



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/AND-683/312-14

Date: 18/03/2019

The Divisional Engineer Telecom (PTCC),
QA & Inspection (T&D) circle, BSNL,
1st floor, Raj Bhavan Exchange,
No.26, Sardar Patel Road,
Guindy, Chennai-600032

Subject: PTCC Route Approval for 400kV D/C Vemagiri – Kamavarapukota T/L

Reference:

- i) BSNL letter no. SR-PTCC/SAP-2104/6 dated 7/12/18
- ii) South Central Railway letter no. SG.85/4/3/PTCC/SCRAP201829 RTD dated 28/8/18
- iii) Defense letter no. B/46937/Sig 7(b)/1138 dated 19/7/18

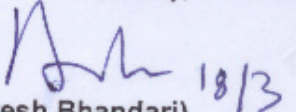
Sir,

The low frequency induction on BSNL and South Central Railway telecommunication circuits as per details furnished vide above cited references (i) and (ii) respectively has been examined. The average soil resistivity value has been taken as 2500 Ohms-cm, as per data submitted by Power Authority. Voltages likely to be induced on paralleling BSNL and South Central Railway telecommunication circuits under SLG (Single Line to Ground) fault condition are enclosed at Annex-I & II respectively. The screening factors as applicable have been considered. Vide ref. (iii) above, Defense Authority have issued No Objection Certificate (NOC), a copy is enclosed at Annex-III.

Taking above into consideration, kindly issue PTCC Route Approval.

Encl: As above

Yours faithfully,


(Naresh Bhandari)
Chief Engineer

Copy to:

- (i) SSTE, Head Quarter Office, S&T Branch, Rail Nilayam, Secunderabad – 500 025 (with Annexure II only)
- (ii) Chief Engineer (Construction), APTRANSCO, Vidyut Soudha, Vijajawada-520 004

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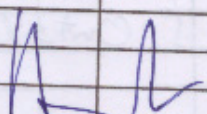
CEA Can. No. AND-683.

Case No. SRPTCC/SAP/2104		SSA : East Godawari/West Godawari				
Scale: 1 : 50000						
Name of Power line :- 400 KV Twin Moose DC Line from existing 400/220 KV Vemagiri SS to Proposed 400/220 KV Kamavarapukota SS -LF comments .						
Length: 92.471 KMs				Type of Cable: PIJF		
Average SR value : 25.00 Ohm-cm.						
No	Name of telecom line	LOP in KMs	MC in Ohms	FC in Amps	IV in Volts	Safe Separation Distance
1	Duvva Exchange					
1	Exchange to S.R.Palem P 21	}				- Outside IV consideration zone -
2	Exchange to Muddapuram P 25					
3	Exchange to Pasalapudi P 29					
2	Peravali Exchange					
1	Exchange to Ajajaram P 23	}				- Outside IV consideration zone -
2	Exchange to Teeparu P 21					
3	Exchange to Kakaraparru P 22					
3	Undrajavaram Exchange					
1	Exchange to Tanuku Road P24	}				- Outside IV consideration zone -
2	Exchange to Local P 23					
3	Exchange to Local 2 P25					
4	Exchange to Mortha P 26					
5	Exchange to Damennu P 22					
6	Exchange to Velagaduru P 21					
7	Exchange to Tadiparru P 27					
4	Velivenu Exchange					
1	Exchange to Khaldari P 25	}				- IV less than 430V - - Outside IV consideration zone -
2	Exchange to Khaldari2 P 26					
3	Exchange to Velivenu Centre P 21					
4	Exchange to Velivenu Market P 22					
5	Exchange to Velivenu Local 1 P 23					
6	Exchange to Velivenu Local 2 P 24					
5	Kanuru Exchange					
1	Exchange to Local 1 P 21	}				- IV less than 430V -
2	Exchange to Muniapalli P 24					
3	Exchange to Local 2 P 25					
4	Exchange to InnerZone					
5	Exchange to Pendyala P -23	}				- IV less than 430V -
6	Exchange to Local 2 P 22					
7	Exchange to Kanuru Agraharam P 25					
8	Exchange to Usulumarru P 26					
9	Exchange to Naidpalli P 27					

नरेश भंडारी / NARESH BHANDARI
 मुख्य अभियन्ता / Chief Engineer
 केन्द्रीय विद्युत प्राधिकरण / C.E.A.
 विद्युत मंत्रालय / Ministry of Power
 भारत सरकार / Govt. of India
 नई दिल्ली / New Delhi

18	Ananthapalli Exchange				
1	Exchange to Chodavaram 23 B	}	- Outside IV consideration zone -		
2	Exchange to Telikicharla 23 A				
3	Exchange to Nabhipeta				
19	Venkata Ramanan Goday Exchange				
1	Exchange to Ramanna Gudem	}	- Outside - IV consideration zone.		
2	Exchange to Local (InnerZone)				
20.	Pattempalem Exchange				
1	Exchange to Veerampalem P 23	}	Outside - IV consideration zone.		
2	Exchange to Bangaru Guday P24				
3	Exchange to Kommuguday P 21				
4	Exchange to Neeladripuram P 22				
21	Bhimadola Exchange				
1	Exchange to M N palli X road to M.N .Palli Village	}	- Outside IV consideration zone.		
2	Exchange to M N palli X road to M.N .Palli Village				
3	Exchange to M.N.Palli Road to Gopalapuram				
4	Exchange to M.N.Palli Road to Gopalapuram Village				
22	Gunnampalli Exchange				
1	Exchange to Kappalakunta	}	- Outside IV consideration zone.		
2	Exchange to Mahadevapuram				
3	Exchange to Buttayagudem				
4	Exchange to Gunnampalli Village				
23	Pavulurivarigudem Exchange				
1	Exchange to Pavulurivarigudem	}	- IV less than 430V -		
2	Exchange to Gollagudem				
3	Exchange to Boppanavarigudem				
4	Exchange to Tirumalampalem				
5	Exchange to Marampalli Rajupalem.	2.2	0.031	13055	405
6	Exchange to Jajulakunta Marampalli.	2.1	0.044	13055	574
7	Exchange to Jajulakunta.				

नरेश भंडारी/NARESH BHANDARI
मुख्य अभियन्ता/Chief Engineer
केन्द्रीय विद्युत प्राधिकरण/C.E.A.
विद्युत मंत्रालय/Ministry of Power
भारत सरकार/Govt. of India
नई दिल्ली/New Delhi-66

24	Dwarkatirumala Exchange				
1	Exchange to Venkatakrishnapuram				
2	Exchange to Tadicharla	}	- IV less than 430V -		
3	Exchange to Gundugolanukunta				
4	Exchange to Dorasanipadu				
5	Exchange to Venkteswara temple		- Outside IV Consideration zone.		
6	Exchange to Rallakunta				
7	Exchange to Timmapuram				
			- IV less than 430V		
25	Kamavarapukota Exchange				
1	Exchange to Ramanapalem P 31	}			
2	Exchange to East Yadavalli P 31				
3	Exchange to Uppalapadu P 31				
4	Exchange to Ankalamapadu P 22				
5	Exchange to Jalaparugudam P 22		- Outside IV consideration zone.		
26	Tadikalapudi Exchange				
1	Exchange to Veersetigudam P 23	}			
2	Exchange to Tallagokavara P 22				
3	Exchange to Sagipadu P 24				
4	Exchange to Veerampalem P 24				
5	Exchange to Ratnagirinagar P 21		- Outside IV consideration zone.		
			 नरेश भंडारी / NARESH BHANDARI मुख्य अभियंता / Chief Engineer केन्द्रीय विद्युत प्राधिकरण / C.E.O. विद्युत मंत्रालय / Ministry of Power भारत सरकार / Govt. of India नई दिल्ली / New Delhi		

AND - 683

ANNEX-III

Tele : 23019746

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

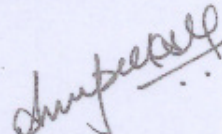
B/46937/Sigs 7(b)/1138 /

19 Jul 2018

The Chief Engineer,
400 KV, Construction
AP TRANSCO, Vidyut Soudha,
Gunadala, Vijayawada

**ERECTION OF 400 KV TWIN MOOSE DC LINE FROM EXISTING 400/220 KV
VEMAGIRI SUB - STATION TO PROPOSED 400/220 KV KAMAVARAPU KOTA
- STATION (ZONE-5) ON TURKEY BASIS**

1. Reference your letter Lr.No.CE/400kv/SE-PM/D3-A1/F:Vem-K.Kota line/D.No.09 18 dt 04 Apr 2018.
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.



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

Copy to :-

Central Electricity Authority
Power Communication Development Division
NRPC Complex, 18-A, Shaheed Jeet Singh S Marg
Katwaria Sarai, New Delhi - 110016

- For information.