



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

के.वि.प्रा. केस सं. : GUJ-797:
पी.टी.सी.सी. प्रस्ताव 765 kV D/C Lakadia to Vadodara transmission line under Lakadia Vadodara Transmission Project Limited: 329.2 km

सन्दर्भ:		
क्रमांक	सन्दर्भ सं.	दिनांक
(i)	Lakadia-Vadodara Transmission Project Ltd.:GEC-LVTPL-LV-STAT-PTCC-001	08.06.2020
(ii)	BSNL: IC/MBI/PTCC/WGJ220720202823	07.07.2021
(iii)	Western Railway: SG. 158/28/12(1135)	22.10.2020
(iv)	Defense: B/46937/ Sigs 7(b)/2096	22.12.2020

संदर्भ (i) द्वारा प्रस्तुत पीटीसीसी प्रस्ताव की जांच की गई है। बीएसएनएल के टेलीकॉम केबल और 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 दूरसंचार केबलों एवम 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: उपरोक्त अनुसार

Digitally signed by RAGHVENRA PRATAP SINGH
Date: 2022.01.13 12:18:32 IST

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.	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.	Manager, PMO	Lakadia-Vadodara Transmission Project Ltd., F-2, The Mira Corporate Suites, 1&2, Ishwar Nagar, Mathura Road, New Delhi-110065.	Copy for information

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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-797:
PTCC proposal of 765 kV D/C Lakadia to Vadodara transmission line under Lakadia Vadodara Transmission Project Limited: 329.2 km

Reference:		
S. No.	Reference No.	Dated
(i)	Lakadia-Vadodara Transmission Project Ltd.:GEC-LVTPL-LV-STAT-PTCC-001	08.06.2020
(ii)	BSNL: IC/MBI/PTCC/WGJ220720202823	07.07.2021
(iii)	Western Railway: SG. 158/28/12(1135)	22.10.2020
(iv)	Defense: B/46937/ Sigs 7(b)/2096	22.12.2020

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).

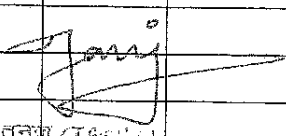
Taking above into consideration, necessary action regarding issuance of PTCC route approval may be taken.

Encl.: As above.

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.	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.	Manager, PMO	Lakadia-Vadodara Transmission Project Ltd., F-2, The Mira Corporate Suites, 1&2, Ishwar Nagar, Mathura Road, New Delhi-110065.	Copy for information

CEA office case No: G03-797		Map Scale: 1 Cm=500 Meters			
DET (PTCC) Office Case No: 2823		Route Length: 329-200 Kms			
Railway Office Case No:		Soil Resistivity (2,000 & 1500) Ohm-Cm			
Name of Power Line: 765 KV D/C Lakadia to Vadodara Transmission Line.					
Telecom Details from BSNL			Details from Power Company/Authority		
Sl No.	Name of the Telecom Cable/Line	Length of Parameter in Km	Mutual coupling in Ohms	Fault current in Amp	Induced Voltage in Volts
BHJ	1. Lakadia Exch				
	1A Lakadia Exch to Local 400px1, 100px1, 50px2				
	2A " to Local 200px1, 50px2, 20px1				
	3A " to Local 50px1, 20px1				
	4A " to Local 20px1				
BHJ	2. Chitrod Exch				
	1B Chitrod Exch to Local 50px1, 20px1				
	2B " to Local 20px1				
			 T. N. Jaiswal सहायक निदेशक-II/Asst Director II केन्द्रीय विद्युत प्राधिकरण/C.E.A. विद्युत मंत्रालय/Ministry of Power भारत सरकार/Govt. of India नई दिल्ली/New Delhi-05		

IV less than 430V

DET (PTCC) Office Case No: 2823

Route Length: 529.200 Kms

Railway Office Case No.

Soil Resistivity: Ohm-Cm

Name of Power Line: 765KV D/C Lakadia to Vadodara transmission Line under Lakadia-Vadodara Transmission Line

Telecom Details from BSNL

Details from Power Company/Authority

Sl No.	Name of the Telecom Cable/Line	Length of Parameter in Km	Mutual coupling in Ohms	Fault current in Amp	Induced Voltage in Volts
1	Maliya Exchange to Maliya village 400px1	} IV less than 430V			
2	Maliya Exchange to Mamaladar office 50px1				
3	Maliya Exchange to Rasangpur village 50px1				
4	Maliya Exchange to Haripur village 100px1				
	*Khatwasoli R Jantar (M) Exchange shutdown				

[Signature]

तनुज / TANUJ
 महानगर विद्युत निदेशक-II / Asst. Director II
 केंद्रीय विद्युत प्राधिकरण / C.E.A.
 विद्युत विभाग / Ministry of Power
 भारत सरकार / Govt. of India
 नई दिल्ली / New Delhi-66

DET (PTCC) Office Case No. 2823

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Route Length: 329.200 Kms

Railway Office Case No:

Soil Resistivity: Ohm-Cm

Name of Power Line: 765KV D/C Lakadia to Vadodara transmission Line under Lakadia-Vadodara Transmission Line

Telecom Details from BSNL

Details from Power Company/Authority

Sl	Name of the Telecom Cable/Line	Length of Parameter in Km	Mutual coupling in Ohms	Fault current in Amp	Induced Voltage in Volts
SRV	① Rajitapur Exch ①x Rajitapur to Rajitapur village area 400 Pr x 1				
SRV	② Kordh Exch ②x Kordh to Kordh village area 400 Pr x 1				
SRV	③ Bavli Exch ③x Bavli to Bavli village area 400 Pr x 1				
SRV	④ Bhalgamda Exch ④x Bhalgamda to Bhalgamda village 200 Pr x 1				
SRV	⑤ Subvav Exch ②x Subvav to Subvav village 200 Pr x 1				
SRV	⑥ Mayanagar Exch ③x Mayanagar to mayanagar village 100 Pr x 2				
SRV	⑦ Nava Divaliya Exch ④x Nava Divaliya to Nava Divaliya village 200 Pr x 1				
SRV	⑧ Halvad Exch ⑥x Halvad to Halvad village (i) Town Side = 800 Pr x 1 (ii) GIDE Side = 200 Pr x 2				

IV less than 430V

[Signature]

तनुज / TANUJ
 सहायक निदेशक-II / Asstt. Director-II
 केंद्रीय विद्युत प्राधिकरण / C.E.A.
 विद्युत मंत्रालय / Ministry of Power
 भारत सरकार / Govt. of India
 नई दिल्ली / New Delhi-68

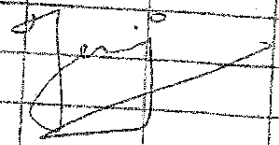
DET (PJCC) Office Case No: 2823
 Railway Office Case No. _____ Route Length: 329 200 Kms
 Name of Power Line: 765KV D/C Lakadia to Vadodara transmission Line under Lakadia-Vadodara
 Soil Resistivity: _____ Ohm-Cm
 Transmission Line

Telecom Details from BSNL

Details from Power Company/Authority

Sl	Name of the Telecom Cable/Line	Length of Parameter in Km	Mutual coupling in Ohms	Fault current in Amp	Induced Voltage in Volts
SRN (9)	Lakhtar Exch				
	1) LAKHTAR TO TOWN 800Pr x 1				
	2) LAKHTAR Exchange to GIDC 100Pr x 1				
	3) LAKHTAR — u — To OLD MAMLADAR 200Pr x 1				
SRN (10)	Bajrangpura Exch				
	1) BAJRANGPURA ^{new} Exchange to OLD Exchange 400 Pr x 1				
BRN (11)	Devalia Exch				
	1) DEVALIA Exchange to town 400Pr x 1				
	2) DEVALIA Exchange to Talsana 100Pr x 1				
	3) — u — To Tavi 50Pr x 1				
BRN (12)	Kotaria Exch				
	1) Kotaria Exch. To Poly Tech. 50Pr x 1				
	2) Kotaria Exch to Village 50Pr x 1				
SRN (13)	Knodiy Exch. To Village 50Pr x 1				
SRN (14)	Bhadrasri Exch to Village 50Pr x 1				

IV less than 430V



तनुज / TANUJ
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 विद्युत मंत्रालय / Ministry of Power
 भारत सरकार / Govt. of India
 नई दिल्ली / New Delhi-06

CEA office case No: _____
 DET (PTCC) Office Case No: 2823
 Railway Office Case No: _____
 Name of Power Line: 765KV D/C Lakadia to Vadodara transmission Line under Lakadia-Vadodara
 Transmission Line Project Ltd.
 Map Scale: 1 Cm=500 Meters
 Route Length: 329.200 Kms
 Soil Resistivity: _____ Ohm-Cm

Telecom Details from BSNL

SI No.	Name of the Telecom Cable/Line	Details from Power Company/Authori			
		Length of Parameter in Km	Mutual coupling in Ohms	Fault current in Amp	Induced Voltage Volts
ATD ①	BAQODRA To Exchange				
1A	" To Village Pillar 100Px1				
2A	Village Pillar To Village 50Px1				
3A	Village Pillar To Village 50Px1				
4A	Village Pillar To Village 20Px1				
ATD ②	KOTH Exchange				
1B	KOTH Exchange To SBI Pillar 100Px1				
2B	SBI Pillar To Local 50Px1				
3B	" To Local 50Px1				
4B	" To Local 20Px1				

IV less than 430V

तनुज / TANUJ
 सहायक निदेशक-II / Assit. Director-II
 केंद्रीय विद्युत प्राधिकरण / C.E.A.
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 नई दिल्ली / New Delhi-06

(5/12)

CEA Office case No:	Map Scale: 1 Cm=500 Meters
DET (PTCC) office Case No: 2823	Route Length: 329.200 Kms
Railway Office Case No:	Soil Resistivity: Ohm-Cm
Name of Power Line: 765KV D/C Lakadia to Vadodara transmission Line under Lakadia-Vadodara	

Telecom Details from BSNL

Sr No	Name of The Telecom Cable/Line			Details from Power Company/Authority			
	Exchange	Cable Details	Cable Size	Length of Parameter in Km	Mutual coupling in Ohms	Fault current in Amp	Induced Voltage in Volts
1	Bhurakui	BHURAKUI EXG TO MANAJ	100 pr X 2, 50 pr X 1				
2	Bhurakui	BHURAKUI EXG TO DANTELI	50 pr X 2				
3	Ashi	ASHI EXG TO ASHI PILLAR	400 pr X 1, 200 pr X 1				
4	Ashi	ASHI PILLAR TO BHATIYEL	100 pr X 2				
5	Ashi	ASHI EXG TO AGAS PILLAR	200 pr X 1				
6	Ashi	AGAS PILLAR TO BORIYA	50 pr X 2				
7	Dabhau	DABHOU EXG TO DABHOU PILLAR	400 pr X 1				
8	Dabhau	DABHOU EXG TO MALATAJ	400 pr X 1				
9	Mehlav	MEHLAV EXG TO CHANGA	100 pr X 2				
10	Mehlav	MHL EXCH TO BANDHNI	200 pr X 1, 100 pr X 1				
11	Mehlav	MHL EXG TO MEHLAV CABINET	400 pr X 2, 100 pr X 1				
12	Mehlav	MHL EXCH TO BANDHNI CHOKDI	100 pr X 1				
13	Mehlav	BANDHNI CHOKDI TO PORDA	50 pr X 1				
14	Mehlav	MHL EXG TO PADGOL	200 pr X 1, 100 pr X 1				
15	Mehlav	PADGOL TO VALETVA	100 pr X 1				
16	Nar	NAR EXG TO PANCHAYAT	200 pr X 1				
17	Nar	NAR EXG TO JOGA BHAGOL	800 pr X 1				
18	Nar	NAR EXG TO MAHADEV FALIYA	100 pr X 1				
19	Sojitra	SOJITRA EXGH TO GEB. LIMDI CHOWK	400 pr X 2				
20	Sojitra	SJR EXCH TO UNION BANK OF INDIA	400 pr X 1				
21	Sojitra	SOJITRA EXG TO KUND WALI BHAGOL	400 pr X 1				
22	Sojitra	SJR EXCH TO UMIYA SAW MILL	200 pr X 1				
23	Sojitra	SJR EXCH TO CHAR KUVA BHAGOR	400 pr X 1				
24	Sojitra	SJR EXCH TO VANKAR VAS	200 pr X 1				
25	Sunav	SUNAV EXG TO SOMJIKHAD CABINET	800 pr X 1				
26	Sunav	SUNAV EXG TO POSTOFFICE CABINET	800 pr X 1				
27	Sunav	POSTOFFICE CABINET TO PIPLAV	400 pr X 1				
28	Sunav	POSTOFFICE CABINET TO KASOR	200 pr X 1				
29	Sunav	SUNAV EXG TO VISHNOLI	50 pr X 2				
30	Vatav	VATAV EXG TO VATAV PILLAR	200 pr X 2				
31	Vatav	VATAV EXG TO ARDI	100 pr X 1				

IV less than 430V

(6/12)

TANUJ
सहायक निदेशक-II/Assst. Dir.
केन्द्रीय विभाग

CEA Office case No:	Map Scale: 1 Cm=500 Meters
DET (PTCC) office Case No: 2823	Route Length: 329.200 Kms
Railway Office Case No:	Soil Resistivity: Ohm-Cm
Name of Power Line: 765KV D/C Lakadia to Vadodara transmission Line under Lakadia-Vadodara Transmission Line	

Telecom Details from BSNL

Sr No	Exchange	Name of The Telecom Cable/Line		Details from Power Company/Authority			
		Cable Details	Cable Size	Length of Parameter in Km	Mutual coupling in Ohms	Fault current in Amp	Induced Voltage in Volts
1	Petlad College Crossing Exchange	PETLAD CR EXG TO DANTALI	100 pr X 2				
2		PETLAD CR EXG TO DANTALI	50 pr X 2				
3		PETLAD CR EXG TO COLLEGE	200 pr X 1				
4		PETLAD CR EXG TO RAMNATH	200 pr X 1				
5		PETLAD CR EXG TO RANCHHODJI	200 pr X 1				
6		PETLAD CR EXG TO KAILASH	400 pr X 1				
7		PETLAD CR EXG TO RLY FATAK	50 pr X 1				
8	Petlad Main Telephone Exchange	PTD EXG TO CHAWADI BAZAR	400 pr X 1, 200 pr X 1				
9		PTD EXG TO GANDHI CHOWK	100 pr X 1				
10		PTD EXG TO RANCHHODJI	400 pr X 1				
11		PTD EXG TO SS HOSPITAL	400 pr X 1, 800 pr X 1				
12		PTD EXG TO KALKAGATE	100 pr X 1				
13		PTD EXG TO SATYAM	50 pr X 1				
14		PTD EXG TO SARDAR CHOWK	50 pr X 1				
15		PTD EXG TO ESTATE PILLAR	400 pr X 1				
16		PTD EXG TO ZANDA PILLAR	100 pr X 1				
17		ESTATE PILLAR TO GUNJ PILLAR	200 pr X 1				
18		SS HOSPITAL TO SUGAR PILLAR	200 pr X 2				
19		PTD EXG TO OCTROI	200 pr X 2, 100 pr X 1				
20		PTD EXG TO GEB PILLAR	200 pr X 1				
21		GEB PILLAR TO GIDC PILLAR	200 pr X 1				
22		PTD EXG TO GANDHI CHOWK	100 pr X 1				

IV less than 430 V

(7/12)

तनुज / TANUJ
 सहायक निदेशक-II / Assst. Director-II
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 विद्युत मंत्रालय / Ministry of Power
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 नई दिल्ली / New Delhi-66

CEA office case No:	Map Scale: 1 Cm=500 Meters
DET (PTOC) Office Case No: 2823	Route Length: 329.200 Kms
Railway Office Case No:	Soil Resistivity: Ohm-Cm
Name of Power Line: 765KV D/C Lakadia to Vadodara transmission Line under Lakadia-Vadodara Transmission Line	

Telecom Details from BSNL

Sl No	Name of the Telecom Cable/Line	Details from Power Company/Authority			
		Length of Parameter in Km	Mutual coupling in Ohms	Fault current in Amp	Induced Voltage in Volts

① Tarapur Exchange to Mammaldar
10 pr x 1

② Tarapur Exchange to Newcourt
200 pr x 1

③ Tarapur Exchange to Nani Chankdi
400 pr x 1

④ Tarapur Exchange to Moti Chankdi
800 pr x 1

⑤ Tarapur Exchange to Valabhini Khadi
800 pr x 1

⑥ Tarapur Exchange to Madarsa
100 pr x 1

IV less than 430V

⑦ Borsad Exchange to Court 800 PR x 1
⑧ Borsad Exchange to Gunj Bazar 100 PR x 1

⑨ Ankla Exchange to Court 100 PR x 1
⑩ Ankla Exchange to Joshipurwa 100 PR x 1

⑪ GIDC Exchange to Towad Borsad 100 P x 1
⑫ Assdar Exchange to Ankla Rd 200 PR x 1
⑬ Assdar Exch. to Vasad Rd 100 PR x 1

⑭ Aladisa Exc. to Panchayat 200 PR x 1
⑮ Parnol Exchange to Singla 200 PR x 1
⑯ Naba Exchange to Borsad H/w 400 PR x 1

⑰ Bhutasi Ex. to Kanchadiya 100 PR x 1
⑱ Bhutasi Ex. to Panchayat 200 PR x 1

VAD

VAD

VAD

AD

AD

AD

AD

VAD

(8/12)

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महानगर निर्देश-11/Asstt Director-II
केन्द्रीय विद्युत प्राधिकरण / C.E.A.
विद्युत मंत्रालय / Ministry of Power
भारत सरकार / Govt of India

CEA office case No: _____
 DET (PTCC) Office Case No: 2823
 Railway Office Case No: _____
 Name of Power Line: 765KV D/C Lakadia to Vadodara transmission Line under Lakadia-Vadodara
 Map Scale: 1 Cm=500 Meters
 Route Length: 329.200 Kms
 Soil Resistivity: _____ Ohm-Cm

Telecom Details from BSNL

Sl No.	Name of the Telecom Cable/Line	Details from Power Company/Authority			
		Length of Parameter in Km	Mutual coupling in Ohms	Fault current in Amp	Induced Voltage in Volts
1	Vadod Exchange to Magar 100Prx1				
2	" " To Gopalpura 50Prx1				
3	" " To Vadod Vill 200Prx1				
4	" " To Vadod Vill 100Prx1				
5	" " To Vadod Vill 100Prx1				
①	Sandusar Exchange to Agrasth. 50Prx2				
②	" " To village 100Prx2				
③	" " To village 100Prx1				
1	Adas Exch. to Highway 50Prx2				
2	" " To village 100Prx2 50Prx1				
1	Nafar to Nauli 200Prx1				
2	" " To Village 100x3/200x1				

IV less than 430V

[Signature]

विद्युत / TANUJ
 सहायक निदेशक-II / Asstt. Director-II
 केंद्रीय विद्युत प्राधिकरण / C.E.A.
 विद्युत मंत्रालय / Ministry of Power
 भारत सरकार / Govt. of India
 नई दिल्ली / New Delhi-66

(9/12)

VAD 20

VAD 21

VAD 22

VAD 23

CEA office case No: _____
 DET (PTCC) Office Case No: 2823
 Railway Office Case No: _____
 Name of Power Line: 765KV D/C Lakadia to Vadodara transmission Line under Lakadia-Vadodara
 Map Scale: 1 Cm=500 Meters
 Route Length: 329.200 Kms
 Soil Resistivity: _____ Ohm-Cm

Telecom Details from BSNL

Details from Power Company/Authority

Sl No	Name of the Telecom Cable/Line	Length of Parameter in Km	Mutual coupling in Ohms	Fault current in Amp	Induced Voltage in Voits
DR (1) 1	Wayhodiya Exch. GIDC				
	Wayhodiya Exch. to Local. 200P x 2				
2	" TO Local. 200P x 2, 100P x 1				
3	" TO Local. 200P x 1, 100P x 2				
4	" TO Local 200P x 1				
DR (2) 2	Wayhodiya Town Exch.				
	Wayhodiya Town TO Local.				
	200 P x 1, 100 P x 1				
DR (3) 3	Munjusa Exchange - GIDC				
	(1) Munjusa Exchange to GIDC inside 200x1				
	Munjusa Exch. to Main gate - 500 x 1, 400 x 1				
	(2) Munjusa Exch. to Hind Colas, 100 x 1				
	Munjusa Exch. to Bombardier, 500 x 1, 100 x 1				
	(3) Munjusa Exch. to setace plaza, 100 x 1				
DR (4) 4	Tundav Exchange				
	(1) Tundav Exchange to local 400 x 1				
DR (5) 5	Raniya Exchange				
	(1) Raniya Exchange to local 200 x 1				
	(2) Raniya Exchange to Bhaderna 100 x 1				
	(3) Raniya Exchange to Main Pillor 100 x 1				
DR (6) 6	Samlaya Exchange				
	(1) Samlaya Exchange to local 400 x 1				
	(2) Samlaya Exchange to jubilent 100 x 1				
	(3) Samlaya Exchange to Haripura 100 x 1				

IV less than 150V

(10/12)

तनुज ANUJ
 सहायक निदेशक-II/Asstt Director-II
 केन्द्रीय विद्युत प्राधिकरण/C.E.A.
 विद्युत मंत्रालय/Ministry of Power
 भारत सरकार/Govt. of India

DET (PTCC) Office Case No: 2823

Map Scale: 1 Cm=500 Meters

Rel. Office Case No:

Route Length: 329.200 Kms

Name of Power Line: 765KV D/C Lakadia to Vadodara transmission Line under Lakadia-Vadodara
Transmission Line

Soil Resistivity: Ohm-Cm

Telecom Details from BSNL

Sl No.	Name of the Telecom Cable/Line	Details from Power Company/Authority			
		Length of Parameter in Km	Mutual coupling in Ohms	Fault current in Amp	Induced Voltage in Volts
DR 7 ③	Sakhola Exchange:-				
	1-1- to post office - 200 ps x 1				
	2-1- to Alkapuri - 100 ps x 1				
	3-1- to Indrapuri - 200 ps x 1				
	4-1- to ATod - 100 ps x 1 + 50 ps x 1				
	5-1- to Handham - 100 ps x 1				
DR 8 ④	Padamba Exch.:-				
	1-1- to Ranoli - 100 x 1				
	2-1- to Ranoli village - 100 ps x 1				
DR 9 ⑤	GSFC EXCH:-				
	1-1- to GSFC mungala - 400 ps x 1				
	2-1- to Dassath - 400 ps x 1				
	3-1- to Cabinet - 800 ps x 1				
	4-1- to Bajwa - 400 ps x 1				
	5-1- to Kachliya - 400 ps x 1				
	6 Dassath to Ranoli - 400 ps x 1				
	7 GSFC main gate to Heavy water - 200 ps x 1				
	8 Ranoli to Ranoli village - 100 ps x 1				
DR 10 ⑥	Sakarda Exch:-				
	1-1- to Bazar Tirasta - 100 ps x 1				
	2-1- to Sakarda village - 100 ps x 1				
DR 11 ⑦	GR POF Exch:-				
	1-1- to Bajwa bus stand - 400 x 2				
	2-1- to Kachli - 800 x 1				
	3-1- to IOCL Admin - 200 ps x 1				
	4-1- to IOCL Factory - 400 ps x 1				
	5 Kachli to Ankolliya - 100 ps x 2				

IV less than 430V

(11/12)

Sign & Seal of Concern DET & BSNL

Signature
 सहायक निदेशक-II/Asstt. Director-II
 केन्द्रीय विद्युत प्राधिकरण/C.E.A.
 विद्युत मंत्रालय/Ministry of Power

Office case No:

7798-12

DET (CC) Office Case No: 2823

Map Scale: 1 Cm=500 Meters

Railway Office Case No:

Route Length: 329.200 Kms

Name of Power Line: 765KV D/C Lakadia to Vadodara transmission Line under Lakadia-Vadodara Transmission Line

Soil Resistivity: Ohm-Cm

Telecom Details from BSNL

Sl No.	Name of the Telecom Cable/Line	Details from Power Company/Authority			
		Length of Parameter in Km	Mutual coupling in Ohms	Fault current in Amp	Induced Voltage in Volts

6 Bajwa bus stand to Karadliya - 100px x 2

- (8) IPCL Exch:-
- 1 - " - to Undara - 400px x 1
 - 2 - " - to Petrolfill - 400px x 1
 - 3 Undara to GR Township - 400px x 1
 - 4 Petrolfill bus stand to Jalaram - 100px x 1

(9) Nandesari Exch:-

- 1 - " - to GIDC - 100px x 1
- 2 - " - to Deepak - 400px x 1
- 3 - " - to Railway phatak - 100px x 1
- 4 - " - to Shopping Centre - 100px x 1
- 5 Railway phatak to Maminikhand - 100px x 2
- 6 Nandesari Exch to Cabinet - 400px x 1

IV less than 430V

10 Satyam Exch

- 1 " to Chhavi Village 400px
- 2 " to opp NH:8 200px x 1

(12/12)

TANUJ
 महान्क निदेशक-II/Asset Director-II
 केन्द्रीय विद्युत प्राधिकरण/C.E.A.
 विद्युत मंत्रालय/Ministry of Power
 भारत सरकार/Govt. of India
 नई दिल्ली/New Delhi-06

ANNEXURE - II

Case No.: G.UJ- 797

Name of the Power line: 765 kV D/C Lakadia to Vadodara transmission line under Lakadia Vadodara Transmission Project Limited.

Map Scale : 1 cm=500 m

Total Length : 329.2 km

S.R. Value : 2,000 & 15,000 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(1135)

Dated: 22-10-2020

Affected Blocks & Telecom Circuits Details

1	Annand to Petlad	9.5	0.0023	17823	41
2	Anand to Vadod	1.5	0.0001	17984	02
3	Vadod to ADAS Road	4	0.0005	18023	09
4	Petlad to Khambhat	9	0.0031	18176	57
5	Vadodara 'E' to Pilol	5.2	0.0034	18236	62
6	Pilol to Samlaya	8.3	0.0007	18269	13
7	Samlaya to Champaner Road	Out of Parallelism			00
8	Kidiyanagar to Chitrod	Out of Parallelism			00
9	Chitrod to Shivilakha	0.8	0.0001	19818	02
10	Samakhiyali to Katariya	Outside IV Consideration Zone			00
11	Katariya to Surbari	3.5	0.0005	19088	10
12	Surbari to Indira Nagar	7	0.0106	18989	202
13	Indira Nagar to Maliya Miyana	6.5	0.0090	18430	166
14	Dholka to Koth Gangad	1.1	0.0035	14286	50
15	Koth Gangad to Lothal Bhurki	1.9	0.0021	14272	30
16	Dhrangdhara to Ghanshyamgadh	Outside IV Consideration Zone			00
17	Ghanshyamgadh to Chuli	Outside IV Consideration Zone			00
18	Chuli to Sukhpur	6.8	0.0006	17684	11
19	Sivilakha to lakadiya	Outside IV Consideration Zone			00
20	Lakhtar to Bajarangpura	Out of Parallelism			00
21	Bajarangpura to Bala Road	0.5	0.0008	10586	09
22	Surendranagar RRI to Dhrangadhra Jn.	7.8	0.0022	10273	23

1/2

Prateek

प्रतीक श्री. प्र. प्र. प्र. PRATEEK SRIVASTAVA
 सहायक निदेशक-II / Asstt. Director-II
 वी. ए. सी. विभाग, प्रविधिकरण / C.E.A.
 विद्युत मंत्रालय / Ministry of Power

Tele : 23019746

G.U.J-797

(Annexure-III)

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


B/46937/Sigs 7(b)/2096/

27 Dec 2020

Lakadia-Vadodara Transmission Project Limited
F-1, The Mira Corporate Suites, 1&2, Ishwar Nagar
Mathura Road, New Delhi-110065

**PTCC ROUTE APPROVAL FOR INSTALLATION OF 765KV D/C LAKADIA TO
VADODARA TRANSMISSION LINE UNDER LAKADIA VADODARA TRANSMISSION
PROJECT LIMITED**

1. Refer your letter No PTCC-001 dt 08 Jun 2020 (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


(Rakesh Kumar)
Lt Col
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

The DET(PTCC), Northern Zone
O/o PGM (North), QA & Inspection Circle,
D-Tax Building, Janpath
New Delhi-110001

for information