters
DET (PTCC) Office Case No. 2466	Route Length- 133.959 KMS
Railway Office Case No.	Soil Resistivity- 55000 Ohm/CM
Name of Power Line: 400 KV D/C Soza S/S - Zerda 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
13 KHERVA EXCHANGE					
1M	Kherava Exch.- Local - 400*1+100*1 P				
2M	Kherava Exch.- Sangapur - 100*1+50*1 P				
3M	Kherava Exch.- Local - 200*1 P				
4M	Kherava Exch.- Malsan - 50*1 P				
5M	Kherava Exch.- Dalrasan - 100*1 P				
6M	Kherava Exch.- Local -100*1+20*1 P				
7M	Kherava Exch.-Kudasan -Rampur100*1+50*1 P				
14 BASANA EXCHANG					
1N	Basana Exch - Local - 400*1 P		2V less than		430 V
2N	Basana Exch - Local - 200*1 P				
3N	Basana Exch - Becharpur - 200*1 P				
4N	Basana Exch - Chitrodpur - 200*1 P				
15 KAMANA EXCHANGE					
10	Kamana Exch.- Local- 400*1 P				
20	Kamana Exch.- Local- 200*1 P				
30	Kamana Exch.- Local- 200*1 P				
40	Kamana Exch.- Sanala- 100*1 P				
50	Kamana Exch.- Raopura- 50*1 P				
60	Kamana Exch.- Kansakui- 50*1 P				
70	Kamana Exch.- Margrada- 50*1 P				
80	Kamana Exch.- Anganwada- 50*1 P				
16 PILUDRA EXCHANG					
1P	Piludra Exch. - Local- 200*1 P				
2P	Piludra Exch.- Local- 100*1 P				
3P	Piludra Exch.- Basana Rd- 50*1 P				
4P	Piludra Exch.- Bhada - 50*1 P				
5P	Piludra Exch.- Local - 50*1 P				
6P	Piludra Exch.- Bamasana - 100*1 P				

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 विद्युत मंत्रालय/Ministry of Power
 भारत सरकार/Minist. of India
 नई दिल्ली/New Delhi

CEA Office Case No.-----		Map scale- 1 Cms = 500 Meters			
DET (PTCC) Office Case No. 2466		Route Length- 133.959 KMS			
Railway Office Case No.		Soil Resistivity- 550/267 Ohm/CM			
Name of Power Line: 400 KV D/C Soza S/S - Zerda 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
17	BHANDU EXCHANGE	}	}	}	}
1Q	Bhandu Exch.- Local- 400*1 P				
2Q	Bhandu Exch.- Local- 200*1 P				
3Q	Bhandu Exch.- Dwada- 50*1 P				
4Q	Bhandu Exch.- Bakarwada- 100*1 P				
5Q	Bhandu Exch.- Laxmipura- 50*1 P				
6Q	Bhandu Exch.- Local- 200*1 P				
7Q	Bhandu Exch.- Ketalwada- 100*1 P				
18	VALAM EXCHANGE				
1R	Valam Exch.- Local - 400*1 P				
2R	Valam Exch.-Khandasan - 100*1 P				
3R	Valam Exch.-Tarabh - 50*2 P				
4R	Valam Exch.-Local - 200*1 P				
5R	Valam Exch.-Vadu - 100*1 P				
6R	Valam Exch.-Padgam - 100*1 P				
19	LAXMIPURA EXCHANG	}	}	}	}
1S	Basana Exch - Local - 400*1 P				
2S	Basana Exch - Local - 200*1 P				
3S	Basana Exch - Becharpur - 200*1 P				
4S	Basana Exch - Chitrodpur - 200*1 P				
20	HAIJIPUR EXCHANGE				
1T	Hajipur Exch.- Local- 200*1 P				
2T	Hajipur Exch.-Karoli- 100*3 P				
3T	Hajipur Exch.- Local- 400*1 P				
4T	Hajipur Exch.- Bhavanipur- 20*1 P				
21	DASAJ EXCHANGE				
1U	Dasaj Exch.- Local- 400*1 P				
2U	Dasaj Exch.- Local- 200*2 P				
3U	Dasaj Exch.- Bhunav- 200*1 P				
4U	Dasaj Exch.- Maherwada- 100*1+50*1 P				
5U	Dasaj Exch.- Liportu- 100*1 P				
6U	Dasaj Exch.- Ranujapur- 100*1+50*1 P				
7U	Dasaj Exch.- Local- 100*2 P				
8U	Dasaj Exch.- Local- 100*1 P				
9U	Dasaj Exch.- Bhankar- 50*1 P				

IV less than 430V

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

CEA Office Case No.-----		Map scale- 1 Cms = 500 Meters			
DET (PTCC) Office Case No. 2466		Route Length- 133.959 KMS			
Railway Office Case No.		Soil Resistivity- 550000.7 Ohm/CM			
Name of Power Line: 400 KV D/C Soza S/S - Zerda 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
22 UNJHA EXCHANG					
1V	Unjha Exch. - Local- 200*2 P				
2V	Unjha Exch. - Aithor- 100*2+50*1 P				
3V	Unjha Exch. - Local- 400*1+200*1 P				
4V	Unjha Exch. - Local- 400*2+200*1 P				
5V	Unjha Exch. - Sihi- 100*1 P				
6V	Unjha Exch.-Muktapur- 200*1 P				
7V	Unjha Exch.(New) -Unjha(Old)- 400*3 P				
8V	Unjha Exch.(Old) - Local- 100*2 P				
9V	Unjha Exch.(Old) - Local- 400*1 P				
10V	Unjha Exch.(Old) - Local- 100*1 P				
11V	Unjha Exch.(Old) - Local- 800*1 P				
12V	Unjha Exch.(Old) - Local- 200*3 P				
23 TUNDAV EXCHANGE					
1W	Tundav Exch.- Local- 200*2 P				
2W	Tundav Exch.- Local- 200*1 P				
4W	Tundav Exch.-Visal- 100*1+50*1 P				
4W	Tundav Exch.-Chandlaj- 100*1+50*1 P				
5W	Tundav Exch.-Amudh- 100*1+50*1 P				
24 DABHI EXCHANGE					
1X	Dabhi Exch.- Local- 50*3 P				
2X	Dabhi Exch.- Local- 400*1 P				
3X	Dabhi Exch.- Dabhi Village- 20*1 P				
4X	Dabhi Exch.- Sunav- 100*3 P				
25 KAMLI EXCHAMGE					
1Y	Kamli Exch.- Local- 400*1 P				
2Y	Kamli Exch.- Local- 200*1 P				
3Y	Kamli Exch.- Local- 100*1 P				
4Y	Kamli Exch.- Gangapur- 50*3 P				
Signature & Seal Of Concerned DET & SDE					

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प्रतीक श्रीवास्तव / PRATEEK SRIVASTAVA
 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

CEA Office Case No.-----		Map scale- 1 Cms = 500 Meters			
DET (PTCC) Office Case No. 2466		Route Length- 133.959 KMS			
Railway Office Case No.		Soil Resistivity- 55000.7 Ohm/CM			
Name of Power Line: 400 KV D/C Soza S/S - Zerda 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
26	BRAHMANWADA EXCHANGE	}	}	IV less than 430V	
1Z	Brahmanwada Exch.- Local - 50*2 P				
2Z	Brahmanwada Exch.-local - 100*1 P				
3Z	Brahmanwada Exch.-Warwada - 100*1+50*1 P				
4Z	Brahmanwada Exch.- Kanesara - 50*1 P				
27	SIDDHAPUE EXCHANG				
1A1	Siddhapur Exch. - Local- 1200*3+800*1 P				
2A1	Siddhapur Exch. - Local- 1200*1+800*1 P				
3A1	Siddhapur Exch. - Local- 400*3+200*3 P				
4A1	Siddhapur Exch. - Local- 200*6 P				
5A1	Siddhapur Exch. - Local- 100*1 P				
6A1	Siddhapur Exch. - Local- 1200*1 P				
28	PUNASAN EXCHANGE				
1B1	Punasan Exch.- Local- 100*2 P				
2B1	Punasan Exch.- Local- 50*2+20*2+10*1 P				
3B1	Punasan Exch.- Local- 50*2 P				
4B1	Punasan Exch.- Chandasar- 50*2 P				
5B1	Punasan Exch.- Local- 50*2 P				
29	VARSILA EXCHANGE				
1C1	Varsila Exch.- Sevni- 200*1+100*1 P				
2C1	Varsila Exch.- Nandroti Jt - 100*1+50*2 P				
3C1	Varsila Exch.- Kalana Jt - 100*2 P				
4C1	Varsila Exch.- Local- 200*1+100*1 P				
30	KUNARWA EXCHANGE				
1D1	Kunarwa Exch.(O)- Kunarwa (N)-400+200+100+50 P				
2D1	Kunarwa Exch.(N)- Metrana Jt - 200*1 P				
3D1	Kunarwa Exch.(O)- Local - 50*6 P				
4D1	Kunarwa Exch.(O)- Local - 100*2 P				
5D1	Kunarwa Exch.(O)- Local - 50*4 P				
Signature & Seal Of Concerned DET & SDE					

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प्रतीक शंकराव/PRATEEK SRIVASTAVA
 सहायक निदेशक-II / Asst. Director-II
 वीज विभाग/Ministry of Power
 भारत सरकार / Govt. of India
 नई दिल्ली / New Delhi

CEA Office Case No.-----		Map scale- 1 Cms = 500 Meters			
DET (PTCC) Office Case No. 2466		Route Length- 133.959 KMS			
Railway Office Case No.		Soil Resistivity- 50000 Ohm/CM			
Name of Power Line: 400 KV D/C Soza S/S - Zerda 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
31 KAKOSI EXCHANGE					
1E1	Kakosi Exch.-(O)-Kakosi(N)-800+400+200+100 P				
2E1	Kakosi Exch.-(O)- Sensa- 50*2 P				
3E1	Kakosi Exch.-(O)- Khadiyasan-100*1+100*1 P				
4E1	Kakosi Exch.-(O)- Rasulpur-100*1 P				
5E1	Kakosi Exch.-(O)- Metrana Rd-100*1 P				
6E1	Kakosi Exch.-(O)- Methan -100*1+50*1 P				
7E1	Kakosi Exch.-(O)- Dindrol -100*1+50*1 P				
32 WAGHROL EXCHANGE					
1F1	Waghrol Exch.(O)-Waghrol(N)-400+200+100+50 P				
2F1	Waghrol Exch.(O)- 50*2 P				
3F1	Waghrol Exch.(O)- 50*3 P				
4F1	Waghrol Exch.(O)- 50*3 P				
5F1	Waghrol Exch.(O)- 50*3 P				
33 DALWADA EXCHANGE					
1G1	Dalwada Exch.- Local- 200*1 P				
2G1	Dalwada Exch.- Local- 100*1 P				
34 GHAD EXCHANGE					
1H1	Ghad Exch.- Local- 800*1 P				
2H1	Ghad Exch.- Local- 400*1 P				
3H1	Ghad Exch.- Khambhasan - 200*1+100*1+50*1 P				
4H1	Ghad Exch.- Salla - 100*1+50*1 P				
5H1	Ghad Exch.- Madangadh - 200*1+50*1 P				
35 TARAKWADA EXCHANGE					
1I1	Tarakwada Exch.- Local- 400*1 P				
2I1	Tarakwada Exch.- Sarpada - Gadadwala-50*1 P				
3I1	Tarakwada Exch.- Takariya - 100*1 P				
4I1	Tarakwada Exch.- Palosan - 200*1 P				
36 ASARDA EXCHANGE					
1J1	Asarda Exch.- Local- 400*1 P				
2J1	Asarda Exch.- Local- 200*1 P				
3J1	Asarda Exch.- Local- 100*1 P				
4J1	Asarda Exch.- Local- 50*1 P				
5J1	Asarda Exch.- Khardasan Rd- 50*1 P				
6J1	Asarda Exch.- Dharbada - 50*1 P				

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सहायक निदेशक-II / Asst. Director-II
केन्द्रीय विद्युत आयोग / C.E.A.
विद्युत मंत्रालय / Ministry of Power
भारत सरकार / Govt. of India
नई दिल्ली / New Delhi

CEA Office Case No.-----

Map scale- 1 Cms = 500 Meters

DET (PTCC) Office Case No. 2466

Route Length- 133.959 KMS

Railway Office Case No.

Soil Resistivity- ~~558026.7~~ Ohm/CM

Name of Power Line: 400 KV D/C Soza S/S - Zerda 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
37	CHANDISAR EXCHANGE				
1k1	Chandisar Exch.- Local- 800*1 P				
2k1	Chandisar Exch.- Kumbhalpar- 50*1 P				
3k1	Chandisar Exch.- Local - 400*1 P				
4k1	Chandisar Exch.- Koskal - 100*1 P				
5k1	Chandisar Exch.- Dangiya - 200*1+100*1 P				
6k1	Chandisar Exch.- Mandana-Dangiya - 50*1 P				
7k1	Chandisar Exch.- Mota - 100*1 P				
38	RASNA EXCHANGE				
1L1	Rasna Exch.- Local- 200*1 P				
2L1	Rasna Exch.- Local- 50*2 P				
3L1	Rasna Exch.- Local- 50*1 P				
39	DEESA EXCHANGE				
1M1	Deesa Exch.- Pillar H/W -400*2 P				
2M1	Pillar - Local- 200*2+100*1 P				
3M1	Pillar - Local- 100*1 P				
4M1	Pillar - Local- 100*1 P				
5M1	Deesa - Pillar - 200*1 P				
6M1	Pillar - Local - 50*1 P				
7M1	Pillar - Local - 100*1 P				
8M1	Deesa Exch.- Pillar - 800*1				
9M1	Pillar - Local - 200*1 +100*1 P				
10M1	Pillar - Local - 100*1 P				
11M1	Deesa Exch.- Local -50*1 P				
12M1	Deesa Exch.- Pillar - 800*1 P				
13M1	Pillar - Local - 200*1				
14M1	Pillar - Local - 200*1				
15M1	Deesa Exch.- Local - 200*1 ..				
40	DEESA EXCHANGE (RSU)				
1N1	Deesa Exch. (RSU)- Local - 200*1 P				
2n1	Deesa Exch. (RSU)- Local - 100*1 P				
3N1	Deesa Exch. (RSU)- Local - 50*1 P				
4N1	Deesa Exch. (RSU)- Samsherpur - 50*2 P				
5N1	Deesa Exch. (RSU)- Local - 200*1 P				
41	UGAMANAVAS EXCHANGE				
101	Ugamnavas Exch.- Local- 800*1 P				
201	Ugamnavas Exch.- Local- 100*2+50*1 P				
301	Ugamnavas Exch.- Local- 50*2 P				

IV less than
430 V

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सहायक निदेशक-II/Asstt. Director-II

CEA Office Case No.-----		Map scale- 1 Cms = 500 Meters			
DET (PTCC) Office Case No. 2466		Route Length- 133.959 KMS			
Railway Office Case No.		Soil Resistivity- 55526.7 Ohm/CM			
Name of Power Line: 400 KV D/C Soza S/S - Zerda 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
42 VASDA EXCHANGE					
1P1	Vasda Exch.- Local- 100*2 P				
2P1	Vasda Exch.- Local- 100*2 P				
4P1	Vasda Exch.- Local- 50*1 P				
43 JHERDA EXCHANGE					
15Q	Jherda Exch.- Local- 800*1 P				
2Q1	Jherda Exch.- Local- 200*1 P				
3Q1	Jherda Exch.- pillar - 100*1 P				
4Q1	Pillar - Titoda - 50*1 P				
5Q1	Pillar - Kachasana- Bhachalva - 100*1+50*1				
6Q1	Jherda Exch.- Local - 400*1 P				
7Q1	Jherda Exch.- Balvada - 200*1*50*1 P				
8Q1	Jherda Exch.- Kaksa - GETCO-100*1+50*1 P				
9Q1	Jherda Exch.- local - 20*1 P				
44 YAVARPURA EXCHANGE					
1R1	Yavarpura Exch.- Local- 100*2+50*2 P				
2R1	Yavarpura Exch.- Local- 100*2+50*1 P				
3R1	Yavarpura Exch.- Local- 50*2 P				
45 BHADATH EXCHANGE					
1S1	Bhadath Exch.- Local - 100*2 P				
2S1	Bhadath Exch.- Local - 100*2 P				
46 BHAKAR EXCHANGE					
1T1	Bhakar Exch.- Local- 100*1 P				

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 विद्युत मंत्रालय/Ministry of Power
 भारत सरकार/Govt. of India
 नई दिल्ली/New Delhi

Annex - III

Tele 23019748

No. 1087
12/2/18

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

B/48937/Sigs 7(b)/7311

07 Feb 2018

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

24/65

SUBMISSION OF PROPOSAL FOR HV/EHV TRANSMISSION LINE OF GETCO FOR PTCC APPROVAL OF 400 KV D/C SOJA - ZERDA

1. Reference your CE/(Project/EE(Tr-3)/2702, dt 04 Oct 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.

(Signature)
Lt Col
Sigs 7 (Comm)
DHQ PO

Copy to

The Divisional Engineer (Transmission) (PTCC)
Borivli, Western Region, Mumbai
Western Region, P.O. Borivli
Lt Wing, BSNE Admin Building
Chhatrapati Road, Borivli, Mumbai
Mumbai - 400054

ANNEXURE - II

CEA Case No.: GUJ-732

Name of the Power line: 400 kV D/C Soja - Zerda line

Map Scale : 1 cm=500 m
Total Length : 133.959 km
S.R. Value : 10,000 Ω-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 RAIWAY Ref. No: SG. 158/28/12 (801) Dated: 04.06.2019

Affected Blocks & Telecom Circuits Details

1	Palanpur - Chandisar	0.5	0.0001	12700	1
2	Chandisar - Disa	12.25	0.0027	12500	34
3	Disa - Lorwada				
4	Lorwada - Bhildi				
5	Bhildi - Jasali				
6	Jasali - Dhanakwada	Outside IV consideration zone			
7	Mahesana - Bhandu Motidau				
8	Bhandu Motidau - Unjha				
9	Unjha - Kamli	1.0	0.0001	10200	1
10	Kamli - Sidhapur	8.8	0.0013	9700	13
11	Sidhapur - Dharewada	4.4	0.0033	9600	32
12	Dharewada - Chhapi	4.9	0.0009	9400	8
13	Chhapi - Umardashi	1.2	0.0002	9000	2
14	Ambaliyasan - Vijapur	Outside IV consideration zone			
		4.1	0.0008	13000	10

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