सत्यमेव जयते

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

सं.: के.वि.प्रा./पी.सी.डी/जी.यु.जे-696/ 2563-65 **दिनांक:10/12/2018**

Divisional Engineer (PTCC), Inspection Circle,
Bharat Sanchar Nigam Limited (BSNL),
3rd Floor, D-Wing, BSNL Admin Building
Juhu Tara Road, Santacruz (West)
Mumbai-400054

Subject: PTCC Proposal of 220kV D/C & M/C Line from Wind farm of M/s INOX Renewable Ltd.(IWISL) at Sukhpur to Amreli S/S.

Ref: i) BSNL Letter No. IC/MBI/PTCC/GUJ-2225, Dated-29/09/2016.
ii) Dy. CSTE/PLG/CCG. WR, Mumbai, Letter No. SG.158/28/10(478), Dated 22/02/2016.

Sir,
The low frequency induction on BSNL and 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 10,000 Ohms-cm, as per data submitted by Power Authority. Voltages likely to be induced on paralleling BSNL and Railway Telecommunication circuits under single line to ground fault condition are enclosed at Annex-I&II respectively. The screening factors as applicable have been considered.

As the power Authority had submitted the instant case before the decision of consideration of Defense, the requirement Defense Telecom details may be waived.

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

Encl: As above

Yours faithfully,

10/12

(नरेश भंडारी)
मुख्य अभियंता

Copy to:

1. GM (S&T), Western Railway, Office of CSTE, S&T Dept., 5th Floor, Station Building, Churchgate, Mumbai-400020 (With annexure-II Only).

2. Chief Engineer(Projects), Sardar Patel Vidyut Bhavan, Race Course, Vadodara, Gujarat-390007

एन आर पी सी परिसर, कटवारिया सराय, नई दिल्ली-110016 टेलीफैक्स: 011-26565214 ईमेल: nbnareshbhandari@gmail.com
NRPC Complex, Katwaria Sarai, New Delhi-110066 Telefax: 011-26565214 Email: nbnareshbhandari@gmail.com Website: www.cea.nic.in

Case No. : GUJ-696			Map Scale: 1:50,000 Annexure-I		
DET (PTCC) Office Case No IC/MBI/PTCC/GUJ-2225 Dated : 27.09.2016			Route Length: 39.513 KM		
			Average SR Value: 10,000 Ω _cm		
Name of Power Line	220 KV D/C & M/C Line from Wind Farm of M/s INOX Renewable Ltd.(IWISL) S/S at Sukhpar to Amreli S/S.				

S.No.	Name of Telecom Line/ Cable	Length of Parallelism in Kms.	Mutual Coupling in Ohms	Faults Current in Amps	Induce Voltage in Volts
1	Chital Exch to Local-400+100*2+50*4 P	OUT OF PARALLELISM			
2	Chital Exch to Local-400 P				
3	Chital Exch to Local-400+100*2 P				
4	Chita Exch to Monpur-100+20 P				
5	Chital Exch to Local-200 +50*3P				
6	Chital Exch to Shedubhar-100 +50*2P	2.5	0.031	9000	279
7	Ingorala Exch to Local -200 P	IV LESS THAN 430 V			
8	Ingorala Exch to Local -50*2 P				
9	Ingorala Exch to Bhitadi -50 P				
10	Ingorala Exch to Bhitta -20 P				
11	Ingorala Exch to Local -100 P				
12	Ingorala Exch to Amarvajpur -50 P				
13	Chamardi Exch to Local-100 P				
14	Chamardi Exch to Local-50 P				
15	Chamardi Exch to Local-20 P				
16	Chamardi Exch to Valardi-100+50 P				
17	Chamardi Exch to Kuwargadh-Amarvajpuri-50+20 P				
18	Babra Exch to Local-800+100*4+50*5 P				
19	Babra Exch to Local-400+100*2+50*5 +20*10 P				
20	Babra Exch to Local-				
21	Babra Exch to Galkotdi-50*2 P				
22	Babra Exch to Khakharia-50*2 P				
23	Babra Exch to Kariya-100 P P				
24	Babra Exch to Nlbrad-50 P P				
25	Vankia Exch to Local-100 +50 P	OUT OF PARALLELISM			
26	Vankia Exch to Local-100 +50 P				
27	Vankia Exch to Sukhpar-50 P				
28	Vankia Exch to Khambhala-100 P				
29	Vankia Exch to Lalka-50 P				
30	Nana Ankadiya-Local- 50 P				
31	Nana Ankadiya-Machiyala- 50 P	1.5	0.06	10000	600
32	Nana AnkadiyaSangadar- 20*2 P	OUT OF PARALLELISM			
33	Nana Ankadiya-Vaniavadar- 50 P				
34	Nana Ankadiya-Local- 100 P				
35	Nana Ankadiya-Daida-100 P				
36	Nana Ankadiya-Ravadiya-Randhiya-50 P				

मुख्य अभियन्ता/Chief Engineer
केन्द्रीय विद्युत प्राधिकरण/C.E.A.
सेवा भवन, आर.के. पुरम,
Sewa Bhawan, R.K. Puram,
नई दिल्ली-66 / Delhi-66

Annexure-II

Case No. : GUJ-696 Name of Power Line:220 KV D/C & M/C Line from Wind Farm of M/s INOX Renewable Ltd.(IWISL) S/S at Sukhpar to Amreli S/S.	Map Scale: 1cm=500 mts. Route Length: 39.513 Km Average SR Value: 10,000 Ω _cm

S.No.	Telecom. Details	Length of Parallelism in Km.	Mutual Coupling in Ohms.	Effective Faults Current in Amps.	I.V in Volts
WESTERN RAILWAY					
Ref. no. SG.158/28/10(478)				**Dated: 22-02-2016**	
Affected Blocks & Telecom Circuits Details					
1	Lunidhar-Chital	OUT OF PARALLELISM			
2	Chital-Khijadiya	1.4	0.00048	9899	5
3	Khijadiya-Lathi	OUT OF PARALLELISM			
4	Khijadiya -Amreli	6.1	0.00493	10000	49
5	Amreli-Chalala	OUT OF PARALLELISM			

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Sewa Bhawan, R.K. Puram,
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