

## 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.: TNG-106:

PTCC proposal for 400 kV D/C transmission line from 400 kV Kethireddypally S/S to proposed 400/220/132 kV Rayadurg GIS partly through UG cable: 42 km (approx.)

No.	Reference No.	Dated
(i)	TSTRANSCO:CE/400kV/SE-II/400kV/D1-A4/F.e-EHVT-01/18/D.No. 731/20	15.10.2020
(ii)_	BSNL: SR-PTCC/STS-2857/06	17.12.2021
(iii)	South Central Railway: SG.85/4/3/PTCC/SCRTS202133	13.12.2021
	RID	13.12.2021
(iv)	Defense: B/46937/Sigs 7(b)/2277	10.02.2021

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 Central 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 Central 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.

Signature Not Verified

Digitally signed by RAGHVENDRA PRATAP SINGH
Date: 2021.12.31 12:39:30 IST

Director

## To.

r –		DCMI Inspection Circle 1-t El. D.	
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.	SSTE/TELE/HQ	SCR, Head Quarters Office, Signal & Telcomm Branch, Rail Nilayam, Secunderabad-500025.	Annexure-II
3.	Chief Engineer/400 kV	TSTRANSCO, Vidyut Soudha, Hyderabad-500082.	Copy for information

(Annexure-I)

the power line: Erection of 400KV D/C line 132 KV Rayadurg GIS partly through U/G cable.  OH LINE=38.713 KM, UG CABLE = 3.048 KM, TOTAL = 41.761 KM(42 KM Approx)  R value: 149.69—ehm-ms  150.000-2000  Name of Telecom line  170GCB Exchange (Gachibowli)  Exchange to Pillar 22 at Telecom Magar (A-A1)  Exchange to Pillar 37 at Police Comm Offfice (A-A2)		V Kethiredd  Kethiredd  Kethiredd  Kethiredd	ypally SS to	proposed
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KM, TOTAL = 41.761 KM( 42 KM Approx)  K value: 119.69 ekm ms  /S, 000 cc,  Name of Telecom line  HYDGCB Exchange (Gachibowli)  exchange to Pillar 22 at Telecom Nagar (A-A1)	Type of BS LOP in	MC in		
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Pillar No 34 at MLA HOUSE(G-G1)  Achange to Pillar No 35 at GRAVE YARD(G-G3)  ACHANGE (DILLAR NO DO INNER ZONE (H-H1)  Achange to Pillar No 21 at URDU UNIVERSITY(H-H2)  Achange to Pillar No 21 at URDU UNIVERSITY(H-H2)  Achange to Pillar No 21 at URDU UNIVERSITY(H-H2)  Achange to Pillar No 35 at GRAVE YARD(G-G3)  ADSRT EXCHANGE (Lat INFOCITY)  Achange to Pillar No 31 at URDU UNIVERSITY(H-H2)  Achange to Pillar No 32 at URDU UNIVERSITY(H-H2)  Achange to Pillar No 49 at Friends colony (J-J1)  Achange to Pillar No 51 BHEEMAS HOTEL(J-J2)  Achange to Pillar No 0 at DREAM VALLY(J-J3)  Achange to Pillar 21 at SAVERA HOTEL(K-K1)  Achange to Pillar 22 at POLICE STATION(K-K2)	Achange to Pillar 25 at GPRA Campus (A-A5)  Achange to Pillar 29 at Opp IIIT NR TCS Gate (A-A6)  YDISB Exchnage (INDIAN SCHOIOL OF BUSINESS)  Achange to Pillar 00 inner Zone (B-B1)  YOINT Exchnage (INFOTEC)  Achange to Pillar 01 inner Zone (C-C1)  Achange to Pillar 21 at Infote x road(C-C2)  YDNRG Exchange (Nanak ram guda)  Achange to Pillar 21 at Infote x road(C-C2)  YDNRG Exchange (Nanak ram guda)  Achange to Pillar 21 at Hill Ridge Springs(E-E1)  Achange to Pillar 21 at Hill Ridge Springs(E-E1)  Achange to Pillar 21 at Hill Ridge Springs(E-E1)  Achange to Pillar No 23 at SBI R&D(F-F2)  Achange to Pillar No 23 at Doyans Colony(F-F2)  Achange to Pillar No 28 at SBI R&D(F-F3)  Achange to Pillar No 25 Near HCU Second gate(F-F5)  IB EXCHANGE ( MASID BANDA)  Achange to Pillar No 34 at MLA HOUSE(G-G1)  Achange to Pillar No 35 at GRAVE YARD(G-G3)  ACHANGE ( Pillar No 32 at URDU UNIVERSITY)  Achange to Pillar No 30 inner Zone (H-H1)  Achange to Pillar No 31 at URDU UNIVERSITY(H-H2)  Achange to Pillar No 32 at URDU UNIVERSITY(H-H2)  Achange to Pillar No 32 at Triends colony (F-I1)  Achange to Pillar No 32 at Friends colony (F-I1)  Achange to Pillar No 32 at PILLAR HILL RESIDENCE  Achange to Pillar No 32 at PILLAR HILL RESIDENCE  Achange to Pillar No 32 at URDU UNIVERSITY(H-H2)  Achange to Pillar No 32 at URDU 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SIDDHANTHI (K-K5)  Exchange to Pillar 32 at MISSION COMPOUND(K-K6)  HYD AZN EXCHANGE (AZIZ NAGAR)  Exchange to Pillar 00 INNER ZONE(L-L1)  Exchange to Pillar 21 BUS STAND(L-L2)  Exchange to Pillar 22 GANDHIPET X ROAD (L-L3)  Exchange to Pillar 23 YENKEPALLY X ROAD(L-L4)  Exchange to Pillar 24 GRAM PANCHAYAT(L-L5)  Exchange to Pillar NAGI REDDY GUDA(L-L6)  HYDNRS EXCHANGE (NARSINGI)  Exchange to Pillar 00 INNER ZONE (M-M1)  Exchange to Pillar 21 MANCHRIVULA X ROAD(M-M2)  Exchange to Pillar 22 PAPPALAGUDA (M-M3)  Exchange to Pillar 23 MANIKONDA BUS STOP (M-M4)  Exchange to Pillar 24 SECRATORY COLONY (M-M5)  Exchange to Pillar 30 MANCHERIVULIA VILLAGE (M-M6)  Exchange to Pillar 30 MANCHERIVULIA VILLAGE (M-M6)  HYDKNP EXCHANGE (KHANAPUR)  Exchange to Pillar 21 at GRAM PANCHAYAT(N-N2)  Exchange to Pillar 23 KHANAPUR BUS STAND(N-N3)  Exchange to Pillar 24 VATTI NAUGALAPALLI (N-N4)  HYDVGR EXCHANGE (VILLA GREEN)  Exchange to Pillar 21 at MAGADHA(O-O2)  Exchange to Pillar 22 GANDHIPET VILLAGE(O-O3)  Exchange to Pillar 23 CBIT (O-O4)  HYDMNDEXCHANGE (MOINABAD)  Exchange to Pillar 23 NEAR POST OFFICE(P-P2)  Exchange to Pillar 24 NEAR INDIAN OIL PETROL PUMP(P-P3)  HYDRNR EXCHANGE (Rejendira nagar)	Exchange to Pillar 39 at SIDDHANTHI (K-K5)  Exchange to Pillar 32 at MISSION COMPOUND(K-K6)  HYD AZN EXCHANGE (AZIZ NAGAR)  Exchange to Pillar 00 INNER ZONE(L-L1)  Exchange to Pillar 21 BUS STAND(L-L2)  Exchange to Pillar 22 GANDHIPET X ROAD (L-L3)  Exchange to Pillar 23 YENKEPALLY X ROAD(L-L4)  Exchange to Pillar 24 GRAM PANCHAYAT(L-L5)  Exchange to Pillar NAGI REDDY GUDA(L-L6)  HYDNRS EXCHANGE (NARSINGI)  Exchange to Pillar 21 MANCHRIVULA X ROAD(M-M2)  Exchange to Pillar 22 MANCHRIVULA X ROAD(M-M2)  Exchange to Pillar 23 MANIKONDA BUS STOP (M-M4)  Exchange to Pillar 23 MANIKONDA BUS STOP (M-M4)  Exchange to Pillar 25 LALAIMMA GARDEN(M-M6)  Exchange to Pillar 30 MANCHERIVULLA VILLAGE (M-M6)  HYDKNP EXCHANGE (KHANAPUR)  Exchange to Pillar 21 at GRAM PANCHAYAT(N-N2)  Exchange 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(M-M4)  Exchange to Pillar 24 SECRATORY COLONY (M-M5)  Exchange to Pillar 30 MANCHERIVULLA VILLAGE (M-M6)  HYDKNP EXCHANGE (KHANAPUR)  Exchange to Pillar 31 at GRAM PANCHAYAT(N-N2)  Exchange to Pillar 24 VATTI NAUGALAPALLI (N-N4)  HYDVGR EXCHANGE (VILLA GREEN)  Exchange to Pillar 21 at MAGADHA(O-O2)  Exchange to Pillar 22 GANDHIPET VILLAGE(C-O3)  Exchange to Pillar 23 CBIT (O-O4)  HYDMNDEXCHANGE (MOINABAD)  Exchange to Pillar 23 NEAR POST OFFICE(P-P2)  Exchange to Pillar 24 NEAR INDIAN OIL PETROL PUMP(P-P3)  HYDRNR EXCHANGE (Rajendira nagar)	Exchange to Pillar 39 at SIDDHANTHI (K-K5)  Exchange to Pillar 32 at MISSION COMPOUND(K-K6)  HYD AZN EXCHANGE (AZIZ NAGAR)  Exchange to Pillar 00 INNER ZONE(I-I.1)  Exchange to Pillar 21 BUS STAND(I-I.2)  Exchange to Pillar 22 GANDHIPET X ROAD (I-I.3)  Exchange to Pillar 23 YENKEPALLY X ROAD(I-I.4)  Exchange to Pillar 23 YENKEPALLY X ROAD(I-I.4)  Exchange to Pillar 24 GRAM PANCHAYAT(I-I.5)  Exchange to Pillar 10 INNER ZONE (M-M1)  Exchange to Pillar 10 INNER ZONE (M-M1)  Exchange to Pillar 21 MANCHRIVULA X ROAD(M-M2)  Exchange to Pillar 22 PAPPALAGUDA (M-M3)  Exchange to Pillar 23 MANIKONDA BUS STOP (M-M4)  Exchange to Pillar 23 MANIKONDA BUS STOP (M-M4)  Exchange to Pillar 24 SECRATORY COLONY (M-M6)  Exchange to Pillar 25 LALAMMA GARDEN(M-M6)  Exchange to Pillar 20 INNER ZONE (N-N1)  Exchange to Pillar 21 at GRAM PANCHAYAT(N-N2)  Exchange to Pillar 21 at GRAM PANCHAYAT(N-N2)  Exchange to Pillar 23 KHANAPUR BUS STAND(N-N3)  Exchange to Pillar 21 at MAGADHA(O-O2)  Exchange to Pillar 22 GANDHIPET VILLAGE(O-O3)  Exchange to Pillar 23 CBIT (O-O4)  HYDMNDEXCHANGE (MOINABAD)  Exchange to Pillar 23 NEAR POST OFFICE(P-P2)  Exchange to Pillar 24 NEAR INDIAN OIL PETROL PUMP(P-P3)  HYDRNR EXCHANGE (Rajendita nagar)  Exchange to Pillar 27 near NPA GATE(O-O1)	Exchange to Pillar 39 at SIDDHANTHI (K-KS)  Exchange to Pillar 32 at MISSION COMPOUND(K-KG)  HYD AZN EXCHANGE (AZIZ NAGAR)  Exchange to Pillar 00 INNER ZONE(I-L1)  Exchange to Pillar 21 BUS STAND(I-L2)  Exchange to Pillar 22 GANDHIPET X ROAD (L-L3)  Exchange to Pillar 22 GANDHIPET X ROAD (L-L4)  Exchange to Pillar 23 YENKEPALLY X ROAD(L-L4)  Exchange to Pillar 12 YENKEPALLY X ROAD(L-L4)  Exchange to Pillar 12 AGRAM PANCHAYAT(I-L5)  Exchange to Pillar 12 RASINGI)  Exchange to Pillar 00 INNER ZONE (M-M1)  Exchange to Pillar 21 MANCHRIVULA X ROAD(M-M2)  Exchange to Pillar 22 PAPPALAGUDA (M-M3)  Exchange to Pillar 23 MANIKONDA BUS STOP (M-M4)  Exchange to Pillar 23 MANIKONDA BUS STOP (M-M4)  Exchange to Pillar 23 MANIKONDA BUS STOP (M-M6)  Exchange to Pillar 23 KHANAPUR BUS STAND(N-N3)  Exchange to Pillar 23 KHANAPUR BUS STAND(N-N3)  Exchange to Pillar 21 at GRAM PANCHAYAT(N-N2)  Exchange to Pillar 21 at MASADHA(O-O2)  Exchange to Pillar 23 KHANAPUR BUS STAND(N-N3)  Exchange to Pillar 23 ISTANDALORADALI (N-N4)  HYDVOR EXCHANGE (VILLA GREEN)  Exchange to Pillar 23 THANASADHA(O-O2)  Exchange to Pillar 23 NEAR POST OFFICE(P-P2)  Exchange to Pillar 23 NEAR POST OFFICE(P-P2)  Exchange to Pillar 24 NEAR INDIAN OIL PETROL PUMP(P-P3)  HYDRNR EXCHANGE (Kajendira nagar)  Exchange to Pillar 24 NEAR INDIAN OIL PETROL PUMP(P-P3)	Exchange to Pillar 39 at SIDDHANTHI (K-K5)  Exchange to Pillar 32 at MISSIOM COMPOUND(K-K6)  HYD AZN EXCHANGE (AZIZ NAGAR)  Exchange to Pillar 21 BUS STAND(I-L1)  Exchange to Pillar 21 BUS STAND(I-L2)  Exchange to Pillar 22 GANDHIPET X ROAD (I-L3)  Exchange to Pillar 23 YENKEPALLY X ROAD (I-L4)  Exchange to Pillar 23 YENKEPALLY X ROAD (I-L4)  Exchange to Pillar 23 YENKEPALLY X ROAD (I-L4)  Exchange to Pillar 24 GRAM PANCHAYAT(I-L5)  Exchange to Pillar NAGI REDDY GUDA(I-L6)  HYDNRS EXCHANGE (NARSINGI)  Exchange to Pillar 21 MANCHRIVULA X ROAD(M-M2)  Exchange to Pillar 21 MANCHRIVULA X ROAD(M-M2)  Exchange to Pillar 23 MANCHRIVULA X ROAD(M-M2)  Exchange to Pillar 23 MANCHONDA BUS STOP (M-M4)  Exchange to Pillar 23 MANCHANDA (M-M5)  Exchange to Pillar 25 LALAMMA GARDEN(M-M6)  Exchange to Pillar 25 LALAMMA GARDEN(M-M6)  Exchange to Pillar 30 MANCHERIVULA VILLAGE (M-M6)  HYDKNP EXCHANGE (KHANAPUR)  Exchange to Pillar 21 at GRAM PANCHAVAT(M-N2)  Exchange to Pillar 23 KHANAPUR BUS STAND(M-N3)  Exchange to Pillar 24 VATTI NAUGALAPALLI (N-N4)  HYDVGR EXCHANGE (VILLA GREEN)  Exchange to Pillar 21 at MAGADHA(O-Q2)  Exchange to Pillar 23 CANDHIPET VILLAGE(O-Q3)  Exchange to Pillar 23 CRAN PHIPET VILLAGE(O-Q3)  Exchange to Pillar 23 NEAR CHOWRASTRA (P-P1)  Exchange to Pillar 23 NEAR CHOWRASTRA (P-P1)  Exchange to Pillar 24 NEAR INDIAN OIL PETROL PUMP(P-P3)  HYDRNR EXCHANGE (Kajendira nagar)  Exchange to Pillar 27 near NPA GATE(O-Q2)	Exchange to Pillar 39 at SIDDHANTHI (K-KS)  Exchange to Pillar 92 at MISSION COMPOUND(K-KG)  HYD AZN EXCHANGE (AZIZ NAGAR)  Exchange to Pillar 20 INSER ZONE(L-L1)  Exchange to Pillar 21 BUS STAND(L-L2)  Exchange to Pillar 22 GANDHIPET X ROAD (L-L3)  Exchange to Pillar 22 YENKEPALLY X ROAD(L-L4)  Exchange to Pillar 23 YENKEPALLY X ROAD(L-L4)  Exchange to Pillar 24 GRAM PANCHAYAT(L-L5)  Exchange to Pillar 124 GRAM PANCHAYAT(L-L5)  Exchange to Pillar 121 MANCHRIVULA X ROAD(M-M2)  Exchange to Pillar 21 MANCHRIVULA X ROAD(M-M2)  Exchange to Pillar 22 PAPPALAGUDA (M-M3)  Exchange to Pillar 23 MANIKONDA BUS STOP (M-M4)  Exchange to Pillar 23 MANIKONDA BUS STOP (M-M4)  Exchange to Pillar 25 LALAMAG GARDEN(M-M6)  Exchange to Pillar 25 LALAMAG GARDEN(M-M6)  Exchange to Pillar 26 MANCHERIVULLA VILLAGE (M-M6)  HYDKNP EXCHANGE (KHANAPUR)  Exchange to Pillar 21 at GRAM PANCHAYAT(M-N2)  Exchange to Pillar 21 at GRAM PANCHAYAT(M-N2)  Exchange to Pillar 22 ATTI NAUGALAPALLI (N-N4)  HYDVER EXCHANGE (VILLA GREEN)  Exchange to Pillar 21 at MAGADHA(O-O2)  Exchange to Pillar 22 at MAGADHA(O-O2)  Exchange to Pillar 23 LAMAGADHA(O-O2)  Exchange to Pillar 22 LAMAGADHA(O-O2)  Exchange to Pillar 23 CANDHIPET VILLAGE(O-O3)  Exchange to Pillar 23 CANDHIPET VILLAGE(O-O3)  Exchange to Pillar 22 LEXAR CHOWRASTRA (P-P1)  Exchange to Pillar 23 NEAR POST OFFICE(P-P2)  Exchange to Pillar 24 NEAR INDIAN OIL PETROL PUMP(P-P3)  HYDRNR EXCHANGE (Rajendira ragar)  Exchange to Pillar 27 near NPA GATE(O-O1)

(2/2)

CUNAT TOPR

तनुज/TANUJ सहयक निदेशक-II/Asstt. Director-II केन्द्रीय विद्युत प्राधिकरण/C.E.A. विद्युत मंत्रालय/Ministry of Power

ANNEXURE -II

CEA Case No.: TNG-106

Name of the Power line: 400 kV D/C transmission line from 400 kV Kethireddypally S/S to proposed 400/220/132 kV Rayadurg GIS partly through UG cable.

Map Scale : 1 cm=500 m Total Length: 42 km (approx.) Soil Resistivity: 15,000 ohm-cm

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	S.No.	Telecom. Details	Length of Parallelism in Km.	Mutual Coupling in Ohms	Effective Fault current	I.V în	
<u>د</u> ۲					in Amps	Volt	
ı	O						i

	South Central Railway letter no: SG.85/4/3/PTCC	C/SCRTS202	2133 RTD	Dated:13.12.2	021	
1.	Affected Blocks & Telec	om Circuits I	)etails		021	
2	Telapur to Ramachandrapuram TS	Outsi	de IV Consid	eration Zone	70	
3	Telapur to Lingampalli (LPI)		Out of Parallelism			
	Lingampalli to Hafizpet (HFZ)		Out of Parallelism			
4	Hafizpet to Santhnagar (SNF)		Out of Parallelism			
5`	Santhnagar to Hussain Sagar Jn. (HSJ)		Out of Parallelism Out of Parallelism			
6	Santhnagar to Ammuguda					
7	Hussainsagar Jn. to Hyderabad					
8	Hussainsagar Jn. to Secunderabad		Outside IV Consideration Zone			
9	Secunderabad to Sitaphalmandi					
10		Outside				
1	Sitaphalmandi to Kacheguda	Outside				
2	Kacheguda to Faluknuma (FM)	Outside				
	Faluknuma to Budvel (BDVL)	Outside				
3	Budvel to Umdanagar (UR)	.0.3	0.0001	8354	00	
4	Umdanagar to Timmapur (TMX)	5.7	0.0005		. 01	
5	Timmapur to Shadnagar			11429	06	
	<b>O</b>	Ouiside I	V Considera	tion Zone	00	

तन्त्राज्य १९०६ । । । सहप्रक निर्देशक II Asstt Director II कन्द्रीय विद्युत प्रविकरण/C.E.A. विद्युत मंत्रालय/Ministry of Power भारत सरकार/Govt. of India नई दिल्ला/New Delhi-66

Tele: 23019746

(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)/2277

P Feb 2021

Chief Engineer, (400kV)
TSTRANSCO
Transmission Corporation of Telangana Limited
Vidyut Soudha,
Hyderabad – 500 082

ERECTION OF RAYADURG SYSTEM IMPROVEMENT SCHEME-SUPPLY, ERECTION, TESTING AND COMMISSIONING OF 400/220/132KV GIS AT RAYADURG AND CONNECTED NETWORK ON TURNKEY BASIS-400KV DC LINE FROM 400KV KETHIREDDYPALLY SS TO PROPOSED 400/220/132KV RAYADURG GIS OF LENGTH 41.761KM (42KM APPROX)-PTCC PROPOSALS-FORWARDED-REG.

- 1. Refer your letter No Lr. No. CE/400kV/SE-II/400kV/D1-A4/F.e-EHVT-01/18/D.No. 980/20 dt 09 Dec 2020 (copy att).
- No Objection Certificate (NOC) is accorded based on inputs provided vide Map sheets received under your above mentioned letter.
- 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

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

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