



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

सं.: CEA/PCD/PTCC/GUJ-768/138-140

Date: 05/02/2019

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

Subject: PTCC Route Approval for RPVPL switchyard-Bhachau S/s 220kV D/C line.

Ref (i) BSNL Ltr.No.IC/MBI/PTCC/GUJ-2759 dt. 20/12/2018
(ii) Western Railway Ltr No.SG.158/28/12(1053) dt.11/01/2019
(iii) Defense Letter No.B/46937/Sigs 7(b)/1355 dt.26/12/2018


Sir,

The low frequency induction on telecom cables of Railway with respect to details furnished vide above reference (i), and (ii) respectively has been computed. The average Soil Resistivity (SR) value has been taken as 20,000 Ohm Cm, as intimated by the Power Authority, ReNew Power Limited. The voltages likely to be induced on paralleling telecom circuits of BSNL and Railway under Single Line to Ground fault condition have been computed and are enclosed at Annex-I & II respectively. The screening factors, as applicable, have been considered.

Defense has accorded NOC vide above Ref.(iii) for the above line.

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

Encl.: As above


(Naresh Bhandari)
Chief Engineer

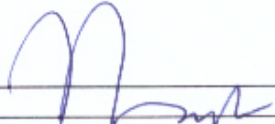
Copy to:

1. GM(S&T), Western Railway, Office of CSTE, S&T Dept.5th Floor, Station Building,Churchgate,Mumbai-400020(Annexure-II only)
2. Manager (Projects), ReNew Power Limited,Commercial Block-1,Zone 6,Golf Course Road, DLF City Phase-V, Gurugram-122009

ANNEXURE - I

Case No.: GUJ-768 Name of the Power line: RPVPL switchyard-Bhachau S/s 220kV D/C line.		Map Scale : 1cm=500mts Total Length : 45.97 Km. S.R. Value : 20,000 Ohms-cm			
S.No.	Telecom. Details	Length of Parallelism in Km.	Mutual Coupling in Ohms.	Effective Fault current in Amps.	I.V in Volts.

BSNL DETAIL					
Ref. No. IC/MBI/PTCC/GUJ/2759		Dated at Mumbai, the 20/12/2018			
1	CHANDRODA EXCHANGE				
1A	Chandroda Exch.-Local.- 200*1P	IV less than 430V			
2A	Chandroda Exch.-Local.- 100*1P				
3A	Chandroda Exch.-Local.- 100*1P				
2	KHEDOVI EXCHANGE				
1B	Khedoi Moti Exch.-Local-20*1PE	IV less than 430V			
2B	Khedoi Moti Exch.-Local-100*1PE				
3B	Khedoi Moti Exch.-Local-100*1PE				
4B	Khedoi Moti Exch.-Local-50*1PE				
3	RKHAMRA EXCHANGE				
1C	Khamra Exch.-Local-100x1P	IV less than 430 V			
2C	Khamra Exch.-Local-50x1P				
3C	Khamra Exch.-Local-100x1P				
4	RATNAL EXCHANGE				
1D	Ratnal Exch.-Local-100x1P	IV less than 430 V			
2D	Ratnal Exch.-Local-10x1P				
3D	Ratnal Exch.-Local-20x1P				
4D	Ratnal Exch.-Local-50x1P				
5	ANJAR EXCHANGE				
1E	Anjar Exch.-Local-200+100*2+50*4	IV less than 430 V			
2E	Anjar Exch.-Local-100*1+50*1P				
3E	Anjar Exch.-Local-100*1+50*1P				
4E	Anjar Exch.-Local-100*1P				
5E	Anjar Exch.-Local-200*1P				
6E	Anjar Exch.-Local-100*1P				
7E	Anjar Exch.-Satapar 100*1+50*1P				
8E	Anjar Exch.-Local-100*1+50*1P				
9E	Anjar Exch.-Supeda-100*1+50*1P				
10E	Anjar Exch.-Local-400+100*3+50*4P				
11E	Anjar Exch.-Local-50*4P				
12E	Anjar Exch.-Local-100*1+50*12P				
13E	Anjar Exch.-Meghpar-200+100*2+50*4				
6	VARSAMERI EXCHANGE				
1F	Varsameri Exch.-Local-	IV less than 430 V			
2F	100PVarsameri Exch.-Paswaria-20P				
7	LAKHAPAR EXCHANGE				
1G	Lakhapar Exch.-Local-100*1+50*1P	IV less than 430V			
2G	Lakhapar Exch.-Ambapar-50*1P				
3G	Lakhapar Exch.-Local-100*1+50*1P				


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

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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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8	BHIMASAR EXCHANGE				
1H	Bhimasar Ex.-Local-100x1+50*1P	IV less than 430 V			
2H	Bhimasar Ex.-Ajapar-20*1P	5	0.062	10,000	620
3H	Bhimasar Ex.-Morwada-20*2P	IV less than 430 V			
4H	Bhimasar Ex.-Padana-50*2P				
5H	Bhimasar Ex.-Local-200*1P				
6H	Bhimasar Ex.-Local-10*1P				
7H	Bhimasar Ex.-Pasuda-10*1P	IV less than 430 V			
9	MOTI CHARAI EXCHANGE				
11	Motichirai .- Local-400*1P	IV less than 430 V			



श्री नरेश भण्डारी / NARESH BHANDARI
 मुख्य अभियन्ता / Chief Engineer
 केंद्राध्यक्ष विद्युत प्राधिकरण / C.E.A.
 विद्युत मंत्रालय / Ministry of Power
 भारत सरकार / Govt. of India
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