



सत्यमेव जयते

भारत सरकार
Government of India
विद्युत मंत्रालय
Ministry of Power
केन्द्रीय विद्युत प्राधिकरण
Central Electricity Authority
विद्युत प्रणाली संचार विकास प्रभाग
Power System Communication Development Division

| | | |
|--|---|--------------|
| CEA Case No. : KNK-1130 | | |
| Induced Voltage (IV) Calculation for PTCC proposal of 220 kV D/C line from 400/220 kV Doni S/s to 220/33 kV PSS of M/s IRIS Renewables Two Private Limited, Harlapur Village, Gadag (Length: 15.704 km) | | |
| S. No | Reference No. | Dated |
| (i) | IRTPL/CEA(PTCC)/2024-25/2405251 | 25.05.2024 |
| (ii) | BSNL: SR-PTCC/SKT110920246193/6 | 11.09.2024 |
| (iii) | South Western Railway: SG/SWR/PTCC/KNK1130/2784 | 23.07.2024 |
| (iv) | IRTPL/CEA(PTCC)/2024-25/2405251 | 16.09.2024 |

The PTCC proposal submitted vide reference (i) has been examined. The LF induction on communication circuits of South Western Railway with respect to details furnished vide above references (iii) has been computed. The voltage likely to be induced on paralleling communication cables of South Western Railway under Single Line to Ground fault condition are enclosed at Annexure-I. The screening factors as applicable have been considered. DET, PTCC (SZ), BSNL vide reference (ii) has issued their No Objection Certificate (NOC) for charging of the line.

EPR Zones for proposed substations are mentioned below:

| Name of the proposed SS | Half Diagonal Distance, D/2 (mts) | Fault Current, I (kA) | Resistance of earthmat, R (Ohms) | d (mts) at 430 V | d (mts) at 650 V | d (mts) at 7 kV | d (mts) at 10 kV |
|---|-----------------------------------|-----------------------|----------------------------------|------------------|------------------|-----------------|------------------|
| 220/33 kV PSS of M/s IRIS Renewables Two Private Limited, Harlapur Village, Gadag | 83.55 | 32 | 0.19462 | 1127 | 717 | NA | NA |

Telecommunication details from DG Signals, MoD are still awaited. M/s IRIS Renewables Two Private Limited vide reference (iv) has requested for provisional PTCC approval citing their readiness to charge the line. While requesting for provisional PTCC approval, M/s IRIS Renewables Two Private Limited has given an undertaking that “In case of any damages to telecom assets of defence due to charging of the above cited transmission line M/s. IRIS Renewables Two Private Limited, shall bear all the expenses for its remediation.”

Taking above into consideration, necessary action for issuance of provisional PTCC route approval may be taken under intimation to this office. LF induction on telecommunication circuits of Defense, if any, will be communicated after the receipt of details from DG Signals, MoD.

Encl.: As above

Chief Engineer

To,

| | | | |
|----|--|--|----------------------|
| 1. | Divisional Engineer (PTCC) | O/o CGM, QA & Inspection circle, 2 nd Floor, Sanchar complex, WMS compound, Jayanagar, 5 th block, 9 th main, 47 th cross, Bengaluru- 560 041 | |
| 2. | GM (S&T), South Western Railway | South Western Railway Headquarter, Rail Soudha, Hubballi – 580 023 | |
| 3. | M/s IRIS Renewables Two Private Limited | 31-C, 2nd floor, Mohammadpur, Bhikaji Cama Place, New Delhi - 110066 | Copy for information |

ANNEXURE-I

| CEA Case No.: KNK-1130 | | | Map Scale : 1 cm= 500 m | | |
|--|-------------------------|-------------------------------------|----------------------------------|---|----------------------|
| Name of the Power line: 220 kV D/C line from 400/220 kV Doni S/s to 220/33 kV PSS of M/s IRIS Renewables Two Private Limited, Harlapur Village, Gadag | | | Total Length : 15.704 km | | |
| | | | S.R. Value : 30000 Ohm-cm | | |
| S.No. | Telecom. Details | Length of Parallelism in Km. | Mutual Coupling in Ohms. | Effective Fault current in Amps. | I.V in Volts. |
| South Western Railway: SG/SWR/PTCC/KNK1130/2784 Date: 23.07.2024 | | | | | |
| 1 | GDG to KGX | Out of parallelism | | | |
| 2 | KGX to RLP | 2.95 | 0.0126 | 25635 | 323 |
| 3 | RLP to SOQ | Out of parallelism | | | |

IRIS RENEWABLES TWO PRIVATE LIMITED (FORMERLY CHIMERA ENERGY INDIA PRIVATE LIMITED)

U40106DL2022PTC405582

Reg off add : 31-C, 2nd Floor Mohammedpur, Bhikaji Cama Place, New Delhi – 110066.

Corr off add : 4th Floor, 14, LANGFORD AVENUE, Langford Garden, Bengaluru,
Karnataka, 560025

irisrenewables@gmail.com | +91 9867727128

Ref: IRTPL/CEA(PTCC)/2024-25/2405251

Date: 16.09.2024

To

Chief Engineer, PSCD Division,
RoomNo.702 (North Wing), Central
Electricity Authority, Sewa Bhawan,
R K Puram, Sector 1, New Delhi 110066

Project Name: PTCC proposal for 220 kV D/C line from 400/220 kV Doni S/s to 220/33 kV PSS of M/s IRIS Renewables Two Private Limited, Harlapur Village, Gadag (Length: 15.704 km)

Sub: Request for necessary approval of PTCC Proposal

Ref 1: CEA Case No. KNK-1130 Dated: 25.05.2024
2: BSNL PTCC Work Request (Online Registration) No. 110206

Dear Sir,

With reference to the above subject, all our construction related work of the 220kV transmission line has been completed and line is waiting for charging. We had already applied for NOC from Ministry of Defence Delhi and still its pending.

It is requested that by the time it is received from MoD, the provisional PTCC clearance may be accorded so the transmission line could be charged as per schedule. In case of any damages to telecom assets of defence due to charging of the above cited transmission line M/s. IRIS Renewables Two Private Limited, shall bear all the expenses for its remediation.

Kindly process the request and do the needful at the earliest.

Thanking You

Yours faithfully,

M/s IRIS Renewables Two Pvt Ltd




Authorized Signature