



भारत सरकार
Government of India
विद्युत मंत्रालय
Ministry of Power
केन्द्रीय विद्युत प्राधिकरण
Central Electricity Authority
विद्युत संचार विकास प्रभाग
Power Communication Development Division

CEA Case No. : MRA-1174 : 163 - 65
PTCC proposal for LILO of one circuit of 220 kV D/C Ahmednagar to Bhoze transmission line at proposed 400 kV Karjat S/S: 36.538 km

Reference:		
S. No.	Reference No.	Dated
(i)	MSETCL: MSETCL/CO/PS/PTCC/220kV/LD/B-573/No.28	01.01.2021
(ii)	BSNL: Telecom details received on 14.12.2021	
(iii)	Central Railway: N. 153/PTCC/200kV/MAH-768	14.01.2021
(iv)	Defense: B/46937/Sigs 7(b)/2292	06.04.2021

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

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

Encl.: As above.

राधेश प्रताप सिंह
२१.१.२२
Director

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.	Annexure-I & Annexure-III
2.	Dy CSTE/Tele	Central Railway; Headquarters Office, S&T Branch, 3 rd Floor, Annex Building, Mumbai-400001.	Annexure-II
3.	Chief Engineer (Projects Schemes)	MSETCL; O/o Chief Engineer, Projects Schemes Department, "Prakashganga", Plot No. C-19, E Block, Bandra-Kurla Complex, Bandra (East), Mumbai-400051.	Copy for information

(4)

(A)

(2)

Page No. 22

CEA office case No. - MRA-1174 Map scale - 1:50,000 Annexure-I / शतमूलक-1

DET (PTCC) office case No. - Route length - 36.538 km

Ranway office case no. - Soil resistivity - 10,000 Ω cm

Name of the power line - Lilo of circuit of Ahermadnagar - Bhose line at 400 kV Kalyan. (Bhose - Belwandi)

Sr. No.	Name of the Telecom line - cable	Length of Parallelism in Kms.	Mutual Coupling in Ohms	Fault Current in Amps	Induced Voltage in Volts
1	A to B Ghazgaon Exch.	} IV less than 430V			
2	C to D Belwandi Exch.				
3	E to F Loni Venkath Exch.				
4	G to H Pargaon Exch.				
5	I to J Sig Exch. to market				
6	H to K Sig Exch. to Coast.				
7	L to M Adhalgaon Exch.				
8	N to O Shedgaon Exch.				
9	Shambhara Barchaga to				
10	Bhambhara Market (P)				
11	P to Q				
12	Q to R				
13	P to S				
14	Shambhara stand (W) to Q				
15	S to T				
16	S to V				
17					
18					
19					
20					
21					

Jamini

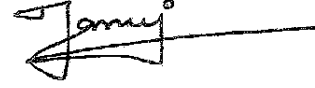
सहायक नि. 11/Asst. Director-I
 केन्द्रीय विद्युत प्राधिकरण/C.E.A.
 विद्युत मंत्रालय/Ministry of Power
 भारत सरकार/Govt. of India
 नई दिल्ली/New Delhi-66

(1/1)

ANNEXURE - II / अनुलग्नक-II

CEA Case No.: MRA-1174 Name of the Power line: LILO of one circuit of 220 kV D/C Ahmednagar to Bhose transmission line at proposed 400 kV Karjat S/S.			Map Scale : 1 cm = 500 m Total Length : 36.538 km S.R. Value : 10,000 Ω -cm		
S.No.	Telecom. Details	Length of Parallelism in Km.	Mutual Coupling in Ohms.	Effective Fault current in Amps.	I.V. in Volts.

Central Railway Ref. No: N.153/PTCC/220kV/MAH-768			Dated: 14.01.2021		
<u>Affected Blocks & Telecom Circuits Details</u>					
1	Kashti to Shrigonda Road	3.7	0.0009	6986	07
2	Shrigonda Road to Belvandi	14.1	0.0052	9893	52
3	Belvandi to Visapur	Out of Parallelism			00



सहायक निदेशक-II/Asstt. Director-II
केन्द्रीय विद्युत प्राधिकरण/C.E.A.
विद्युत मंत्रालय/Ministry of Power
भारत सरकार/Govt. of India
नई दिल्ली/New Delhi-66

Annezure-III / अनुलम्बक-III A-1174

Tele : 23019746

C.E.(Proj. & Schemes)	349
Date	04/05/2021

Directorate General of Signals
Signals 7
General Staff Branch
Integrated HQ of MoD (Army)
DHQ PO, New Delhi - 110011

B/46937/Sigs 7(b)/2292/

06 Apr 2021

Office of the Superintending Engineer,
Projects Schemes Department
Maharashtra State Electricity Transmission Company Ltd
"Prakashganga", Plot No C-19, 'E' Block,
Bandra - Kurla Complex, Bandra (East),
Mumbai-400051

**PTCC PROPOSAL FOR 220KV DC LINE, LILO ON ONE OF CKTS OF 220KV
AHMEDNAGAR-BHOSE DC LINE TO PROPOSED 400KV KARJAT S/S, DIST.
AHMEDNAGAR, LENGTH=36.538KMS**

1. Refer your letter No MSETCL/CO/PS/PTCC/220KV/LD/B-573/No 00028 dt 01 Jan 2021 (copy att).
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 forwarded herewith for your further action.

(A Rawat)
Lt Col
GSO 1 (Comn)
for SO-in-C

Enclosures : As above

Copy to :-

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

- for information

The DET (PTCC), Northern Zone
O/o PGM (North), QA & Inspection Circle,
D-Tax Building, Eastern Court, Janpath
New Delhi - 110004