

भारत सरकार
Government of India
विद्युत मंत्रालय
Ministry of Power
केन्द्रीय विद्युत प्राधिकरण
Central Electricity Authority
विद्युत संचार विकास प्रभाग
Power Communication Development Division

No.: CEA/PCD/PTCC/TN-685/659-661

Date: 06.11.2020

Subject: - Induced voltage calculation in respect of 400 kV D/C (Quad) Pugalur HVDC Station-Thiruvalem transmission line – Reg.


Reference: -

- | | |
|---|-------------------|
| (i) PGCIL Ref. No. SR-II/KRR TLC/PT-Line/PTCC/2019/1310 | Dated: 25.11.2019 |
| (ii) BSNL Ref. No. SR-PTCC/STN 2646/09 | Dated: 28.10.2020 |
| (iii) Southern Railway Ref. No. W.384/3/2/1206 | Dated: 23.12.2019 |
| (iv) Defense Ref. No. B/46937/Sigs 7(b)/1933 | Dated: 03.02.2020 |

The PTCC proposal submitted vide ref. (i) has been examined. The LF induction on the BSNL Telecom Lines, Block and Communication circuits of Southern Railway as per details furnished vide ref. (ii) and (iii) respectively has been examined. The average Soil Resistivity value has been taken as 20,000 Ohms-cm. Voltages likely to be induced on paralleling BSNL Telecom Lines, Block and Communication circuits of Southern Railway under single line to ground fault condition are enclosed at Annex-I and Annex- II respectively. The screening factors as applicable have been considered. NOC accorded by the Defense vide ref. (iv) above for the line is enclosed at Annex-III.

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

Encl.: As above.


06.11.2020
(Upendra Kumar)
Chief Engineer

To,
DET (PTCC), South Zone, QA & Inspection (T&D) Circle, BSNL,
1st Floor, Raj Bhavan Exchange No. 26,
Sardar Patel Road, Guindy, Chennai-600032.

Copy to: 1. General Manager, S & T, Southern Railway, Headquarters Office, S & T Branch, Chennai-600003. (Annex-II only)
2. DGM/Karur TLC, PGCIL, SRTS-II, Karur CAO, 400/230 kV Substation, Coimbatore Main Road, K. Paramathi Post, Karur-639111.

MIC

2

| | | | | | SSA: Erode | |
|----------------------------------|---------------------------|------------|------------|--|-------------|------------------------|
| Name of FWR line: | | | | Pugalur HVDC Station - Thiruvaiyam 400KV D/C (Quad) Transmission Line | | |
| Length: | 292.086 | | Kms | | | |
| TYPE OF BSNL CABLE: PIJF | | | | | | |
| Average SR value : 20000 ohm ome | | | | | | |
| Sl.No. | Name of Telecom line | LOP in KMs | MC in Ohms | FC in Amps | IV in Volts | |
| Erode SSA Telecom details | | | | | | |
| 18 | EXGE - P62 - DP6229 | | | | | } IV less than 430V |
| 19 | EXGE - P63 - DP6303 | | | | | |
| 20 | EXGE - P64 - DP6422 | | | | | |
| 21 | EXGE - P71 - DP7120 | | | | | |
| 22 | EXGE - P72 - DP7204 | | | | | |
| 23 | EXGE - P73 - DP7313A | | | | | |
| 24 | EXGE - P74 - DP7415 | | | | | |
| 25 | EXGE - P81 - DP8103 | | | | | |
| 26 | EXGE - P82 - DP8239 | | | | | |
| 27 | EXGE - P83 - DP8337 | | | | | |
| III | PUDUPPAI EXCHANGE | LOP in KMs | MC in Ohms | FC in Amps | IV in Volts | |
| 1 | EXGE - P-21 - DP 21X01 | | | | | } IV less than 430V |
| 2 | EXGE - P-22 - DP 22X30 | | | | | |
| 3 | EXGE - P-23 - DP 23X79 | | | | | |
| 4 | EXGE - P-31 - DP 31X04 | | | | | |
| 5 | EXGE - P-32 - DP 32X72 | | | | | |
| IV | DASANAYAKANPATTI EXCHANGE | LOP in KMs | MC in Ohms | FC in Amps | IV in Volts | |
| 1 | EXGE - INZ - DP0084 | | | | | } IV less than 430V |
| 2 | EXGE - P21 - DP2194 | | | | | |
| 3 | EXGE - P31 - DP3149 | | | | | |

4

| | | | | | SSA: Erode | |
|----------------------------------|--|------------|------------|---|-------------|------------------------|
| Name of PWR line: | | | | Pugalur HVDC Station - Thiruvalem 400KV D/C (Quad) Transmission Line | | |
| Length: | 382.086 | | Kms | | | |
| TYPE OF BSML CABLE: PUF | | | | | | |
| Average SR value : 20000 ohm cms | | | | | | |
| Sl.No. | Name of Telecom line | LOP in KMs | MC in Ohms | FC in Amps | IV in Volts | |
| Erode SSA Telecom details | | | | | | |
| 3 | UTY Exge - P23 - DP 2330 KULLAMPALAYAM | | | | | } IV less than 430V |
| 4 | UTY Exge - P24 - DP 2430 MUTHALIPALAYAM | | | | | |
| 5 | UTY Exge - P25 - DP 2507 SAMATHUVAPURAM | | | | | |
| 6 | UTY Exge - P26 - DP 2620 NOCHIPALAYAM | | | | | |
| 7 | UTY Exge - P27 - DP 2719C THAYAMPALAYAM | | | | | |
| 8 | UTY Exge - P28 - DP2811 AARUTHOLUVU | | | | | |
| X | NANJIYAMPALAYAM EXCHANGE | LOP in KMs | MC in Ohms | FC in Amps | IV in Volts | |
| 1 | Exge to Pillar 255 Primary | | | | | |
| 2 | Exge to Pillar 253 Primary | | | | | |
| 3 | Exge to Pillar 252 Primary | | | | | |
| 4 | Pillar 253 to TRN Politechnic DP 0003 | | | | | |
| 5 | Pillar 252 to Venkittipalayam EB office DP0024 | | | | | |
| 6 | Pillar 253 to Maharani politechnic DP052A | | | | | |
| 7 | Pillar 255 to Kuppuchipalayam DP0044 | | | | | |
| 8 | Pillar 253 to RTO office DP026A | | | | | |
| 9 | Pillar 255 to kuppuchipalayam DP0043 | | | | | |

6

| | | SSA: Trichy | | | |
|----------------------------|----------------------------|---|------------|------------|-------------|
| Name of PWR line: | | Pugalur HVDC Station - Thiruvafam 400KV D/C (Quad) Transmission Line | | | |
| Length: | 392.086 | Kms | | | |
| TYPE OF BSNL CABLE: PIJF | | | | | |
| Average SR value : | | 20000 ohm cms | | | |
| Sl.No. | Name of Telecom line | LOP in KMs | MC in Ohms | FC in Amps | IV in Volts |
| Trichy SSA Telecom details | | | | | |
| 5 | EXGE -INZ- DP0008 | } | IV | less than | 430V |
| 6 | EXGE -INZ- DP0002A | | | | |
| V | METTUPALAYAM EXCHANGE | LOP in KMs | MC in Ohms | FC in Amps | IV in Volts |
| 1 | EXGE - P23A-DP23A14 | } | IV | less than | 430V |
| 2 | EXGE - P23-DP2311 | | | | |
| VI | THATHEINGARPETTAI EXCHANGE | LOP in KMs | MC in Ohms | FC in Amps | IV in Volts |
| 1 | EXGE - P23-DP2325 | } | IV | less than | 430V |
| 2 | EXGE - P23-DP2335 | | | | |
| 3 | EXGE - P24-DP2411 | | | | |
| VII | KONAPPAMPATTI EXCHANGE | LOP in KMs | MC in Ohms | FC in Amps | IV in Volts |
| 1 | EXGE -INZ- DP0033 | } | IV | less than | 430V |
| 2 | EXGE -INZ- DP0036 | | | | |
| VIII | VANGAL EXCHANGE | LOP in KMs | MC in Ohms | FC in Amps | IV in Volts |
| 1 | EXGE - P21-DP2141 | } | IV | less than | 430V |
| 2 | EXGE - P22-DP2213 | | | | |
| 3 | EXGE - P23-DP2316 | | | | |
| IX | N. PUDUR EXCHANGE | LOP in KMs | MC in Ohms | FC in Amps | IV in Volts |
| 1 | EXGE - P21-DP2105 | } | IV | less than | 430V |
| 2 | EXGE - INZ-DP0002 | | | | |
| X | MANMANGALAM EXCHANGE | LOP in KMs | MC in Ohms | FC in Amps | IV in Volts |

8

| | | SSA: Trichy | | | |
|-------------------------------|----------------------------|--|------------|------------|------------------------|
| Name of PWR line: | | Pugalur HVDC Station - Thiruvaiyur 400KV D/C (Quad) Transmission Line | | | |
| Length: | 392.068 | Kms | | | |
| TYPE OF B3NL CABLE: PUF | | | | | |
| Average SR value: | | 20000 ohm cms | | | |
| Sl.No. | Name of Telecom line | LOP in KMs | MC in Ohms | FC in Amps | IV in Volts |
| b) Trichy SSA Telecom details | | | | | |
| 1 | EXGE - P23-DP2303 | | | | |
| 2 | EXGE - P21-DP2114 | | | | } IV less than 430V |
| 3 | EXGE - P22-DP2211 | | | | |
| 4 | EXGE - INZ - DP0001 | | | | |
| XV | NOYYAL EXCHANGE | LOP in KMs | MC in Ohms | FC in Amps | |
| 1 | EXGE - P21-DP2114 | | | | } IV less than 430V |
| 2 | EXGE - P21-DP2105 | | | | |
| 3 | EXGE - P23-DP2309 | | | | |
| 4 | EXGE - P23-DP2307 | | | | |
| XVI | K. PARAMATHI EXCHANGE | LOP in KMs | MC in Ohms | FC in Amps | IV in Volts |
| 1 | EXGE - P24-DP2421 | | | | } IV less than 430V |
| 2 | EXGE - P25-DP2515 | | | | |
| 3 | EXGE - P26-DP2604 | | | | |
| 4 | EXGE - INZ - DP0001 | | | | |
| XVII | CHINNA DHARAPURAM EXCHANGE | LOP in KMs | MC in Ohms | FC in Amps | IV in Volts |
| 1 | EXGE - P30-DP3001 | | | | } IV less than 430V |
| 2 | EXGE - P30-DP3004 | | | | |
| 3 | EXGE - P30-DP3009 | | | | |
| XVIII | THENNILAI EXCHANGE | LOP in KMs | MC in Ohms | FC in Amps | IV in Volts |
| 1 | EXGE - P21-DP2101 | | | | IV less than 430V |

| Name of PWR line: | | SSA: Salem | | | |
|---------------------------|-----------------------|--|------------|------------|---------------------|
| Length: | 392.088 | Puzalur HVDC Station - Thiruvaiyur 400KV D/C (Quad) Transmission Line | | | |
| TYPE OF BSNL CABLE: PLF | | Kms | | | |
| Average SR value : | | 20000 ohm cms | | | |
| Sl.No. | Name of Telecom line | LOP in KMs | MC in Ohms | FC in Amps | IV in Volts |
| Salem SSA Telecom details | | | | | |
| I | ARAGALUR EXCHANGE | LOP in KMs | MC in Ohms | FC in Amps | IV in Volts |
| 1 | EXGE - P31-DP3114 | | | | } IV less than 430V |
| 2 | EXGE - DP0010 | | | | |
| 3 | EXGE - P33-DP3301 | | | | |
| II | THALAIVASAL EXCHANGE | LOP in KMs | MC in Ohms | FC in Amps | IV in Volts |
| 1 | EXGE - P33-DP3314 | | | | } IV less than 430V |
| III | A. SATHAPADY EXCHANGE | LOP in KMs | MC in Ohms | FC in Amps | IV in Volts |
| 1 | EXGE - DP A01 | | | | } IV less than 430V |
| 2 | EXGE - DP A19 | | | | |
| 3 | EXGE - DP B01 | | | | |
| 4 | EXGE - DP B14 | | | | |
| 5 | EXGE - DP C01 | | | | |
| 6 | EXGE - DP C10 | | | | |
| IV | GANGAVALLI EXCHANGE | LOP in KMs | MC in Ohms | FC in Amps | IV in Volts |
| 1 | EXGE - P35 | | | | } IV less than 430V |
| 2 | EXGE - P34-DP3419 | | | | |
| 3 | EXGE TO P33 | | | | |
| 4 | P33 - P36 | | | | |
| 5 | P36 - P31 - DP3101 | | | | |
| V | GUDAMALAI EXCHANGE | LOP in KMs | MC in Ohms | FC in Amps | IV in Volts |

| | | | | | SSA: Cuddalore | |
|----------------------------------|------------------------|------------|---|------------|-------------------|--|
| Name of PWR line: | | | Pugalur HVDC Station - Thiruvalem 400KV | | | |
| Length: | | | D/C (Quad) Transmission Line | | | |
| 392.096 | | | Kms | | | |
| TYPE OF BSNL CABLE: PLUF | | | | | | |
| Average SR value : 20000 ohm cms | | | | | | |
| Sl.No. | Name of Telecom line | LOP in KMs | MC in Ohms | FC in Amps | IV in Volts | |
| Cuddalore SSA Telecom details | | | | | | |
| I | MANALURPETTAI EXCHANGE | LOP in KMs | MC in Ohms | FC in Amps | IV in Volts | |
| 1 | EXGE - INZ-DP0012 | } | | | IV less than 430V | |
| 2 | EXGE - INZ-DP0015 | | | | | |
| 3 | EXGE - INZ-DP0021 | | | | | |
| 4 | EXGE - INZ-DP0017 | | | | | |
| II | ARIYALUR EXCHANGE | LOP in KMs | MC in Ohms | FC in Amps | IV in Volts | |
| 1 | EXGE - P21-DP2101 | } | | | IV less than 430V | |
| 2 | EXGE - P22-DP2201 | | | | | |
| 3 | EXGE - INZ-DP0001 | | | | | |
| 4 | EXGE - INZ-DP0002 | | | | | |
| III | KADUVANUR EXCHANGE | LOP in KMs | MC in Ohms | FC in Amps | IV in Volts | |
| 1 | EXGE - P21-DP2101 | } | | | IV less than 430V | |
| 2 | EXGE - INZ-DP0001 | | | | | |
| IV | VIRIYUR EXCHANGE | LOP in KMs | MC in Ohms | FC in Amps | IV in Volts | |
| 1 | EXGE - P21-DP2101 | } | | | IV less than 430V | |
| 2 | EXGE - INZ-DP0001 | | | | | |
| 3 | EXGE - INZ-DP0002 | | | | | |
| 4 | EXGE - INZ-DP0003 | | | | | |
| 5 | EXGE - INZ-DP0004 | | | | | |
| V | SANKARAPURAM EXCHANGE | LOP in KMs | MC in Ohms | FC in Amps | IV in Volts | |

| | | | | | SSA: Cuddalore | |
|-------------------------------|------------------------|------------|------------|---|----------------|------------------------|
| Name of PWR line: | | | | Fugalur HVDC Station - Thiruvalem 400KV | | |
| Length: 392.088 | | | | D/C (Quad) Transmission Line | | |
| TYPE OF BSNL CABLE: PLJF | | | | Kms | | |
| Average SR value : | | | | 20000 ohm oms | | |
| Sl.No. | Name of Telecom line | LOP in KMs | MC in Ohms | FC in Amps | IV in Volts | |
| Cuddalore SSA Telesom details | | | | | | |
| 6 | EXGE - P64-DP6402 | | | | | } IV less than 430V |
| 7 | EXGE - P64-DP6403 | | | | | |
| 8 | EXGE - P74-DP7401 | | | | | |
| 9 | EXGE - P74-DP7402 | | | | | |
| 10 | EXGE - P80-DP8001 | | | | | |
| 11 | EXGE - P81-DP8101 | | | | | |
| IX | VADAKKANANDAL EXCHANGE | LOP in KMs | MC in Ohms | FC in Amps | IV in Volts | |
| 1 | EXGE - P21-DP2101 | | | | | } IV less than 430V |
| 2 | EXGE - P41-DP4101 | | | | | |
| 3 | EXGE - P61-DP6101 | | | | | |
| 4 | EXGE - P61-DP6102 | | | | | |
| 5 | EXGE - P22-DP2201 | | | | | |
| 6 | EXGE - P81-DP8101 | | | | | |
| 7 | EXGE - P81-DP8102 | | | | | |
| 8 | EXGE - P71-DP7101 | | | | | |
| X | THATCHUR EXCHANGE | LOP in KMs | MC in Ohms | FC in Amps | IV in Volts | |
| 1 | EXGE - P21-DP2101 | | | | | } IV less than 430V |
| 2 | EXGE - P22-DP2201 | | | | | |
| 3 | EXGE - P22-DP2202 | | | | | |
| 4 | EXGE - INZ-DP0001 | | | | | |

| | | SSA: Vellore | | | |
|-----------------------------|----------------------|---|--------------|------------|-------------|
| Name of PWR line: | | Pugalur HVDC Station - Thiruvalam 400KV | | | |
| Length: | 393.086 | D/C (Quad) Transmission Line | | | |
| TYPE OF BSNL CABLE: PMF | | Kms | | | |
| Average SR value : | | 20,000 ohm cms | | | |
| Sl.No. | Name of Telecom line | LOP in KMs | MC in Ohms | FC in Amps | IV in Volts |
| Vellore SSA Telecom details | | | | | |
| I | KODAKKAL EXCHANGE | LOP in KMs | MC in Ohms | FC in Amps | IV in Volts |
| 1 | EXGE - P21-DP21002 | } | IV less than | 430V | |
| 2 | EXGE - P23-DP23001 | | | | |
| 3 | EXGE - P22-DP22003 | | | | |
| II | PONNAI EXCHANGE | LOP in KMs | MC in Ohms | FC in Amps | IV in Volts |
| 1 | EXGE - P24-DP24001 | } | IV less than | 430V | |
| 2 | EXGE - P24-DP24003 | | | | |
| 3 | EXGE - P24-DP24002 | | | | |
| 4 | EXGE - P25-DP25002 | | | | |
| 5 | EXGE - P25-DP25003 | | | | |
| 6 | EXGE - P25-DP26001 | | | | |
| 7 | EXGE - P25-DP26003 | | | | |
| 8 | EXGE - P26-DP26004 | | | | |
| III | MELPADI EXCHANGE | LOP in KMs | MC in Ohms | FC in Amps | IV in Volts |
| 1 | EXGE - INZ- DP0001 | } | IV less than | 430V | |
| 2 | EXGE - P21-DP21003 | | | | |
| 3 | EXGE - P22-DP22003 | | | | |
| IV | VELAM EXCHANGE | LOP in KMs | MC in Ohms | FC in Amps | IV in Volts |
| 1 | EXGE - P21-DP21002 | } | IV less than | 430V | |
| 2 | EXGE - P21-DP21003 | | | | |



| Name of PWR line: | | SSA: Vellore | | | |
|--------------------------------|----------------------|---|------------|------------|-------------------|
| Length: | 392.086 | Pugalur HVDC Station - Thiruvalam 400KV D/C (Quad) Transmission Line | | | |
| TYPE OF BSNL CABLE: PUF | | Kms | | | |
| Average SR value : | | 20000 | ohm oms | | |
| Sl.No. | Name of Telecom line | LOP in KMs | MC in Ohms | FC in Ampe | IV in Volts |
| e) Vellore SSA Telecom details | | | | | |
| 3 | EXGE - P43-DP4308 | } | | | IV less than 430V |
| 4 | EXGE - P34-DP3420 | | | | |
| 5 | EXGE - INZ- DP0007 | | | | |
| VIII | AMMUNDI EXCHANGE | LOP in KMs | MC in Ohms | FC in Amps | IV in Volts |
| 1 | EXGE - P71-DP7130 | } | | | IV less than 430V |
| 2 | EXGE - P31-DP3120 | | | | |
| 3 | EXGE - P51-DP6199 | | | | |
| 4 | EXGE - P51-DP5140 | | | | |
| 5 | EXGE - P81-DP8120 | | | | |
| 6 | EXGE - INZ- DP0021 | | | | |
| IX | KARIGIRI EXCHANGE | LOP in KMs | MC in Ohms | FC in Amps | IV in Volts |
| 1 | EXGE - P31-DP3114 | } | | | IV less than 430V |
| 2 | EXGE - P41-DP4150 | | | | |
| 3 | EXGE - P51-DP5199 | | | | |
| 4 | EXGE - P61-DP6180 | | | | |
| 5 | EXGE - INZ- DP0099 | | | | |
| X | WALAJA EXCHANGE | LOP in KMs | MC in Ohms | FC in Amps | IV in Volts |
| 1 | EXGE - P41-DP4104 | } | | | IV less than 430V |
| 2 | EXGE - P42-DP4202 | | | | |
| 3 | EXGE - P43-DP4302 | | | | |

| Name of PWR line: | | SSA: Vellore | | | | |
|-----------------------------|----------------------|---|------------|------------|---------------------|-------------|
| Length: | 392.086 | Pugalur HVDC Station - Thiruvalem 400KV D/C (Quad) Transmission Line | | | | |
| TYPE OF BSNL CABLE: PUJF | | Kms | | | | |
| Average SR value : | | 20000 ohm cms | | | | |
| Sl.No. | Name of Telecom line | LOP in KMs | MC in Ohms | FC in Amps | IV in Volts | |
| Vellore SSA Telecom details | | | | | | |
| 11 | EXGE - P38-DP3802 | | | | | |
| 12 | EXGE - P61-DP6101 | | | | | |
| 13 | EXGE - P62-DP6201 | | | | | |
| 14 | EXGE - P71-DP7101 | | | | } IV less than 430V | |
| 15 | EXGE - P71-DP7104 | | | | | |
| 16 | EXGE - P80-DP8001 | | | | | |
| XII ARCOT EXCHANGE | | | | | | |
| 1 | EXGE - P51-DP5109 | LOP in KMs | MC in Ohms | FC in Amps | | IV in Volts |
| 2 | EXGE - P60A-DP60A12 | | | | | |
| 3 | EXGE - P62-DP6225 | | | | } IV less than 430V | |
| 4 | EXGE - P63-DP6310 | | | | | |
| 5 | EXGE - P63-DP6319 | | | | | |
| XIII SAKKARAMALLUR EXCHANGE | | | | | | |
| 1 | EXGE - INZ - DP0002 | LOP in KMs | MC in Ohms | FC in Amps | IV in Volts | |
| 2 | EXGE - INZ - DP0003 | | | | | |
| 3 | EXGE - P21-DP2105 | | | | } IV less than 430V | |
| 4 | EXGE - P21-DP2106 | | | | | |
| XIV TIMIRI EXCHANGE | | | | | | |
| 1 | EXGE - INZ - DP0002 | LOP in KMs | MC in Ohms | FC in Amps | IV in Volts | |
| 2 | EXGE - INZ - DP0013 | | | | } IV less than 430V | |

| | | | | | SSA: Vellore | |
|----------------------------------|----------------------|--|---|------------|--------------|-------------|
| Name of FWR line: | | | Pugalur HVDC Station - Thiruvalam 400KV D/C (Quad) Transmission Line | | | |
| Length: | 392.000 | | Kms | | | |
| TYPE OF BSNL CABLE: FIJF | | | | | | |
| Average SR value : 20000 ohm cms | | | | | | |
| Sl.No. | Name of Telecom line | | LOP in KMs | MC in Ohms | FC in Amps | IV in Volts |
| e) Vellore SSA Telecom details | | | | | | |
| 8 | EXGE - P44-DP4421 | | | | | |
| 9 | EXGE - P51-DP6130 | | | | | |
| 10 | EXGE - P53-DP5314 | | | | | |
| 11 | EXGE - P72-DP7215 | | | | | |
| 12 | EXGE - P72-DP7229 | | | | | |
| | | | } IV less than 430V | | | |
| XIX | KUNNATHUR EXCHANGE | | LOP in KMs | MC in Ohms | FC in Amps | IV in Volts |
| 1 | EXGE - P21-DP2101 | | | | | |
| 2 | EXGE - P21-DP2102 | | | | | |
| 3 | EXGE - P22-DP2201 | | | | | |
| 4 | EXGE - P22-DP2202 | | | | | |
| 5 | EXGE - INZ- DP0003 | | | | | |
| | | | } IV less than 430V | | | |
| XX | ONNUPURAM EXCHANGE | | LOP in KMs | MC in Ohms | FC in Amps | IV in Volts |
| 1 | EXGE - P02-DP0201 | | | | | |
| | | | } IV less than 430V | | | |
| XXI | KALAMBUR EXCHANGE | | LOP in KMs | MC in Ohms | FC in Amps | IV in Volts |
| 1 | EXGE - P22-DP0066 | | | | | |
| 2 | EXGE - P23-DP0140 | | | | | |
| 3 | EXGE - P24-DP0090 | | | | | |
| 4 | EXGE - P31-DP0200 | | | | | |
| 5 | EXGE - P33-DP0070 | | | | | |
| 6 | EXGE - P33-DP0080 | | | | | |
| | | | } IV less than 430V | | | |

| | | | | | SSA: Vellore | |
|--------------------------------|-----------------------|------------|---|------------|---------------------|--|
| Name of PWR line: | | | Pugalur HVDC Station - Thiruvalem 400KV | | | |
| Length: | 392.986 | | D/C (Quad) Transmission Line | | | |
| TYPE OF BNL CABLE: FIJF | | | Kms | | | |
| Average SR value : | | | 20000 ohm cms | | | |
| Sl.No. | Name of Telecom line | LOP in KMs | MC in Ohms | FC in Amps | IV in Volts | |
| E) Vellore SSA Telecom details | | | | | | |
| 2 | EXGE - P02-DP0202 | | | | | |
| 3 | EXGE - P03-DP0304 | | | | | |
| 4 | EXGE - P03-DP0305 | | | | } IV less than 430V | |
| 5 | EXGE - P04-DP0401 | | | | | |
| 6 | EXGE - P04-DP0402 | | | | | |
| 7 | EXGE - P05-DP0501 | | | | | |
| 8 | EXGE - P05-DP0502 | | | | | |
| 9 | EXGE - INZ- DP0009 | | | | | |
| XXVII | POLUR EXCHANGE | LOP in KMs | MC in Ohms | FC in Amps | IV in Volts | |
| 1 | EXGE - P33-DP0001 | | | | | |
| 2 | EXGE - P42-DP0049 | | | | | |
| 3 | EXGE - P43-DP0040 | | | | } IV less than 430V | |
| 4 | EXGE - P45-DP0027 | | | | | |
| 5 | EXGE - P45-DP0031 | | | | | |
| 6 | EXGE - P51-DP0049 | | | | | |
| XXVIII | KALASAPAKKAM EXCHANGE | LOP in KMs | MC in Ohms | FC in Amps | IV in Volts | |
| 1 | EXGE - P24-DP0080 | | | | | |
| 2 | EXGE - P25-DP0110 | | | | } IV less than 430V | |
| 3 | EXGE - P27-DP0150 | | | | | |
| XXIX | PORKUNAM EXCHANGE | LOP in KMs | MC in Ohms | FC in Amps | IV in Volts | |

| Name of PWR line: | | SSA: Vellore | | | |
|--------------------------------|-------------------------|---|------------|------------|---------------------|
| Length: | 382.086 | Pugalur HVDC Station - Thiruvalem 400KV D/C (Quad) Transmission Line | | | |
| TYPE OF SSNL CABLE: PWF | | Kms | | | |
| Average SR value : | | 20000 ohm cms | | | |
| Sl.No. | Name of Telecom line | LOP in KMs | MC in Ohms | FC in Amps | IV in Volts |
| E) Vellore SSA Telecom details | | | | | |
| 4 | EXGE -INZ- DP0015 | | | | } IV less than 430V |
| 5 | EXGE -INZ- DP0016 | | | | |
| 6 | EXGE -INZ- DP0003 | | | | |
| XXXIII | KILPENNATHUR EXCHANGE | LOP in KMs | MC in Ohms | FC in Amps | IV in Volts |
| 1 | EXGE - P21-DP2132 | | | | } IV less than 430V |
| 2 | EXGE -INZ- DP0001 | | | | |
| 3 | EXGE - P21-DP2105 | | | | |
| 4 | EXGE -INZ- DP0014 | | | | |
| 5 | EXGE -INZ- DP0015 | | | | |
| 6 | EXGE - P23-DP2320 | | | | |
| 7 | EXGE -INZ- DP0022 | | | | |
| XXXIV | SOMASIPADI EXCHANGE | LOP in KMs | MC in Ohms | FC in Amps | IV in Volts |
| 1 | EXGE -INZ- DP0006 | | | | } IV less than 430V |
| 2 | EXGE -INZ- DP0017 | | | | |
| 3 | EXGE -INZ- DP0021 | | | | |
| 4 | EXGE -INZ- DP0025 | | | | |
| XXXV | VENGIKKAL EXCHANGE | LOP in KMs | MC in Ohms | FC in Amps | IV in Volts |
| 1 | EXGE - P26-DP2651 | | | | IV less than 430V |
| XXXVI | TIRUVANNAMALAI EXCHANGE | LOP in KMs | MC in Ohms | FC in Amps | IV in Volts |
| 1 | EXGE - P49A-DP49A15 | | | | IV less than 430V |

| | | | | | | | | | |
|--------------------------------|----------------------|---------|--|--|--|---------------|---------------|----------------|--|
| | | | | | SSA: Vellore | | | | |
| Name of PWR line: | | | | | Pugalur HVDC Station - Thiruvaiyam 400KV D/C (Quad) Transmission Line | | | | |
| Length: | | 592.686 | | | Kms | | | | |
| TYPE OF BSNL CABLE: FUF | | | | | | | | | |
| Average SR value : | | | | | 20000 ohm cms | | | | |
| Sl.No. | Name of Telecom line | | | | LOP in Kms | MC in Ohms | FC in Amps | IV in Volts | |
| E) Vellore SSA Telecom details | | | | | | | | | |
| 6 | EXGE -INZ- DP0018 | | | | IV less than 430V. | | | | |

All Arrangements verified

Jang

संयुक्त / TANUJ
 सहायक निरीक्षक-II / Asstt. Insp. No-II
 केन्द्रीय विद्युत प्रशासन / C.P.A.
 विद्युत मंत्रालय / Ministry of Power
 भारत सरकार / Govt. of India
 नई दिल्ली / New Delhi-68

Tele: 23013733

TN-685

(Annex-III)

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




B/46937/Sigs 7(b)/1933/

Feb 2020

DGM (TLC)
Power Grid Corporation of India Limited
SRTS-II, Karur CAO, 400/230KV Substation,
Coimbatore Main Road,
K. Paramathi Post,
Karur-639111, Tamil Nadu

PTCC PROPOSAL FOR PUGALUR HVDC STATION-THIRUVALAM 400KV D/C (QUAD)
TRANSMISSION LINE-APPROVAL REQUESTED-REG

1. Ref your letter No SR-II/KRR TLC/PT-Line/PTCC/2019/1310 dt 25 Nov 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 Rawal)
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

Divisional Engineer Telegraph (PTCC)
O/o GM (North), BSNL, QA & Inspection Circle,
CTS Compound, Africa Avenue Road,
Netaji Nagar, New Delhi-110023

for information

pls check for any...
20/2
21

