



आजादी का
अमृत महोत्सव

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-974 : 1/167-169
PTCC proposal of 220 KV D/C transmission line on D/C towers from the existing 400/220 kV receiving-station at Gaud to proposed 220/110 kV S/S at Ron near Itgi village, in Ron Taluk, Gadag District: 43.577 km

Reference:		
S. No.	Reference No.	Dated
(i)	KPTCL: CEU/SLDC/PTCC/F-3227/4939-48	07.08.2021
(ii)	BSNL: SR-PTCC/SKT-3460/4	22.10.2021
(iii)	South Western Railway: SG/SWR/PTCC/F-3227/2208	09.09.2021
(iv)	Defence: B/46937/Sigs 7(b)/2507	30.09.2021

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.

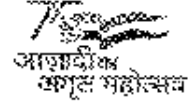
Raghuveera Prasad G 29

21.02.2022
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/IQ	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



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Government of India
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Central Electricity Authority
विद्युत संचार विकास प्रभाग
Power Communication Development Division

के.वि.प्रा. केस सं. : KNK-974/167-169
पी.टी.सी.सी. प्रस्ताव 220 KV D/C transmission line on D/C towers from the existing 400/220 kV receiving- station at Doni to proposed 220/110 kV S/S at Ron near itgi village, in Ron Taluk, Gadag District: 43.577 km

क्रमांक	सन्दर्भ सं.	दिनांक
(i)	KPTCL: CEG/SLLD/PTCC/F-3227/4939-48	07.08.2021
(ii)	BSNL: SR-PTCC/SKT-3460/4	22.10.2021
(iii)	South Western Railway: SG/SWR/PTCC/F-3227/2208	09.09.2021
(iv)	Defense: B/46937/Sigs: 7(b)/2507	30.09.2021

संदर्भ (i) द्वारा प्रस्तुत पीटीसीसी प्रस्ताव की जांच की गई है। उपर्युक्त संदर्भ (ii) और (iii) में दिए गए विवरणों के संबंध में बीएसएनएल के दूरसंचार केबलों और दक्षिण पश्चिम रेलवे के ब्लॉक और दूरसंचार सर्किटों पर क्रमशः कम आवृत्ति प्रेरण की गणना की गई है। सिंगल लाइन टू ग्राउंड फॉल्ट की स्थिति के तहत बीएसएनएल और दक्षिण पश्चिम रेलवे के ब्लॉक और टेलीफोन सर्किट के समानांतर दूरसंचार केबलों पर प्रेरित होने की संभावना वाले वोल्टेज क्रमशः अनुलग्नक- I और अनुलग्नक- II में संलग्न हैं। स्क्रीनिंग कारकों पर विचार कर लिया गया है। उपरोक्त संदर्भ (iv) द्वारा रक्षा प्राधिकरण ने अनापत्ति प्रमाण पत्र (एनओसी) जारी किया है। (एक प्रति अनुलग्नक-II के रूप में संलग्न है)

उपरोक्त को ध्यान में रखते हुए पीटीसीसी मार्ग अनुमोदन जारी करने के लिए आवश्यक कार्रवाई की जाए।

संलग्नक: उपरोक्त अनुसार

21/08/22
निदेशक 21/08/22

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

अनुलग्नक-I & अनुलग्नक-III

अनुलग्नक-II

जानकारी हेतु

CEA: K.N.K. 9774

(Annexure-2)

Case No. SKT-3460

SSA: Hubli

Name of the power line: FTCC Proposal for construction of 220KV DC line on DC towers from existing 400/220KV RS at Doni to the proposed 220/110 KV SS at Ron near Itagi village, in Ron Taluk, Gadag District.

Length of Power Line 49.577 Kms

Average SR value : ~~20075.95 ohm-cms~~
20,000 ohm-cms

Type of BSNL cable: PIJF

Sl.No.	Name of Telecom line	LOP in Kms	MC in Ohms	FC in Amps	IV in Volts
I (A)	Dambaia Telephone Exchange Cables				
1	Exge to Market (A-A1)				
2	Exge to Rani Chennamma School (A-A2)				
ii(B)	Lakkundi Telephone Exchange Cables				
1	Exge to Sambapur (B-B1)				
2	Exge to Marutinager (B-B2)				
3	Exge to Ambakki Plot (B-B3)				
iii (C)	Kotumachagi Telephone Exchange Cables				
1	Exge to Narayanapur (C-C1)				
2	Exge to Mallayya Temple (C-C2)				
IV(D)	Naregal Telephone Exchange Cables				
1	Exge to Bus Stand (D-D1)				
2	Exge to Jakli Road (D-D2)				
3	Exge to Abbigere Road (D-D1-D3)				
4	Exge to Police Station (D-D1-D4)				
5	Exge to Gram Panchayat (D-D1-D5)				
6	Exge to Gajendragad Road (D-D1-D6)				
V(E)	Abbigeri Telephone Exchange Cables				
1	Exge to KVG Bank (E-E1)				
2	Exge to Panchayat (E-E2)				
VI(F)	Nidagundi Telephone Exchange Cables				
1	Exge to Panchayat Nidagundi(F-F1)				

IV less than 450V

STATE ENGINEER (POWER), Gadag
 District Power Division, Hubli
 District Engineer, Gadag
 Government of India
 New Delhi

ANNEXURE - II

CEA Case No.: KKK- 974

Name of the Power Line: 220 KV D/C transmission line on D/C towers from the existing 400/220 kV receiving- station at Doni to proposed 220/110 kV S/S at Ron near Igi village, in Ron Taluk, Gadag District

Map Scale : 1 cm = 500 m.
Route Length : 43.577 km
Soil Resistivity : 20,000 ohm-cm

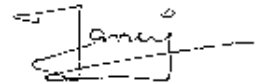
S.No.	Telecom Details	Length of Parallelism (in km)	Mutual Coupling (Ohms)	Fault Current (Amps)	Induced Voltage (Volts)
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South Western Railway: SG/SWR/PTCC/F-3227/2208

Dated : 09.09.2021

Affected Blocks & Telecom Circuits Details

1.	Gadag to Kanaginhal	2.4	0.0003	7210	03
2.	Kanaginhal to Hariapur	1.7	0.0012	6782	09
3.	Hariapur to Sonpur Road	1.4	0.0005	6885	04



For the Project Engineer
South Western Railway
Gadag District
09.09.2021

For the Project Engineer
South Western Railway
Gadag District
09.09.2021

Telc : 23019746

(Annexure - II)

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

KNK-976

B/46937/Sigs 7(b)/2507

30 Sep 2021

Office of the Chief Engineer Electricity,
Karnataka Power Transmission Corporation Limited
State Load Despatch Centre,
2B, R.C. Cross Road,
Bengaluru - 560 009

PTCC PROPOSAL FOR CONVERSION OF 220KV DC LINE ON DC TOWERS
FROM EXISTING 400/220KV RS AT DONI TO THE PROPOSED 220/110KV SS
AT RON NEAR ITAGI VILLAGE, IN RON TALUK, GADAG DISTRICT

1. Refer your letter No CEF/SLDC/ PTCC/F-32271-4939-48 dt 07 Aug 2021 (copy att).
2. No Objection Certificate (NOC) is accorded based on inputs provided as per 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)

Li Col
GSO 1 (Comm)
for SO-in-C

Enclosures : (As above)

Copy to :-

The Director (PTCC), CHA
Power Communication Development Division
NRPC Complex, 18 A Shaheed Jeeb Singh Marg
Katwaria Sarai, New Delhi - 110016

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

for information