



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

No.: CEA/PCD/ PTCC/MRA-1071/52-55

Date: 20.01.2021

Subject: PTCC proposal for 400 kV D/C Wardha to Aurangabad transmission line (upgradable to 1200 kV)-regd.

- Ref.: (i) PGCIL Ref. No. WRTS-I/WRD/W-A/TLC/1200/PTCC dated 14.10.2013
(ii) BSNL Ref. No. IC/MBI/PTCC/MRA-2158 dated 21.12.2015
(iii) Central Railway Ref. No. N.153/PTC/400kV/MAH-480 dated 13.12.2013 received in this office on 12.09.2018.
(iv) South Central Railway Ref. No. SG. 85/4/3/PTCC/PGCILM/Vol 23/8a dated 13.03.2014
(v) PGCIL Ref. No. PG/WRTS-I/ARG/TLC/1488 dated 14.12.2020.

The PTCC proposal submitted vide ref. (i) has been examined. Therefore, LF induction on telecom cables of BSNL and Block & Telecom circuits of Central Railway and South Central Railway with respect to details furnished vide above references (ii), (iii) & (iv) respectively has been computed. The Soil Resistivity (SR) value has been taken as 40,000 Ohm-cm. The voltages likely to be induced on paralleling telecom cables of BSNL and Block & Telecom circuits of Central Railway and South Central Railway under Single Line to Ground fault condition are enclosed at Annex-I, II & III respectively. The screening factors, as applicable, have been considered.

Power authority has shown urgency for charging this line vide ref. (v) above. In view of this kindly take necessary action regarding issuance of **provisional PTCC route approval for PTCC proposal for 400 kV D/C Wardha to Aurangabad transmission line (upgradable to 1200 kV).**

Encl.: As above.

उपेन्द्र कुमार
20.01.2021
(Upendra Kumar)
Chief Engineer

To,

- (i) Divisional Engineer (PTCC), Inspection Circle, Bharat Sanchar Nigam Limited (BSNL), 3rd floor, D-Wing, BSNL Admin Building, Juhu Tara Road, Santacruz (West), Mumbai-400054. (Annex-I only)
(ii) AESTE/TELE/HQ, Central Railway, Headquarters Office, S&T Branch, Annex Building, 3rd floor, Mumbai- 400001. (Annex-II only)
(iii) SSTE/TELE/HQ, South Central Railway, Head Quarters Office, Signal & Telecomm Branch, Rail Nilayam, Secunderabad-500071. (Annex-III only)

Copy to:- Chief Manager (TLC), Warda, PGCIL, WRTS-I, Ramayan Complex, 1st floor, VIP road, Baid Layout, Gitai Nagar, Nalwadi, Wardha-442001. **With an instruction to send the PTCC proposal to Directorate General of Signals Signals 7, General Staff Branch, Integrated HQ of MoD, (Army), DHQ PO, New Delhi-110011.**

M/C

ANNEXURE - I

Case No.: MRA - 1071 Name of the Power line: 400 KV D/C WARDA – AURANGABAD TRANSMISSION LINE. (upgradable to 1200 KV)			Map Scale : 1 cm= 500 m Total Length : 346.65 km S.R. Value : 40,000 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 DETAILS

Ref. No: IC/MBI/PTCC/MRA-2158 DATED: 21-12-2015

Affected Blocks & Telcom Circuits Details

1	Deoli Exch. - Chikani	}	IV less than 430V		
2	Deoli Exch. - Jamni				
3	Deoli Exch. - Sonegaon				
4	Agargaon Exch. - Palasgaon				
5	Agargaon Exch - Loni				
6	Sanora Exch. - Kolona				
7	Sanora Exch - Danegaon				
8	Sanora Exch - Nimghaan				
9	Sanora Exch - Babhulgaon (Bobde)				
10	Sanora Exch - Kavitgaon				
11	Sanora Exch - Sindri				
12	Sanora Exch - Talni (Bhagvat)				
13	Vijaygopal Exch. - Sumhe				
14	Vijaygopal Exch - Hirapur				
15	Vijaygopal Exch - Injhala				
A	Baulgaon Exch. - Naygaon				
B	Baulgaon Exch - Hastapur				
C	Baulgaon Exch - Sawangi				
D	Baulgaon Exch - Kopra				
E	Sarul Exch - Kharda				
F	Baulgaon Exch. - Raniamravali				
G	Savar Exch. - Galva				
H	Savar Exch - Bhiluksa				
I	Savar Exch - Pimpalgaon				

1/3

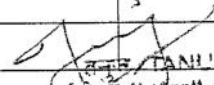
अनुम./TANUJ
 सहायक निरीक्षक-II/Asstt. Dir. or II
 केंद्रीय विद्युत प्राधिकरण/C.E.A.
 विद्युत मंत्रालय/Ministry of Power
 भारत सरकार/Govt. of India
 नई दिल्ली/New Delhi-66

ANNEXURE - I

Case No.: MRA - 1071		Map Scale : 1 cm= 500 m			
Name of the Power line: 400 KV D/C WARDA - AURANGABAD TRANSMISSION LINE. (upgradable to 1200 KV)		Total Length : 346.65 km			
		S.R. Value : 40,000 ohms-cm			
S.No.	Telecom. Details	Length of Parallelism in Km.	Mutual Coupling in Ohms.	Effective Fault current in Amps.	I.V in Volts.

J	Yavali Exch. - Mahahi		IV	less	than	430 V					
K	Yavali Exch.- Aalegaon										
L	Dabha Exch. - Pahur										
M	Dabha Exch.- Dehni										
N	Dabha Exch.- Chkli										
1	Manikwada Exch.- Brahman Wada										
2	Viffarwadona Exch. - Malkhed										
3	Sirasgaon Exch. - Mojhar										
33	Bodegaon Exch.- Damangaon										
34	Bodegaon Exch.- Ramgaon										
35	Lohi Exch.- Hatola										
36	Lohi Exch.- Karkheda to Aadgaon										
37	Tarnoli Exch.- Safefal										
38	Tarnoli Exch.- Nakhegaon										
39	Cikhli Exch.- Badagaon to Bhulai to Irthal										
40	Cikhli Exch.- Colbai										
41	Cikhli Exch.- mankopra										
43	Telegaon Exch.- Phupgaon										
44	Telegaon Exch.- Ghauapur										
45	Telegaon Exch.- Paloti										
46	Telegaon Exch.- Ghatkiuhi										
47	Magrulpir Exch. - Manora Road										
48	Magrulpir Exch.- Dastapur Road										
79	Magrulpir Exch.- Selu Bazar raod										
80	Magrulpir Exch.- Karanja Road										
81	Magrulpir Exch.- Magrulpir City										
MEHKAR & LONAR SDCA											
1	Bibi Exch. - Mandwa Village										

2/3


 S. K. TANI
 सहायक निरीक्षक-II/Asstt. Dir. M. I.
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 भारत सरकार/Govt. of India
 नई दिल्ली/New Delhi-68

ANNEXURE -II

Case No.: MRA - 1071 Name of the Power line: 400 KV D/C WARDA – AURANGABAD TRANSMISSION LINE(upgradable to 1200 kV)		Map Scale : 1cm=500 m Total Length : 346.65 km S.R. Value : 40,000 ohms-cm			
S.No.	Telecom. Details	Length of Parallelism in Km.	Mutual Coupling in Ohms.	Effective Fault current in Amps.	I.V in Volts.

CENTRAL RAILWAY					
Ref. No: N.153 / PTCC / 400KV / MAH -480 DATED: 13-12-2013					
Affected Blocks & Telecom Circuits Details					
WARDA – PULGAON					
1	Warda - Dahegaon	1.8	0.0007	14745	10
2	Dahegaon - Kaotha	3.4	0.0010	14612	15
3	Kaotha – Pulgaon	Outside IV consideration zone			00
WARDA – SONEGAON					
1	Warda – Chitoda	Outside IV consideration zone			00
2	Chitoda - Bhugaon	Outside IV consideration zone			00
3	Bhugaon – Sonegaon	Outside IV consideration zone			00

Tanuj

तनुज / TANUJ
 सहायक निदेशक-II/Asst. Dir. or II
 केन्द्रीय विद्युत प्राधिकरण/C.E.A.
 विद्युत मंत्रालय/Ministry of Power
 भारत सरकार/Govt. of India
 नई दिल्ली/New Delhi-65

ANNEXURE-III

Case No.: MRA - 1071 Name of the Power line: 400 KV D/C WARDHA – AURANGABAD TRANSMISSION LINE. (upgradable to 1200 KV)			Map Scale : 1 cm=500 m Total Length : 346.65 km S.R. Value : 40,000 ohms-cm		
S.No.	Telecom. Details	Length of Parallelism in Km.	Mutual Coupling in Ohms.	Effective Fault current in Amps.	I.V in Volts.

SOUTH CENTRAL RAILWAY					
Ref. No: SG. 85 / 4 / 3 / PTCC / PGCILM / Vol 23 / 8a DATED: 13-03-2014					
Affected Blocks & Telecom Circuits Details					
	NANDED				
1	Jalna -Badnapur	13.6	0.0071	9865	70
2	Badnapur - Karmad	7.3	0.0019	8762	17
3	Jaulka – Kata Road	6.8	0.0091	7813	71
4	Kata Road – Washim	2	0.0007	11273	08



तनुज / TANUJ
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