

भारत सरकार **Government of India** विदयत मंत्रालय **Ministry of Power** केन्द्रीय विद्युत प्राधिकरण **Central Electricity Authority** विद्युत संचार विकास प्रभाग

Power Communication Development Division

Case No.: GUJ-751:

PTCC proposal of 400 kV D/C transmission line from Wanakbori TPS Unit 8 to existing switchyard at Wanakbori TPS [Interlink between switchyard] with twin AL-59 conductor: 1.364 km

Reference	16-090-2021	
S. No.	Reference No.	Dated
(i)	GETCO:CE(Project)/EE(Tr3)/2521	08.03.2018
(ii)	BSNL: IC/MBI/PTCC/GUJ-2550	20.02.2019
(iii)	Western Railway: SG. 158/28/12(1024) (details received on 20.01.2021)	17.12.2020
(iv)	Defense: B/46937/ Sigs 7(b)/1093	31.07.2018

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 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 Western 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 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.

To,

Director

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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 only
2.	Dy. CSTE/Co/CCG.	Western Railway; O/o CSTE, S&T Dept., 5 th floor, Station Building, Churchgate, Mumbai-400020.		Annexure-II only
3.	I/C Chief Engineer (Project)	GETCO; Sardar Patel Vidyut Bhavan, Race Course, Vadodara-390007.		Copy for information

एन आर पी सी परिसर, कटवारिया सराय, नई दिल्ली-110016 टेलीफैक्स: 011-26565214 ईमेल: cepcd.cea@gov.in वेबसाइट: www.cea.nic.in NRPC Complex, Katwaria Sarai, New Delhi-110016 Telefax: 011-26565214 Email: cepcd.cea@gov.in Website: www.cea.nic.in

ANNEXURE - II

Name o Wanaki	see: GUJ-751 **Sthe Power line: 400 kV D/C transmission **Doori TPS Unit 8 to existing switchyard at V between switchyard] with twin AL-59 co	Vanakbori TPS [Map Scale Total Lengti S.R. Value	: 1 cm=500 m 1: 1.364 km : 5,000 ohm-cn	1
S.No.	Telecom. Details	Length of Parallelism in Km.	Mutual Coupling in Ohms.	Effective Fault current in Amps.	I.V in Volts.
	WESTERN RAIWAY Ref. No: SG	. 158/28/12(1024)	D	ated: 17-12-2020	
		& Telcom Circui			
1	ANGADI - SEVALIYA	Outside	IV Considera	tion Zone	00
2	SEVALIYA – TIMBAROAD	Outside	IV Considera	tion Zone	. 00
3	TIMBAROAD – TUVA	Outside	IV Considera	tion Zone	00

तन्ज/Tanuu समायक निरंशिक-U/Absti Duector-II केतीक किबुल ग्राहिक्टरका/C.E.A. विकृत केताको/Alir istry of Por का कारत करकार/Cevt, of India महिलों/New Beini

Map scale- 1 Cms = 500 Meters GUJ-751 CEA Office Case No.----1.364 ŀ.îVls Route Length-DET (PTCC) Price Case No. 2550 Soil Resistivity- 2020 - Ohm/GW3 5,000 S- Cm Railway Of ... - Case No. Name of Power Line:400 KV D/C line from Wanakbori TPS Unit-8 to existing Switchyard at Wanakbori TPS (Interlink (Annekure-I) Between Switchyard) with Twin AL-59 Conductor. DETAILS FROM POWER COMPANY **DETAILS FROM BSNL SIDE** Length of Mutual Fault Current in Induce Voltage in parameter in coupling in Name of the Telecom line/Cable SI.No. KM Ohms Amp Volts VADASINOR EXCHANGE 1 1A Vadasinor Ex-. Local -1200*1 P Vadasinor Ex-. Local -800*1 P 2A 3A Vadasinor Ex-. Local -400*1 P VANGROLI EXCHANGE 2 1B Vangroli Ex-Local- 200x1P 2B Vangroli Ex-Local-50x1P SEVALIA EXCHANGE 3 10 Sevalia Ex-Local-400x1P Sevalia Ex-Local-400x1P 20 3C Sevalia Ex-Local-200x1P Sevalia Ex- Local- 100x1P 40 4 WTPS EXCHANGE Jess WTPS Ex- Local 400x2+200*2 P 1D WTPS Ex- Local -200*1 P 2D 5 VANODA EXCHANGE

Vanoda Ex-Local -200*1 P

Vanoda Ex-Local -100*1 P

1E 2E

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तन्त /TANU समयक निर्देशक II/Assit. Unector II केन्सीब बिधुन प्राधिकरम/C.E.A. विपुन मंत्रात्व / Ministry of Poses भारत मरका /Govt. of India नई किल्बी / New Dollnies Tele: 23019746

(Annexure 7115 (50 - 751)

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

B/46937/Sigs 7(b)/1093 /

ું Jul 20<mark>18</mark>

Gujarat Energy Transmission Corporation Ltd. Chief Engineer (Project) Sardar Patel Vidyut Bhavan, Race Course, Vadodara-390 007

SUBMISSION OF PROPOSAL FOR HV/EHV TRANSMISSION LINE OF GETCO FOR PTCC APPROVAL FOR 400 KV D/C LINE FROM WANAKBORI TPS UNIT 8 TO EXISTING SWITCHYARD AT WANAKBORI TPS (INTERLINK BETWEEN SWITCHYARD) WITH TWIN AL – 59 CONDUCTOR

- 1. Reference your letter No CE(Project)/EE (Tr-3)/ 2521 dt 08 Mar 2018 (copy att).
- 2. No Objection Certificate (NOC) is accorded based on inputs provided vide Map sheet received under your letter mentioned above.
- 3. Documents alongwith map sheets (in original) are returned herewith for your further necessary action.

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

Copy to :-

Director(PTCC)
Central Electricity Authority
Power Communication Development Division
NRPC Complex,18-A, Shaheed Jeet Singh S Marg
Katwaria Sarai, New Delhi – 110016

- For information.