

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

No. CEA/PCD/PTCC/MRA- 1132/ 182 184

Date:14/02/2019

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

Subject: PTCC Route Approval for 220kV Borivali (MSETCL)-Aarey(R-INFRA) D/C underground cable.

Ref: i) BSNL Letter No. IC/MBI/PTCC/MRA-2334, Dated-3/01/2018.

ii) Western Railway Letter No. SG158/28/9/304 Dated 04/01/2018.

iii) Defense letter No. B/46937/Sig 7(b)/942 Dated 20/02/2018

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 100,000 Ohms-cm, as per data submitted by Power Authority i.e M/s Reliance Infrastructure Limited. 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,

(Naresh Bhandari)

Chief Engineer

Copy to:

 GM (S&T), Western Railway, Offfice of CSTE,S&T Dept., 5th Floor, Station Building, Churchgate, CST Mumbai-400020 (Annexure-II only)

 Asst. Vice President, Reliance Infrastructure Limited, Mumbai Transmission, 220kV Aarey EHV Sub-Station, Off Jogeshwari Vikhroli Link Road, Opp. SEEPZ gate No.3, Opp. Unit No.19, Aarey Colony, Goregaon (East), Mumbai-400 065

ANNEXURE - I

Case No.:MRA-1132 Name of the Power line:

220kV Borivali (MSETCL)-Aarey(R-INFRA) D/C underground cable.

Map Scale

: 1cm=500mts Total Length: 12.96 Km.

S.R. Value : 100,000 ohm-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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	Ref. No. IC/MBI/PTCC/MRA-2334	Dated at Mu	mbai, the 03/01/	2018	
1	SamataNagar TE Damy Pada 2000/4000/500 D				
1	SamataNagar TEDamu Pada 2000/1600/800 Pair	1	0.018	9230	166
2	SamataNagar TE-Thakur Village Chouk 2000/1600/800 Pair	1	0.018	9230	166
3	SamataNagar TE-ThakurVillage Chouk-Thakur College Chouk 1200/800 Pair	1	0.018	9230	166
4	SamataNagar TE- Thakur College Chouk- Thakur- Village . 1200/800 Pair	1	0.018	9230	166
5	SamataNagar TE- Thakur College Chouk 1600/800 Pair.	1	0.018	9230	166
6	SamataNagar TE-Hanuman Nagar-Akurli Village. 2000 Pair(5 nos.)	2.4	0.0421	8460	356
7	Gokuldham TE-Kurar Village 1600 &1200Pair	1.5	0.0263	5155	135
3	Gokuldham TE- Times of India 800 Pair	2.1	0.0368	5155	190
)	Gokuldham TE Pathanwadi signal Bridge 1600Pair	0.8	0.014	5155	72
0	Pahadi Gorgegaon TE- Aarey S/S 800/400/200 Pair	2.0	0.0351	10000	351
1	Pahadi Gorgegaon TE- Panchavati Hotel 800/200/100 Pair	2.1	0.0368	6690	246
2	Pahadi Gorgegaon TE- Panchavati Hotel – Aarey Hotel 800 Pair	1.0	0.01755	9230	162
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			0 /	710	
			नरेश भंडारी/NARE	SH BHANDARI	
			मुख्य अभियन्ता/C कन्द्रीय विद्युत प्रावि	nief Engineer	
			केन्द्रीय विद्युत प्रावि	etry of Power	
			भारत सरकार/G	ovt. of India	
			कन्द्राय विद्युत प्राप्त विद्युत मंत्रालय/Min भारत सरकार/G नई दिल्ली/Ne	w Delhi-66	

ANNEXURE - II

	MRA-1132 he Power line: lii (MSETCL)-Aarey(R-INFRA) D/C und	derground cable.	Total Length	: 1cm=500m : 12.96 Km. : 100,000 Of	
S.No.	Telecom. Details	Length of Parallelism in Km.	Mutual Coupling in Ohms.	Effective Fault current in Amps.	I.V in Volts.

	WESTERN RAILWAY Ref. No. SG/158/28/9/304 Da	ated at Mumbai, the	e 04/01/2018		
1	Santacruz-Vile Parlie		Out of parallelism		0
2	Vile Parlie-Andheri		Out of parallelism		
3	Andheri-Jogeshwari (West)		Out of parallelism		
4	Jogeshwari-Goregaon(East)	3.0			
5	Goregaon-Malad	2.0	0.00164	5075	10
3	Malad-Kandivali.	1.5	0.00104	6615	
7	Kandivali-Borivali	1.0	0.00061	7615	8
3	Borivali-Dahisar	1.0	Out of parallelism	/015	5
)	Dahisar-Mira Road.		Out of parallelism		
	2 miles i i i i i i i i i i i i i i i i i i i		Out of parametrism		0
			1	M	
			नरेश मंडारी∕NA	RESH BHANDAR	
			मुख्य अभियम्ला / केन्द्रीय विश्वन व	Chief Engineer	
			विद्युत मंत्रालय /M	inistry of Power	
			विद्युत मंत्रालय/Ministry of Power भारत सरकार/Govt. of India नई दिल्ली/New Delhi-66		
			18 Ideal/New Delhi-66		

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)/942/

70 Feb 2018

Asst Vice President
Reliance Infrastructure Ltd Mumbai Transmission,
Jogeshwari Vikhroli Link Road
Opp SEEPZ Gate No.3
Opp Unit No 19, Aarey Colony
Goregaon (East), Mumbai - 400065

220 KV D/C UNDERGROUND CABLE LINE BETWEEN MSETCL BORIVALI EHV SUBSTATION TO 220KV RINFRA –T AAREY EHV SUBSTATION

- 1. Reference your letter No TCC/SPB/AABO/2017-18/11/30 dt 04 Jan 2018.
- 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.

(Nainee Sharma)

Lt Col

GSO 1 (Comn) for SO-in-C

Copy to :-

The Director (PTCC)
CEA, Telecom Division, NRPC Complex
18-A Shaheed Jeet Singh Marg
Katwaria Sarai, New Delhi - 110016

- For information.

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