



ISO: 9001-2008

# **Monthly Progress Report of Critical Transmission Projects under Central, State and Private Sector**

**(As on 31.05.2019)**

Government of India  
Ministry Power  
Central Electricity Authority  
Power System Project Monitoring Division  
New Delhi

(Published in fulfilment of CEA's obligation under section 73(i) & (j) of the Electricity Act, 2003)

## Summary

| Sl. No. | Region               | 765 KV           |                    | 400 KV           |                    | 220 KV           |                    | Page No.                  |
|---------|----------------------|------------------|--------------------|------------------|--------------------|------------------|--------------------|---------------------------|
|         |                      | No. of Tr. Lines | No. of Substations | No. of Tr. Lines | No. of Substations | No. of Tr. Lines | No. of Substations |                           |
| 1       | Northern Region      | 5                | 0                  | 13               | 2                  | 6                | 1                  | 2-10                      |
| 2       | Eastern Region       | 0                | 0                  | 7                | 0                  | 0                | 0                  | 11-12                     |
| 3       | Western Region       | 0                | 0                  | 12               | 0                  | 3                | 0                  | 13-20                     |
| 4       | Southern Region      | 2                | 0                  | 5                | 0                  | 0                | 1                  | 21-22                     |
| 5       | North Eastern Region | 0                | 0                  | 1                | 0                  | 1                | 0                  | 23-23                     |
| 6       | Inter-Regional       | 1                | 0                  | 0                | 0                  | 0                | 0                  | 24-24                     |
|         | <b>Total</b>         | <b>8</b>         | <b>0</b>           | <b>38</b>        | <b>2</b>           | <b>10</b>        | <b>2</b>           | <b>Total Elements :60</b> |

\* Note : There is one more element (800KV HVDC) in addition to the elements mentioned above.

## **Critical Transmission Projects in Northern Region(NR)**

| <b>Sr. No.</b> | <b>Transmission Corridor / Substation</b> | <b>Scheduled Commissioning Date</b> | <b>Actual / Likely Commissioning Date</b> | <b>Purpose of the Transmission System</b>                                                                                                                                 | <b>Executing Agency</b>                        | <b>Progress</b>                                                              | <b>Reason for delay and brief detail of issues</b>                                                                                                                                                              | <b>Action required / Remedial measures taken</b>                                                       |
|----------------|-------------------------------------------|-------------------------------------|-------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------|------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------|
| 1              | Mohindergarh - Bhiwani 400kV D/C line.    | Aug'18                              | Dec'19                                    | Mohindergarh - Dhanonda 400kV D/C line is critically loaded. These loaded lines would be relieved after commissioning of new lines 400 kV Mohindergarh -Bhiwani D/C line. | Powergrid Corporation of India Limited (PGCIL) | LGH: 122 Ckm<br>TL: 181 nos.<br>FDN: 152 nos.<br>TE: 81 nos.<br>STG: 8 Ckm   | ➤Forest clearance (2.7 Ha) awaited. Stage-I clearance received. Severe ROW in Bhiwani portion affecting progress.<br>➤Work affected due to poor performance of executing agency.<br>➤C&C case presently in NCLT | ➤PGCIL to expedite progress of line for early completion keeping in view the criticality of this line. |
| 2              | Kishenganga – Wagoora 220 kV D/C Line     | Mar'18                              | Jun'19                                    | Required for evacuation of power from (3X 110 MW) Kishanganga HEP                                                                                                         | Powergrid Corporation of India Limited (PGCIL) | LGH: 232 Ckm<br>TL: 252 nos.<br>FDN: 252nos.<br>TE: 252 nos.<br>STG: 228 Ckm | ➤Slow progress due to compensation issue.<br>➤1.9 Km stringing stretch held up due to severe ROW which is now being resolved with the help of administration.                                                   | ➤ Expected completion by Jun'19                                                                        |

| Sr. No. | Transmission Corridor / Substation  | Scheduled Commissioning Date | Actual / Likely Commissioning Date | Purpose of the Transmission System                                                                                                                               | Executing Agency                                              | Progress                                                                             | Reason for delay and brief detail of issues                                                                                                                                                                                                                                                                                                                                      | Action required / Remedial measures taken                                                                                                                                                                                                                                         |
|---------|-------------------------------------|------------------------------|------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------|--------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 3       | Anpara-D –Unnao 765kV S/C line.     | Jan'12                       | Jun'19                             | Required for evacuation of power from Anpara-D STPS.                                                                                                             | Uttar Pradesh Power Transmission Corporation Limited (UPPTCL) | LGH: 416 Ckm<br>TL: 1225 nos.<br>FDN: 1214 nos.<br>TE: 1151 nos.<br>STG: 371.519 Ckm | <p>➤765 KV Jhusi-Unnao section completed. Work on Anpara-Jhusi section incomplete.</p> <p>➤Contract of M/s Jyoti Structures Limited has been terminated on 26.07.18 due to poor progress.</p> <p>➤Balance works awarded to M/s Simplex Infra on 17.09.18 but work is held up due to hindrances created by local sub-contractors of previous contractor M/s Jyoti Structures.</p> | ➤Physical verification of stores completed. Work under progress.                                                                                                                                                                                                                  |
| 4       | Bara TPS-Mainpuri 765kV S/C line-I. | Mar'17                       | uncertain                          | Out of 2 no. 765 kV S/C lines, one has been commissioned (Ckt-II) but this line is required for evacuation of full power from Bara TPS and to meet N-1 criteria. | South East UP Power Transmission Company Limited (SEUPPTCL)   | LGH: 378Ckm<br>TL: 903 nos.<br>FDN: 613 nos.<br>TE: 346 nos.<br>STG: 0Ckm            | ➤Work at standstill for more than a year due to poor financial health of SEUPPTCL, the transmission service provider, owned by M/s Isolux. The line is a part of TBCB project awarded to M/s Isolux.                                                                                                                                                                             | ➤GoUP is considering various options for quick and amicable resolution for completion of project on commercially viable purchase price. M/s PFC may exercise its option of substitution of M/s Isolux or M/s Isolux may be allowed to bring new investor to complete the project. |
| 5.a     | Bajoli HEP-Lahal 220kV D/C line     | Oct'16                       | Dec'19                             | Required for evacuation of power from Bajoli HEP (3x60MW) in H.P., which is scheduled for completion by year 2019-20.                                            | H.P. Power Transmission Corporation Limited (HPPTCL)          | LGH: 36 Ckm<br>TL: - 59 nos.<br>FDN: - 5 nos.<br>TE: - nos.<br>STG: - Ckm            | <p>➤Work awarded in Dec'17.</p> <p>➤Connecting road from Chamba to Bharmour Severely Damaged since September 2018,</p> <p>➤Extra tress encountered than anticipated during tree cutting.</p>                                                                                                                                                                                     | ➤ Forest Case being resubmitted.                                                                                                                                                                                                                                                  |

| Sr. No. | Transmission Corridor / Substation                                      | Scheduled Commissioning Date | Actual / Likely Commissioning Date | Purpose of the Transmission System                                                                   | Executing Agency                                                         | Progress                                                                         | Reason for delay and brief detail of issues                                                                                                                                                                       | Action required / Remedial measures taken                           |
|---------|-------------------------------------------------------------------------|------------------------------|------------------------------------|------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------|----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------|
| 5.b     | Lahal-Chamera 400kV D/C line                                            | Oct'16                       | Mar'21                             |                                                                                                      |                                                                          | LGH: - 71 Ckm<br>TL: - 114 nos.<br>FDN: - nos.<br>TE: - nos.<br>STG: - Ckm       | ➤Project award delayed due to delay in signing of Tranche-3 of ADB loan<br>➤Connecting road from Chamba to Bharmour Severely Damaged since September 2018, completely cutoff during Mar 2019                      | ➤Repair Works of road under progress.<br>➤Forest Clearance obtained |
| 5.c     | 630 MVA, 400/220/33 kV Lahal (GIS)                                      | Oct'16                       | Dec'19                             |                                                                                                      | H.P. Power Transmission Corporation Limited (HPPTCL)                     | LA:100%<br>CW:75%<br>ER: 80%<br>EE: 45%                                          | ➤Delay due to road closed by heavy rain fall & land slide at different locations over site.<br>➤ Connecting road from Chamba to Bharmour Severely Damaged since September 2018, completely cutoff during Mar 2019 | ➤Repair Works of road under progress.                               |
| 6       | Suratgarh TPS – Babai (Jhunjhunu) 400kV D/C line                        | Jan'13                       | Jun'19                             | This line is part of ATS of Suratgarh Super Critical TPS (2x660 MW).                                 | Rajasthan Rajya Vidyut Prasaran Nigam Limited (RVPNL)/ M/s Aster Chennai | LGH: 490 Ckm<br>TL: 676 nos.<br>FDN: 676 nos.<br>TE: 676 nos.<br>STG: 460.612Ckm | ➤Slow progress.<br>➤Stringing work under progress.                                                                                                                                                                | ➤RVPNL to expedite construction of Line.                            |
| 7       | LILO of one ckt of Nathpa Jhakri – Abdullapur 400 kV D/C at Swara Kuddu | Mar'17                       | Jun'19                             | This line is ATS of Swara Kuddu (3x37MW) & is required for evacuation power from generating station. | H.P. Power Transmission Corporation Limited (HPPTCL)                     | LGH: 3Ckm<br>TL: 15 nos.<br>FDN: 10 nos.<br>TE: 9 nos.<br>STG: 0 Ckm             |                                                                                                                                                                                                                   | ➤Work under progress.                                               |

| Sr. No. | Transmission Corridor / Substation                               | Scheduled Commissioning Date | Actual / Likely Commissioning Date | Purpose of the Transmission System                                                                                                                                                             | Executing Agency                                              | Progress                                                                                                                                                                                                     | Reason for delay and brief detail of issues                                                                                                                                                                                                                                                                                                                                                                                                                          | Action required / Remedial measures taken                                                                                                                                                                                                                                                                                                                                                                                                              |
|---------|------------------------------------------------------------------|------------------------------|------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 8       | Unnao – Mainpuri (Quad) 765 kV S/C Line                          | Aug'15                       | uncertain                          | This would help in evacuating power from Anpara complex.                                                                                                                                       | South East UP Power Transmission Company Limited (SEUPPTCL)   | LGH: 188Ckm<br>TL: 450 nos.<br>FDN: 380 nos.<br>TE: 274 nos.<br>STG: 0Ckm                                                                                                                                    | ➤Work at standstill for more than a year due to poor financial health of SEUPPTCL, the transmission service provider, owned by M/s Isolux. The line is a part of TBCB project awarded to M/s Isolux.                                                                                                                                                                                                                                                                 | ➤GoUP is considering various options for quick and amicable resolution for completion of project on commercially viable purchase price M/s PFC may exercise its option of substitution of M/s Isolux or M/s Isolux may be allowed to bring new investor to complete the project.                                                                                                                                                                       |
| 9.a     | Rudrapur(Brahmwari) – Ghansali (Srinagar) 220 KV D/C line        | Mar'13                       | Jul'19                             | Baramwari – Srinagar 220 kV D/C line and LILO of this line at Singoli Bhatwari HEP (92 km/184 ckm) are required for transfer of power from Singoli Bhatwari HEP up to Srinagar pooling station | Power Transmission Corporation of Uttaranchal Limited (PTCUL) | Currently work in section from Singoli Bhatwari HEP to Ghansali (Srinagar) section is under progress by M/s L&T.<br><br>LGH: 150 Ckm<br>TL: - 231 nos.<br>FDN: - 198 nos.<br>TE: - 170 nos.<br>STG: - 52 Ckm | ➤Delay of above 8 months due to termination of old contract with LANCO on nonperformance on 25.10.2017.<br>➤Balance work of Line was awarded to M/s L&T on 28.03.2018<br>➤Final approval of forest case was obtained on 18.05.2018 from MoEF &CC Regional Office Dehradun. GO for final approval issued by Uttarakhand Government on 13.08.2018<br>➤RoW issues in some locations of Line and same are being settled by consistent persuasion to concern land owners. | ➤The issue of payments to sub-contractors of M/s LANCO is required to be settled, for which a committee of different wing of PTCUL constituted.<br>➤The report of Committee was put up in Board meeting held on date 28.11.2018. Energy Department GoU on 27 May 2019 intimated that it will be preferable to resolve the proposal as per condition of agreement.<br>➤The issue of payments to sub contractors of M/s LANCO is required to be settled. |
| 9.b     | LILO of Baramwari - Srinagar at Singoli Bhatwari 220 KV D/C line | Oct'16                       | Jul'19                             |                                                                                                                                                                                                |                                                               |                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                        |

| Sr. No. | Transmission Corridor / Substation                                                 | Scheduled Commissioning Date | Actual / Likely Commissioning Date | Purpose of the Transmission System                                                                           | Executing Agency                                              | Progress                                                                                                                                                                                                                                                | Reason for delay and brief detail of issues                                                                                                                                                                                                                                                                                                                                        | Action required / Remedial measures taken                                                                                             |
|---------|------------------------------------------------------------------------------------|------------------------------|------------------------------------|--------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------|
| 10.a    | Tapovan Vishnugadh - Kunwari Pass (Pipalkoti) 400 KV D/C line                      | Mar'17                       | Sep'20                             | For transfer of power from Tapovan Vishnugad HEP and Vishnugad Pipalkoti HEP up to Srinagar pooling station. | Power Transmission Corporation of Uttaranchal Limited (PTCUL) | LGH: 36 Ckm<br>TL: - nos.<br>FDN: - nos.<br>TE: - nos.<br>STG: - Ckm                                                                                                                                                                                    | <p>➤NOC as per Forest Right Act, obtained for 12 nos. villages and pending for 1 Nos. village (Hatt Gaon).</p> <p>➤ Nodal office send the case of forest proposal to Gov. of Uttrakhand on 28.03.19</p> <p>➤ 125 Hec land has been identified for CA with Digital Map &amp; co-ordinates.</p>                                                                                      | ➤Persuasion is going on with forest department for early approval of Stage-I clearance. Thereafter construction work will be started. |
| 10.b    | Kuwari Pass (Pipalkoti)-Karanprayag – Srinagar 400 KV D/C line (in three package ) | Dec'14                       | Sep'20                             | -Do-                                                                                                         | Power Transmission Corporation of Uttaranchal Limited (PTCUL) | <p><b>Package-1</b><br/>Pipalkoti-Nakot line (62 ckm)</p> <p><b>Package-2</b> Nakot-Dhanpur forest line</p> <p><b>Package-3</b><br/>Dhanpur-Srinagar line (62 ckm)</p> <p>LGH: 186 Ckm<br/>TL: - nos.<br/>FDN: - nos.<br/>TE: - nos.<br/>STG: - Ckm</p> | <p>➤FRA certificate obtained from competent authority excluding Hatt village in Package I.</p> <p>➤Land bank with digital maps and co-ordinates, has already been identified for Compensatory afforestation for all packages.</p> <p>➤Forest proposal has been submitted on dated 24.11.2018 for package-I, on dt.23.10.18 for package-II and on dt. 22.03.19 for package-III.</p> | ➤Persuasion is going on with forest department for early approval of Stage-I clearance. Thereafter construction work will be started. |

| Sr. No. | Transmission Corridor / Substation         | Scheduled Commissioning Date | Actual / Likely Commissioning Date | Purpose of the Transmission System                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Executing Agency                                              | Progress                                                                       | Reason for delay and brief detail of issues                                                                                                                                    | Action required / Remedial measures taken                                                                                                                                     |
|---------|--------------------------------------------|------------------------------|------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------|--------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 11      | Srinagar- Kashipur 400 KV D/C line         | Mar, 16                      | Dec, 20                            | Required for evacuation of power from Singoli Bhatwari HEP (3x33MW), Tapovan Vishnugad HEP(4x1301MW) and Vishnugad Pipalkoti HEP(4x111MW) beyond Srinagar.                                                                                                                                                                                                                                                                                                                                             | Power Transmission Corporation of Uttaranchal Limited (PTCUL) | LGH: 362 Ckm<br>TL: - nos.<br>FDN: - nos.<br>TE: - nos.<br>STG: - Ckm          | ➤ Contract had been awarded to M/s Cobra but due to poor financial condition of company, M/s Cobra had abandoned the project.<br>➤ Fresh tendering in process for the project. | ➤ NIT floated on dated 08/03/2019. Bid part-1 (technical bid) was opened on dated 07/05/2019 and techno-commercial evaluation are under process.                              |
| 12.a    | 320 MVA, 220/132 kV Substation at Alusteng | Mar'10                       | Jun'19                             | The transmission project shall provide grid connectivity and reliable power supply to the strategically important Ladakh region. The electric supply system of Ladakh Region in the State of J&K is currently isolated from the Northern Grid and is fed through local small hydro generation and diesel generator sets. Being an area of defence establishments and strategic importance, there is a need to improve the reliability of power supply through inter-connection with the Northern Grid. | Power Development Department Jammu & Kashmir (JKPDD)          | 132/33 KV level: 95% completed.<br>220/132 KV level: 90 % completed.           | ➤ Contract with M/S Jyoti Structures Ltd has been terminated and work is being executed departmentally by JKPDD.                                                               | ➤ Most of the works of the 220/132/33 kV Grid Station have been completed and the Grid Station has been charged on 132 kV voltage by stepping up the voltage to 220 kV level. |
| 12.b    | Alusteng – Zainkote 220 kV D/C line        | Mar'10                       | Jun'19                             | -Do-                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Power Development Department Jammu & Kashmir (JKPDD)          | Length: 100 CKm<br>TL: 161 nos.<br>TF: 156 nos.<br>TE: 138 nos.<br>STG: 49 CKm | ➤ Line was awarded to M/s ECI, Hyderabad.<br>➤ Most of the RoW issues resolved<br>➤ Tower material for 10 nos. Towers yet to be supplied by the contractor ECI.                | ➤ Additional gangs deployed at the risk and cost of the contractor. The completion of the Transmission Line has been delayed due to inclement weather conditions.             |

| Sr. No. | Transmission Corridor / Substation        | Scheduled Commissioning Date | Actual / Likely Commissioning Date | Purpose of the Transmission System         | Executing Agency                                            | Progress                                                                            | Reason for delay and brief detail of issues                                                                                                                                                          | Action required / Remedial measures taken                                                                                                                                                                                                                                                                                       |
|---------|-------------------------------------------|------------------------------|------------------------------------|--------------------------------------------|-------------------------------------------------------------|-------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 13.a    | Tanda – Gonda 400 KV D/C line             | Aug'15                       | Uncertain                          | ATS of Tanda TPP                           | South East UP Power Transmission Company Limited (SEUPPTCL) | LGH: 200 Ckm<br>TL: - 241 nos.<br>FDN: - 97 nos.<br>TE: - 54 nos.<br>STG: - 0 Ckm   | ➤Work at standstill for more than a year due to poor financial health of SEUPPTCL, the transmission service provider, owned by M/s Isolux. The line is a part of TBCB project awarded to M/s Isolux. | ➤GoUP is considering various options for quick and amicable resolution for completion of project i.e. takeover of transmission project on commercially viable purchase price or price M/s PFC may exercise its option of substitution of M/s Isolux or M/s Isolux may be allowed to bring new investor to complete the project. |
| 13.b    | Gonda - Shahjehanpur (PG) 400 KV D/C line | Aug'15                       | Uncertain                          | -Do-                                       | South East UP Power Transmission Company Limited (SEUPPTCL) | LGH: 460 Ckm<br>TL: - 543 nos.<br>FDN: - 296 nos.<br>TE: - 140 nos.<br>STG: - 0 Ckm | ➤Work at standstill for more than a year due to poor financial health of SEUPPTCL, the transmission service provider, owned by M/s Isolux. The line is a part of TBCB project awarded to M/s Isolux. | ➤GoUP is considering various options for quick and amicable resolution for completion of project i.e. takeover of transmission project on commercially viable purchase price or price M/s PFC may exercise its option of substitution of M/s Isolux or M/s Isolux may be allowed to bring new investor to complete the project. |
| 14      | Singrauli – Allahabad 400 kV S/C          | Jun'16/<br>Sep'18(Rev.)      | Jun'19                             | Evacuation of power from Singrauli complex | Powergrid Corporation of India Limited (PGCIL)              | LGH: 155 Ckm<br>TL: 435 nos.<br>FDN: 435 nos.<br>TE: 435 nos.<br>STG: 155 Ckm       | ➤Line completed in Apr'19. Final checking/rectification & testing under progress.                                                                                                                    |                                                                                                                                                                                                                                                                                                                                 |

| Sr. No. | Transmission Corridor / Substation                                       | Scheduled Commissioning Date | Actual / Likely Commissioning Date | Purpose of the Transmission System                                                                                | Executing Agency                                                                       | Progress                                                                      | Reason for delay and brief detail of issues                                                                                                 | Action required / Remedial measures taken                                                                                                                                                       |
|---------|--------------------------------------------------------------------------|------------------------------|------------------------------------|-------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|-------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 15      | LILO of one ckt of Bamnauli – Jattikalan at Dwarka-I 400 KV D/C          | May'17                       | Dec'19                             | This line can take care and reliably meet the existing and future 400 kV and 220 kV load demand of Delhi network. | Powergrid Corporation of India Limited (PGCIL)                                         | LGH: 17 Ckm<br>TL: 41 nos.<br>FDN: 23 nos.<br>TE: 6 nos.<br>STG: 0 Ckm        | ➤Forest proposal under FCA & DPTA submitted. Forest approval & tree cutting permission awaited.                                             | ➤It has been decided to re-route the line through Golf course to reduce forest area. Working permission from DDA received in Feb'19 using pole type structure which has been awarded in Mar'19. |
| 16      | Bhadla – Bikaner 765 KV D/C                                              | May'19                       | Jun'19                             | To evacuate power from solar park at Bhadla, Rajasthan.                                                           | Powergrid Corporation of India Limited (PGCIL)                                         | LGH: 338 Ckm<br>TL: 455 nos.<br>FDN: 433 nos.<br>TE: 374 nos.<br>STG: 103 Ckm | ➤Forest clearance awaited. ROW issues are being faced.                                                                                      |                                                                                                                                                                                                 |
| 17      | Chandigarh - Panchkula (PG) 220KV D/C (incl. 9.7 Kms underground cable). | Feb'19                       | Aug'19                             |                                                                                                                   | Powergrid Corporation of India Limited (PGCIL)                                         | LGH: 48 Ckm<br>TL: 56 nos.<br>FDN: 50 nos.<br>TE: 50 nos.<br>STG: 35 Ckm      | ➤Underground cable laying done in 5 Kms. 05 locations under severe ROW. Land owners have taken stay from Hon'ble Court.                     | ➤Court hearing postponed & now scheduled on 24.07.19.                                                                                                                                           |
| 18      | Kadarpur-Sohna road 400 kV D/C                                           | Sep'19                       | Jul'19                             | Looking at the load growth at in Gurgaon area, this line is proposed to meet the demand.                          | Gurgaon Palwal Transmission Limited (A subsidiary of Sterlite Power Transmission Ltd.) | LGH: 22.14 Ckm<br>TL: 29 nos.<br>FDN: 21 nos.<br>TE: 19 nos.<br>STG: 0 Ckm)   | ➤One Power Line crossing approval is pending with HVPNL<br>➤Carrier frequency approval is pending with Ministry of Communication (WPC wing) |                                                                                                                                                                                                 |

| Sr. No. | Transmission Corridor / Substation                | Scheduled Commissioning Date | Actual / Likely Commissioning Date | Purpose of the Transmission System                                                                                                                                                                                                                                                                                                                                                                   | Executing Agency                                                                       | Progress                                                                 | Reason for delay and brief detail of issues                                                                                                                                                                                                                | Action required / Remedial measures taken                                                                                                                                                                                                                                                                                                                                                                                              |
|---------|---------------------------------------------------|------------------------------|------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|--------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 19      | 2x500 MVA, 400/220 kV GIS at Sohna Road (Gurgaon) | Sep'19                       | Jul'19                             | -Do-                                                                                                                                                                                                                                                                                                                                                                                                 | Gurgaon Palwal Transmission Limited (A subsidiary of Sterlite Power Transmission Ltd.) | LA: 100%<br>CW: 51%<br>ES: 99%<br>EE: 15%                                | ➤HVPNL has raised the issue of difficulty in finalizing the route of 220 kV D/S line. In pursuance to the meeting, a committee comprising of the members from CEA, HVPNL and GPTL have been formed to review the route of D/s 220 kV line from Sohna road. | ➤Committee in meeting held on 16.11.2018 conveyed that construction of 220kV line up to and including dead end tower is not in the scope of M/s GPTL being executed under TBCB process. However, HVPNL may send formal proposal for termination of 220 kV lines or any other important elements of HVPNL to be constructed.                                                                                                            |
| 20      | Koteshwar – Rishikesh 400 KC D/C                  | Jun'19                       | Dec'19                             | 400 kV AC link between Rishikesh and Koteshwar shall improve the power supply to Uttarakhand and also obviate the power transfer constraint on 400 kV Roorkee - Muzaffarnagar line during low hydro generation condition. This link would provide additional outlet from Tehri/ Koteshwar generation complex and independent feed for providing reliable and quality power supply to Rishikesh area. | NRSS XXXVI Transmission Ltd. (A subsidiary of Essel Infraproj. Ltd.)                   | LGH: 81 Ckm<br>TL: 106 nos.<br>FDN: 20 nos.<br>TE: 0 nos.<br>STG: 0 Ckm) | ➤Forest clearance awaited.<br>➤NOC was delayed by Indian Drugs and Pharmaceuticals Limited (IDPL), Rishikesh and issued on April, 2019.                                                                                                                    | ➤Forest clearance awaited.<br>➤IDPL conveyed it's no objection on 03.04.2019 stating that Uttarakhand Government is planning to construct Convention Centre along with Hill Culture, Yoga and Wellness Centre on the said land. Accordingly, IDPL requested to take no objection certificate also from Uttarakhand Government. Accordingly, the detailed proposal of NoC was submitted to Tourism Deptt. of Uttarakhand on 27.05.2019. |

## **Critical Transmission Projects in Eastern Region(ER)**

| Sr. No. | Transmission Corridor                                      | Scheduled Commissioning Date | Actual/ Likely Commissioning Date                                                                 | Transmission Constraint                          | Executing Agency                                                             | Progress                                                                                        | Reason for delay and brief detail of issues                                                                                                                                                                                                                                                                                                                                             | Action required/Remedial measures taken                                                                                                       |
|---------|------------------------------------------------------------|------------------------------|---------------------------------------------------------------------------------------------------|--------------------------------------------------|------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|
| 1       | Rajarhat – Purnea 400 kV D/C line                          | Apr'16                       | Aug'19                                                                                            | Required for Eastern Region system Strengthening | Powergrid Corporation of India Limited (PGCIL)                               | LGH: 881 Ckm<br>TL: 1219 nos.<br>FDN: 1217 nos.<br>TE: 1217 nos.<br>STG: 874 Ckm                | ➤ Severe ROW problem at Rajarhat area. Processing of forest case in Jharkhand slow. Work in Rajarhat was hold for last 16 months. Work resumed in Oct'17 again stopped on 01.12.2017 due to protest.                                                                                                                                                                                    | ➤ Matter followed up at all levels for early resolution. Now work re-started on 14.08.18 with the help of administration. Work under progress |
| 2.a     | North Karanpura – Chandwa 400 kV D/C line<br><b>(TBCB)</b> | Sept'17                      | Uncertain<br>(As per CERC directive, it is being finalized by CEA and in consultation with NTPC.) | Evacuation of power from North Karanpura TPP .   | North Karanpura Transco Ltd. (NKTL, a subsidiary of Adani Transmission Ltd.) | As per latest route.<br>LGH: 102 Ckm<br>TL: 110 nos.<br>FDN: 0 nos.<br>TE: 0 nos.<br>STG: 0 Ckm | ➤ Due to non -availability of NOC (No Objection Certificate) from CCL/MoC, the work was stopped.<br>➤ NKTL approached CERC for termination of license. Matter was taken up by CERC with MoC and disposed off with the condition that MoC will give NOC for construction of lines and lines will be diverted in future when required, however alternative route will be provided by MoC. | ➤ NOC has been provided by CCL/MoC.                                                                                                           |
| 2.b     | North Karanpura – Gaya 400 kV D/C line<br><b>(TBCB)</b>    | Sep'19                       | Uncertain<br>(As per CERC directive, it is being finalized by CEA and in consultation with NTPC.) |                                                  | North Karanpura Transco Ltd. (NKTL, a subsidiary of Adani Transmission Ltd.) | As per latest route.<br>LGH: 196 Ckm<br>TL: 289 nos.<br>FDN: 0 nos.<br>TE: 0 nos.<br>STG: 0 Ckm | ➤ Revised route is under survey.                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                               |

| Sr. No. | Transmission Corridor                                     | Scheduled Commissioning Date | Actual/ Likely Commissioning Date | Transmission Constraint                                                                                                                                                                                                             | Executing Agency                                                                 | Progress                                                                                                                                                                              | Reason for delay and brief detail of issues                                                                                                                                                                                                    | Action required/Remedial measures taken                                                                                                                                                                                                 |
|---------|-----------------------------------------------------------|------------------------------|-----------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 3.      | LILO of Teesta-III – Kishanganj 400kV D/C line at Rangpo. | Jun, 20                      | Jun, 20                           | Hydro projects [ Teesta III (1200MW), Tasheding (96MW), Dikchu (96MW), Teesta-V (450MW), Jorthang HEP (110MW), Chujachen HEP (110MW) ] in Sikkim may face evacuation constraints in absence of Rangpo – Kishanganj section of line. | Powergrid Corporation of India Limited (PGCIL)                                   | i) Loop - In portion of LILO line up to Rangpo completed.<br>ii) Loop - Out portion: Award placed in Dec'17.<br>LGH: 24 Ckm<br>TL: 35 nos.<br>FDN: 1 nos.<br>TE: 0 nos.<br>STG: 0 Ckm | ➤As agreed in ERPC (Eastern Region Power Corporation), the loop out portion of line is to be implemented under a separate new scheme. (Earlier part of Sikkim-B project differed for implementation due to forest issues (Eco-sensitive Zone). | ➤Forest proposal already submitted on 04.11.17. Forest Stage – I approval received on 23.01.19.<br>➤CEA had taken a meeting on 29.05.18 and PGCIL was advised to prepone the completion of LILO line.<br>➤Work under progress at 3 loc. |
| 4       | Sagardighi – Gokarna 400kV D/C line                       | Jul'15                       | Jan'20                            | This line is part of ATS of generation project Sagardighi-TTP (2x300MW). Out of 2 lines, one line has been commissioned. This line is required to meet the N-1 criteria.                                                            | West Bengal State Electricity Transmission Company Limited (WBSETCL)             | LGH: 88.5 Ckm<br>TL: 154 nos.<br>FDN: 153 nos.<br>TE: 153 nos.<br>STG: 86.7 Ckm                                                                                                       | ➤Work Delayed due to poor performance of the vendor (Jyoti Structures Ltd.).                                                                                                                                                                   | ➤Contract terminated.                                                                                                                                                                                                                   |
| 5.      | Jigmeling – Alipurdua 400KV D/C                           | Mar'18                       | Dec'19                            | Transmission System Strengthening in Indian System for Transfer of Power from Mangdechhu Hydroelectric Proj, in BHUTAN.                                                                                                             | Powergrid Corporation of India Limited (PGCIL)                                   | LGH: 324 Ckm<br>TL: 466 nos.<br>FDN: 315 nos.<br>TE: 301 nos.<br>STG: 109.2 Ckm                                                                                                       | ➤Working permission received in Feb'19. Progress is delayed due to NCLT proceeding against contractor M/s C&C.                                                                                                                                 | ➤PGCIL to find alternate ways to complete the project at the earliest.                                                                                                                                                                  |
| 6.      | Alipurduar – Siliguri 400 KV D/C                          | Mar'19                       | Uncertain                         | Transmission System Strengthening in Indian System for Transfer of Power from various Hydroelectric Proj, in BHUTAN.                                                                                                                | Alipurduar Transmission Ltd. (A subsidiary of Kalpataru Power Transmission Ltd.) | LGH: 232 Ckm<br>TL: 321 nos.<br>FDN: 319 nos.<br>TE: 312 nos.<br>STG: 79.42 Ckm                                                                                                       | ➤Severe ROW issues being faced, demanding high compensations. Few landowners have also filed a case in the court of law.                                                                                                                       | ➤Work at many locations can be taken up after settlement of compensation with landowners, which is under process.<br>➤Administrative support is required.                                                                               |

## **Critical Transmission Projects in Western Region(WR)**

| Sr. No. | Transmission Corridor                                   | Scheduled Commissioning Date | Actual/ Likely Commissioning Date | Transmission Constraint                                                                                                                                                                                                                                                                                      | Executing Agency                            | Progress                                                                                                                                                | Reason for delay and brief detail of issues                                                                                        | Action required/Remedial measures taken                                                                                   |
|---------|---------------------------------------------------------|------------------------------|-----------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------|
| 1       | Vadinar-Amreli 400 kV D/C line (balance)                | Nov, 09                      | Mar'20                            | Associated with Salaya TPS for evacuation of power and its completion would relieve over loading of Hadala - Chorania S/C line. However, interim arrangement with completed portion of Amreli-Vadinar one ckt terminated at Jetpur and second ckt terminated at Hadala relieved loading of Chorania – Kasor. | Gujarat Energy Trans. Corp. Limited (GETCO) | LGH: 239 Ckm<br>TL: 365 nos.<br>FDN: 323 nos.<br>TE: 309 nos.<br>STG: 160.3 Ckm<br>(117 ckm of line commissioned in Jan 14 through interim arrangement) | ➤Progress affected due to contractual issue with M/s Jyoti and contract has been terminated and retendered on risk purchase basis. | ➤GETCO has taken the necessary action and invited the Risk & Cost Tender.<br>➤Presently work in progress since 19.07.2018 |
| 2       | Amreli – Kasor 400 kV D/C line.                         | May'12                       | Jun'20                            | It would relieve Chorania - Kasor S/C line.                                                                                                                                                                                                                                                                  | Gujarat Energy Trans. Corp. Limited (GETCO) | LGH: 471 Ckm<br>TL: 679 nos.<br>FDN: 633 nos.<br>TE: 587 nos.<br>STG: 216.9 Ckm                                                                         | ➤Progress affected due to severe row issues.                                                                                       | ➤Works in progress.                                                                                                       |
| 3       | Akaltara TPS– Champa pooling station 400 kV 2x D/C line | Jun'15                       | Uncertain                         | This would complete evacuation system for Akaltara TPS of KSK and resolve the loading NSPCL ICTs and further provide voltage stability at Champa S/s. 765 kV champa bus commissioned in May 15 and 400 kV champa bus in June                                                                                 | KSK Mahanadi Ltd.                           | TLG 56 Ckm<br>TL: 83 nos.<br>FDN: 68 nos.<br>TE: 54 nos.<br>STG: 12Ckm<br>No progress                                                                   | ➤Fund constraints<br>➤No progress                                                                                                  |                                                                                                                           |

| Sr. No. | Transmission Corridor            | Scheduled Commissioning Date | Actual/ Likely Commissioning Date | Transmission Constraint                                                                                                                                                                                                                                 | Executing Agency                                                    | Progress                                                                            | Reason for delay and brief detail of issues                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Action required/Remedial measures taken                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|---------|----------------------------------|------------------------------|-----------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 4.a     | Bableshwar-Kudus 400 kV D/C line | Oct'12                       | Dec,19                            | Due to delay in commissioning of 400 kV Bableshwar –Kudus D/C line, heavy loading is observed on 400 kV Bableshwar - Padghe line. Further 400 kV Ektuni-Bableshwar only one circuit is kept in service by MSETCL to control the loadings at Bableshwar. | Maharashtra State Electricity Transmission Company limited (MSETCL) | LGH: 456.96 Ckm<br>TL: 730 nos.<br>FDN: 571 nos.<br>TE: 508 nos.<br>STG: 175.33 Ckm | <p>➤Progress affected in Nashik and Vashi Zones due to involvement of 148 Ha of forest area and severe RoW issues at 48 locs.</p> <p>➤Second &amp; Final approval received on 06.04.2018.</p> <p><b>RoW:</b></p> <p><b>A) Nashik Zone: 27 cases</b> filed to Collector, Pune, he delegated powers to SDO Manchar, Junnar, Ambegaon, Hearing completed, orders awaited.</p> <p><b>B) Vashi Zone: 21 cases</b> filed to Collector, Thane on 08.03.2017, he delegated powers to SDO Kalyan/Bhiwandi, orders awaited</p> <p>➤As per GR dated 31.05.2017 there is provision for 2 times compensation, however, revenue department informed 4 times compensation.</p> <p>➤GMRT issue: Consequent to the committee report, survey for revised route has been carried out. Committee members suggest to re-route the line on the western side to meet the minimum distance norm of 6 km and on eastern side where the distance is less than 6KM, 765kV class bundle conductors to</p> | <p>➤The variation in locations and line length is due to 2<sup>nd</sup> diversion of route due to GMRT (Giant Metrewave Radio Telescope).</p> <p>➤79 nos. foundations and 60 nos. towers will be scrapped due to route diversion by GMRT.</p> <p>➤Resolution of GMRT issue.</p> <p>➤Prohibitory order from Collector Thane for filed cases.</p> <p><b>Constraints:</b></p> <p>There is huge unrest among land owners due to non payment of land compensation. Presently work is in progress only in forest area at Loc. No. 177,179,185.</p> |

| Sr. No. | Transmission Corridor                                                                                                                                                                                                                     | Scheduled Commissioning Date | Actual/ Likely Commissioning Date | Transmission Constraint          | Executing Agency                                                    | Progress                                                                | Reason for delay and brief detail of issues                                                                                                                                                                                                                            | Action required/Remedial measures taken                                                                                                                                                                                                                                                                                                                                                                           |
|---------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|-----------------------------------|----------------------------------|---------------------------------------------------------------------|-------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 4.b     | <p><b>a)</b> 220 kV MC LILO on 220kV Kolshet - Wada line at 400kV Kudus S/s - 6.2 kms</p> <p><b>b)</b> 220 kV LILO on 220kV Padghe - Wada line at 400kV Kudus S/s by stringing 3rd &amp; 4th Ckt on M/C towers at (a) above- 6.2 kms.</p> | Nov'18                       | Dec,19                            | Downstream network at Kudus s/s. | Maharashtra State Electricity Transmission Company limited (MSETCL) | LGH:31.62Ckm<br>TL: 46 nos.<br>FDN: 11 nos.<br>TE: 2 nos.<br>STG: 0 Ckm | <p>➤<b>Forest:</b> Area involved 11 ha Online submission of proposal: FP/ MH/TRANS/30180/2017 dt 9.11.2017.</p> <p>➤<b>ROW:</b> As per GR dated 31.05.2017 there is provision for 2 times compensation, however, revenue department informed 4 times compensation.</p> | <p>➤<b>Forest:</b> Online queries raised on dt 9.11.2017 are compiled on 20.11.2017. Joint inspection carried out on dt 25.1.2018 with forest officer. Application for FRA submitted vide 136 dt 22.2.2018. Forest Proposal submitted to PCCF, Nagpur on 04.04.2019 FRA forwarded by Collector thane to Tahsildar and BDO Bhiwandi on dated 16.02.19</p> <p>➤Gram sabha resolution awaited from SDO Bhiwandi.</p> |

| Sr. No. | Transmission Corridor                                                                                                                                     | Scheduled Commissioning Date | Actual/ Likely Commissioning Date | Transmission Constraint                                                                                                                                                                                                                                        | Executing Agency                                                    | Progress                                                                                                            | Reason for delay and brief detail of issues                                                                                                                                                                                                           | Action required/Remedial measures taken                                                                                                                                                                                                                                                                                                  |
|---------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|-----------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 4.c     | Construction of 220kV MC (Twin) line by making LILO of 220kV Tarapur – Borivali line and Boisar – Ghodbandar line at 400 kV Kudus (Padghe II) s/s – 27 km | Jul'19                       | Jul'19                            | Downstream network at Kudus s/s.                                                                                                                                                                                                                               | Maharashtra State Electricity Transmission Company limited (MSETCL) | LGH: 116.76 Ckm<br>TL: 116 nos.<br>FDN: 36 nos.<br>TE: 0 nos.<br>STG: 0 Ckm                                         | ➤Forest involvement after re-routing:Area involved 2.95 Ha (Appr). Proposal is pending at DFO Dahanu.<br>➤ROW: Facing huge opposition in vasai and Bhiwandi areas where multiple project such as Bullet train , DFCCIL, Transmission lines, Highways. | ➤ <b>Forest:</b> Forest : 2.95 Ha (Appr) Proposal submted on 13.11.2017, Revised Online submission done on 22.01.19 and compliances submitted on 01.02.19.<br>➤Joint inspection with forest surveyor in jawahar section carried out on 04.02.2019 and Joint inspection with ACF, dahanu in dahanu section carried out on dt. 27.02.2019. |
| 5       | Salora TPS - Dharamjaigarh 400 kV D/C line                                                                                                                | Jul'12                       | Uncertain                         | This line would complete the evacuation system of Salora TPS by Vandana vidyut limited.<br>In 40th SCM Meeting: M/s VVL was Not present. As informed by M/s BALCO, work on dedicated line has not yet started. WRLDC filed petition to CERC for disconnection. | Vandana Vidyut Ltd. (VVL)                                           | LGH: 60 Ckm<br>TL: 84 nos.<br>FDN: 0 nos.<br>TE: 0 nos.<br>STG: 0 Ckm<br>M/s VVL has not started line construction. | ➤Project authority has also not been able to execute PPA yet.<br>➤Target Commissioning date will be provided after approval/receipt of loan from lenders.                                                                                             | ➤Project authority is yet to execute PPA (Power Purchase Agreement)                                                                                                                                                                                                                                                                      |

| Sr. No. | Transmission Corridor                                                  | Scheduled Commissioning Date | Actual/ Likely Commissioning Date | Transmission Constraint                                                                                                                                                                                                                                                                                                                                        | Executing Agency                               | Progress                                                                                    | Reason for delay and brief detail of issues                                                                                                                                                                                                                                                                                                                                                                      | Action required/Remedial measures taken                                                                                                                                                                                               |
|---------|------------------------------------------------------------------------|------------------------------|-----------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------|---------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 6       | LILO of Lonikhand (MSETCL) – Kalwa (MSETCL) 400 kV line at Navi Mumbai | Sep'10                       | Jun'19                            | For drawl of power for feeding loads in and around Navi Mumbai area                                                                                                                                                                                                                                                                                            | Powergrid Corporation of India Limited (PGCIL) | LGH: 16 Ckm + 1.8 km u/g cable<br>TL: 25 nos.<br>FDN: 25 nos.<br>TE: 25 nos.<br>STG: 16 Ckm | <ul style="list-style-type: none"> <li>➤ A portion (1.8 Kms) of line executed using underground cable, affected due to severe ROW problem.</li> <li>➤ In Dec'16 local miscreants burnt cable. Replacement arranged.</li> <li>➤ Physical work completed in Mar'19 &amp; CEA clearance received on 13.05.19.</li> <li>➤ However, State downstream system at Navi Mumbai to be implemented through TBCB.</li> </ul> | ➤ Shutdown clearance for commissioning from Maharashtra State utilities (MSETCL) is still awaited.                                                                                                                                    |
| 7       | BECL (Padva) - Botad 220kV D/C line                                    | Sep'12                       | Jun'20                            | Three 220kV line had been planned for evacuation of power from Bhavnagara Padva generation project. Out of 3, 220kV D/C lines, 2 lines has already been commissioned and completion of 3 <sup>rd</sup> line is pending due to severe RoW issue in Botad area. This Line is also required for evacuation of power from BECL (Padva)- 2X250 MW in Gujarat state. | Gujarat Energy Trans. Corp. Limited (GETCO)    | LGH: 190 Ckm<br>TL: 292 nos.<br>FDN: 182 nos.<br>TE: 142 nos.<br>STG: 33.8 Ckm              | ➤ Contractual Issue.                                                                                                                                                                                                                                                                                                                                                                                             | <ul style="list-style-type: none"> <li>➤ Tender invited on risk &amp; cost of EPC Contractor. Last date of tender is 24.09.2018.</li> <li>➤ Tender date extended up to 24.04.2019. which is further extended to 01.07.2019</li> </ul> |

| Sr. No. | Transmission Corridor                   | Scheduled Commissioning Date | Actual/ Likely Commissioning Date | Transmission Constraint                                                                                                                                                                             | Executing Agency                            | Progress                                                                    | Reason for delay and brief detail of issues                                                                                                                                                                               | Action required/Remedial measures taken                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|---------|-----------------------------------------|------------------------------|-----------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------|-----------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 8       | Mundra (Adani) - Zerda 400kV D/C line 1 | Jun'12                       | Dec'20                            | This transmission line is part of ATS of Mundra TPP Ph.II (2x660MW), out of two no. 400kV D/C lines, one has already been completed. The line is required to meet the N-1 criteria for the project. | Gujarat Energy Trans. Corp. Limited (GETCO) | LGH: 664 Ckm<br>TL: 997 nos.<br>FDN: 464 nos.<br>TE: 275 nos.<br>STG: 0 Ckm | <p>➤Progress has been affected due to severe RoW problem.</p> <p>➤The executive agency is M/s Lanco for Pkg 1&amp;2 and M/s Gayatri for Pkg 3. Further, there are contractual issue with M/s Lanco &amp; M/s. Gaytri.</p> | <p>➤Notice for Risk &amp; Purchase has been issued to the contractor. Party has approached to High Court. High Court issued final order on 07/05/2018 and dismissed the request of the petitioner.</p> <p>➤On 08/05/2018, GETCO invite the fresh tender at risk &amp; cost of him.</p> <p>➤ For Pkg 1: Tender is on website and last date of tender is 09.04.2019 and further extended to 24.04.2019. which is further extended to 18.06.2019.</p> <p>➤For Pkg 2: Finalization of material accounting is under progress. Tender to be invited on risk &amp; cost of EPC contractor</p> |

| Sr. No. | Transmission Corridor                                           | Scheduled Commissioning Date | Actual/ Likely Commissioning Date | Transmission Constraint                               | Executing Agency                               | Progress                                                                        | Reason for delay and brief detail of issues                                                                                                                                                                                                                                                                                                                                        | Action required/Remedial measures taken |
|---------|-----------------------------------------------------------------|------------------------------|-----------------------------------|-------------------------------------------------------|------------------------------------------------|---------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------|
| 9       | 1200KV D/C Wardha - Aurangabad line (initially charge at 400KV) | Oct'08                       | Dec'19                            | Regional System Strengthening in WR for Mundra (UMPP) | Powergrid Corporation of India Limited (PGCIL) | LGH: 700 Ckm<br>TL: 961 nos.<br>FDN: 960 nos.<br>TE: 950 nos.<br>STG: 547 Ckm   | ➤Contract terminated 1 out of 2 packages due to unsatisfactory performance.<br>➤The package subsequently bifurcated into two parts. 1st part awarded in Dec'14 and second part in Feb'15.<br>➤Severe ROW is being encountered.<br>➤Due to thunderstorm & cyclone in Jun'18, about 6 fdn, 11 tower erection & approx. 9 ckm stringing damaged. Rectification work is under progress | ➤Work under progress.                   |
| 10.a    | Wanakbori TPS- Soja 400 KV D/C line                             | Mar'15                       | Dec'19                            | ATS of Wanakbori TPS                                  | Gujarat Energy Trans. Corp. Limited (GETCO)    | LGH: 212 Ckm<br>TL: 340 nos.<br>FDN: 284 nos.<br>TE: 282 nos.<br>STG: 158.8 Ckm | ➤Severe Row Issue                                                                                                                                                                                                                                                                                                                                                                  | ➤Work in Progress                       |
| 10.b    | Soja – Zerda 400 KV D/C line                                    | Mar'16                       | Dec'19                            | -Do-                                                  | Gujarat Energy Trans. Corp. Limited (GETCO)    | LGH: 268 Ckm<br>TL: 442 nos.<br>FDN: 388 nos.<br>TE: 384 nos.<br>STG: 220.2 Ckm | ➤Severe Row Issue                                                                                                                                                                                                                                                                                                                                                                  | ➤Work in Progress                       |
| 10.c    | LILO of 400 KV Wanakbori -Soja line at Dehgam (PG) S/S          | Mar'15                       | Dec'19                            | -Do-                                                  | Gujarat Energy Trans. Corp. Limited (GETCO)    | LGH: 12 Ckm<br>TL: 24 nos.<br>FDN: 24 nos.<br>TE: 20 nos.<br>STG: 9.27 Ckm      | ➤Severe Row Issue                                                                                                                                                                                                                                                                                                                                                                  | ➤Work in Progress                       |

| Sr. No. | Transmission Corridor           | Scheduled Commissioning Date | Actual/ Likely Commissioning Date | Transmission Constraint                                                                                        | Executing Agency                                                           | Progress                                                                        | Reason for delay and brief detail of issues                                                                    | Action required/Remedial measures taken                                                                                                                                                                                                                            |
|---------|---------------------------------|------------------------------|-----------------------------------|----------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------|---------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 11      | Khandwa Pool – Dhule 765 kV D/C | Jul'19                       | Jul'19                            | To evacuate power from 1320MW (2x660MW) NTPC thermal power project at Khargone in the state of Madhya Pradesh. | Khargone Transmission Limited (A subsidiary of Sterlite Power Transmission | LGH: 378.1 Ckm<br>TL: 486 nos.<br>FDN: 483 nos.<br>TE: 479 nos.<br>STG: 350 Ckm | ➤Work has been stopped due to passing of line through submergence area of proposed Jamphal Dam in Maharashtra. | A meeting was taken in CEA and DC, Dhule was requested to allow the construction of line and diversion will be taken up during construction stage of dam. But issue could not be resolved. The response from Govt. of Maharashtra in this regard is still awaited. |

## **Critical Transmission Projects in Southern Region(SR)**

| Sr. No. | Transmission Corridor                       | Scheduled Commissioning Date | Actual/ Likely Commissioning Date | Transmission Constraint                                                                                                                                                                                                  | Executing Agency                               | Progress                                                                          | Reason for delay and brief detail of issues                                                                | Action required/Remedial measures taken                                                                                                                                                                                                                                                                                                                                                                                                          |
|---------|---------------------------------------------|------------------------------|-----------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1       | Edamon-Muvattupuzha (Cochin) 400kV D/C line | Nov'08                       | Jun'19                            | <ul style="list-style-type: none"> <li>➤To decongest 220kV North - South corridor of Kerala.</li> <li>➤It is also a part of ATS of Kundakulam APP (2x1000MW)</li> </ul>                                                  | Powergrid Corporation of India Limited (PGCIL) | LGH: 297 Ckm<br>TL: 447 nos.<br>FDN: 447 nos.<br>TE: 446 nos.<br>STG: 296 Ckm     | ➤Severe ROW problem (long pending). Problem being addressed progressively as per Revised G.O. of 30.07.15. | ➤All fdn. Completed. 1 no. TE & 1 km stgg. held up due to ROW. 1 TE (291/0- under court case) which is under court case (case reserved in HC for passing of final order).                                                                                                                                                                                                                                                                        |
| 2       | Madhugiri (tumkur)-Yelhanka 400kV D/C line  | Jun'14                       | Sep'19                            | Constraints on Import of power from New grid to SR through Raichur-Sholapur 765kV D/C line.                                                                                                                              | Powergrid Corporation of India Limited (PGCIL) | LGH: 131 Ckm<br>TL: 178 nos.<br>FDN: 164 nos.<br>TE: 163 nos.<br>STG: 80 Ckm      | ➤Severe ROW in Karnataka.                                                                                  | <ul style="list-style-type: none"> <li>➤Issue are being resolved with the help of state administration.</li> <li>➤Stringing progress being affected due to higher compensation demand by farmers in route of line.</li> <li>➤Fdn. Work almost stopped in Bangalore Urban due to higher compensation demand since Feb'19. Now with the help of administration foundation. work in Bangalore Urban area has been restarted on 03.06.19.</li> </ul> |
| 3       | Vemagiri – Chilakaluripeta 765KV D/C line   | Apr'19                       | Jun'19                            | Improve power evacuation from 765 KV Vemagiri (PG), relieve constraints in 400 KV network at Vemagiri (PG), and may increase the transfer capability towards Southern Region. NEW – SR transfer capability will improve. | Powergrid Corporation of India Limited (PGCIL) | LGH : 558 Ckm<br>TL : 748 nos.<br>FDN :720 nos.<br>TE : 689 Nos.<br>STG : 478 Ckm | ➤ROW being faced in Krishna district.                                                                      | <ul style="list-style-type: none"> <li>➤Administaration support required in ROW resolution.</li> <li>➤Matter to be taken up in next Pragati meeting chaired by H'ble PM , to be scheduled shortly.</li> </ul>                                                                                                                                                                                                                                    |

| Sr. No. | Transmission Corridor                                   | Scheduled Commissioning Date | Actual/ Likely Commissioning Date | Transmission Constraint                                 | Executing Agency                                               | Progress                                                                            | Reason for delay and brief detail of issues | Action required/Remedial measures taken                                 |
|---------|---------------------------------------------------------|------------------------------|-----------------------------------|---------------------------------------------------------|----------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------|-------------------------------------------------------------------------|
| 4       | Chilakaluripeta - Cuddapah 765KV D/C line               | Apr'19                       | Jun'19                            | Strengthening of Transmission System beyond Vemagiri.   | Powergrid Corporation of India Limited (PGCIL)                 | LGH : 577 Ckm<br>TL : 768 nos.<br>FDN : 768 nos.<br>TE : 768 nos.<br>STG : 577 Ckm  | ➤Final forest clearance received April 18.  | ➤Work completed.                                                        |
| 5       | Vemagiri – Kamavarapukota 400 KV D/C line               | May'17                       | Mar'20                            | Relieve constraints in 400 KV network at Vemagiri (PG). | Transmission Corporation of Andhra Pradesh Limited (APTRANSCO) | LGH : 185 Ckm<br>TL : 268 nos.<br>FDN : 187 Nos.<br>TE : 155 Nos.<br>STG : 37 Ckm   | ➤Delay due to severe ROW issues             | ➤Works under progress.                                                  |
| 6.a     | Julurupadu – Jangaon 400 KV D/C line                    | Sep'18                       | Jun'19                            | ATS of Kothagudem TPS st-VII                            | Transmission Corporation of Telangana Limited (TSTRANSCO)      | LGH : 350 Ckm<br>TL : 489 nos.<br>FDN : 489 nos.<br>TE : 486 Nos.<br>STG : 350Ckm   | ➤Delay due to ROW issues                    | ➤Tree cutting Works under progress. Expected commissioning in June 2019 |
| 6.b     | 2x100 MVA, 220/132 KV Jangaon s/s                       | Sep'18                       | Jun'19                            | -Do-                                                    | Transmission Corporation of Telangana Limited (TSTRANSCO)      | LA: 100%<br>CW: 93%<br>ER: 90%<br>EE: 75%                                           |                                             | ➤Works under progress.                                                  |
| 7.      | New Neyveli TPP - Ariyalur (Villupuram) 400 KV D/C line | Jul'19                       | Sep'19                            | ATS of Neyveli New TPP                                  | Powergrid Corporation of India Limited (PGCIL)                 | LGH : 147 Ckm<br>TL : 213 nos.<br>FDN : 190. nos.<br>TE : 179 nos.<br>STG: - 78 Ckm |                                             | ➤Works Under Progress.                                                  |

## Critical Transmission Projects in North Eastern Region(NER)

| Sr. No. | Transmission Corridor                   | Scheduled Commissioning Date | Actual/ Likely Commissioning Date | Transmission Constraint                                                                                                                                                                                                                                                                                                                                      | Executing Agency                                   | Progress                                                                                                                          | Reason for delay and brief detail of issues                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Action required/Remedial measures taken                                                                                     |
|---------|-----------------------------------------|------------------------------|-----------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------|
| 1       | Bongaigaon TPS – Rangia 220kV D/C line  | Jan'13                       | Dec'19                            | One 400kV, two 220kV and one 132 kV line had been planned for evacuation of power from Bongaigaon TPS. Out of 4 lines 2 lines (400kV, 220kV) have been commissioned and balance 2 nos. transmission lines are pending. These lines would be required for evacuation of full power from Bongaigaon TPS. Out of 3 generating units, two has been commissioned. | Assam Electricity Grid Corporation Limited (AEGCL) | LGH: 324.088 Ckm<br>TL: 516 nos.<br>FDN: 516 nos.<br>TE: 515 nos.<br>STG: 312.842 Ckm                                             | ➤Transmission line delayed due to re-alignment of line because of proposed airport at BTAD area, 800 kV HVDC line of PGCIL, ROW issues & Law & order issues.                                                                                                                                                                                                                                                                                                                                               | ➤ All the foundation and erection works are completed except erection at one location (Loc No. 243), which is under process |
| 2       | Dikchu HEP- Dikchu pool 132kV D/C line. |                              | May'19                            | This Line is required to evacuate power from Dikchu HEP (2x48MW), In absence of this line, the power from Dikchu HEP is being evacuated through interim arrangement of LILO of Teesta III-Rangpo 400kV line at Dikchu.                                                                                                                                       | SKPPL (Sneha Kinetic Power Projects Pvt. Ltd.)     | Work yet to be awarded by the generation company. <b>The interim LILO arrangement has been completed for evacuation of Power.</b> | ➤Dikchu pooling station and connecting network is covered under Comprehensive T&D scheme being constructed by PGCIL. The land for Dikchu pooling station is yet to be handed over to PGCIL. Route survey of 220KV D/C Dikchu-Singhik (20 Km) line and 220KV D/C Rangpoo (Samardong) - Dikchu (to be operated initially 132KV) has been completed. Foundation work completed.<br>➤No action has been initiated for execution of Dikchu HEP – Dikchu Pool 132 KV D/C line, supposed to be executed by SKPPL. | ➤PGCIL, Power Dept. Sikkim and Sneha Kinetic Power Projects Pvt. Ltd.) to expedite the work.                                |

## **Critical Transmission Projects in Inter-Regional (IR)**

| <b>Sr. No.</b> | <b>Transmission Corridor</b>                                 | <b>Scheduled Commissioning Date</b> | <b>Actual/ Likely Commissioning Date</b> | <b>The Transmission Constraint</b>                                                                                                                                                                                                                                                                                                                                                    | <b>Executing Agency</b>                                                  | <b>Progress</b>                                                                    | <b>Reason for delay and brief detail of issues</b>                                                                                                                                                                                                                                                                                                                                            | <b>Action required/Remedial measures taken</b>                                                                                                                                                                                                                                                                                                                                                                                             |
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| 1              | Warora (Pool) – Warangal (New) 765 kV D/C line <b>(TBCB)</b> | Nov'19                              | Dec'19                                   | To facilitate import of power to Southern region based on the pessimistic scenario of non-availability / delay in commissioning of some of the generation projects in Southern region, this 765 kV additional transmission link has been proposed in case of contingencies including total outage of an entire inter-regional link and other critical regional lines for reliability. | Warora Kurnool Transmission Ltd. (A subsidiary of Essel Infraproj. Ltd.) | LGH: 645.7 Ckm<br>TL: 827 nos.<br>FDN: 774 nos.<br>TE: 425 nos.<br>STG: 58.6 Ckm   | <p>➤Work in Maharashtra state is stopped completely due to RoW problem</p> <p>➤As per route identified by BPC (PFC) the line would traverse through coal bearing area of Western Coalfields Ltd (Maharatna) and Singareni Collieries company Ltd, Telangana. Both WCL and SCCL wants the route to be diverted to avoid coal bearing area as their mining activity are expected very soon.</p> | <p>➤About 4 towers are falling in SCCL area and 16 towers in WCFL area. Matter need to be taken up with SCCL, WCFL and Ministry of Coal for resolution.</p> <p>➤Meetings were taken by Chief Engineer (CEA) on 30.05.2019 and Chief Engineer (MOP) on 03.06.2019 and WKTL informed that project is adversely affected due to objection raised by WCL and SCCL. WKTL have requested to resolve the issues early in discussion with MoC.</p> |
| 2              | Raigarh - Pugalur 800KV HVDC Bipole link                     | Nov'19                              | Nov'19                                   | HVDC Bipole link between Western Region (Raigarh, Chhattisgarh) and Southern Region (Pugalur, Tamil Nadu) - Raigarh-Pugalur 6000 MW HVDC System                                                                                                                                                                                                                                       | Powergrid Corporation of India Limited (PGCIL)                           | LGH: 3531 Ckm<br>TL: 4773 nos.<br>FDN: 4471 nos.<br>TE: 4226 nos.<br>STG: 2285 Ckm | ➤Progress slow in Tamil Nadu due to severe ROW. Huge forest involvement (432 Ha.) in WR portion. Working permission received in Oct'18. Wildlife corridor clearance awaited.                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                            |