

I/25340/2022



सत्यमेव जयते

भारत सरकार

Government of India

विद्युत मंत्रालय

Ministry of Power

केन्द्रीय विद्युत प्राधिकरण

Central Electricity Authority

विद्युत संचार विकास प्रभाग

Power Communication Development Division



ONE EARTH - ONE FAMILY - ONE FUTURE

Date: 23.12.2022

CEA Case No. : MRA-1205
PTCC proposal for AEML's 220 kV D/C transmission line modification for providing required clearances to upcoming NHSRCL (Bullet train) Project at village Vangaon, Dahanu – Both 220 kV LS D/C (DHN-GBR 1 & 2 ckt) & SS D/C (DHN-VSV & DHN-BOI ckt) transmission lines (LS line – 1.31 km & SS line – 1.31 km)

Reference:		
S. No.	Reference No.	Dated
(i)	M/s Adani Electricity Mumbai Ltd: AEML-MT/PROJECTS/STG/04/2022-23	10.06.2022
(ii)	BSNL: IC/MBI/PTCC/MRA-2565/03	21.11.2022
(iii)	Western Railway: SG.158/28/09/325 received via AEML email dated 22.12.2022	26.07.2022
(iv)	Defense: B/46937/ Sigs 7(b)/2961	24.08.2022

The PTCC proposal submitted vide reference (i) has been examined. The LF induction on telecom cables of BSNL and block & telecom circuits of Western Railway with respect to details furnished vide above reference (ii) and (iii) respectively has been computed. The voltages likely to be induced on paralleling telecom cables of BSNL and block & telecom circuits of Western Railway under Single Line to Ground fault condition are enclosed at Annexure-I & II respectively. The screening factors, as applicable, have been considered. Vide reference (iv) above, The Defence Authority have issued No Objection Certificate (NOC) (a copy enclosed as Annex-III).

Taking above into consideration, necessary action regarding issuance of PTCC route approval may be taken.

Encl.: As above.

Chief Engineer

To,

1.	Divisional Engineer (PTCC), Western Zone	BSNL; Inspection Circle, 3 rd Floor, D-Wing, BSNL Admin Building, Juhu Tara Road, Santacruz (West), Mumbai-400054.	
2.	GM (S&T)	Western Railway, O/o PCSTE, S&T Dept., 5 th floor, Station Building, Churchgate, Mumbai - 400020	With a request to henceforth, forward details of railway block and communication

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			circuit along with route map for IV calculation <i>to this office</i> with a copy marked to concerned DET PTCC.
3.	Dy. General Manager (Projects)	M/s Adani Electricity Mumbai Ltd., Adani Electricity Management Institute, Opp. SEEPZ Gate No. 3, Jogeshwari Vikhroli Link Road, Goregaon (E), Mumbai - 400065	Copy for information

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ANNEXURE – I

CEA Case No.: MRA-1205					
Name of the Power line: AEML's 220 kV D/C transmission line modification for providing required clearances to upcoming NHSRCL (Bullet train) Project at village Vangaon, Dahanu – Both 220 kV LS D/C (DHN-GBR 1 & 2 ckts) & SS D/C (DHN-VSV & DHN-BOI ckts) transmission lines		Map Scale : 1 cm=500 m Total Length : LS : 1.31 km SS : 1.31 km S.R. Value : 20,000 Ω-cm			
S.No.	Telecom. Details	Length of Parallelism in Km.	Mutual Coupling in Ohms.	Effective Fault current in Amps.	I.V in Volts.

BSNL Ref. No: IC/MBI/PTCC/MRA-2565/03		Dated: 21.11.2022			
	Vangaon Exchange				
1	Exchge to Station Pillar (100 Pairs)	Out of parallelism			0
2	Exchge to Vangaon Naka Pillar (100 Pairs)				0

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ANNEXURE – II

CEA Case No.: MRA-1205 Name of the Power line: AEML's 220 kV D/C transmission line modification for providing required clearances to upcoming NHRCL (Bullet train) Project at village Vangaon, Dahanu – Both 220 kV LS D/C (DHN-GBR 1 & 2 ckts) & SS D/C (DHN-VSV & DHN-BOI ckts) transmission lines			Map Scale : 1 cm=500 m Total Length : LS : 1.31 km SS : 1.31 km S.R. Value : 20,000 Ω-cm		
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.158/28/09/325		Dated: 26.07.2022			
1	Boisar - Vangaon	1.3	0.0003	10000	3
2	Vangaon – Dahanu Road	Out of parallelism			0