



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

| |
|---|
| के.वि.प्रा. केस सं. : MP-480 / 294-296 |
| पी.टी.सी.सी. प्रस्ताव 220 kV DCDS transmission line from 400/220 kV under construction S/S Guna (PBGTL) to 220/132 kV S/S Guna (MPPTCL) (26.435 km) |

| सन्दर्भ: | | दिनांक |
|----------|--|------------|
| क्रमांक | सन्दर्भ सं. | |
| (i) | M/s Powergrid Bhind-Guna Transmission Ltd: WRTS-II/GUNA/PTCC/455 | 01.12.2020 |
| (ii) | BSNL: IC/MBI/PTCC/MP-699 | 03.02.2021 |
| (iii) | West Central Railway: WCR/N-HQ/120/PTCC/T-50/III Case-308 | 22.02.2021 |
| (iv) | Defense: B/46937/Sigs 7(b)/2258 | 17.02.2021 |

संदर्भ (i) द्वारा प्रस्तुत पीटीसीसी प्रस्ताव की जांच की गई है। बीएसएनएल के टेलिकॉम केबलों एवं पश्चिम मध्य रेल के ब्लॉक एवं टेलिकॉम सर्किटों पर निम्न आवृत्ति प्रेरण गणना क्रमशः उपरोक्त संदर्भ (ii) एवं (iii) में दिए गए विवरणों के संबंध में की गई है। सिंगल लाइन टू ग्राउंड फाल्ट अवस्था में समानांतर बीएसएनएल के टेलिकॉम केबलों एवं पश्चिम मध्य रेल के ब्लॉक एवं टेलिकॉम सर्किटों पर प्रेरित वोल्टेज क्रमशः अनुलग्नक -I एवं II में संलग्न है। स्क्रीनिंग कारक का मान यथानुरूप लिया गया है। रक्षा प्राधिकरण ने उपरोक्त संदर्भ (iv) के द्वारा अनापत्ति प्रमाण पत्र जारी किया है। (अनुलग्नक - III में संलग्न)।

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

संलग्न: ऊपरोक्त अनुसार

राजेश्वर प्रताप सिंह
निदेशक
25.4.22

To,

| | | | |
|----|--|---|---------------|
| 1. | Divisional Engineer (PTCC), Western Zone | BSNL; Inspection Circle, 3 rd Floor, D-Wing, BSNL Admin Building, Juhu Tara Road, Santacruz (West), Mumbai-400054. | |
| 2. | GM (S&T) | West Central Railway, Office of the GM (S&T). 1 st Floor, Annex II Building. Jabalpur - 482001 | Only Annex-II |
| 3. | Deputy General Manager | M/s Powergrid Bhind-Guna Transmission Ltd, 765/400/220 kV Substation, Gwalior, Western Region Transmission System - II | For kind info |

MIC

File No.CEA-PS-17-11(12)/32/2022-PCD Division



आशादीका
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. : MP-480/294-296
PTCC proposal of 220 kV DCDS transmission line from 400/220 kV under construction S/S Guna (PBGTL) to 220/132 kV S/S Guna (MPPTCL) (26.435 km)

| Reference: | | |
|------------|--|------------|
| S. No. | Reference No. | Dated |
| (i) | M/s Powergrid Bhind-Guna Transmission Ltd: WRTS-II/GUNA/PTCC/455 | 01.12.2020 |
| (ii) | BSNL: IC/MBI/PTCC/MP-699 | 03.02.2021 |
| (iii) | West Central Railway: WCR/N-HQ/120/PTCC/T-50/III Case-308 | 22.02.2021 |
| (iv) | Defense: B/46937/Sigs 7(b)/2258 | 17.02.2021 |

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

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

Encl.: As above.

24.01.22
Director

To,

| | | | |
|----|--|---|---------------|
| 1. | Divisional Engineer (PTCC), Western Zone | BSNL; Inspection Circle, 3 rd Floor, D-Wing, BSNL Admin Building, Juhu Tara Road, Santacruz (West), Mumbai-400054. | |
| 2. | GM (S&T) | West Central Railway, Office of the GM (S&T), 1 st Floor, Annex II Building, Jabalpur - 482001 | Only Annex-II |
| 3. | Deputy General Manager | M/s Powergrid Bhind-Guna Transmission Ltd, 765/400/220 kV Substation, Gwalior, Western Region Transmission System - II | For kind info |

CFA Case No. MP-480

S R: 10000 Ω -cm Length: 26.435 km Annex-I
 220 kV D/C DS Transmission Line from 400/220 kV
 U/C S/S Guna (PBATL) to 220/132 kV S/S Guna (MPPCL)

Details of BSNL U/G Cables (Including Armored OFC/Excluding OFC)

| S. No. | Name of Telecom Line/ Cable | No. of Pair |
|--------|-----------------------------------|--|
| 1 | Guna local City (T1, E1) | 5, 10, 20, 50, 100, 200, 400, 800 etc. |
| 2 | Budhanganj Tower (T2, E2) | 5, 10, 20, 50, 100 |
| 2 | Pugara (T3, E3) | 5, 10, 20, 50, 100 |
| 4 | Daji (Guna City) (T4, E4) | 5, 10, 20, 50, 100, 200 |
| 5 | Gupta Colony (Guna City) (T5, E5) | 5, 10, 20, 50, 100, 200, 400, 800 etc. |
| 6 | Talwara (Guna City) (T6, E6) | - |
| 7 | Mawan mobile Tower (P7) | - |
| 8 | Harman Chouraha Mobile Tower | - |

IV
less
than
480V

Bateeb

प्रतिष्ठान निदेशक (प्रशासन) / Director (Admin)
 सहायक निदेशक-II / Asst. Director-II
 केन्द्रीय विद्युत प्राधिकरण / C.E.A.
 विद्युत मंत्रालय / Ministry of Power
 भारत सरकार / Govt. of India
 नई दिल्ली / New Delhi

ANNEXURE - II

CEA Case No.: MP-480

Name of the Power line: 220 kV DCDS transmission line from 400/220 kV under construction S/S Guna (PBGTL) to 220/132 kV S/S Guna (MPPTCL)

Map Scale : 1 cm=500 m
Total Length : 26.435 km
S.R. Value : 10,000 Ω-cm

| S.No. | Telecom. Details | Length of Parallelism in Km. | Mutual Coupling in Ohms. | Effective Fault current in Amps. | I.V in Volts. |
|-------|------------------|------------------------------|--------------------------|----------------------------------|---------------|
|-------|------------------|------------------------------|--------------------------|----------------------------------|---------------|

WEST CENTRAL RAIWAY Ref. No: WCR/N-HQ/120/PTCC/T-50/III Case-308 Dated: 22.02.2021
Affected Blocks & Telecom Circuits Details

| | | Out of parallelism | | | 0 |
|---|----------------------|--------------------|--------|-------|----|
| 1 | Shadhora - Pilighata | | | | 22 |
| 2 | Pilighata - Pagara | 4.5 | 0.0022 | 10000 | 45 |
| 3 | Pagara - Maban | 5.5 | 0.0072 | 8000 | 15 |
| 4 | Maban - Guna | 9.7 | 0.0019 | 10000 | 13 |
| 5 | Guna - Mahugara | 6.1 | 0.0013 | 9500 | 1 |
| 6 | Mahugara - Ruthiyai | 0.4 | 0.0001 | | |

Prateek

प्रतीक श्रीवास्तव/PRATEEK SRIVASTAVA
सहायक निदेशक-II/Asst. Director-II
केन्द्रीय विद्युत प्राधिकरण/C.E.A.
विद्युत मंत्रालय/Ministry of Power
भारत सरकार/Govt. of India
नई दिल्ली/NEW DELHI

Annex-III

MP-480

1/cd 23019746

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

B44893/ISigs 7(0)/2258/

17 Feb 2021

Deputy General Manager
Powergrid Bhind Guna Transmission Limited
765/400/220KV S/S Station,
Western Region Transmission System
Gwalior-474001

72
27/2/21

**CONSTRUCTION OF 220KV DCDS TRANSMISSION LINE FROM 400/220KV
UNDER CONSTRUCTION S/S (PBGL) GUNA TO 220/132KV S/S GUNA
(MPPTCL): PTCC PROPOSAL**

1. Refer your letter No WRTS-III/GUNA/PTCC/455 dt 01 Dec 2020 (copy att).
2. No Objection Certificate (NOC) is accorded based on inputs provided vide Map sheet received under your letter mentioned above.
3. Documents alongwith map sheets (in original) are returned herewith for your further necessary action.

ah
(A Rawat)
Maj
GSO 1 (Comn)
for SO-in-C

Enclosures : As above

Copy to :-

The Director (PTCC), CEA
Power Communication Development Division
NREC Complex, 18-A Shaheed Jeet Singh Marg
Katwara Sarai, New Delhi - 110016

- for information

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

871
11/6/21