

File No.CEA-PS-17-11(12)/42/2022-PCD Division / 4-63-464



आवादीक
अमृत महोत्सव

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

के.वि.प्रा. केस सं. : GUJ-786
पी.टी.सी.सी. प्रस्ताव 220 kV D/C Shapar – Babra line (70.358 km)

क्रमांक	सन्दर्भ सं.	दिनांक
(i)	GETCO: CE(Project)/EE (Tr.-3)/5764	21.05.2019
(ii)	BSNL: IC/MBI/PTCC/WGJ050420192407_WGJ300520192454_ WGJ011120213608	06.06.2022
(iii)	Western Railway: SG. 158/28/12/1113	17.09.2019
(iv)	Defense: B/46937/Sigs 7(b)/1647	09.07.2019

संदर्भ (i) द्वारा प्रस्तुत पीटीसीसी प्रस्ताव की जांच की गई है। बीएसएनएल के टेलिकॉम केबलों पर निम्न आवृत्ति प्रेरण गणना उपरोक्त संदर्भ (ii) में दिए गए विवरणों के संबंध में की गयी है। सिंगल लाइन टू ग्राउंड फाल्ट अवस्था में समानांतर बीएसएनएल के टेलिकॉम केबलों के ब्लॉक एवं टेलिकॉम सर्किटों पर प्रेरित वोल्टेज अनुलग्नक -I में संलग्न है। स्क्रीनिंग कारक का मान यथानुरूप लिया गया है। पश्चिम रेलवे ने उपरोक्त संदर्भ (iii) के द्वारा अनापत्ति प्रमाण पत्र जारी किया है। रक्षा प्राधिकरण ने उपरोक्त संदर्भ (iv) के द्वारा अनापत्ति प्रमाण पत्र जारी किया है (अनुलग्नक -II में संलग्न)।

उपरोक्त को ध्यान में रखते हुए, पीटीसीसी मार्ग अनुमोदन जारी करने के संबंध में आवश्यक कार्रवाई की जाए।

संलग्न: उपरोक्त अनुसार

शा.के.के. प्रमाणित
09.06.2022
निदेशक

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.	Annex-I only
2.	Chief Engineer (Project)	GETCO, Sardar Patel Vidyut Bhavan, Race Course, Vadodara - 390007	For info



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Power Communication Development Division

CEA Case No. : GUJ-786
PTCC proposal of 220 kV D/C Shapar – Babra line (70.358 km)

Reference:		
S. No.	Reference No.	Dated
(i)	GETCO: CE(Project)/EE (Tr.-3)/5764	21.05.2019
(ii)	BSNL: IC/MB/PTCC/WGJ050420192407_WGJ300520192454_ WGJ011120213608	06.06.2022
(iii)	Western Railway: SG. 158/28/12/1113	17.09.2019
(iv)	Defense: B/46937/Sigs 7(b)/1647	09.07.2019

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

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

Encl.: As above.

राधेशंकर प्रताप सिंह
Director 09.06.2022

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.	Annex-I only
2.	Chief Engineer (Project)	GETCO, Sardar Patel Vidyut Bhavan, Race Course, Vadodara - 390007	For info

Annex I

CEA Office Case No. - 605-786		Map scale- 1 Cms = 500 Meters			
DET (PTCC) Office Case No.: 2814		Route Length- 70.358 KMs			
Railway Office Case No.		Soil Resistivity : 10,000 Ohm*CM ²			
Name of Power Line: 220 KV D/C Shapar S/S - Babra S/S Line with AL-59 Conductor.					
DETAILS FROM BSNL SIDE			DETAILS FROM POWER COMPANY		
Sl.No.	Name of the Telecom line/Cable	Length of parameter in KM	Mutual coupling in Ohms	Fault Current in Amp	Induce Voltage in Volts
1	BABRA EXCHANGE				
1A	Babra Exch.- Local- 800 *1 P				
2A	Babra Exch.- Local- 400 *1 P				
3A	Babra Exch.- Local- 800 *1 P				
4A	Babra Exch.- Kariyana Rd1- 800 *1 P				
2	CHAMARDI EXCHANGE				
1B	Chamardi Exch.- Local-- 200 *1 P				
2B	Chamardi Exch.- Kanvagar Rd- 100+50 *1 P				
3B	Chamardi Exch.- Jivapar Rd- 100+50 *1 P				
4B	Chamardi Exch.- Charkha Rd- 200+50 *1 P				
5B	Chamardi Exch.- Local- 200*1 P				
3	KOTDAPITHA EXCHANGE				
1C	Kotdapitha Exch.- Local- 100*1 P				
2C	Kotdapitha Exch.- Local- 200*1 P				
3C	Kotdapitha Exch.- Local- 100*1 P				
4C	Kotdapitha Exch.- Local- 200*1 P				
5C	Kotdapitha Exch.- Local- 100*1 P				
4	VANKIA EXCHANGE				
1D	vankia Exch.- Local- 50*1 P				
2D	vankia Exch.- Local- 50*1 P				
3D	vankia Exch.- Local- 50*1 P				
4D	vankia Exch.- Local- 100*1 P				
5	JASDAN EXCHANGE				
1E	Jasdan Exch.- local- 1200*1 P				
2E	Jasdan Exch.- local- 1200*1 P				
3E	Jasdan Exch.- local- 1200*1 P				
4E	Jasdan Exch.- local- 100*1 P				
5E	Jasdan Exch.- local- 100*1 P				
6	LILAPUR EXCHANGE				
1F	Lilapur Exch.- Local- 20*1 P				
7	VINCHHIYA EXCHANGE				
1G	Vinchhiya Exch.- local-400*1 P				
2G	Vinchhiya Exch.- local-400*1 P				

IV less than 30

Prateek

प्रतीक श्रीवास्तव / PRATEEK SRIVASTAVA
 सहायक निदेशक-I / Asstt. Director-I
 केन्द्रीय विद्युत प्राधिकरण / C.E.A.
 विद्युत मंत्रालय / Min. of Power
 भारत सरकार / Govt. of India
 नई दिल्ली / New Delhi-66

Tele : 23019746

Annex-II
GUS-786

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

B/46937/Sigs 7(b)/1647/

09 Jul 2019

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

**SUBMISSION OF PROPOSAL FOR HV/EHV TRANSMISSION LINE OF GETCO FOR PTCC
APPROVAL OF 220KV D/C SHAPAR-BABRA LINE WITH AL-59 CONDUCTOR HAVING LINE
LENGTH 70.358KM**

1. Ref your letter No CE(Project)/EE(Tr.-3)/5764 dt 21 May 2019 (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 returned herewith for your further necessary action.



(A Rawat)
Maj
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.