



भारत सरकार
Government of India
विद्युत मंत्रालय
Ministry of Power
केन्द्रीय विद्युत प्राधिकरण
Central Electricity Authority
पावर कम्युनिकेशन डवलपमेंट प्रभाग
Power Communication Development Division

सं.: के.वि.प्रा./पी.सी.डी/जी.यु.जे-724/ 2591-93

दिनांक: 18/12/2018

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

Subject: PTCC Proposal of LILO of 220kV S/C Kasor-Botad line at 220kV Dhuvaran S/S.

Ref: i) BSNL Letter No. IC/MBI/PTCC/GUJ-2414, Dated-25/10/2017

ii) Dy. CSTE/PLG/CCG. WR, Mumbai, Letter No. SG.158/28/12(703), Dated 02/12/2016.

iii) Defense Letter No. B/46937/Sigs 7(b)/282 Dated 10.11.2016

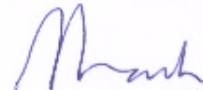
Sir,

The low frequency induction on BSNL and Railway Telecommunication circuits as per details furnished vide above cited references (i) and (ii) respectively has been examined. The Average Soil Resistivity value has been taken as 2,000 Ohms-cm, as per data submitted by Power Authority. Voltages likely to be induced on paralleling BSNL and Railway Telecommunication circuits under single line to ground fault condition are enclosed at Annex-I&II respectively. The screening factors as applicable have been considered. Vide ref. (iii) above, Defense Authority have issued No Objection Certificate (NOC) (enclosed as Annex - III).

Taking above into consideration, kindly take necessary action regarding issue of PTCC route approval.

Encl: As above

Yours faithfully,


18/12/18
(नरेश भंडारी)
मुख्य अभियंता

Copy to:

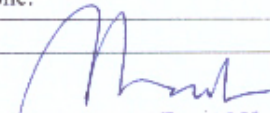
1. GM (S&T), Western Railway, Office of CSTE, S&T Dept., 5th Floor, Station Building, Churchgate, Mumbai-400020 (With annexure-II Only).
2. Chief Engineer(Projects), Sardar Patel Vidyut Bhavan, Race Course, Vadodara, Gujarat-390007

mlc

ANNEXURE - I

Case No.: GUJ-724		मानचित्र स्केल : 1 सेमी = 500 मीटर कुल लम्बाई : 40.674 कि.मी. एस. आर. मान : 2,000 ओम-सेमी			
Name of the Power Line : <u>LILo of 220 KV S/C Kasor - Botad line at 220kV Dhuvaran S/S</u>					
क्रम संख्या	टेलीकाम विवरण	समानांतरीय लम्बाई (कि.मी) में	म्युचुअल कप्लिंग (ओम) में	प्रभावी फाल्ट करंट (एम्पियर) में	प्रेरण वोल्टेज (वोल्ट) में

BSNL DETAIL		DATED: 25-10-2017			
Ref. No: IC/MBI/PTCC/GUJ-2414					
1	DHUWARAN EXCHANGE				
1A	Dhuvaran Exch.-local-200*1 P	Less than 430 volts			
2A	Dhuvaran Exch.-Khadoli R/s-100*1+20 P				
3A	Dhuvaran Exch.-GEB-400*1 P	3.5	0.0648	9545	618
4A	Dhuvaran Exch.-badalpura-20*4 P	4.5	0.066	9545	630
2	KATHANA EXCHANGE				
1B	Kathana Exch.-Kathana R/s -400*1 P	IV less than 430 Volts			
2B	Kathana Exch.-Kankapura -10*1 P				
3B	Kathana Exch.-vantash -10*1 P				
3	RAS EXCHANGE				
1C	RAS Exch.- local---200*3 P	Out of Parallelism			
2C	RAS Exch.- local---800*1 P				
3C	RAS Exch.- Wadali---50*1 P				
4C	RAS Exch.- Jharola---200*1 P				
5C	RAS Exch.- Sajipur--100*1+50*1 P				
6C	RAS Exch.- local---100*1 P				
7C	RAS Exch.- local---20*2 P	IV less than 430 Volts			
8C	RAS Exch.- local---100*1 P				
9C	RAS Exch.- Kathol---20*2 P				
4	KALAMSAR EXCHANGE				
1D	Kalamsar Ex.-Local-400*1 P	Out of IV consideration zone.			
5	WATADARA EXCHANGE				
1E	watadara Ex.-Local-50*1 P	Outside IV consideration zone.			
2E	watadara Ex.-Bajoda-50*1 P				
3E	watadara Ex.-Kjatmol-50*1 P				
6	BAMANVA EXCHANGE				
1F	Bamanva ex.- Local-50*1 P	Outside IV consideration zone.			
2F	Bamanva ex.- Phinor-50*1 P				
3F	Bamanva ex.- Jalsan-50*1 P				
4F	Bamanva ex.- Jaluna-50*1 P				
7	BHADRAN EXCHANGE				
1G	Bhadran Ex.-Local-800*1 P	Outside IV consideration zone.			
2G	Bhadran Ex.-Local-100*4 P				
3G	Bhadran Ex.-Local-200*2 P				
7	KHANPUR EXCHANGE				
1H	Khanpur exch- Local--400*1 P	Outside IV consideration zone.			
2H	Khanpur exch- Undli--50*1 P				
8	DHARMAJ EXCHANGE				
11	Dharmaj Exch.- Local-Chokdi-400 P	Out of Parallelism			
21	Dharmaj Exch.-Virsad-200*1 P				
31	Dharmaj Exch.-Ranoli-100*1 P				
41	Dharmaj Exch.-Golel-50*1 P				


 मुख्य अभियंता/Chief Engineer
 केन्द्रीय विद्युत प्रणाली/CEA
 राज नगरी, अहमदाबाद
 Gujarat, India

ANNEXURE - I

Case No.: GUJ-724	मानचित्र स्केल : 1 सेमी = 500 मीटर
Name of the Power Line : LILO of 220 KV S/C Kasor - Botad line at 220kV Dhuvaran S/S	कुल लम्बाई : 40.674 कि.मी.
	एस. आर. मान : 2,000 ओम- सेमी

क्रम संख्या	टेलीकाम विवरण	समानांतरिय लम्बाई (कि.मी) में	म्युचुअल कप्लिंग (ओम) में	प्रभावी फाल्ट करंट (एम्पियर) में	प्रेरण वोल्टेज (वोल्ट) में
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9	BOCHASAN EXCHANGE				
1J	Bochasan Exch.-Local-100*1 P				Outside IV consideration zone.
2J	Bochasan Exch.-Local-100*3 P				
3J	Bochasan Exch.-Rudel-SO*2 P				
4J	Bochasan Exch.-Dabhas-50*1 P				
5J	Bochasan Exch.-Local-511'3 P .				
10	BHARAKUI EXCHANGE				
1K	Bharakui Exch.- Local-200*1+50*2 P				IV less than 430Volts.
2K	Bharakui Exch.- Manej-100*2 P				Outside IV consideration zone.
3K	Bharakui Exch.-Manpura-50*2 P				
11	NAR EXCHANGE				
1L	Nar Exch.-Local-200*1 P				Outside IV consideration zone
2L	Nar Exch.-Local-100*1+50*1 P				
3L	Nar Exch.-Runaj-400*1+100*1 P				
12	TARAPUR EXCHANGE				
1M	Tarapur Exch.-Local-800*1 P				Outside IV consideration zone
2M	Tarapur Exch.-Local-400*1 P				
3M	Tarapur Exch.-Local-800*1 P				
13	SOJITRA EXCHANGE				
1N	Soptra Exch.-Local--400*1 P				Outside IV consideration zone
2N	Sojitra Exch.-Local--100*1 P				
3N	Solitra Exch.-Dada--100*1 P				
4N	Sojitra Exch.-Gada--200*1 P				
14	DABHAU EXCHANGE				
1O	Dabhau Exch.- Local-100*1 P				Out of Parallelism
2O	Dabhau Exch.- Malatal-100*2 P				
3O	Dabhau Exch.- Local-200*1 P				
15	SUNAV EXCHANGE				
1P	Sunav Exch.-Local-400*1 P				Out of Parallelism
2P	Sunav Exch.-Local-50*1 P				
3P	Sunav Exch.-Local-100*1 P				
16	PETLAD EXCHANGE(M)				
1Q	Petlad Exch.(M)-Local-100*7 P				Outside IV consideration zone
2Q	Petlad Exch.(M)-Local-800*2 P				
3Q	Petlad Exch.(M)-Local-400*3 P				
4Q	Petlad Exch.(M)-Local-200*7 P				
5Q	Petlad Exch.(M)-Local-50*4 P				
17	PETLAD EXCHANGE(RSU)				
1R	Petlad Ex.-(R)- Local-400*2 P				Outside IV consideration zone
2R	Petlad Ex.-(R)- Local-100*2 P				
3R	Petlad Ex.-(R)- Local-50*2+20*1 P				
4R	Petlad Ex.-(R)- Dantali-50*1 P				
5R	Petlad Ex.-(R)- Local-200*2 P				
6R	Petlad Ex.-(R)- Local-400*1 P				

मुख्य अभियंता/Chief Engineer
 केन्द्रिय विद्युत प्राधिकरण/C.E.A.
 सा.प्र.अ. अ.के. पूरम,
 Gandhinagar, Gandhinagar,
 Gandhinagar, Gandhinagar-56

ANNEX-III

GJ-724

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)/282/

1st Nov 2016

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

**SUBMISSION OF PROPOSAL FOR HV/EHV TRANSMISSION LINE OF
GETCO FOR PTCC APPROVAL**

220 KV L110 Dhuvaran from 220kv kasor-Botad line.

1. Ref your letter No CE(Project)/EE(Tr.-3)/ 3466/ dt 15 Jul 2016.
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 forwarded herewith for your further action.

BS Kunwar

(BS Kunwar)
Lt Col
GSO 1 (Comn)
for SO-in-C

Enclosures : (As above)

The Divisional Engineer (Telegraphs)(PTCC)
BSNL, 3rd Floor, 'D'Wing, Telecom Complex
Juhu Tara Road, Juhu Danda, Santracruz West,
Mumbai - 400054

- for information pl