

भारत सरकार Government of India विद्युत मंत्रालय Ministry of Power केन्द्रीय विद्युत प्राधिकरण Central Electricity Authority पावर कम्युनिकेशन डवलप्मेंट प्रभाग Power Communication Development Division

No. CEA/PCD/PTCC/RAJ-586/ 3/9 -32/

Date: 19/03/2019

DET (PTCC), Northern Zone, Bharat Sanchar Nigam Limited (BSNL), O/o PGM(N), Inspection Circle, CTS Compound, Netaji Nagar, New Delhi - 110023

Subject: PTCC Route Approval for 400 kV D/C Bhilwara - Ajmer Transmission line

Reference:

- i) BSNL letter no. DET/PTCC/ND/DV-9251/Raj-1107/2018-19 dated 22.02.2019
- ii) Northern Western Railway letter no. SG/158/NWR/PTCC/629 dated 21.11.2016
- iii) Defense letter no. B/46937/Sigs 7(b)/417/ dated 06.02.2017

Sir,

It is to inform that RRVPNL had submitted the PTCC proposal for the above line in the past also. CEA had conveyed induction details vide letter no. CEA/LD&T/PTCC/RAJ-518 dated 12/5/14 wherein all induced voltage values, both at BSNL and NW Railway telecom circuits, were within safe limit except at Gegal-Nokha BSNL telecom circuit. Based on CEA's IV comments, BSNL had issued RAC vide letter no. PTCC (T)/DV-8923/Raj-952 dated 16/5/14.

Subsequently, RRVPNL has submitted revised PTCC proposal for the above line where in route of the power line was slightly changed from 400kV Ajmer substation, to avoid parallelism of Gegal-Nokha BSNL telecom circuit.

The low frequency induction on BSNL and North Western Railway telecommunication circuits as per details furnished vide above cited references (i) and (ii) respectively has been examined. The average soil resistivity value has been taken as 25000 Ohms-cm, as per data submitted by Power Authority. Voltages likely to be induced on paralleling BSNL and North Western Railway telecommunication circuits under SLG (Single Line to Ground) fault condition are enclosed at Annex-I & II respectively. The screening factors as applicable have been considered. Vide ref. (iii) above, Defense Authority have issued No Objection Certificate (NOC), a copy is enclosed at Annex-III.

Taking above into consideration, kindly issue PTCC Route Approval.

Encl: As above

MIC

Yours faithfully,

(Naresh Bhandari) Chief Engineer Case No.: RAJ - 586

Annexure I

Toposheet Scale : 1cm=500mts Total Length : 160 Kms S.R. Value : 25,000 Ohm-cm

Name of the Power Line: 400 KV D/C Bhilwara-Ajmer Transmission Line

SI. No.	Name of Telecom Line	LOP in Kms	MC in Ohms	Fault Current (Amps)	IV in Volts
BSNL Reference	NO. DET/PTCC/ND/DV-4251/RAJ-1107/	Date: 22,	/-/19		
	BSNL Details				
1	Nasirabad Exch.to Tramji Chowk, Mochi Bazar				
2	Nasirabad Exch.to RSEB DILIa, IOC				
3	Nasirabad Exch.to Sanskrit Pathshala				
4	Nasirabad Exch. to Ramleela Chowk				
5	Nasirabad Exch. to Gandhi Chowk				
6	Nasirabad Exch. to Tehsil Rly Stn				
7	Nasirabad Exch. to Kripal Bhawan		-		
8	Nasirabad Exch. to Inner Zone				
0	Srinagar Exch. to Srinyes Khera Bus Stand				
10	Srinagar Exch. to Joint Highway	X-11 10	s than 4	30 V	-
11	Srinagar Exch., to Inside Village	1			
12 .	Elhatiya Exch. to Malio Ka khera Joint		1		
13	Elhatiya Exch. to Gujar Mohalla				
	BDN Exch to Pillar 1				
14	EIDN Exch to Pillar 2 & BDN Village				
15	BDN Exch toBishram Badi		<u> </u>		
16	BDN Exch to Khedi		1.4		
17	Sareri Exch. to Kanwaliash		1 1/\	1	
18	Sareri Exch. to Kanwaliasii Sareri Exch. to Sangam		. 1		
19	JLA Exch to Khutiya Gaon	+}	नरेश भंडारी/NARI	CH CHANDARI	
20			भारत अभियन्ता / 🕻	chief Engineer	
			केलीय विश्वत प्रा विश्वत मंत्रालय/Mi	nistry of Power	1.
		-	मारत सरकार/ मई दिल्ली/Ne	Sovt. of India	
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	o.: RAJ-586	ANNEXURE – II				
	of the Power line: PTCC route appro ilwara- Ajmer line	oval for 400 KV	Map Scale : 1cm=500mts Total Length : 160.0Km. S.R. Value : 25,000 Ohms			
S.No.	Telecom. Details	Length of Parallelism in Km.	Mutual Coupling in Ohms.	Effective Fault current in Amps.	I.V in Volts	
	TH WESTERN RAILWAY SG/158/NWR/PTCC/629 DAT	ED:21.11.2016				
		ED.21.11.2016				
Affecte	d Blocks & Telcom Circuits Details					
1.	MADAR- LADPURA		Out Of //sm			
2.	LADPURA - GEGAL AKHRI	3.25	0.0153	10000	153	
3.	GEGAL AKHRI - KISHANGARH	1.25	0.0100	10000	100	
4.	RAJOSI - NASIRABAD		Out Of //sm			
5.	NASIRABAD - JHARWASA	-	Out Of //sm			
6.	JHARWASA - BANDANWARA	8	0.0046	8000	37	
7	BANDANWARA - SINGWAL	8.5	0.0640	6000	384	
8	SINGWAL - MOKHAMPURA	5	0.0400	6000	240	
9	MOKHAMPURA - BIJAINAGAR	5.5	0.0160	6000	96	
10	BIJAINAGAR - RUPAHELI				0	
11	RUPAHELI - SARERI					
12	SARERI - RAILA ROAD		Out Of //sm			
13	RAILA ROAD - LAMBIA					
14	BHILWARA - MADAPIYA					
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			/_			
			नोश भंडारी/NARES	H BHANDARI		
			कुल्य अभियन्ता/Chief Engineer केन्द्रीय विद्युत प्राधिकरण/C.E.M. विकास संघालय/Ministry of Power			
			भारत सरकार/G नर्द दिल्ली/Nev	ovt. of India		
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Tele: 33690

ROJ- 586

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

B/46937/Sigs 7(b)/417/

മ6 Feb 2017

Executive Engineer (PTCC) Vidyut Bhawan, Room No 129. Janpath, Jaipur - 302005

REVISED PTCC CASE OF 400 KV D/C BHILWARA - AJMER LINE

- Reference your letter No. RVPN/XEN(PTCC/JPR/F.1752-A/ D.271 dt 02 Nov 2016.
- 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 necessary action.

(Roopesh Srivastava)

Lt Col

GSO 1 (Comn)

for SO-in-C

Encls : As above

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

for information.