

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/TN-655/ 293-295

Date: 14/03/2019

Divisional Engineer Telecom (PTCC), QA & Inspection (T&D) circle, BSNL, 1st floor, Raj Bhavan Exchange, No.26, Sardar Patel Road, Guindy, Chennai-600032

Subject: PTCC Route Approval for LILO of 400kV NCPTS Stage-II – Alamathy Feeder-II at Manali 400kV GIS

Reference:

BSNL letter no. SR-PTCC/STN-1755/4 dated 2/1/18

ii) Southern Railway letter no. W.384/3/2/1159 dated 22/9/17

iii) Defense letter no. B/46937/Sig 7(b)/1286 dated 31/1/19

Sir.

The low frequency induction on BSNL and Southern 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 Southern 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

Yours faithfully,

(Naresh Bhandari) Chief Engineer

Copy to:

 SSTE, Southern Railway, Headquarters Office, S&T Branch, Chennai- 600003 (with Annexure II only)

(ii) Superintending Engineer/Transmission-I, TNTRANCO, 6th Floor, NPKRR Maaligai, 144, Anna Salai, Chennai - 600002

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CEA Casa. No. TN-655

Case No.ST	N-1755		SSA: ChTD			
Name of the power line		LILO of 400 KV NCPTS II-Alamathy Feeder II at proposed Manali 400 KV GIS SS				
Length:	31.42;	2 Kms				
Average SR value: 25,000 ohm cms		Type of BSNL telecom cable : PIJF				
SI.No.	Name of Telecom line	LOP in KMs	MC in Ohms			
ı	Athipedu Exge UG cables		-			
	3 Exge to P21-P22-Irulipattu village end 1-3)				
	5 Exge to P 26-Periyapalayam Road 1-4-5	3-11	less	ham	430V	
	6 Exge to P 26-Janpath chatram Jn 1-4-6)				
	9 Exge to P 23-P24-Tatchoor village 1-7-8-9	(-11	1 les o	than 43	ov -	
1(Exge to P 23-P24-Kilmeni 1-7-8-10)				
1	Kannigapuram Exge UG cables			1.	,	
3	Exge to Gruruvoyal via Athipattu 1-2-3	1.5	0.0412	15000	618	
6	Exge to Koduvalli via Athipattu 1-2-6	-11/	0 0412 1-858	non 4	+30V-	
5	Exge to Alamathi via vanichatram 1-4-5)				
8	Exge to Oilchery via vanichatram 1-4-8	} - IV	1-2850	Ran 4	30V -	
7	Exge to Athipattu Bazaar 1-7					
	Kannigaiper Exge UG cables					
4	Exge to Panapakkam 1-2-3-4					
5	Exge to Maduravoyal 1-2-3-5					
6	Exge to Alapakkam 1-3-6	J - 1	1 les	then -	4301.	
8	Exge to Neyveli 1-7-8					
. 10	Exge to Athikavanur 1-7-9-10		Λ			
11	Exge to Poorivakkam 1-7-11		14	N		

नरेश भंडारी/NARESH BHANDARI
मुख्य अभियन्ता/Chief Engineer
केन्द्रीय विद्युत प्राधिकरण/C.E.A.
विद्युत मंत्रालय/Ministry of Power
भारत सरकार/Govt. of India

ANNEXURE - II

Case No.: TN-655 Name of Power line: LILO of 400kV NCPTS Stage-II – Alamathy Feeder-II at Manali 400kV GIS			Map Scale : 1cm=500mts Total Length : 31.422 Km S.R. Value : 25,000 Ohm-cm			
S. No.	Telecom Details	Length of Parallelism (KM)	Mutual Coupling (Ohm)	Effective Fault Current (Amp)	Induced Voltage (Volt)	

	SOUTHERN RAILWAY Ref. No. W.384/3/2/1159 dated 22/9	/17			
4			0		0
1	Basin Bridge-Korukupet		Out of Parallelism		
2	Korukupet-Triuvettiyur		Out of Parallelism		
3	Trivettiyur-Attipattu	5	0.00068	12612	8
4	Attipattu-Minjur	2	0.0006	12612	7
5	Minjur-Ponneri	5	0.0012	10228	12
		1			
		1	A		
		नरेश भंडारी /NA	RESH BHANDARI		
		भारतय उपाधायान्य	(Chief Engineer		
		विद्युत मंत्रालय∠∧	कंप्स्रीय विद्युत प्राधिकरण/C.E.A. विद्युत मंघालय/Ministry of Power भारत सरकार/Govt. of India		
		भारत सरकार,	भारत सरकार/Govt, of India नई विल्ली/New Delhi-66		
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Tele: 23019746

ANNEX - III
Directorate General of Signals

Signals 7

General Staff Branch Integrated HQ of MoD, (Army) DHQ PO, New Delhi – 110011 TNG

B/46937/Sigs 7(b)/1286/

3 Jan 2019

Superintending Engineer/Transmission-I&Secretary/ Power, SLPTCC, Tamil Nadu Transmission Corporation Limited 6th Floor, No. 144, Annasalai Chennai-600 002

PTCC PROPOSAL-LILO OF 400KV NCTPS STAGE-II-ALAMATHY FEEDER II AT THE PROPOSED MANALI 400KV GIS SS-REG.

- Ref your letter No Lr. No. SE/TR-I/EM/A1/F.PTCC/D.No 129/17 dt 19 July 2017 (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)

for SO-in-C

Maj

GSO 1 (Comn)

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.