



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-119		
PTCC approval of 765 kV DC line from existing Hyderabad 765/400 kV GIS to Kurnool 765/400 kV SS (167.717 km)-Regd.		
S. No.	Reference No.	Dated
(i)	M/s Warora Kurnool Transmission Ltd: WKTL/HYD/2021/81	30.07.2021
(ii)	M/s Warora Kurnool Transmission Ltd: WKTL/HYD/2022/619	04.11.2022
(iii)	BSNL: SR-PTCC/STS 0031/17	06.10.2022
(iv)	BSNL e-mail	17.11.2022
(v)	South Central Railway: SG.85/4/3/PTCC/SCRTS202153 RC	29.03.2022
(vi)	Defense: B/46937/Sigs 7(b)/2512	30.09.2021

The PTCC proposal submitted vide reference (i) &(ii) has been examined. The LF induction on telecom cables of BSNL with respect to details furnished vide above reference (iii) & (iv) has been computed. The voltages likely to be induced on paralleling telecom cables of BSNL under Single Line to Ground fault condition are enclosed at Annexure-I. The screening factors, as applicable, have been considered. Vide above reference (v), South Central Railway has issued No Objection Certificate (NOC). Vide above reference (vi), Defense has accorded its NOC.

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

Encl.: As above.

Digitally Signed by Upendra
Kumar

Date: 25-11-2022 15:19:26

Reason: Approved

Chief Engineer

To,

1.	Divisional Engineer (PTCC), Southern Zone	BSNL, Inspection Circle, 1st Floor, Raj Bhavan Exchange No. 26, Sardar Patel Road, Guindy, Chennai	
2.	M/s Warora Kurnool Transmission Ltd	Ground Floor, #001, Sai Prema Nilayam Apartments, Brindavan Gardens, Kishanguda, Telangana	For kind info



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क्रमांक	सन्दर्भ सं.	दिनांक
(i)	मेसर्स वरोरा कुरनूल ट्रांसमिशन लिमिटेड: WKTL/HYD/2021/81	30.07.2021
(ii)	मेसर्स वरोरा कुरनूल ट्रांसमिशन लिमिटेड: WKTL/HYD/2022/619	04.11.2022
(iii)	बीएसएनएल: SR-PTCC/STS 0031/17	06.10.2022
(iv)	बीएसएनएल ईमेल	17.11.2022
(v)	दक्षिण मध्य रेलवे: SG.85/4/3/PTCC/SCRTS202153 RC	29.03.2022
(vi)	रक्षा: B/46937/Sigs 7(b)/2512	30.09.2021

संदर्भ (i) & (ii) द्वारा प्रस्तुत पीटीसीसी प्रस्ताव की जांच की गई है। बीएसएनएल के टेलिकॉम केबल पर निम्न आवृत्ति प्रेरण गणना उपरोक्त संदर्भ (iii) & (iv) में दिए गए विवरणों के संबंध में की गई है। सिंगल लाइन टू ग्राउंड फाल्ट अवस्था में समानांतर बीएसएनएल के टेलिकॉम केबल पर प्रेरित वोल्टेज अनुलग्नक -I में संलग्न है। स्क्रीनिंग कारक का मान यथानुरूप लिया गया है। दक्षिण मध्य रेलवे ने उपरोक्त सन्दर्भ (v) के माध्यम से अनापत्ति प्रमाण पत्र जारी किया है। रक्षा प्राधिकरण ने उपरोक्त सन्दर्भ (vi) के द्वारा अनापत्ति प्रमाण पत्र जारी किया है।

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

संलग्न: ऊपरोक्त अनुसार

सेवा में

मुख्य अभियंता

1.	डिवीज़नल इंजिनियर, (पीटीसीसी), दक्षिण क्षेत्र	बीएसएनएल, इंस्पेक्शन सर्किल, प्रथम तल, राज भवन एक्सचेंज, सं. 26, सरदार पटेल मार्ग, गिंडी, चेन्नई	
2.	मेसर्स वरोरा कुरनूल ट्रांसमिशन लिमिटेड	ग्राउंड फ्लोर, #001, साई प्रेमा निलयम अपार्टमेंट, ब्रिन्दावन गार्डन, किशनगुदा, तेलंगाना	जानकारी हेतु

ANNEXURE -I

CEA Case No.: TNG-119		Map Scale : 1 cm=500 m			
Name of the Power line: 765 kV DC line from existing Hyderabad 765/400 kV GIS to Kurnool 765/400 kV SS		Total Length : 167.717 km			
		S.R. Value : 7,500 ohm-cm			
S.No.	Telecom. Details	Length of Parallelis m in Km.	Mutual Coupling in Ohms.	Effective Fault current in Amps.	I.V in Volts.
BSNL: SR-PTCC/STS 0031/17 Dated: 06.10.2022					
SSA: B.KURNOOL					
IG	GANGEYAPURAM EXCHANGE UG CABLES	-Out of Parallelism-			
1	Exge to Diguwapadu (G-G1)				
2	Exge to Kethavaram (G-G2)				
3	Exge to Church (G-G3)				
4	Exge to Bus stand (G-G4)				
5	Exge to Temple (G-G5)				
6	Exge to Opp.Diguwapadu Rd (G-G6)				
7	Exge to Opp.Exge (G-G7)				
II 0	ORVAKAL EXCHANGE UG CABLES				
1	Exge to Bus stand (O-O1)	0.75	0.0012	19821	17
2	Exge to Bus stand (O-02)	0.75	0.0013	19810	19
3	Exge to Bus stand (O-03)	0.75	0.0017	19840	25
4	Exge to Kannamadakala Rd (O-O4)	0.8	0.0016	19835	26
5	Exge to Thippaiah palli Rd (O-O5)	0.6	0.0008	19825	9
6	Exge to Village local (O-O6)	-Out of Parallelism-			
7	Exge to Kannamadakala (O-O7)	1.3	0.0009	19785	24
III NAU	NANDIKUTKUR EXCHANGE UG CABLES				
1	Exge to towards Nandyal Road(NAU-P21)	1.4	0.0014	16320	33
2	Exge to towards Old Exge(NAU-P61)	1.9	0.0013	16340	41
3	Exge to Exge Pillar(NAU-P22)	-Out of Parallelism-			
4	Exge to Exchange street(NAU-P23)	0.5	0.0008	16540	7
5	Exge to Hari nagar(NAU-P24)	1.3	0.0020	16400	42
6	Exge to Vidya nagar(NAU-P25)	1.3	0.0017	16380	36
7	Exge to .Bus stand(NAU-P26)	0.4	0.0029	16330	19

I/24645/2022	Exge to Pragna School(NAU-P27)	1.2	0.0020	16280	40
9	Exge to CSI Churchr(NAU-P28)	2.2	0.0022	16250	77
10	Exge to Patel center(NAU-P31)	-Out of Parallelism-			
11	Exge to Sikharipet(NAU-P41)	1	0.0014	16270	23
12	Exge to Subbaraopet(NAU-PS1)	1.2	0.0017	16310	33
13	Exge to Saibaba pet(NAU-P71)	1.1	0.0056	16240	100
14	Exge to RTC Bus stand(NAU-P91)	1.1	0.0012	16210	21
15	Exge to Shanthi Talkies(NAU-P81)	1.5	0.0043	16185	105
IV MOH	MIDTHUR EXCHANGE UG CABLES				
1	Exge to Pillar.No.21(MDH-P21)	-Out of Parallelism-			
2	Exge to Pillar.No.22(MDH-P22)				
3	Exge to Pillar.No.23(MDH-P23)				
V BMK	BRAMHANKOTKUR EXCHANGE UG CABLES				
1	Exge to Pillar.No.21(BMK-P21)	0.4	0.0009	15650	6
2	Exge to Pillar.No.22(BMK-P22)	0.5	0.0011	15540	9
VI PGD	PAGIDYALA EXCHANGE UG CABLES				
1	Exge to Pillar.No.21(PGD-P21)	-Out of Parallelism-			
2	Exge to Pillar. No.22(PGD-P22)				
3	Exge to Pillar.No.23(PGD-P23)				
4	Exge to Pillar.No.24(PGD-P24)				
VII ALU	ALLUR EXCHANGE UG CABLES				
1	Exge to Nandikotkur(ALU-DPIO)	-Out of Parallelism-			
2	Exge to Malyala Road(ALU-DP20)	0.5	0.0093	14950	69
VIII KDL	KONIDELA EXCHANGE UG CABLES				
1	Exge to Nandikotkur(KDL-DPIO)	0.7	0.0011	14560	11
2	Exge to Post Office DP(KDL-DPIS)	0.4	0.0055	14400	32
3	Exge to Muchumarri	3.2	.01	14230	455
SSA: C.MAHABOONAGAR					
I K	KOLLAPUR EXCHANGE UG CABLES				
1	Exge to Bus stand(K-K1)	0.6	0.0009	13280	8
2	Exge to Raja Veedhi(K-K2)	0.8	0.0009	13240	10
3	Exge to R & B Guest House(K-K3)	0.5	0.0009	13340	6
4	Exge to Varidela(K-K4)	0.9	0.0017	13330	20
5	Exge to Pentlavelli Road(K-KS)	0.7	0.0023	13275	22

6	Exge to Madhava swami nagar(K-KS)	0.6	0.0028	13290	22
7	Exge to Pentla velli Road(K-K7)	1.3	0.0010	13330	18
II P	PENTLAVELU EXCHANGE UG CABLES				
1	Exge to BTS 2G & 3G RF Cables(P-Pl)				-Out of Parallelism-
III C	PEDDAKOTHAPALLI EXCHANGE UG CABLES				
1	Exge to Gram Panchayat(C-Cl)	0.3	0.0104	11280	35
2	Exge to Bus stand(C-Cl)	0.2	0.0045	11240	10
3	Exge to Police Station(C-C3)	0.2	0.0034	11330	8
4	Exge to BTS 2G & 3G RF Cables(C-C4)	1.4	0.0068	11380	108
IV A	NAGARKURNOOL EXCHANGE UG CABLES				
1	Exge to Post Office(A-A1)				
2	Exge to Dist.Collectorate(A-A2)				
3	Exge to Housing Board(A-A3)				
4	Exge to Om Nagar(A-A4)				
5	Exge to Madura nagar(A-AS)				
6	Exge to Ram nagar(A-A6)				
7	Exge to Murttan Market(A-A7)				
8	Exge to Bus stand(A-A8)				
9	Exge to MRO Office(A-A9)				
10	Exge to Police Quarters(A-A10)				
11	Exge to Agri Godown(A-All)				
12	Exge to Santha Bazaar(A-A12)				
V B	PEDOAMUDUNUR EXCHANGE UG CABLES				
1	Exge to Vijaya Bank(B-81)	0.75	.006	10000	50
VI KKY	KALWAKURTHY EXCHANGE UG CABLES				
1	Exge to Mahabubnagar chourasta to Vidya nagar(KKY-KKY1)				-Out of Parallelism-
2	Exge to Mahabubnagar chourasta to Cotton Mill(KKY-KKY2)	1.25	.0010	14311	19
3	Exge to Mahabubnagar chourasta to Nagarkurnool Road(KKY-KKY3)				-Out of Parallelism-
VII T	TALAKONOAPALLY EXCHANGE UG CABLES				
1	Exge to Bus standr(T-T1)	1	0.0024	17245	42
2	Exge to X-Road(T-T2)	1	0.0023	17245	40
VIII AML	AMANGAL EXCHANGE UG CABLES				
1	Exge to Bus stand(AML-AML1)				-Out of Parallelism-
IX KI	KADTHAL EXCHANGE UG CABLES				
1	Exge to Hyd.road(KL-Kll)	2	0.0062	18562	231