



भारत सरकार

Government of India

विद्युत मंत्रालय

Ministry of Power

केन्द्रीय विद्युत प्राधिकरण

Central Electricity Authority

पावर कम्युनिकेशन डवलपमेंट प्रभाग

Power Communication Development Division

No.CEA/PCD/PTCC/KNK-846/226-228

दिनांक:21/02/2019

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

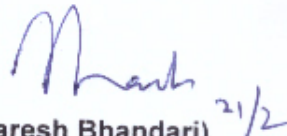
- Subject:** PTCC Route Approval for proposed conversion of existing 66kV Peenya – NRS 1 & 2 into 220/66kV Multi Voltage M/C line in the existing corridor of 66kV Peenya- NRS 1 & 2 line.
- Reference:** i) BSNL letter no. SR-PTCC/KNK/2980/11 dated 07/07/2017
ii) South Western Railway letter no. SG/SWR/PTCC/F-2357/1387 dated 24.02.2016
iii) Defense letter no. B/46937/Signs 7(b)(ii) dated 28.01.2016

Sir,

The instant PTCC proposal 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 reference has been computed. The average Soil Resistivity (SR) value has been taken as 25,000 Ohm Cm, as intimated by the Power Authority (KPTCL). The voltages likely to be induced on paralleling telecom cables of BSNL and Block & Telecom circuits of South Western Railway circuits under fault condition have been computed and are enclosed at Annex-I & II respectively. The screening factors, as applicable, have been considered. Vide Ref. (iii) above, the Defense authority have issued No Objection Certificate (NOC) (enclosed at Annex-III).

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

Encl.: As above


(Naresh Bhandari) 21/2
Chief Engineer

Copy to:

- (i) CSTE, South Western Railway, Office of Chief Signal & Telecom Engineer, New Zonal Headquarters Office, 1st Floor, West Block, Rail Soudha, Gadag Road, Hubli- 580020 (with Annexure II only).
(ii) Chief Engineer Electricity, State Load Dispatch Centre, No.28, R.C. Cross Road, Bangalore-560009

M/C

एन आर पी सी परिसर, कटवारीया सराय, नई दिल्ली-110016 टेलीफोन: 011-26565214 ईमेल: nbnareshbhandari@gmail.com

NRPC Building, Katwaria Sarai, New Delhi-110016 Telefax: 011-26565214 Email: nbnareshbhandari@gmail.com Website: www.cea.nic.in

ANNEXURE - I

Case No.: KNK-846					
Name of the Power line: Conversion of existing 66 KV Peenya-NRS 1 & 2 into 220/66 KV Multi voltage MC line in the existing corridor of 66 KV Peenya-NRS 1 & 2 lines		Map Scale : 1cm=500mts Total Length : 5.021 Km. S.R. Value : 25,000 Ohms-cm			
S.No.	Telecom. Details	Length of Parallelism in Km.	Mutual Coupling in Ohms.	Effective Fault current in Amps.	I.V in Volts.

BSNL DETAIL					
Ref. No. SR-PTCC/KNK/2980/11 Dated 07-07-2017					
I AN Anjananagar Exge UG cables					
1	Exge to Beggar colony AN-AN 1	Induced Voltage less than 430 volts			
2	Exge to Gollahatti AN-AN 2	Outside Induced Voltage calculation 430 Volts			
3	Exge to Ullal AN-AN 3				
II NG Nagarabhavi Exge UG cables					
1	Exge to Kottigepalya NG-NG 1	Outside Induced Voltage calculation 430 Volts			
2	Exge to Magadi Road NG-NG 2				
3	Exge to Ullal cross NG-NG 3				
4	Exge to Nagabhavi 2nd cross NG-NG 4				
III CL Chandra L/0 (CLO) Exge UG cables					
1	Exge to BTS Garage CL-CL1	Out of //sm			
2	Exge to Canara Bank CL-CL2				
3	Exge to Nagarbhavi Circle CL-CL3				
IV CT CTSD Exge UG cables					
1	Exge to Bavesnaranagar CT-CT1	Induced Voltage less than 430 Volts			
2	Exge to Sunkenahalli CT-CT2	Out of //sm			
3	Exge to Pattagar palya CT-CT3				
V BN Basveshwara Nagar Exge UG cables					
1	Exge to Shahkaramutt BN-BN 1	Induced Voltage less than 430 Volts			
2	Exge to Manjunath Nagar BN-BN 2				
VI NLO Nandlni 110 Exge (NLO)					
1	Exge to Kurubarahalli NL-NL1	Induced Voltage less than 430 Volts			
2	Exge to Modi Hosp. road NL-NL2				
3	Exge to Chord road NL-NL3	1.3	0.068	6000	408
VII LG Laggere Exge UG cables					
1	Exge to Nelagaderhalli LG-LG 1	Induced Voltage less than 430 Volts			
VIII DTO DTO Exge (MAL)					
1	Exge to Sheshadripuram DTO-DTO1	Induced Voltage less than 430 Volts			
IX MAL Maleswaram Exge UG cables					
1	Exge to Ramavilas mahal MAL-MAL1	Induced Voltage less than 430 Volts			
X RT RT Nagar Exge UG cables					
1	Exgeto Munireddypalya RT-RT1	Induced Voltage less than 430 Volts			
2	Exgeto Ganganagar RT-RT2				
3	Exgeto Ganesh Block RT-RT4				
XI Kaval Byrasandra Exge UG cables					

ANNEXURE - I

Case No.: KNK-846					
Name of the Power line: Conversion of existing 66 KV Peenya-NRS 1 & 2 into 220/66 KV Multi voltage MC line in the existing corridor of 66 KV Peenya-NRS 1 & 2 lines		Map Scale : 1cm=500mts Total Length : 5.021 Km. S.R. Value : 25,000 Ohms-cm			
S.No.	Telecom. Details	Length of Parallelism in Km.	Mutual Coupling in Ohms.	Effective Fault current in Amps.	I.V in Volts.

3	Exge to Aswathnarayana L/o SN-SN3	Induced Voltage less than 430 Volts			

नरेश भंडारी/NARESH BHANDARI
 मुख्य अभियन्ता/Chief Engineer
 राष्ट्रीय विद्युत प्राधिकरण/C.E.A.
 विद्युत विभाग/Ministry of Power
 भारत सरकार/Govt. of India
 नई दिल्ली/New Delhi-66

Annexure -II

Case No.: KNK-846					
Name of the Power line: proposed conversion of existing 66kV Peenya - NRS 1 & 2 into 220/66kV Multi Voltage M/C line in the existing corridor of 66kV Peenya- NRS 1 & 2 line.		Map Scale : 1cm=500mts Total Length : 5.201 Km. S.R. Value : 25,000 Ohms-cm			
S.No.	Block & Telecom. circuit Details	Length of Parallelism in Km.	Mutual Coupling in Ohms.	Effective Fault current in Amps.	I.V in Volts.

South Western Railway Ref No. SG/SWR/PTCC/F-2357/1387 dated 24.02.2016					
1	Bengaluru city (SBC)-Nayandahalli (NYH)		Out of //sm		0
2	Nayandahalli (NYH)- Kengeri (KGI)		Out of //sm		0
3	Baiyyappanahalli (BYPL)-Banaswadi (BAND)		Out of //sm		0
4	Bengaluru city (SBC)- Bangalore Cant. BNC		Out of //sm		0
5	Bengaluru city (SBC)- Yasvantpur (YPR)	2.6	0.007	6000	42
6	Yasvantpur (YPR) – Chik Banawar (BAW)	1.80	0.0046	10000	46

नरेश भंडारी / NARESH BHANDARI
मुख्य अभियन्ता / Chief Engineer
केन्द्रीय विद्युत प्राधिकरण / C.E.A.
विद्युत मंत्रालय / Ministry of Power
भारत सरकार / Govt. of India
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Directorate General of Signals
 Signals - 7
 General Staff Branch
 Integrated HQ of MoD, (Army)
 DHQ PO, New Delhi - 110011

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

28 Jan 2016

Karnataka Power Transmission Corporation Limited
 Office of the Chief Engineer Electricity,
 State Load Despatch Centre,
 # 28, R.C. Cross Road,
 Bangalore - 560009

**PROPOSED CONVERSION OF EXISTING 66 KV PEENYA - NRS 1 & 2
 (BUNCHED COPPER CONDUCTOR LINE) INTO 220/66 KV MULTI VOLTAGE
 MC LINE IN THE EXISTING CORRIDOR OF 66 KV PEENYA - NRS 1&2 LINES**

1. Ref your letter No CEE/SLDC/PTCC/F-2357/9117-24 dt 31 Dec 2015.
2. NOC (No Objection Certificate) is accorded based on inputs provided vide Map sheets received under your above mentioned letter.
3. Documents alongwith Map Sheets in original are returned herewith.



(Sachin Saxena)
 Lt Col
 GSO 1 (Comn)
 for SO-in-C

Enclosures (Two Map Sheets)

Copy to :-

✓ Central Electricity Authority
 Power Communication Development Division
 NRPC Complex, 18-A, Shaheed Jeet Singh S Marg
 Katwaria Sarai, New Delhi - 110016

- For information.