



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/TN-677/1055-56

Date : 04.11.2019

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: Induced Voltage Calculation in respect of PTCC proposal for 230 kV SC line on DC tower from the proposed 230/33 kV pooling substation by Betam Wind Energy Private Ltd to the proposed PGCIL 400/230 kV Tuticorin II GIS pooling substation.

Reference: i) BSNL letter no. SR-PTCC/TN-1721/07 dated 30.09.2019
ii) Southern Railway letter no. W.384/3/2/1202 dated 06.09.2019
iii) Defence letter no. B/46937/Sigs 7(b)/1567 dated 10.06.2019

Sir,

The instant PTCC proposal has been examined. The low frequency induction on telecom cables of BSNL with respect to details furnished vide above references have been computed. The Soil Resistivity (SR) value has been taken as 15000 and 25000 Ohm-cm. The voltages likely to be induced on paralleling telecom cables of BSNL under Single Line to Ground fault condition are enclosed at Annex-I. The screening factors, as applicable, have been considered. Vide ref. (ii) above, Southern Railway have issued No Objection Certificate (NOC). Vide ref. (iii) above, Defence Authority have issued No Objection Certificate (NOC) (a copy enclosed as Annex-II).

Taking above into consideration, kindly take necessary action for PTCC route approval.

Encl.: As above

(Upendra Kumar)
Chief Engineer

Copy to:

M/s Betam Wind Energy Pvt Ltd. 1st floor, Orchid Centre, Sector - 53, Golf Course Road, Gurugram - 122002

M/e

Case No. TN 1721		SSA:Tuticorin			
Name of the power line		Proposed 230 KV SC line on DC towers with AAAC zebra conductor from the proposed 230/33 KV pooling substation at Savarimangalam by M/s Betam Wind Energy Private Limited to the proposed PGCIL 400/230 KV Tuticorin II GIS pooling Sub station.			
Length:	18.040	Kms			
SR value : 15000, 25000 ohm cms		Type of BSNL telecom cable : PIJF			
I	PASUVANTHANAI Exge UG cables	LoP (km)	MIC (m)	FL (A)	IV (V)
1	Pasuvanthanai Exge	}			
2	Exge to DP0018A				
3	Exge to DP0017A				
4	Exge to DP0016A				
5	Exge to DP0015A				
6	Exge to DP0013A				
7	Exge to DP0014A				
8	Exge to DP0006A				
9	Exge to DP0005A				
10	Exge to DP0003B				
11	Exge to DP0003A				
12	Exge to DP0025A				
13	Exge to DP0007A				
14	Exge to DP0008A				
15	Exge to DP0009A				
16	Exge to DP0009B				
17	Exge to DP0010A				
18	Exge to DP0010B				
19	Exge to DP0036A				
20	Exge to DP0035A				
21	Exge to DP0024A				
22	Exge to DP0031A				
23	Exge to DP0033A				
24	Exge to DP0032A				
25	Exge to DP0001A				
II	OTTAPIDARAM Exge UG cables				
1	Exge to Dalavaipuram DP(OTP 2308A)	}			
2	Exge to Araikulam DP(OTP 2318A)				
3	Exge to Araikulam DP to Araikulam Paracheri DP (OTP 2320A)				

IV less than 430V →

← out of ISM →

04/11/15

1/2

मुख्य अभियंता/Chief Engineer
 केंद्रीय विद्युत प्राधिकरण/C.E.A. P.T.O.
 विद्युत मंत्रालय/Ministry of Power
 भारत सरकार/Govt. of India
 नई दिल्ली/New Delhi

III	MANIYACHI Exge UG cables				
1	Exge to DP 0001A	}	← out of ILSM →		
2	Exge to Pillar 22 to DP 2201				
3	Exge to Pillar 22 to DP 2202				
4	Exge to Pillar 22 to DP 2210B				
5	Exge to DP IZ0004A				
6	Exge to Pillar 21 to DP 2103 A				
7	Exge to Pillar 21 to DP 2105A				
8	Exge to Pillar 21 to DP 2108A				
IV	KADAMBOOR Exge UG cables				
1	Exge to Kuppanapuram (DP 4215)	}	← IV less than 430V →		
2	Exge to Ottudanpatti (DP 4219)				
3	Exge to Illavelangal (DP 4115)				
V	DURAIYUR Exge UG cables				
1	Exge to Pillar 21 to Kuruvinatham to Koppampatti (DP 2101)	}	← IV less than 430V →		
2	Exge to Pillar 21 to Kuruvinatham to Athikinaru (DP 2102)				
3	Exge to Erachi (DP 0001)				
4	Exge to Erachi to T.Shanmugapuram (DP0004)				
5	Exge to Sivanthipatti (DP 0005)				
6	Exge to Sivanthipatti to Mudukkalankulam (DP 0006)				
7	Exge to Sivanthipatty to Theethapatty (DP 0007)				

Upendran
 04/11/19
 मुख्य अभियंता/Chief Engineer
 कन्द्रीय विद्युत प्राधिकरण/C.E.A.
 विद्युत मंत्रालय/Ministry of Power
 भारत सरकार/Govt. of India
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Directorate General of Signals
 Signals - 7
 General Staff Branch
 Integrated HQ of MoD, (Army)
 DHQ PO, New Delhi - 110011

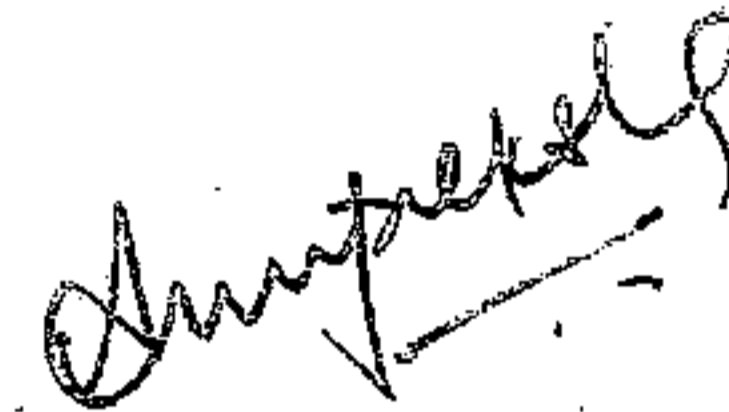
B/46937/Sigs 7(b)/1567

10 Jun 2019

~~Director~~
 Betam Wind Energy Private Limited
 1st Floor Orchid Centre, Sec-53,
 Golf Course Road, Gurugram-122002(HRY)

PTCC CASE OF 230KV SINGLE CIRCUIT TRANSMISSION LINE FROM BETAM WIND FARMS (SAVARIMANGLAM) TO TUTICORIN-II GIS POOLING STATION (PS) FOR 250.2MW WIND POWER PROJECT OF BETAM WIND ENERGY PRIVATE LIMITED ("BWEPL") AT TUTICORIN, TAMIL NADU ("PROJECT")

1. Ref your letter No SECI III-IV/P&A/PTCC/2019/03 dt 15 Apr 2019 (copy att).
2. 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

for information.