



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. : KNK-933 :/66-68
PTCC proposal of 220 kV D/C line on M/C & D/C towers from proposed 400/220 kV S/S at Mylasandra to existing 220/66 kV S/S HSR Layout [DC line on MC towers from proposed 400/220 kV S/S at Mylasandra to existing 220 kV Somanahalli to Hoody D/C line at T.No. 1 & D/C line on M/C towers in existing same line from T.No. 1 to T.No. 50 & further on D/C line on D/C Tower from T.No. 50 to existing 220/66 kV S/S at HSR Layout] in Bangalore Urban District: 11.751 km

Reference:		
S. No.	Reference No.	Dated
(i)	KPTCL: CEE/SLDC/PTCC/F-3008/12007-09	04.02.2021
	KPTCL: CEE/SLDC/PTCC/F-3008/15420-28	19.12.2019
(ii)	BSNL: SR-PTCC/SKT-2677/4	12.01.2021
(iii)	South Western Railway: SG/SWR/PTCC/F-3008/2007	07.02.2020
(iv)	Defense: B/46937/Sigs 7(b)/1935	03.02.2020

The PTCC proposal submitted vide reference (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 Annexure-III).

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

Encl.: As above.

राजेश्वर प्रताप सिंह
31.1.22

Director

m/c

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

(Annexure-I)

ENR:933

(Annexure-II)

11T 2620/18-3

Case No. SKT-2677/E3008

SSA: Bengaluru

Name of the power line: Proposed 220KV DC line on MC and DC Towers from proposed 400/220KV SS at Mylasandra to existing 220/66KV SS at HSR Lay Out [DC line on MC Towers from proposed 400/220KV SS at Mylasandra to existing Somanahalli-Hoody DC line at T.No.1 and DC line on MC Towers in the existing same line from T.No.1 to T.No/50 and further T.No.50 to existing 220/66KV SS at HSR lay Out] in Bengaluru Urban District.

Length: 11.751 Kms

Average SR value : 26013.60 Ohms-cms

Type of BSNL cable: PJJF

30,000-20.

Sl.No.	Name of Telecom line	LOP in KMS	MC in Ohms	FC in Amps	IV in Volts
I BNG	Bantherghatta Exchange				
1	Exge to Ghanashrama (BNG-BN1)				
2	Exge to Vajirahalli (BNG-BN2)				
3	Exge to Hakkli Bikkd Colony (BNG-BN3)				
II W/C	Weavers Colony Exchange				
1	Exge to CK Palya Road (W/C-W/C1)				
2	Exge to Union Bank (W/C-W/C2)				
3	Exge to Hermitage (W/C-W/C3)				
III GOT	Gottigere Exchange				
1	Exge to Himigiri Medicals (GOT-GT1)				
2	Exge to GP Layout (GOT-GT2)				
3	Exge to Sai Layout (GOT-GT3)				
4	Exge to Kammanahalli (GOT-GT4)				

IV less than 430V

Director, BSNL
 Director, BSNL, Assst. Director-II
 Ministry of Power
 Govt. of India
 New Delhi-66

IV RBI	RBI Layout Exchange				
1	Exge to JP Nagar 9th Phase, Pai Layout (RBI-RB1)				
2	Exge to Srinidhi Layout (RBI-RB2)				
3	Exge to Brigade Millennium (RBI-RB3)				
V KNK	Konanakunte Exchange				
1	Exge to Ganapathipura (KNK-KN1)				
2	Exge to Harinagar (KNK-KN2)				
3	Exge to DK Sandra (KNK-KM3)				
VI IIM	IIM Exchange				
1	Exge to Bilakenhalli (IIM-IM1)				
2	Exge to DS Palva (IIM-IM2)				
VII VPPN	Vishwapiya Exchange				
1	Exge to Daco Heights (VPPN-VP1)				
2	Exge to Golden Heights (VPPN-VP2)				
VIII HRR	Horur Road Exchange				
1	Exge to Rotary Nagar (HRR-HR1)				
2	Exge to Begur Road (HRR-HR2)				
3	Exge to Garvi Bhavi Nagar (HRR-HR3)				
4	Exge to Kudlu Road (HRR-HR4)				
5	Exge to Novel (HRR-HR5)				
IX CKNR	Chennakeshavanagar Exchange				
1	Exge to Singasandra (CKNR-CN1)				
2	Exge to Novel (CKNR-CN2)				
3	Exge to Royal County (CKNR-CN3)				
4	Exge to Chikka Thogur (CKNR-CN4)				
5	Exge to Bharat Shell (CKNR-CN5)				
6	Exge to Central Jail (CKNR-CN6)				

IV Less than 430V

11.16.97/29

Director-II/Asst. Director-II
 Power Section/C.E.A.
 Power Ministry/Ministry of Power
 Govt. of India
 New Delhi-56

17/06/89

X EC	Electronics City Exchange					
1	Exge to SBI (EC-EC1)					
2	Exge to Chikka Thogur (EC-EC2)					
3	Exge to Chikka Thogur (EC-EC3)					
XI HBG	Hebbagudi Exchange					
1	Exge to KIADB (HBG-HB1)					
2	Exge to Chandapur (HBG-HB2)					
XII CLM	Carmelram Exchange					
1	Exge to Silk Board Layout (CLM-CL1)					
2	Exge to Wipro (CLM-CL2)					
XIII APOTEX	Apotex Exchange					
1	Exge to Srirampura (APOTEX-AP1)					
2	Exge to Yelmara Mandir (APOTEX-AP2)					
XIV JIG	Jigani Exchange					
1	Exge to Bandenassandra (JIG-JI1)					
2	Exge to Koppa (JIG-JI2)					
3	Exge to Harapanahalli (JIG-JI3)					
4	Exge to Hulimangala (JIG-JI4)					

IV Jess from 430V



एन.ए. त्रानुज
असि. निदेशक-II/असि. निदेशक-II
असि. निदेशक/असि. निदेशक/C.E.A.
विद्युत विभाग/Ministry of Power
नई दिल्ली/Govt. of India
New Delhi-56

ANNEXURE - II

CEA Case No.: KNK- 933 Name of the Power Line: 220 kV D/C line on M/C & D/C towers from proposed 400/220 kV S/S at Mylasandra to existing 220/66 kV S/S HSR Layout [DC line on MC towers from proposed 400/220 kV S/S at Mylasandra to existing 220 kV Somanahalli to Hoody D/C line at T.No. 1 & D/C line on M/C towers in existing same line from T.No. 1 to T.No. 50 & further on D/C line on D/C Tower from T.No. 50 to existing 220/66 kV S/S at HSR Layout] in Bangalore Urban District.		Map Scale : 1 cm = 500 m. Route Length : 11.751 km Soil Resistivity : 30,000 ohm-cm			
S.No.	Telecom Details	Length of Parallelism (in km)	Mutual Coupling (Ohms)	Fault Current (Amps)	Induced Voltage (Volts)

South Western Railway: SG/SWR/PTCC/F-3008/2007			Dated : 07.02.2020		
<u>Affected Blocks & Telecom Circuits Details</u>					
1	Karmelaram to Heelalige	1.1	0.0002	7009	02

Jai

सत्युज PANIJJ
 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

Tele : 23019746

KNR-933

(Annexure-III)

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

B/46937/Sigs 7(b)/1935

Feb 2020

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

**PROPOSAL FOR CONSTRUCTION OF PROPOSED 220KV DC LINE ON DC AND MC
TOWERS FROM PROPOSED 400/220KV SS AT MYLASANDRA TO EXISTING 220/66KV SS
AT HSR LAY OUT IN BENGALURU URBAN DISTRICT**

1. Ref your letter No CEE/SLDC/ PTCC/F-3008/15420-28 dt 19 Dec 2019 (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)
Maj
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

Divisional Engineer Telegraph (PTCC)
O/o GM (North); BSNL, QA & Inspection Circle,
CTS Compound, Africa Avenue Road,
Netaji Nagar, New Delhi-110023

for information