



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-675 / 1117-1118

Date : 15.11.2019

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 of 230 kV SC line on DC towers from existing 400/230kV Pugalur PGCIL S/S to proposed 230/33 kV pooling S/S of M/s SPRNG RENEWABLE ENERGY PVT LTD at Mulanur village, Dharapuram Taluk, Tirupur district.

Reference: i) Sprng Renewable Energy Pvt ltd. proposal no. sprng/Mulanur/PTCC/001 dated 23.04.2019
ii) BSNL letter no. SR-PTCC/TN-1720/08 dated 10.10.2019
iii) Southern Railway letter no. W.384/3/2/1197 dated 09.05.2019
iv) Defence letter no. B/46937/Sigs 7(b)/1582 dated 11.06.2019

The instant PTCC proposal submitted via reference (i) has been examined. The low frequency induction on telecom cables of BSNL with respect to details furnished vide above reference (ii) have been computed. The Soil Resistivity (SR) value has been taken as 30,000 Ohm-cm and 40,000 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. (iii) above, Southern Railway have issued No Objection Certificate (NOC). Vide ref. (iv) 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.

This issue with the approval of Chief Engineer, PCD Division, CEA.

Encl.: As above

अप्रवे नु उताप हि
15.11.19
(R P Singh)
Director

m/c

Copy to:

M/s Sprng Renewable Energy Pvt Ltd., Unit No. FF-48 A, First Floor, Omaxe Square, Plot no. 14, Jasola District Centre, New Delhi - 110025

CEA CASE NO : TN-675

Case No. TN-1720		SSA: Trichy			
Name of the power line		230 KV SC line on DC towers from existing 400/230 KV Pugalur PGCIL SS to proposed 230 KV Pooling substation of M/s SPRNG Renewable PVT LTD at Mulanur Village Dharapuram Taluk, Tirupur District			
Length:	30.581 Kms				
Average SR value : 30,000 \pm 40,000 ohm cms					
Type of BSNL cable: PIJF UG cable					
Sl.No.	Name of Telecom line	LOP in KMs	MC in Ohms	FC in Amps	IV in Volts
I	K.Paramathi Exge UG cables				
1	Exge to P 22-DP-2202	}			
2	Exge to P 22-DP-2203				
3	Exge to P 22-DP-2201				
4	Exge to P 23-DP-2301				
5	Exge to P 23-DP-2302				
6	Exge to P 23-DP-2303				
7	Exge to P 23-DP-2304				
8	Exge to P 23-DP-2305				
9	Exge to P 23-DP-2306				
10	Exge to P 23-DP-2307				
11	Exge to P 24-DP-2402				
12	Exge to P 24-DP-2403				
13	Exge to P 25-DP-2505				
14	Exge to P 25-DP-2504				
15	Exge to P 25-DP-2503				
II	Thennilai Exge UG cables				
1	Exge to P21--DP-2101	}			
2	Exge to P21--DP-2102				
3	Exge to P21--DP-2103				

← IV less than 430V →

शिवेंद्र प्रताप सिंह
 RABHIVENDRA PRATAAP SINGH
 निदेशक / Director
 केन्द्रीय विद्युत प्राधिकरण / C.E.A.
 विद्युत मंत्रालय / Ministry of Power
 भारत सरकार / Government of India
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4	Exge to P21--DP-2104				
5	Exge to P21--DP-2105				
6	Exge to P22--DP-2201				
7	Exge to P22--DP-2202				
8	Exge to P23--DP-2301				
9	Exge to P23--DP-2302				
10	Exge to P24--DP-2401				
11	Exge to P24--DP-2402	} ← IV less than 430V →			
12	Exge to P24--DP-2403				
13	Exge to P24--DP-2404				
14	Exge to P24--DP-2405				
15	Exge to P25--DP-2501				
16	Exge to P25--DP-2502				
17	Exge to P25--DP-2503				
18	Exge to P25--DP-2504				
19	Exge to P25--DP-2505				
III	Vairamadai Exge UG cables				
20	Exge to Inner Zone-DP-0001	} ← IV less than 430V →			
21	Exge to Inner Zone-DP-0002				
22	Exge to Inner Zone-DP-0003				
23	Exge to Inner Zone-DP-0004				
IV	Chinnadarapuram Exge UG cables				
24	Exge to Inner Zone-DP-0001	} ← IV less than 430V →			
25	Exge to Inner Zone-DP-0002				
26	Exge to Inner Zone-DP-0003				
27	Exge to Inner Zone-DP-0004				
28	Exge to Inner Zone-DP-0005				
29	Exge to Inner Zone-DP-0006				

राधेन्द्र प्रताप सिंह
 RASMEENDRA PRATAP SINGH
 निदेशक / Director
 केन्द्रीय विद्युत प्राधिकरण / C.E.A.
 विद्युत मंत्रालय / Ministry of Power
 भारत सरकार / Govt. of India
 नई दिल्ली / New Delhi-68

30	Exge to Inner Zone-DP-0007				
31	Exge to Inner Zone-DP-0008				
32	Exge to Inner Zone-DP-0009				
33	Exge to Inner Zone-DP-0010				
34	Exge to P21-DP-2101				
35	Exge to P21-DP-2102				
36	Exge to P21-DP-2103				
37	Exge to P21-DP-2104				
38	Exge to P22-DP-2201				
39	Exge to P22-DP-2202				
40	Exge to P22-DP-2203				
41	Exge to P22-DP-2204				
42	Exge to P22-DP-2205				
43	Exge to P23-DP-2301				
44	Exge to P23-DP-2302				
45	Exge to P23-DP-2303				
46	Exge to P23-DP-2304				
47	Exge to P23-DP-2305				
48	Exge to P24-DP-2401				
49	Exge to P24-DP-2402				
50	Exge to P24-DP-2403				
51	Exge to P24-DP-2404				
52	Exge to P24-DP-2405				
53	Exge to P24-DP-2406				
54	Exge to P24-DP-2407				
55	Exge to P25-DP-2501				
56	Exge to P25-DP-2502				
57	Exge to P25-DP-2503				

← IV less than 430V →

राजेश कुमार सिंह

राजेश कुमार सिंह
 RACHVENDRA PRATAP SINGH
 Director
 S.E.A.
 Dept. of Power
 New Delhi-68

Case No. TN 1720

SSA:Erode

Name of the power line

Proposed 230 KV SC line on DC towers from existing 400/230kV Pugalur PGCIL SS to proposed 230/33kV pooling substation of M/s.SPRNG RENEWABLE ENERGY PVT LTD,at Mulanur village,Dharapuram Taluk,Tirupur district.

Length: 30.581 Kms

Average SR value : ohm cms

Type of BSNL telecom cable : PIJF

I MULANUR Exge UG cables

1	Exge to Pillar 21	}		
2	Exge to Pillar 22 to DP 2202			
3	Exge to pillar 23 to DP 2304			
4	Exge to pillar 23 to DP 2314			
5	Exge to pillar 25 to DP 2501			
6	Exge to pillar 25 to DP 2507			
7	Exge to pillar 25 to DP 2512			
8	Exge to pillar 25 to DP 2517			
9	Exge to pillar 26 to DP 2601			
10	Exge to pillar 26 to DP 2615			
11	Exge to pillar 33 to DP 3301			
12	Exge to pillar 33 to DP 3304			
13	Exge to pillar 33 to DP 3315			
14	Exge to pillar 34 to DP 3402			
15	Exge to pillar 34 to DP 3410			
16	Exge to pillar 35 to DP 3504			
17	Exge to pillar 35 to DP 3529			
18	Exge to pillar 41 to DP 4101			
19	Exge to pillar 42 to DP 4201			
20	Exge to pillar 42 to DP 4205			
21	Exge to pillar 42 to DP 4213			
22	Exge to pillar 51 to DP 5101			
23	Exge to pillar 51 to DP 5107			
24	Exge to pillar 51 to DP 5113			
25	Exge to pillar 51 to DP 5124			
← out of 115m →				
II	PUDUPPAI EXGE	}		
1	Exge to pillar 23 to DP 2356			
2	Exge to pillar 24 to DP 2401			
3	Exge to pillar 24 to DP 2459			
4	Exge to pillar 24 to DP 2462			
5	Exge to pillar 32 to DP 3205			
6	Exge to pillar 32 to DP 3227			
7	Exge to pillar 32 to DP 3235			
← Views than 430V →				

21/03/2019

राजेश प्रताप सिंह
Rajesh Pratap Singh
निदेशक/ Director
केंद्रीय विद्युत प्राधिकरण / C.E.A.
विद्युत मंत्रालय / Ministry of Power
भारत सरकार / Govt. of India
नई दिल्ली / New Delhi-69

III	KANNIVADI EXGE UG cables								
1	Exge to Inner Zone DP(I/Z 0001)	5.4	0.1005	6100	613				
2	Exge to Inner Zone DP(I/Z 0021)	5.5	0.1036	6200	632				
3	Exge to Inner Zone DP(I/Z 0024)	}							
4	Exge to Inner Zone DP (I/Z 0034)								
5	Exge to Inner Zone DP (I/Z 0043)								
6	Exge to pillar 21 to DP 2103								
7	Exge to pillar 21 to DP 2115								
8	Exge to pillar 21 to DP 2160								
9	Exge to pillar 21 to DP 2171								
10	Exge to pillar 21 to DP 2180								
11	Exge to pillar 21 to DP 2182								
12	Exge to pillar 31 to DP 3106								
13	Exge to pillar 31 to DP 3109								
14	Exge to pillar 31 to DP 3120					← IV less than 430V →			
15	Exge to pillar 31 to DP 3130								
16	Exge to pillar 31 to DP 3161								
17	Exge to pillar 31 to DP 3164								
18	Exge to pillar 51 to DP 5101								
19	Exge to pillar 51 to DP 5107								
20	Exge to pillar 51 to DP 5114								
21	Exge to pillar 51 to DP 5134					शुभचक्र संस्थान लि. RAGHUNANDRA PRASAD SINGH निदेशक/Director केंद्रीय विद्युत प्राधिकरण/C.E.A. विद्युत मंत्रालय/Ministry of Power भारत सरकार/Govt. of India नई दिल्ली/New Delhi 68			
IV	VADUGAPATTI EXGE UG cables								
1	Exge to Inner Zone DP (I/Z 0001)					}			
2	Exge to Inner Zone DP (I/Z 0025)								
3	Exge to Inner Zone DP (I/Z 0034)								
4	Exge to Inner Zone DP (I/Z 0039)								
5	Exge to pillar 21 to DP 2101	← IV less than 430V →							
6	Exge to pillar 21 to DP 2107								
7	Exge to pillar 22 to DP 2205								
8	Exge to pillar 22 to DP 2219								

V	ARIKKARANVALASU EXGE UG cables				
1	Exge to Inner Zone I/Z 0001	}			
2	Exge to Inner Zone I/Z 0012				
3	Exge to Inner Zone I/Z 0029				
4	Exge to pillar 21 to DP 2105				
5	Exge to pillar 21 to DP 2136				
6	Exge to pillar 21 to DP 2142				
7	Exge to pillar 22 to DP 2201				
8	Exge to pillar 22 to DP 2216				
9	Exge to pillar 22 to DP 2225				
10	Exge to pillar 22 to DP 2231				
VI	PUNJAITHALAIYUR EXGE UG cables				
1	Exge to Inner Zone DP (I/Z 0001)	}			
2	Exge to Inner Zone DP (I/Z 0002)				
3	Exge to Inner Zone DP (I/Z 0008)				
4	Exge to Inner Zone DP (I/Z 0014)	2.5	0.0779	6200	483
5	Exge to Inner Zone DP (I/Z 0027)	}			
6	Exge to Inner Zone DP (I/Z 0029)				
7	Exge to Inner Zone DP (I/Z 0042)				

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राघवेंद्र प्रताप सिंह

RAGHVENDRA PRATAP SINGH
 निदेशक/Director
 केन्द्रीय विद्युत प्राधिकरण/C.E.A.
 विद्युत मंत्रालय/Ministry of Power
 भारत सरकार/Govt. of India
 नई दिल्ली/New Delhi-69

Tele : 23019746

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

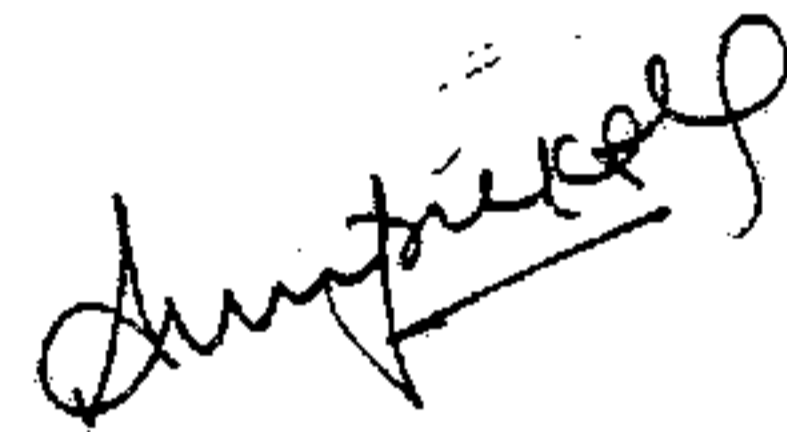
B/46937/Sigs 7(b)/1582

11 Jun 2019

Spring Renewable Energy Private Limited
Unit No. FF-48A, First Floor, Omaxe Square
Plot No. 14, Jasola District Centre,
New Delhi-110025

**PTCC PROPOSAL FOR M/S SPRNG RENEWABLE ENERGY PRIVATE LTD, 230/33KV
MULANUR POOLING SUBSTATION (TIRUPUR) TO 400/230KV PUGALUR PGCIL
SUBSTATION**

1. Ref your letter No sprng/Mulanur/PTCC/001 dt 23 Apr 2019 (copy att).
2. No Objection Certificate (NOC) is accorded based on inputs provided vide Map sheets 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

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.

श्री प्रदीप, १५.६

प्रदीप सिंह, १५.०६.१९

PLO

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