



सत्यमेव जयते

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

No.CEA/PCD/PTCC/GUJ-725/175-177

दिनांक:13/02/2019

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 Approval of 220kV D/C Kasor S/S - DFCC Heranj Railway S/S

Ref: i) BSNL Letter No. IC/MBI/PTCC/GUJ-2416, Dated-21/05/2018.
ii) WR, Mumbai, Letter No. SG.158/28/12(701) Dated 01/12/2016.

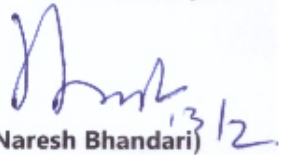
Sir,

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.

Pending Defense details, kindly issue Provisional PTCC approval.

Encl: As above

Yours faithfully,


(Naresh Bhandari)
Chief Engineer

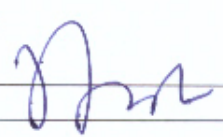
Copy to:

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

ANNEXURE - I

Case No.: GUJ-725					
Name of the Power Line : 220 KV D/C Kasor S/S - DFCC Heranj Railway S/S		मानचित्र स्केल : 1 सेमी=500 मीटर कुल लम्बाई : 18.46 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

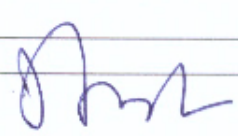
BSNL DETAIL		Ref. No: IC/MBI/PTCC/GUJ-2416	DATED: 21-05-2018
1	PETLAD EXCHANGE(M)		
1A	Petlad Exch.- Local----800*2 P	Out of IV consideration zone.	
2A	Petlad Exch.- Local----400*3 P		
3A	Petlad Exch.- Local----200*7 P		
4A	Petlad Exch.- Local----100*7 P		
5A	Petlad Exch.- Local----50*4 P		
2	PETLAD EXCHANGE(RSU)		
1A1	Petlad Exch.(RSU)- Local----400*2 P	Out of IV consideration zone.	
2A1	Petlad Exch.(RSU)- Local----200*2 P		
3A1	Petlad Exch.(RSU)- Local----100*2 P		
4A1	Petlad Exch.(RSU)- Local----50*2+20*1 P		
5A1	Petlad Exch.(RSU)- Dantali----50*1 P		
6A1	Petlad Exch.(RSU)- Local----400*1 P		
3	SOJITRA EXCHANGE		
1B	Sojitra Exch.-local 400*2 P	Out of IV consideration zone.	
2B	Sojitra Exch.-local 200*1 P		
3B	Sojitra Exch.-local 100*2 P		
4B	Sojitra Exch.-local 100*1 P		
5A1	Petlad Exch.(RSU)- Dantali----50*1 P		
6A1	Petlad Exch.(RSU)- Local----400*1 P		
4	DABHAU EXCHANGE		
1C	Dabhau Exch.-Local 200*1 P	IV less than 430 V	
2C	Dabhau Exch.-Local 100*2 P		
3C	Dabhau Exch.-Local 50*2 P		
4C	Dabhau Exch.-Malotas---100*1 P		
5	LIMBASI EXCHANGE		
1D	Limbasi Exch.- Local 400*1 P	Out of IV consideration zone.	
2D	Limbasi Exch.- Local 200*1 P		
3D	Limbasi Exch.- Malavada----50*1 P		
4D	Limbasi Exch.- Marala---100*1+50*2 P		
6	TRAJ EXCHANGE		
1E	Traj Exch.-local---200*1 P	Out of IV consideration zone.	
2E	Traj Exch.-local---100*1 P		


 नरेश भंडारी / NARESH BHANDARI
 मुख्य अभियंता / Chief Engineer
 केंद्रीय विद्युत प्राधिकरण / C.E.A.
 विद्युत मंत्रालय / Ministry of Power
 भारत सरकार / Govt. of India
 नई दिल्ली / New Delhi-66

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क्रम संख्या	टेलीकाम विवरण	समानांतरिय लम्बाई (कि.मी) में	म्युचुअल कप्लिंग (ओम) में	प्रभावी फाल्ट करंट (एम्पियर) में	प्रेरण वोल्टेज (वोल्ट) में

7	MATAR EXCHANGE				
1 F	Matar Exch.-Local---100*1 P				Out of IV consideration zone.
2 F	Matar Exch.-Local---100*1 P				
3 F	Matar Exch.-Local---200*1 P				
4 F	Matar Exch.-Local---400*1 P				
8	VASO EXCHANGE				
1G	Vaso Exch.-Local---400*1 P				Out of IV consideration zone.
2G	Vaso Exch.-Local---100*1 P				
3G	Vaso Exch.-Palana--200*1 P				
4G	Vaso Exch.-Local--200*1 P				
5G	Vaso Exch.-Rampur--100*1 P				
6G	Vaso Exch.-Local--100*1 P				
9	RAMOL EXCHANGE				
1H	Ramol Exch.-Local---100*1 P				Out of IV consideration zone
2H	Ramol Exch.-Local---50*2 P				
3H	Ramol Exch.-Demoi---100*1 P				
10	CHANGA EXCHANGE				
11	Changa Exch.-Local---100*2 P				Out of IV consideration zone.
21	Changa Exch.-Local---50*2 P				
11	MAHELAV EXCHANGE				
1J	Mahelav Exch.- Local---200*1 P				Out of IV consideration zone.
2J	Mahelav Exch.- Bandhani-200+100+50 P				
3J	Mahelav Exch.- Ghanteli-100+50 P				
4J	Mahelav Exch.- Valetvai-100+50 P				
9	RAMOL EXCHANGE				
1H	Ramol Exch.-Local---100*1 P				Out of IV consideration zone.
2H	Ramol Exch.-Local---50*2 P				
3H	Ramol Exch.-Demoi---100*1 P				
10	CHANGA EXCHANGE				
11	Changa Exch.-Local---100*2 P				Out of IV consideration zone.
21	Changa Exch.-Local---50*2 P				
11	MAHELAV EXCHANGE				
1J	Mahelav Exch.- Local---200*1 P				Out of IV consideration zone.
2J	Mahelav Exch.- Bandhani-200+100+50 P				
3J	Mahelav Exch.- Ghanteli-100+50 P				
4J	Mahelav Exch.- Valetvai-100+50 P				
12	SUNAV EXCHANGE				
1K	Sunav Exch.-local 400P				Out of IV consideration zone.
2K	Sunav Exch.-Local 100+50P				


 नरेश भंडारी/NARESH BHANDARI
 मुख्य अभियंता/Chief Engineer
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 भारत सरकार/Govt. of India
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ANNEXURE - II

Case No.: GUJ-725

Name of the Power Line : 220 KV D/C Kasor S/S - DFCC Heranj Railway S/S

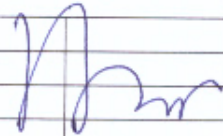
मानचित्र स्केल : 1 सेमी=500 मीटर
कुल लम्बाई : 18.46 कि.मी.
एस. आर. मान : 2,000 ओम- सेमी

क्रम संख्या	टेलीकाम विवरण	समानांतरीय लम्बाई (कि.मी) में	म्युचुअल कप्लिंग (ओम) में	प्रभावी फाल्ट करंट (एम्पियर) में	प्रेरण वोल्टेज (वोल्ट) में
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WESTERN RAILWAY NO. SG. 158/28/12(701) dated 01/12/2016

Affected Blocks & Telcom Circuits Details

1	PETLAD - KHAMBHAT	Out of parallelism			0
2	NADIAD - PETLAD	7	0.00312	6868	21
3	ANNAD - PETLAD	Out of parallelism			0
4	PETLAD - BOCHASAN	Out of parallelism			0


नरेश बंधारी / NARESH BHANDARI
मुख्य अभियन्ता / Chief Engineer
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