

I/28203/2023



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

CEA Case No. : GUJ-841		
PTCC approval for LILO of 220 kV Jetpur – Visavadar line at proposed 220 kV Bhesan SS - regd.		
S. No	Reference No.	Dated
(i)	GETCO: CE(Project)/SE(Planning)/5457	28.09.2022
(ii)	GETCO: 2022-23/CDJ/34-B/PTCC/220KVLILO to Bhesan Line/2876	21.02.2023
(iii)	BSNL: IC/MBI/PTCC/WGJ170220234662_WGJ020320234744_WGJ280320234810	28.03.2023
(iv)	Western Railway: SG/158/28/12/1234	18.01.2023
(v)	Defense: B/46937/Sigs 7(b)/3068	19.12.2022

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

EPR Zones for proposed substations are mentioned below.

Name of the proposed SS	Half Diagonal Distance, D/2 (mts)	Fault Current, I (kA)	Resistance of earthmat, R (Ohms)	d (mts) at 430 V	d (mts) at 650 V	d (mts) at 7 kV	d (mts) at 10 kV
220 kV Bhesan SS	130.4	28	0.142	1075.2	667.1	NIL	NIL

As per the details submitted by BSNL vide reference (iii) above, no telephone exchanges are falling in the EPR zone of the proposed 220 kV Bhesan SS.

Taking above into consideration, necessary action for issuance of PTCC route approval may be taken under intimation to this office.

Encl.: As above

Chief Engineer

To,

1.	Divisional Engineer (PTCC), Western Zone	QA & Inspection circle, 1 st floor, D- wing, BSNL Admin Bldg., Junu Tara Road, Santacruz (West), Mumbai-400054	
2.	Chief Engineer (Project)	GETCO, Sardar Patel Vidyut Bhavan, Race Course, Vadodara – 390007	For kind information

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ANNEXURE-I

CEA Case No.: GUJ-841		Map Scale : 1 cm= 500 m			
Name of the Power line: LILO of 220 kV Jetpur – Visavadar line at proposed 220 kV Bhesan SS		Total Length : 3.38 km			
		S.R. Value : 7,500 Ohm-cm			
S.No.	Telecom. Details	Length of Parallelism in Km.	Mutual Coupling in Ohms.	Effective Fault current in Amps.	I.V in Volts.
BSNL Letter No: IC/MBI/PTCC/WGJ170220234662_WGJ020320234744_WGJ280320234810 Date: 28.03.2023					
1	BHESAN EXCHANGE				
1A	Bhesan Exch, - Chokdi Pillar – 1200*1 P	Out of parallelism			
2A	Chokdi Pillar – Ranpur Road – 100*1+50*1 P				
3A	Chokdi Pillar – Bus Stand Road – 400*1+200*1 P	0.25	0.0025	26934	67
2	RANPUR EXCHANGE				
1B	Ranpur Exch. – Local – 200*1 P	Out of parallelism			
2B	Ranpur Exch. – Local – 200*1 P				
3B	Ranpur Exch. – Local – 200*1 P				

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B/46937/Sigs 7(b)/3068/

19 Dec 2022

Executive Engineer (Const.)
Gujarat Energy Transmission Corporation Ltd
Construction Division Office-Junagadh
66KV Zanzarda Sub Station Compound,
Opp. Nandrayji Gaushala, Dhandhusar Road
Junagadh-362015

**PTCC PROPOSAL OF 220KV LILO TOWER LINE AT PROPOSED 220KV BHESAN
SS FROM EXISTING 220KV JETPUR-VISAVADAR LINE WITH AL-59 CONDUCTOR
& 48F OPGW WIRE**

1. Refer your letter No 2022-23/JCD/T-1/PRJ/34-B/PTCC/220KV LILO to Bhesan Line/1789 dt 11 Oct 2022 (copy att).
2. No Objection Certificate (NOC) is accorded based on inputs provided as per Map sheets received vide your letter mentioned above.
3. Documents alongwith map sheets (in original) are returned herewith for your further necessary action.



(SK Sharma)
Lt Col
GSO 1 (Comn)
for Offg ADG T

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

The DET(PTCC), Northern Zone
Bharat Sanchar Nigam Limited
O/o PGM (North), QA & Inspection Circle,
D-Tax Building, Eastern Court, Janpath
New Delhi-110001

