



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/GUJ-789/20 - 22

Date: 08.01.2020

DET (PTCC), Western Zone, Bharat Sanchar Nigam Limited (BSNL), O/o DET(PTCC), QA & Inspection Circle, 3rd Floor, D-Wing, BSNL Admin Bldg., Juhu Tara Road, Santacurz (West), Mumbai – 400054.

Subject: Induced Voltage calculation in respect of PTCC proposal of 220 kV D/C Transmission line from 765/400/220 kV Bhuj Pool S/S (PGCIL) to proposed 220 kV Valka Nana S/S of Alfanar Energy Private Limited.

- Ref: (i) Alfanar Energy Private Limited letter no. AEPL/19-20/220 kV EHV line/002 dated 03.08.2019
 - (ii) BSNL letter no. IC/MBI/PTCC/GUJ-2807 dated 16.09.19
 - (iii) Western Railway letter no no. SG.158/28/12/1128 dated 17.09.19
 - (iv) Defense letter no. B/46937/Sigs 7(b)/1773/ dated 31.10.19

The PTCC case submitted vide reference (i) has been examined. The low frequency induction on BSNL Telecommunication circuits as per details furnished vide above references (ii) has been examined. The Soil Resistivity value has been taken as 15,000 Ohms-cm, as per data submitted by Power Authority. Voltages likely to be induced on paralleling BSNL Telecom Cables under single line to ground fault condition are enclosed at Annex-I. The screening factors as applicable have been considered. Western Railway vide above ref (iii) informed that Railway lines are out of 8 km area of the proposed power line, hence no need to calculate induced voltages. Defense has accorded NOC vide above Ref.(iii) for the line (a

Taking above into consideration, kindly take necessary action regarding issue of PTCC route approval.

Encl.: As above

(Upendra Kumar) **Chief Engineer**

Copy to:

मुख्य अभिवंता/Chief Engineer

1. Office of CSTE, Western Railway, S&T Dept., 5th Floor, Station Building, Churchgard Municipal Ministry (1997) 2. Alfanar Energy Private Limited,4th Floor 419-424 LMD MEGAPOLIS, Sector 48, Sohana Road Corgannale नई दिल्ली/New Delhi

	Office Case No G. UJ - 7 8 9 (PTCC) Office Case No. 2807	Map scale-	1 Cms - 500 a		An
Italiway Office Case N		Map scale- 1 Cms = 500 Meters Route Length- 65.01 KMs			
Name of Power Line . 220		Soil Resistivity			
Privat	e Limited to 765/400/220 w	line from 220	(V (Nana V)	Ohm.Cm	
	te Limited to 765/400/220 KV Bhuj Pool (DETAILS FROM BSNL SIDE	PGCIL) S/S on E)/C Towar) PSS END of	M/s Alfanar Energy
	DETAILS FROM BSNL SIDE		- rower with	AI-59 Zebra C	onductor.
		DETAILS EPONA DOLL			
I.No.	Name of the Telecom line/Cable	Length of	Mutual	Fault	
under the second		KM	coupling in	Current in	Induca Valu
1A	NIRONA EXCHANGE	1.1.01	Ohms	Amp	Induce Voltage in Volts
	Nirona Ex-, Local 100x1+20x2P	2			VOILS
	Tylrona Ex Local 50x1P				
3A	Nirona Ex Local 20x3P				
2	UGEDI EXCHANGE				
1B	Ugedi Exch Pillar- 400*1 P				
. B	Jgedi Exch Ratadiva - 50 *1 p				
3 R	RAWAPAR EXCHANGE				
C R	awapar Exch Local- 800*1 P	-IV	less than	1. 0	
C R	awapar Exch GEB- 100*1 P		The state of the s	430V -	
C Ra	awapar Exch Vigodi- 100*1+20*1 P				
Ra	awapar Exch Local- 20*1 P				
4 W	ALKA NANA EXCHANGE				
W	alka nana Exch Local- 100*1 P				
	- Local- 100*1 p				

Signature & Seal of Concern SDE/DET

08.01.2020

मुख्य अभिनेता/Chief Engineer केन्द्रीय बिन्न क्षेत्र स्था/C.E.A. विद्युत मंत्रालग्रात heading of Power पारत संस्कार/Govt. of India नई दिल्ली/New Delhi

Tele: 23019746

Directorate General of Signals
Signals 7
General Staff Branch
Integrated HQ of MoD, (Army)

DHQ PO, New Delhi - 110011

3 | Oct 2019

B/46937/Sigs 7(b)/1773/

Alfanar Energy Private Limited 4th Floor 419-424 JMD Megapolis, Sector-48, Sohana Road, Gurgaon-122 002, Haryana

SUBMISSION OF PROPOSAL FOR PTCC APPROVAL OF PROP. 220KV D/C TRANSMISSION LINE FROM 765/400/220KV BHUJ POOL SS (PGCIL) TO PROP 220KV VALKA NANA SS OF ALFANAR ENERGY PRIVATE LIMITED DIST KUTCH GUJARAT

- 1. Ref your letter No AEPL/19-20/220KV EHV Line/002 dt 03 Aug 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

Divisional Engineer Telegraph (PTCC)
O/o GM (North); BSNL, QA & Inspection Circle,
CTS Compound, Africa Avenue Road,
Netaji Nagar, New Delhi-110023

for information