



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/MRA 1048/2511-2514

Date: 30/11/2018

31/12/2018

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

Subject: IV calculation for PTCC Route Approval for upgradation of existing 220kV Borivali –Boisar line from Double circuit to Multi circuit.

Ref: i) BSNL Letter No. IC/MBI/PTCC/MRA-2116, Dated-02/08/2018.
ii) Western railway Dy.CSTE/PLG/CCG, Letter No. SG.158/28/9/(296), Dated 30/03/2015.
iii) Central Railway AESTE/TELE/HQ,Ltr.No. 153/PTCC/220kV/MAH-424 Dated 18/02/2014.

Sir,

The low frequency induction on BSNL and Railway Telecommunication circuits as per details furnished vide above cited references (i), (ii) and (iii) respectively has been examined. The Average Soil Resistivity value has been taken as 20,000 Ohms-cm, as per data submitted by Power Authority i.e MSETCL. Voltages likely to be induced on paralleling BSNL and Railway Telecommunication circuits under single line to ground fault condition are enclosed at Annex-I and II ,III respectively. The screening factors as applicable have been considered.

As the Power Authority had submitted the instant case before the decision of consideration of Defense, the requirement of Defense Telecom details may be waived.

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

Encl: As above

Yours faithfully,


(Naresh Bhandari) 30.11.18
Chief Engineer

M/C

Copy to:

1. AESTE, Central Railway, Headquarters Office (S&T Branch) 3rd Floor, Annex Building, CST Mumbai-400001 (Annexure-I only)
2. GM (S&T), Office of CSTE, Western Railway, S&T Dept, 5th Floor, Station Building, Churchgate, Mumbai-400020 (Annexure-III only)
3. The Superintending Engineer (Schemes & Coordination), Prakashganga, Plot No. C-19, E Block, Bandra (East), Mumbai-400051.

ANNEXURE - I

Case No.: MRA-1048

Name of the Power Line :
RENOVATION/UPGRADATION OF EXISTING 220 KV BOISAR -
 BORIWALI LINE FROM D/C TO M/C

मानचित्र स्केल : 1 सेमी=500 मीटर
 कुल लम्बाई : 87.0 कि.मी.
 एस. आर. मान : 20,000 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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BSNL DETAIL

Ref. No: IC/MBI/PTCC/MRA-21/6

DATED: 02-08-2018

क्र	विवरण	लम्बाई (कि.मी)	कप्लिंग (ओम)	फाल्ट करंट (एम्पियर)	प्रेरण (वोल्ट)
1	Papdi T.E to Panchubandem (P-33)	200	pair U/G cable	} Outside IV consideration zone	
2	Papdi T.E to Nilabandem (P-31)	200	pair U/G cable		
3	Papdi T.E to Hattimohalla (P-53)	800	pair U/G cable		
4	Papdi T.E to Lechiwadi (P-25)	800	pair U/G cable		

क्र	विवरण	लम्बाई (कि.मी)	कप्लिंग (ओम)	फाल्ट करंट (एम्पियर)	प्रेरण (वोल्ट)
1	Manor T.E to Exchange pillar ()	400	pair U/G cable	} IV less than 430V	
2	manor T.E to market pillar ()	400	pair U/G cable		
3	manor T.E to Sorani hospital pillar ()	400	pair U/G cable		
4	manor T.E to Sorani Masood pillar ()	400	pair U/G cable		

क्र	विवरण	लम्बाई (कि.मी)	कप्लिंग (ओम)	फाल्ट करंट (एम्पियर)	प्रेरण (वोल्ट)
1	vasai T.B (W) to Panchavati (P-109)	1200	pair U/G cable	} IV less than 430V	
2	Panchavati to parishram (P-323)	800	pair U/G cable		
3	Panchavati to om nagar (P-101)	400	pair U/G cable		
4	parishram to vasant park (P-312)	400	pair U/G cable		
5	Panchavati to krishna township (P-106)	400	pair U/G cable		

क्र	विवरण	लम्बाई (कि.मी)	कप्लिंग (ओम)	फाल्ट करंट (एम्पियर)	प्रेरण (वोल्ट)
1	Masram T.E to Exchange pillar ()	100	pair U/G cable	} IV less than 430V	

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 नृत्य मंत्रालय/Ministry of Culture
 नृत्य विभाग/Department of Culture
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 नृत्य विभाग/Department of Culture
 नृत्य विभाग/Department of Culture

ANNEXURE - I

Case No.: MRA-1048

Name of the Power Line :
RENOVATION/UPGRADATION OF EXISTING 220 KV BOISAR -
 BORIWALI LINE FROM D/C TO M/C

मानचित्र स्केल : 1 सेमी=500 मीटर
 कुल लम्बाई : 87.0 कि.मी.
 एस. आर. मान : 20,000 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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BSNL DETAIL

Ref. No: IC/MBI/PTCC/MRA-2116

DATED: 02-08-2018

L	1	Gokhivare T.E TO Riddhishikhi (024) 100 pair U/G cable			IV less than 430V
	2	Gokhivare T.E to Abhinandan (024) 100 pair U/G cable			

M	1	Neminath T.E to Vard Pillar - (001) 400 pair U/G cable			
	2	Neminath T.E to Ruby Pillar - (002) 200 pair U/G cable			IV less than 430V
	3	Neminath T.E to msbs colony - (004) 400 pair U/G cable			

N	1	Nalasopara (E) T.E to mahesh phum (001) 400 pair U/G cable			
	2	Nalasopara (E) T.E to Garden Pillar (003) 400 pair U/G cable			
	3	Nalasopara (E) T.E to Santosh phum (004) 400 pair U/G cable			IV less than 430V
	4	Nalasopara (E) T.E to Aswal Nagar (005) 200 pair U/G cable			
	5	Nalasopara (E) T.E to Akanksha (072) 200 pair U/G cable			
	6	Nalasopara (E) T.E to Tania Town (092) 200 pair U/G cable			

O	1	manikpur T.E to manikpur Naka (027) 400 pair U/G cable			
	2	manikpur T.E to Navsevam Pillar (021) 600 pair U/G cable			IV less than 430V
	3	manikpur T.E to Suryog har Pillar (022) 600 pair U/G cable			

P.	1	Naygaon T.E to Amol Nagar pillar () 400 p. U/G cable			
	2	Naygaon T.E to Naygaon pillar () 400 p. U/G cable			
	3	Naygaon T.E to Pali pillar () 200 p U/G cable			

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विद्युत निरीक्षण विभाग
 राज्य विद्युत निरीक्षण विभाग
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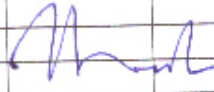
ANNEXURE - I

Case No.: MRA-1048 Name of the Power Line : RENOVATION/UPGRADATION OF EXISTING 220 KV BOISAR - BORIWALI LINE FROM D/C TO M/C		मानचित्र स्केल : 1 सेमी=500 मीटर कुल लम्बाई : 87.0 कि.मी. एस. आर. मान : 20,000 ओम-सेमी			
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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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BSNL DETAIL
 Ref. No. IC/MBI/PTCC/MRA-2116 DATED: 02-08-2018

1	Bolins T.E to m m kotal pillar (P-26) 600 pair U/G cable				
2	Bolins T.E to karnawadi (P-27) 200 pair U/G cable				IV less than 430V
3	Bolins T.E to Krishanali/2001 001 (P-24) 400 pair U/G cable				
1	CIDCO T.E to Boisar Nagar pillar (200) pair U/G cable.				IV less than 430V
2	CIDCO T.E. to vortak Nagar pillar (200) pair U/G cable				
3	CIDCO T.E to oswal City pillar (200) pair U/G cable				
1	Khadrapnatak T.E to parasa Nagar pillar 200 pair U/G cable.				
2	Khadrapnatak T.E to Grampanchayat pillar 200 pair U/G cable.				IV less than 430V
3	Khadrapnatak T.E to Union Parake pillar 200 pair U/G cable				
4	Khadrapnatak T.E to KVL Nagar pillar 200 pair U/G cable.				
1	MIDC Tarapur T.E to camlin naka () 400 pair U/G cable				
2	MIDC Tarapur T.E to kumbharnaika () 200 pair U/G cable.				IV less than 430V
3	MIDC Tarapur T.E to Trivedi Nagar () 200 pair U/G cable				
1	Nalasopara (W) to Exchange (A+B) (002) 100 pair U/G cable.				
2	Nalasopara (W) to Rati pillar (002) 100 pair U/G cable.				IV less than 430V
3	Nalasopara (W) to Dange tower (002) 00 pair U/G cable.				
4	Nalasopara (W) to Hanuman mandir (001) 100 pair U/G cable				
5	Nalasopara (W) to Sulechangan pillar (001) 100 pair U/G cable				
6	Nalasopara (W) to Ami Parke pillar (001) 100 pair U/G cable.				
1	Vivare (B) to Exchange pillar (007) 00 pair U/G cable				
2	Vivare (B) to Phulpada Road pillar (036) 600 pair U/G cable				
3	Vivare (B) to manvelpada pillar (037) 100 pair U/G cable				
4	Vivare (B) to sivdani Road pillar (102) 400 pair U/G cable				


 मानोज सिंघवी / Manoj Singhvi, IAS, NSRI
 मुख्य अभियंता / Chief Engineer
 विद्युत विभाग, राजस्थान, (C.A.)
 विद्युत विभाग, विद्युत विभाग, राज्य
 1/14/1/2018, पृष्ठ संख्या 10/23/18
 22, B-Block, New Delhi-110011

ANNEXURE - I

Case No.: MRA-1048					
Name of the Power Line : <u>RENOVATION/UPGRADATION OF EXISTING 220 KV BOISAR - BORIWALI LINE FROM D/C TO M/C</u>		मानचित्र स्केल : 1 सेमी=500 मीटर कुल लम्बाई : 87.0 कि.मी. एस. आर. मान : 20,000 ओन-सेमी			
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BSNL DETAIL					
Ref. No: IC/MBI/PTCC/MRA-21/6		DATED: 02-08-2018			
R					
1	Valiv T.E to sector 2 pillar (015) 300 pair U/G cable.			IV less than	430V
2	Valiv T.E to Valiv Naka (0027) 200 pair U/G cable.				
S					
1	Sahvali T.E to Tungar Nagar pillar (0031) 200 pair U/G Cable.			IV less than	430V
2	Sahvali T.E to SR Patel pillar (0024) 200 pair U/G Cable				
T					
1	Juchandra T.E to Parera Nagar pillar (006) 200 pair U/G cable			IV less than	430V
2	Juchandra T.E to Donwaska pillar (007) 200 pair U/G cable				
V					
1	Kaman T.E to Kaman gach pillar (004) 400 pair U/G cable			IV less than	430V
W					
1	Sirsad T.E to Sirsad Naka (002) 100 pair U/G cable.			IV less than	430V
2	Sirsad T.E to Mandavi Naka/Range office (023) 200 pair U/G cable.				
X					
1	Virar (W) T.E to Exchange (P-21) 600 pair U/G Cable				
2	Virar (W) T.E to Sapanshi (P-45) 300 pair U/G cable				
3	Virar (W) T.E to Shrivastav (P-64) 800 pair U/G cable				
4	Virar (W) T.E to Shreebal Nagar (P-74) 800 pair U/G cable				
5	Virar (W) T.E to Gokul town (P-59) 300 pair U/G cable.				
6	Virar (W) T.E to Garden Meadows (P-34) 200 pair U/G Cable				

(Handwritten Signature)

नरेश कुमार/नरेश कुमार/IC/MBI/PTCC
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