



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-641 | 285-287

Date:12/03/2019

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 Pugalur- Kalivanthapattu T/L

Reference: i) BSNL letter no. SR-PTCC/TN/1701/18 dated 05/10/2018
ii) South Railway letter no. W.384/3/2/1112 dated 24.07.2014
iii) Defense letter no. B/46937/Signs 7(b)/802/ dated 02/02/2018

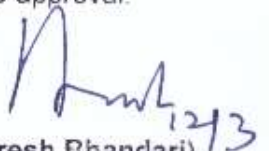
Sir,

The instant PTCC proposal has been examined. The low frequency induction on telecom cables of BSNL and Block & Telecom Circuits of Southern Railway; with respect to details furnished vide above reference has been computed. The average Soil Resistivity (SR) value has been taken as 75,000 Ohm Cm, as intimated by Power Authority (TNTRANSCO). The voltages likely to be induced on paralleling telecom cables of BSNL and Block & Telecom circuits of Southern Railway circuits under single line to ground fault condition have been computed and are enclosed at Annex-I & II respectively. The screening factors, as applicable, have been considered.

Vide Ref. (iii) above, the Defense authority have issued No Objection Certificate (NOC) (enclosed at Annex-III).

Taking above into consideration, kindly take necessary action regarding issue of PTCC route approval.


Encl.: As above


(Naresh Bhandari)
Chief Engineer

Copy to:

- (i)SSTE, Southern Railway, Headquarters Office, S&T Branch, Chennai- 600003 (with Annexure II only).
(ii) Superintending Engineer/Transmission-I, TNTRANCO,6th Floor, NPKRR Maaligai,144, Anna Salai,Chennai.-600002

CEA Case No. TN-641		SSA: SALEM							
1701 SALEM									
Name of PWR line: 400 KV DC line with twin moose ACSR from PGCIL Pugalur 400 KV SS to PGCIL Kalivanthapattu 400 KV SS									
Length: 148+114+100 kms									
Average SR value : 75,000 ohm cms									
No	Name of Telecom line	LOP in KMs	MC in Ohms	FC in Amps	IV in Volts				
✓A	GOVINDAMPALAYAM Exge UG cables								
1	EXGE-P31-DP 3101	}			- IV less than 430V -				
2	EXGE-P31-DP 3102								
3	EXGE-P31-DP 3103								
4	EXGE-P23-DP2301	}							
5	EXGE-P23-DP2302								
6	EXGE-P23-DP2303								
7	EXGE-P22-DP2203								
8	EXGE-P22-DP2204								
9	EXGE-P22-DP2205								
10	EXGE-P22-DP2201					}			- IV less than 430V -
11	EXGE-P22-DP2202								
12	EXGE-P21-DP2101					}			
13	EXGE-P21-DP2102								
14	EXGE-P21-DP2103								
15	EXGE-P21-DP2104								
16	EXGE-P21-DP2105								
17	EXGE-P21-DP2106								


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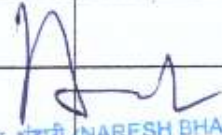
12	EXGE-P32-DP3205	— less than 430V —				
13	EXGE-P33-DP3301	3	0.0575	9550 549		
14	EXGE-P22-DP2201	}				
15	EXGE-P33-DP3304					
16	EXGE-P22-DP2204					
17	EXGE-P22-DP2203					
18	EXGE-P21-DP2102				— IV less than 430V —	
19	EXGE-P21-DP2103	}				
20	EXGE-P33-DP3303					
D	SATHAPADU Exge UG cables					
1	EXGE-DPA1	3	0.04935	9689 478		
2	EXGE-DPA2	}				
3	EXGE-DPA3					
4	EXGE-DPA4					
5	EXGE-DPB1					
6	EXGE-DPB2				— IV less than 430V —	
7	EXGE-DPC1	}				
8	EXGE-DPC2					
9	EXGE-DPC3					
10	EXGE-DPC4					
11	EXGE-DPC5					
E	GANGAVALLI Exge UG cables					
1	EXGE-P21-A2-DP2101	}				
2	EXGE-P21-A3-DP2102				— less than 430V —	
3	EXGE-P21-A4-DP2103					
4	EXGE-P21-A5-DP2104				27	0.04585

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F	GUDAMALAI Exge UG cables				
1	EXGE-DP 0001-A1	1.7	0.0642	10,000	642
2	EXGE-DP 0002-A2	}			
3	EXGE-DP 0003-A3				
4	EXGE-DP 0004-A4				
5	EXGE-DP 0005-B1				
6	EXGE-DP 0006-B2				
7	EXGE-DP 0007-B3				
8	EXGE-DP 0008-B4				
9	EXGE-DP 0009-C1				
10	EXGE-DP 0010-C2				
G	TAMMAMPATTI Exge UG cables				
1	EXGE-P42-DP 4201	}			
2	EXGE-P42-DP 4202				
3	EXGE-P42-DP 4203				
4	EXGE-P41-DP 4101				
5	EXGE-P41-DP 4102				
6	EXGE-P41-DP 4103				
7	EXGE-P41-DP 4104				
8	EXGE-P41-DP 4105				
9	EXGE-P37-DP 3701				
10	EXGE-P37-DP 3702				
11	EXGE-P37-DP 3703				
12	EXGE-P35-DP3501				
13	EXGE-P35-DP3502				
14	EXGE-P35-DP3503				

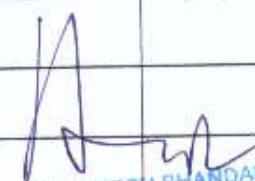
- IV less than 430V -

- IV less than 430V



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- IV less than 430V -

12	EXGE-P24-DP 2401				
13	EXGE-P21-DP 2101	}	- IV less than 430V -		
14	EXGE-P21-DP 2105				
15	EXGE-P21-DP 2110				
	ERAMPATTI Exge UG cables				
1	EXGE-P31-DP 3101	3.6	0.0488	12646	617
2	EXGE-P31-DP 3102	}	- IV less than 430V -		
3	EXGE-P31-DP 3104				
4	EXGE-P31-DP 3105				
5	EXGE-P31-DP 3108				
6	EXGE-P21-DP2101				
7	EXGE-P21-DP2102				
8	EXGE-P21-DP2108				
9	EXGE-P21-DP2103				
10	EXGE-P21-DP2105				
11	EXGE-DP 0003				
12	EXGE-P22-DP 2219				
13	EXGE-P22-DP 2203				
14	EXGE-P22-DP 2201				
15	EXGE-P22-DP 2204				
16	EXGE-P22-DP 2207	}	- IV less than 430V -		
17	EXGE-P22-DP 2209				
18	EXGE-P22-DP 2210				
19	EXGE-P22-DP 2224				
20	EXGE-P22-DP 2225				
21	EXGE-P32-P33-DP 3301				- IV less than 430V -


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5	EXGE-DP 0022	} - IV less than, 430V -			
6	EXGE-DP 0016				
7	EXGE-DP 0017				
✓ L	MOHANUR Exge UG cables				
1	EXGE-P33-DP3301	} - IV less than 430V -			
2	EXGE-P33-DP3203				
3	EXGE-P52-DP5201				
4	EXGE-P52-DP5209				
5	EXGE-P25-DP2501				
6	EXGE-P25-DP2503				
7	EXGE-P23-DP2307				
8	EXGE-P24-DP2401				
9	EXGE-P44-DP4407				
10	EXGE-P44-DP4401				
11	EXGE-P44-DP4405				
12	EXGE-P45-DP4501				
13	EXGE-P45-DP4503				
14	EXGE-P43-DP4301				
M	VADAKUMARAI Exge UG cables				
1	DP EXGE-A1	} - IV less than 430V -			
2	DP EXGE-A2				
3	DP EXGE-B1				
4	DP EXGE-C1				
5	DP EXGE-D1				
6	DP EXGE-D2				
7	DP EXGE-E1				


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P	KADAMBURI Exge UG cables				
1	EXGE-DP 0005	}	— Out of 11000 —		
2	EXGE-DP 0006				
3	EXGE-DP 0007				
4	EXGE-DP 0001	}	— IV less than 430V —		
5	EXGE-DP 0002				
6	EXGE-DP 0003	}	— IV less than 430V —		
7	EXGE-DP 0004				

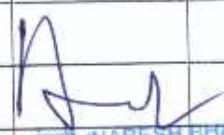
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TN641D

CEA Case No. TN 641		SSA: Cuddalore - Med			
Case No. TN-1701		Name of PWR line: 400 KV DC line with twin moose ACSR from PGCIL Pugalur 400 KV SS to PGCIL Kalivanthapattu 400 KV SS			
Length: 148+114+100 kms					
Average SR value : 75,000 ohm cms					
No	Name of Telecom line	LOP in KMs	MC in Ohms	FC in Amps	IV in Volts
A	Vallam Exge UG cables				
6	EXGE-Main road-Mudalur				Outside IV calculation consideration zone.
7	EXGE-Main road-Nattarmangalam				— IV less than 430V —
8	EXGE-Main road-Deevanur road				Outside IV calculation consideration zone.
9	EXGE-Main road-Sithamoor				— IV less than 430V —
10	EXGE-Main road-Kongarappattu				Outside IV calculation consideration zone.
B	ILLODU Exge UG cables				
1	EXGE-GINGEE ROAD				} — IV less than 430V —
2	EXGE-PENNAGAR ROAD				
3	EXGE-HIGH SCHOOL				
C	VALATHY Exge UG cables				
1	EXGE-MELMALAIYANUR ROAD				} — IV less than 430V —
2	EXGE-HOSPITAL ROAD				
3	EXGE-SATHAMBADI				
4	EXGE-DEVANUR				
5	EXGE-GINGEE ROAD				
D	MELMALAIYANUR Exge UG cables				
1	EXGE-VALATHY ROAD				} — IV less than 430V —
2	EXGE-THAYANUR VILLAGE				
3	EXGE-BAZAAR ROAD				
4	EXGE-MEM KOIL ROAD				
5	EXGE-MAIN ROAD				


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H	SANKARAPURAM Exge UG cables				
1	EXGE-INNER ZONE	}	- IV less than 420V -		
2	EXGE-P21 POIKUNAM ROAD				
3	EXGE-P24 BUS STAND				
4	EXGE-P61-BDO OFFICE				
6	EXGE-P62-VADASEMAPALAYAM VILLAGE	}	- IV less than 430V -		
7	EXGE-P62-MANJAPUTHUR VILLAGE				
8	EXGE-P81-VADASIRUVALLUR ROAD,PANDALAM				
9	EXGE-P62 DEVAPANDALAM BUS STOP	}	- IV less than 430V -		
10	EXGE-P82-S.KOLATHUR				
11	EXGE-P31-POOTAI				
12	EXGE-P32 THIYAGARAJAPURAM ROAD				
I	VIRIYUR Exge UG cables				
1	EXGE-PALAIYANUR VILLAGE	}	- IV less than 430V -		
3	EXGE-THIMMANANDAL				
4	EXGE-RAMARAJAPURAM				
5	EXGE-ARASAMPATTU				
J	MURARASAD Exge UG cables				
1	EXGE-AALATHUR VILLAGE	2.6	0.0887	7295	647
2	EXGE-SOZHAMPATTU VILLAGE	}	- IV less than 430V -		
4	EXGE-GOVT.HR.SEC.SCHOOL-ALAGAPURAM				
5	EXGE-MIDDLE STREET				
K	SOOLANKURICHI Exge UG cables				
1	EXGE-THANDALAI	}	- IV less than 430V -		
2	EXGE-LOCAL EAST				
3	EXGE-PALLIPATTU				
L	KALLAKURICHI Exge UG cables				
1	EXGE-GANDHI ROAD PILLAR 32	}	- IV less than 420V -		
2	EXGE-KULATHU METTU STREET PILLAR 53				
3	EXGE-GOVT.HOSPITAL-PILLAR 51				
4	EXGE-GIRLS HR.SEC.SCHOOL-P31				
5	EXGE-LIC-P24				
7	EXGE-FIRE STATION-P43	}	- IV less than 430V -		
8	EXGE-NALLATHUR VILLAGE				
9	EXGE-AKT P 74				
10	EXGE-MANMANDAL P64	}	- IV less than 430V -		
11	EXGE-PS4-SADAIYAMPATTU				

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9	EXGE-P61 POLICE STATION				— IV Less than 430V	
11	EXGE-P72 SIVAN KOIL STREET				— IV Less than 430V —	
10	EXGE-P71 OLD POST OFFICE	}				
12	EXGE-P73 THULUVA VELLALAR MANDAPAM					
13	EXGE-P74 GANDHI NAGAR					— IV Less than 430V —
14	EXGE-P81-KANIYANOOR					
15	EXGE-P82-KANIYANOOR EXTN					


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Case No. TN-1731		SSA: CHTD			
Name of PWT line: 400 KV DC line with twin moose ACSR from PGCIL Pugalur 400 KV SS to PGCIL Kalivanthapattu 400 KV SS					
Length: 148+114+100 kms					
Average SR value : ohm cms					
No	Name of Telecom line	LOP in KMs	MC in Ohms	FC in Amps	IV in Volts
A	GUDUVANCHERRY Exge UG cables	}	— Out of 113m —		
1	EXGE-RAILWAY STATION PILLAR				
2	EXGE-SRINIVASAPURAM PILLAR				
4	EXGE-THIRUMALAI PILLAR				
7	EXGE-SPICJOTHI PILLAR				
B	ARULNAGAR Exge UG cables	}	— Out of 115m —		
4	EXGE-KUTHANUR				
2	EXGE-THAI MOOGAMBIGAI NAGAR				
C	KAYRAMBEDU Exge UG cables	}	IV less than 430v —		
5	EXGE-PERUMATTU NALLUR PILLAR				
3	EXGE-PANDUR VILLAGE				
4	EXGE-SRIRAM SANKKARI APTS				
7	EXGE-KALIVANTHAPATTU VILLAGE				
D	MARAIMALAINAGAR Exge UG cables	}	— Out of 113m —		
1	EXGE-ANNASALAI				
5	EXGE-POTHERI				
7	EXGE-FORD				
8	EXGE-PERAMANUR				
10	EXGE-RAILNAGAR	Outside IV calculation consideration zone.			

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1	EXGE-MMR COLLEGE			
2	EXGE-VANDAVASI ROAD	}	Outside IV calculation consideration zone	
3	EXGE-SOTHUPAKKAM			
4	EXGE-KILMARUVATHUR			
✓ L	ELAPAKKAM Exge UG cables			
1	EXGE-BAZAAR			— IV less than 430V —
2	EXGE-RAMAPURAM			— IV less than 430V —
✓ M	ORATHY EXCHANGE UG CABLES			
1	EXGE-ERIKARAI ROAD	}	Outside IV calculation consideration zone	
2	EXGE-PURAKKAL			
3	EXGE-TINNALUR			
✓ N	NELLIKUPPAM EXCHANGE UG CABLES			
1	EXGE-SCHOOL ROAD	}	— IV less than 430V —	
2	EXGE-AMMAPETTAI			
3	EXGE-P24			
4	EXGE-P22			

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19/25

Case No. TN- 1771		SSA Tiruchi- MAP I			
Name of PWR line: 400 KV DC line with twin moose ACSR from PGCIL Pugalur 400 KV SS to PGCIL Kalivanthapattu 400 KV SS					
Length: 148+114+100 kms					
Average SR value ohm cms					
No	Name of Telecom line	LOP in Kms	MC in Ohms	FC in Amps	IV in Volts
A	Chettipalayam Exge UG cables				
1	EXGE-DP 2301	}			IV less than 430V -
2	EXGE-DP 2221				
3	EXGE-DP 2201				
4	EXGE-DP 2101				
B	CHINNANDAN KOIL Exge UG cables				
1	EXGE-DP9601	}			- IV less than 430V -
2	EXGE-DP2521				
C	SUNGAGATE Exge UG cables				
1	EXGE-DP 7801	}			- IV less than 430V -
2	EXGE-DP 6822				
3	EXGE-DP 6801				
D	BAZAR RSU Exge UG cables				
1	EXGE-DP 3001	}			- IV less than 430V -
2	EXGE-DP 8101				
E	VADIVELNAGAR EXGE UG CABLES				
1.	EXGE-DP8432	}			- IV less than 430V -
2.	EXGE-DP8141				
3	EXGE-DP 8501				
4.	EXGE-DP 8027				
F	VENGAMEDU Exge UG cables				
1	EXGE-DP 5401	}			- IV less than 430V -
2	EXGE-DP 6801				
3	EXGE-DP 5007				
4	EXGE-DP 5040				
		51	0 0466	13.57	649
		52	0 0433	13.912	603

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Case No. TN- 1791		SSA, Tiruchi- MAP II				
No	Name of Telecom line	LOP in KMs	MC in Ohms	FC in Amps	IV in Volts	
A KASIPALAYAM Exge UG cables						
1	EXGE-DP1(JYOTTIYAVADI)				— IV less than 430V —	
B PARAMATHI Exge UG cables						
1	EXGE-P21-DP2101	}				
2	EXGE-P21-DP2102					
3	EXGE-P21-DP2103					
4	EXGE-P23-DP 2303		O/O/P			— IV less than 430V —
5	EXGE-P23-DP 2304		O/O/P			
6	EXGE-P26-DP2601					
7	EXGE-P26-DP2602					
8	EXGE-P26-DP2603					
C ATTIPALAYAM Exge UG cables						
1	EXGE-DP1	}				
2	EXGE-DP2					
3	EXGE-DP3					— Out of 1150V —
4	EXGE-DP4					
5	EXGE-DP6					
6	EXGE-DP7					
7	EXGE-DP8					— IV less than 430V —
8	EXGE-DP9					
9	EXGE-DP10					
D PAVITHRAM Exge UG cables						
1	EXGE-P21-DP1	}				
2	EXGE-P21-DP2					— IV less than 430V —
3	EXGE-P21-DP3					

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6	EXGE-P21-DP6			
7	EXGE-P21-DP7			
8	EXGE-P21-DP8			
9	EXGE-P21-DP9			
10	EXGE-P21-DP10			
11	EXGE-P21-DP11			
12	EXGE-P21-DP12			
13	EXGE-P22-DP13			
14	EXGE-P22-DP16			
15	EXGE-P22-DP16A			
16	EXGE-P22-DP21			
17	EXGE-P22-DP19			
18	EXGE-P22-DP17			
19	EXGE-P22-DP18			
G	KAGITHAPURAM (KGM) Exge UG cables			
1	EXGE-P25-DP1			
2	EXGE-P25-DP3			
3	EXGE-P28-DP4			
4	EXGE-P28-DP5			
5	EXGE-P28-DP6			
6	EXGE-P28-DP7			
7	EXGE-P24-DP8			
8	EXGE-P27-DP12	O/O/P		
9	EXGE-P29-DP13	O/O/P		
10	EXGE-P29-DP14	O/O/P		

IV less than 430V —

— out of 115mm —

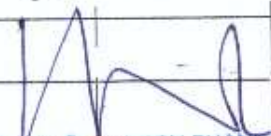
— IV less than 430V —

— out of 115mm —

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

23/25

K	SOMN(Somur koyampalli) Exge UG cables				
1	EXGE-OP2102	}	— Out of 11 ^{500V} —		
2	EXGE-OP2103				
3	EXGE-P23-DP 2304				
4	EXGE-P23-DP 2301				
5	EXGE-P23-DP 2302				
6	EXGE-P22-DP 2201	}	— IV less than 430V —		
7	EXGE-P22-DP 2204				
L	MANMANGALAM Exge UG cables				
1	EXGE-P21-DP1	}	— IV less than 430V —		
2	EXGE-P21-DP4				
3	EXGE-P22 DP 7				
4	EXGE-P22 DP 6				
M	THENNIALAI Exge UG cables				
1	EXGE-DP2511	}	— IV less than 430V —		
2	EXGE-DP2512				
3	EXGE-DP2515				
4	EXGE-DP2403				
5	EXGE-DP2408				


 ज्येष्ठ इंजीनियर / JYESTH BHANU
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 भारत सरकार / Govt. of India
 नई दिल्ली / New Delhi-68

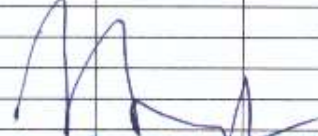
25/25

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ANNEXURE - II

Case No.: / -641					
Name of the Power Line : 400 KV D/C PUGALUR – KALIVANTHAPATTU TRANSMISSION LINE	मैप स्केल : 1 सेमी=500 मीटर रूट की लम्बाई : 362.0 कि.मी औसत एस.आर की मात्रा : 75,000 ओम_सेमी				
क्रम संख्या	टेलीकाम विवरण	समानांतरिय लम्बाई (कि.मी) में	म्युचुअल कप्लिंग (ओम) में	प्रभावी फाल्ट करंट (एम्पियर) में	प्रेरण वोल्टेज (वोल्ट) में

SOUTHERN RAILWAY					
Ref. No. W.384/3/2/1112 Date : 24-07-2014					
AFFECTED BLOCK & TELECOM CIRCUITS DETAIL					
1.	KUDUMUDI - VIRARAKKIAM	14.1	0.00955	13888	132
2.	KARUR - VELLIYANAI	0.2	0.00018	13883	3
3.	KARUR - LADDIVADI	12.8	0.0131	13302	174
4.	SIRUVATTUR - TALAVASAL	12.9	0.0033	8556	28
5.	TIRUKKOVILUR - TANDARAI	6.7	0.01154	9124	105
7.	GUDUVANCHERI - SINGAPERUMAL	Out of parallelism			0


 नाश बंधारी / NARESH BHANDARI
 मुख्य अभियंता / Chief Engineer
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 विद्युत विभाग / Ministry of Power
 भारत सरकार / Govt. of India
 नई दिल्ली / New Delhi-66

TN-641
ANNEX-TT
©

Tele : 23019746

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

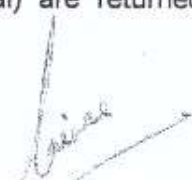
B/46937/Sigs 7(b)/802/

02 Feb 2018

Er, R.S Usha, B.E,
Superintending Engineer./Transmission -I
6th floor, NPKRR Maaligai
144, Anna Salai,
Chennai - 600002

**PTCC PROPOSAL FOR 400KV DC LINE WITH TWIN MOOSE ACSR
FROM PGCIL PUGALUR 400 KV SS TO PGCIL
KALIVANCHAPATTU 400 KV SS**

1. Reference your letter No. SE/TR-I/EW./A1/L-408/D.147/14 dated 20 Jun 2014 (received on 26 Dec 2017).
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.


(Nainee Sharma)
Lt Col
GSO 1 (Comn)
for SO-in-C

Copy to :-

✓ The Director (PTCC), CAE
NREB Complex,
18-A, Shaheed Jeet Singh Marg
Katwaria Sarai, New Delhi - 110016.

- For information.