



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

Case No. : KNK-962 :
PTCC proposal of 220 kV S/C on D/C towers from existing 220/66 kV KPTCL S/S at Thallak to proposed M/S RVNL 220/25 kV Railway Traction S/S at Thallak Village in Challakere Taluk, Chitradurga District: 1.105 km

Reference:		
S. No.	Reference No.	Dated
(i)	KPTCL: CEE/SLDC/PTCC/F-3151/12294-302	08.02.2021
(ii)	BSNL: SR-PTCC/SKT-2944/4	04.03.2021
(iii)	South Western Railway: SG/SWR/PTCC/F-3151/2139	05.03.2021
(iv)	Defense: B/46937/Sigs 7(b)/2382	23.05.2021

The PTCC proposal submitted vide ref. (i) has been examined. The low frequency induction on telecom cables of BSNL and Block & Telecom circuits of South Western Railway with respect to details furnished vide above references (ii) and (iii) respectively has been computed. The voltages likely to be induced on paralleling telecom cables of BSNL and Block & Telecom circuits of South Western Railway under Single Line to Ground fault condition are enclosed at Annexure-I and Annexure-II respectively. The screening factors, as applicable, have been considered. Vide above reference (iv), Defence Authority have issued No Objection Certificate (NOC) (a copy enclosed as Annex-III).

Taking above into consideration, necessary action for issuance of PTCC route approval may be taken.

Encl.: As above.

Signature Not Verified
Digitally signed by
RAGHVENDRA PRATAP SINGH
Date: 2021.07.19 11:13:22 IST

Director

To,			
1.	Divisional Engineer (PTCC), Southern Zone	BSNL, Inspection Circle, 1st Floor, Raj Bavan Exchange No. 26, Sardar Patel Road, Guindy, Chennai-600032	Annexure-I & Annexure-III
2.	ASTE/TELE/HQ	SWR O/o Principal Chief Signal & Telecom Engineer, 1st floor, West Block, Rail Soudha, Gadag Road, Hubli-580020	Annexure-II
3.	Chief Engineer, Electricity	KPTCL, State Load Despatch Centre, #28, Race Course Cross Road, Bengaluru-560009	Copy for information

M/C

Case No. SKT-2944 / F3151

SSA: Davangere

(Annexure-I)

Name of the power line: PTCC Proposal for construction of proposed 220KV SC Line on DC
 towers from existing 220/66KV SS at Thallak to proposed M/s RVNL 220/25 KV Railway
 traction SS at Thallak Village in Challakere Taluk, Chitradurga District.

Length:

1.105

SR : 25,000 - 25cm

Average SR value : 25962 Ohms-cms

Type of BSNL cable: PUJF

Kms

I.No.	Name of Telecom line	LOP in KMS	MC in Ohms	FC in Amps	IV in Volts
1 (A)	Tallak Telephone Exchange				
1	Exge to Mannakote (A-A1)				
2	Exge to Thimmanahally (A-A2)				
3	Exge to Giriyammanahalli (A-A3)	IV 1483	Thom	430 V	

राज्य / TANUJ
 राज्य प्रमुख-II/Asstt. Director-II
 राज्य प्रमुख/Ministry of Power
 भारत सरकार/Govt. of India
 नई दिल्ली/New Delhi-66

ANNEXURE - II

Case No.: KNK- 962

Name of the Power Line: 220 kV S/C on D/C towers from existing 220/66 kV KPTCL S/S at Thallak to proposed M/S RVNL 220/25 kV Railway Traction S/S at Thallak Village in Challakere Taluk, Chitradurga District.

Map Scale : 1 cm = 500 m.
Route Length : 1.105 km
Soil Resistivity : 25,000 Ohm-cm

S.No.	Telecom Details	Length of Parallelism (in km)	Mutual Coupling (Ohms)	Fault Current (Amps)	Induced Voltage (Volts)
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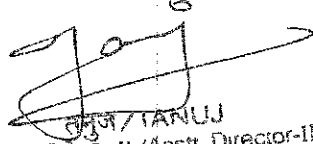
SOUTH WESTERN RAILWAY

Ref. No: SG/SWR/PTCC/F-3151/2139

DATED: 05-03-2021

Affected Blocks & Telecom Circuits Details

S.No.	Telecom Details	Length of Parallelism (in km)	Mutual Coupling (Ohms)	Fault Current (Amps)	Induced Voltage (Volts)
1	CHKE-THKU	0.3	0.0038	9985	39
2	THKU-BOMN	0.6	0.0037	9989	37


 ललित / TANUJ
 सहायक निदेशक-II/Asstt. Director-II
 केन्द्रीय विद्युत प्राधिकरण/C.E.A.
 विद्युत मंत्रालय/Ministry of Power
 भारत सरकार/Govt. of India
 नई दिल्ली/New Delhi-66

(Annexure-III)

KNK-962

Tele : 23019746

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

B/46937/Sigs 7(b)/2382

23 May 2021

Office of the Chief Engineer Electricity,
Karnataka Power Transmission Corporation Limited
State Load Despatch Centre,
28, R.C. Cross Road,
Bengaluru - 560 009

**PROPOSAL FOR CONSTRUCTION OF PROPOSED 220KV SC LINE ON DC
TOWERS FROM EXISTING 220/66KV SS AT THALLAK TO PROPOSED M/S
RVNL 220/25KV RAILWAY TRACTION SS @ THALLAK VILLAGE IN
CHALLAKERE TALUK, CHITRADURGA DISTRICT**

1. Refer your letter No CEE/SLDC/ PTCC/F-3151/12294-302 dt 08 Feb 2021 (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.

aj
(A Rawat)
Lt Col
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

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

- for in'