



सत्यमेव जयते

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-872 / 2232-34

Date:18.10.2018

DET (PTCC),
QA & Inspection (T&D) Circle, BSNL
1 Floor, Raj Bhavan Exchange,
No. 26, Sardar Patel Road,
Guindy, Chennai – 600032

Subject: Induced Voltage Calculation in respect of PTCC proposal for 220 kV UG cable (SC) from existing 220/110/33/11 kV SS at Mangalore SEZ area in Bajpe to the proposed 220 kV SS of M/s JBF PETRO Chemicals Limited in Mangalore Taluk & District

Reference: (i) BSNL letter no. SR-PTCC/SKT-1615/3 dated 24.04.2017
(ii) South Western Railway letter no. SG/SWR/PTCC/F-2502/1543 dated 27.09.2017
(iii) Southern Railway letter no. W.384/3/3/661 dated 29.05.2018
(iv) Konkan Railway Corporation Ltd letter no. KR/KW/SG/PTCC/F-2502 dated 05.02.2018
(v) Defense letter no. B/46937/Sigs 7(b)/510 dated 28.03.2017

Sir,

The instant PTCC proposal has been examined. Low frequency induction on Block and Telecom Circuits of Konkan Railway with respect to details furnished vide reference (iv) above has been computed. The average Soil Resistivity (SR) value has been taken as 30,000 Ohm-cm, as intimated by the Power Authority (KPTCL). The voltages likely to be induced on paralleling Block and Telecom Circuits of Konkan Railway under Single Line to Ground fault condition have been computed and are enclosed as Annex – I. The screening factors, as applicable, have been considered. As per PTCC Manual 2010 edition, since the **UG Power Cable is less than 0.8 km in length, BSNL telecom details are not required**. Vide ref. (ii) above, South Western Railway have issued No Objection Certificate (NOC) (enclosed as Annex – II). Vide ref. (iii) above, Southern Railway have issued No Objection Certificate (NOC) (enclosed as Annex – III). Vide ref. (v) above, Defense Authority have issued No Objection Certificate (NOC) (enclosed as Annex – IV).

Taking above into consideration, kindly take necessary action for PTCC route approval.

Encl.: As above


(Naresh Bhandari)
Chief Engineer

Copy to:

- (i) Regional Signal & Telecom Engineer, Konkan Railway Corporation Limited, Belapur Bhavan, Sector 11, PO Box no. 9, CBD Belapur, Navi Mumbai – 400614 (Annex – I only)
- (ii) Chief Engineer Electricity, KPTCL, State Load Despatch Centre, No. 28, R.C. Cross Road, Bengaluru – 560009



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Central Electricity Authority

पावर कम्युनिकेशन डवलपमेंट प्रभाग

Power Communication Development Division

सं.: के.वि.प्रा./पीसीडी/पीटीसीसी /के.एन.के.-872 / 2232-34
विभागीय अभियंता (दूरसंचार), पीटीसीसी,
निरीक्षण एवं क्यू.ए. सर्किल, बी एस एन एल
1 फ्लोर, राज भवन एक्सचेंज,
नं. 26, सरदार पटेल रोड,
गिंडी, चेन्नई - 600 032

दिनांक: 18.10.2018

विषय: 220/110/33/11 केवी मंगलौर एस.ई.जेड. उपकेन्द्र से प्रस्तावित 220 केवी M/s JBF PETRO Chemicals Limited के उपकेन्द्र तक 220 के.वी. भूमिगत पावर केबल का PTCC रूट अनुमोदन - प्रेरित वोल्टेज गणना
सन्दर्भ: (i) बी.एस.एन.एल. सन्दर्भ सं. SR-PTCC/SKT-1615/3 दिनांक 24.04.2017
(ii) दक्षिण पश्चिम रेलवे सन्दर्भ सं. SG/SWR/PTCC/F-2502/1543 दिनांक 27.09.2017
(ii) दक्षिण रेलवे सन्दर्भ सं. W.384/3/3/661 दिनांक 29.05.2018
(ii) कोंकण रेलवे सन्दर्भ सं. KR/KW/SG/PTCC/F-2502 दिनांक 05.02.2018
(iii) रक्षा सन्दर्भ सं. B/46937/Sigs 7(b)/510 दिनांक 28.03.2017

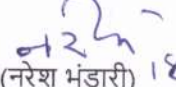
महोदय,

तत्काल पीटीसीसी प्रस्ताव की जांच की गई है। उपर्युक्त संदर्भ में दिए गए विवरण के अनुसार, कोंकण रेलवे के ब्लॉक एवं दूरसंचार सर्किट पर निम्न आवृत्ति प्रेरण की जांच की गई है। बिजली प्राधिकरण (KPTCL) द्वारा प्राप्त सूचना के अनुसार, औसत मृदा प्रतिरोधकता 30,000 ओम-सेमी ली गयी है। सिंगल लाइन to ग्राउंड फाल्ट अवस्था में समानांतर कोंकण रेलवे सर्किट पर प्रेरित वोल्टेज अनुलग्नक -I में संलग्न है। स्क्रीनिंग कारक का मान यथानुरूप लिया गया है। पीटीसीसी मैनुअल 2010 के आधार पर, चूँकि भूमिगत पावर केबल की लम्बाई 0.8 किमी से कम है, बीएसएनएल केबलों पर प्रेरित वोल्टेज गणना की आवश्यकता नहीं है। दक्षिण पश्चिम रेलवे ने उपरोक्त सन्दर्भ (ii) के द्वारा अनापत्ति प्रमाण पत्र जारी किया है। (अनुलग्नक- II में संलग्न)। दक्षिण रेलवे ने उपरोक्त सन्दर्भ (iii) के द्वारा अनापत्ति प्रमाण पत्र जारी किया है। (अनुलग्नक- III में संलग्न)। रक्षा प्राधिकरण ने उपरोक्त सन्दर्भ (v) के द्वारा अनापत्ति प्रमाण पत्र जारी किया है। (अनुलग्नक- IV में संलग्न)।

अतः आपसे अनुरोध है कि ट्रांसमिशन लाइन के लिए पीटीसीसी रूट अनुमोदन के संबंध में आवश्यक कार्रवाई करने की कृपा करे।

संलग्न: ऊपरोक्त अनुसार

आपका आभारी,


(नरेश भंडारी) 18/10
मुख्य अभियन्ता

कॉपी:

1. आर.एस टी ई, कोंकण रेलवे कारपोरेशन लिमिटेड, बेलापुर भवन, सेक्टर 11, सीबीडी बेलापुर, नवी मुंबई - 400614 (संलग्नक - I केवल)
2. मुख्य अभियंता विद्युत, स्टेट लोड डिस्पैच सेंटर, #28, रेस कोर्स क्रॉस रोड, बेंगलुरु - 560009.

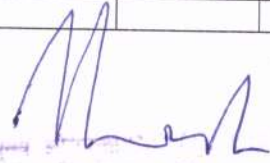
एन आर पी सी परिसर, कटवारिया सराय, नई दिल्ली-110016 टेलीफैक्स: 011-26565214 ईमेल: nbnareshbhandari@gmail.com

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

ANNEXURE - I

Case No.: KNK-872		Name of the Power line: 220 kV UG cable (SC) from existing 220/110/33/11 kV SS at Mangalore SEZ area in Bajpe to the proposed 220 kV SS of M/s JBF PETRO Chemicals Limited in Mangalore Taluk & District				Map Scale : 1cm=500mts Total Length : 0.080 km Average S.R. : 30,000 Ohm-cm
S.No.	Telecom. Details	Length of Parallelism in Km.	Mutual Coupling in Ohms.	Effective Fault current in Amps.	I.V in Volts.	

KONKAN RAILWAY letter no. KR/KW/SG/PTCC/F-2502 dated 05.02.2018					
AFFECTED BLOCK & TELECOM CIRCUITS DETAIL					
1	✓ Surathkal – Thokur	OUT OF PARALLELISM			0
2	✓ Thokur - Jokatte				0


 सेवा भागी,
 Sewa Bhawan,
 नई दिल्ली-68/New Delhi-68

दक्षिण पश्चिम रेलवे/SOUTH WESTERN RAILWAY



मुख्य संकेत व दूरसंचार अभियंता का कार्यालय
Office of the Chief Signal & Telecom Engineer
प्रथम मंजिल, पश्चिम विभाग, 1st floor, West Block,
रेल सौधा, Rail Soudha, गदग सड़क, Gadag Road,
हुबली, Hubli-20

FAX: 0836-2289861

दिनांक: 27.09.2017

सं. SG/SWR/PTCC/F-2502/1543

The DIRECTOR (PTCC)
CENTRAL ELECTRICITY AUTHORITY,
Load Dispatch & Telecommunication Division,
PTCC Directorate, NREB Complex, 18-A,
ShaheedJeet Singh's Marg, Katwaria Sarai,
NEW DELHI - 110016.

विषय: PTCC proposal for the construction of proposed 220KV UG cable (SC) route with one spare cable from existing 220/110/33/11KV SS at Mangalore SEZ area in Bajpe to the proposed 220KV station SS of M/s JBP Chemicals Limited in Mangalore Taluk & District.

संदर्भ: CEE/KPTCL letter No. CEE/SLDC/PTCC/F-2502/8938 dated 31.07.2017.

ऊपर लिखित पत्र के संदर्भ में, प्रस्तावित पावर लाइन से 08 की.मी. इलाके के भीतर प्रचलित रेलवे लाइन नहीं है, इस रेलवे ने कथित पीटीसीसी प्रस्ताव के लिए अनापत्ति प्रमाण पत्र जारी की जाती है। With reference to the above cited letter, since there is no Railway line is exists within the vicinity of 08kms from the proposed power line, this Railway has NO OBJECTION in clearing the said PTCC proposal.

(बि. गोपाल नायक/B. GopalNaik) 27.9.17

का.सं. एवं.दूस.अ/सं/प्रका/XSTE/SIG/HQ
कृते मु.सं.एवं.दूस.अ/दपरे/For CSTE/SWR

- Copy to: 1. **Sr. DSTE/MYS** - for information please.
2. **Divisional Engineer (Telecom)**, PTCC, T&D Circle, BSNL, # 26, 1st Floor, Raj Bhavan Telephone Exchange, Sardar Patel Road, Guindy, CHENNAI - 600 032.
3. Office of the **Chief Engineer Electricity**, State Load Dispatch Centre, #28, Race Course Cross Road, BENGALURU-560009.



नि. रेलवे

म. रेलवे

श्री. दि. गोपाल नायक
CST

SOUTHERN RAILWAY

Head quarters Office
S&T Branch
Chennai-600 003
Date: 29.5.2018

No.W.384/3/3/661

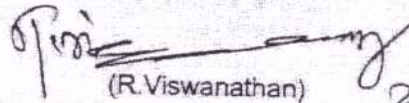
The Director (PTCC)
Central Electricity Authority
Load Despatch & Telecommunication Division
NREB Complex
18 A Shaheed Jeet Singh S.Marg,
Katwaria Sarai, New Delhi-110016

Sub: Proposal for 220KV UG Cable route with one spare cable from existing 220/110/33/11 KV SS at Mangalore SEZ area in Bajpe to the proposed 220KV station SS of M/S JBF petro chemicals limited in Mangalore Taluk

Ref: 1. CEE/LDC/PTCC/F.2502/16361-71 dt 25.2.17
2. CEE/SLDC/PTCC/F.2502/3121-23 dt 23.05.18

The proposed power line is 0.8 kms .as per appendix XIX para 6.13.1 of PTCC manual ,Telecom details need not be marked. Further no Railway circuits lies with in 8 kms boundary of the proposed power line. As per records, already NOC issued from this Southern Railway.

This railway has no objection in giving clearance for energising the proposed power line .



(R.Viswanathan) 29.5.2018
Asst. Signal Telecommunication Engineer
For General Manager, S & T

Copy to :-

Chief Engineer/Electricity State Load Despatch Centre No.28 R.C Cross Road Bangaluru-560 009	The divisional Engineer / Tele PTCC, Southern Region, Raj Bhavan Telephone exchange, 1 st , Floor, No.26, Sardar Patel Road, Guindy, Chennai - 600 032
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Received from KPTCL over e-mail on 17.10.2018

Pratish
17/10/18

Annexure-TV

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)/510/

28 Mar 2017

Chief Engineer, Electricity
Load Despatch Centre
#28, R. C. Cross Road
Bangalore - 560009

**PTCC PROPOSAL FOR CONSTRUCTION OF PROPOSED 220KV UG CABLE
(SC) ROUTE WITH ONE SPARE CABLE FROM EXISTING 220/110/33/11KV SS
AT MANGALORE SEZ AREA IN BAJPE TO THE PROPOSED 220KV
STATION SS OF M/S JBF PETRO CHEMICALS LIMITED
IN MANGALORE TALUK & DISTRICT.**

1. Reference your letter No. CEE/LDC/PTCC/F-2502/-16361-71 dt 25 Feb 2017.
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.

Bikram

(Bikram Kunwar)
Lt Col
GSO 1 (Comn)
for SO-in-C

Encls : (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.

365
10/04/17

श्री अनादिम, निदेशक
नरेश
10/04/17

श्री. विक्रम कुंवर
सि. 1014