



(As on 29.02.2020)

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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	4	0	11	2	4	0	2-14
2	Eastern Region	0	0	6	0	0	0	15-18
3	Western Region	0	0	11	0	3	0	19-26
4	Southern Region	0	0	2	0	0	0	27
5	North Eastern Region	0	0	2	0	0	0	28
6	Inter-Regional	1	0	0	0	0	0	29-30
	Total	5	0	32	2	7	0	Total Elements :46

* Note : There is one more element (800KV HVDC) than Total elements mentioned above.

Critical Transmission Projects in Northern Region(NR)

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
1.	Mohindergarh - Bhiwani 400kV D/C line.	Aug'18	Jul'20	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 TL: 181 nos. FDN: 152 nos. TE: 81 nos. STG: 8 Ckm	➤Forest clearance (2.7 Ha) awaited. Stage-I clearance received. Severe ROW in Bhiwani portion affecting progress. ➤Work affected due to poor performance of executing agency. ➤C&C case presently in NCLT ➤Contract of C&C terminated. Balance work awarded in Nov'19.	➤PGCIL to expedite progress of line for early completion keeping in view the criticality of this line.
2	Anpara-D –Unnao 765kV S/C line.	Jan'12	June'20	Required for evacuation of power from Anpara-D STPS.	Uttar Pradesh Power Transmission Corporation Limited (UPPTCL)	LGH: 416 Ckm TL: 1225 nos. FDN: 1224 nos. TE: 1220 nos. STG: 401 Ckm	➤765 KV Jhusi-Unnao section completed. Work on Anpara-Jhusi section incomplete. ➤Contract of M/s Jyoti Structures Limited has been terminated on 26.07.18 due to poor progress. ➤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.	➤Work under progress.

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3	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 TL: 903 nos. FDN: 613 nos. TE: 346 nos. 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.

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4.a	Bajoli HEP-Lahal 220kV D/C line	Oct'16	June'20	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 TL: - 59 nos. FDN: - 42 nos. TE: - 20 nos. STG: - 0Ckm	➤ Work delayed due to Poor Weather Conditions/Snowfall during this winter season. ➤ Insuffiient Manpower at site due to demobilization of labour.	➤ Additional Manpower is being deployed to Execute the Work.
4.b	Lahal-Chamera 400kV D/C line	Oct'16	Apr'21			LGH: - 71 Ckm TL: - 112 nos. FDN: - - 19 TE: - 0nos. STG: -0 Ckm	➤ Transmission Line work delayed due to problems faced in acquisition of Private Land.	➤ Matter has been taken with local administration to allow the construction work

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4.c	630 MVA, 400/220/33 kV Lahal (GIS)	Oct'16	Mar'20		H.P. Power Transmission Corporation Limited (HPPTCL)	LA:100% CW:96% (Minor Civil works are pending) SUPPLY: 100% EE: Electrical Works Completed and Testing has been Done.	➤ Lahal Substation is ready for charging and but this can be charged only with commissioning of Lahal-Budhil Transmission Line.	➤ Lahal-Budhil Transmission Line is likely to be completed by 1 st week of Mar'20
5	Suratgarh TPS – Babai (Jhunjhunu) 400kV D/C line	Jan'13	Mar'21	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 TL: 676 nos. FDN: 676 nos. TE: 676 nos. STG:469 Ckm	➤ Work heldup ➤ 2 Nos. towers at loc.34/12 & 35/0 collapsed on 16.04.2019 and need to re-erected. ➤ Termination notice issued to the fiern on 13.12.2019. Stay against termination granted by NCLT, Hyderabad. ➤ Next date of hearing is 17.03.2020.	➤ Case is subjudice and efforts are being made by RVPN to resolve the issue
6	LILO of one ckt of Nathpa Jhakri – Abdullapur 400 kV D/C at Gumma	Mar'17	Mar'20	This line is ATS of Swara Kuddu (3x37MW) & is required for evacuation power from generating station.	H.P. Power Transmission Corporation Limited (HPPTCL)	LGH: 3 Ckm TL: 15 nos. FDN: 14 nos.(59 Stubs) TE: 13 nos. (Erection work of TF-Tower (14 th Tower) is in progress) STG: 1.25 Ckm	➤ Transmission Line work Delayed due to Court Cases by the land owners. ➤ Tower MCT-I delayed due to Slidding of loose soil and settlement of raod, which requires construction of Bailey Bridge.	➤ Matter has been taken with Administration. ➤ Bailey Bridge has been erected.

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7	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 TL: 450 nos. FDN: 380 nos. TE: 274 nos. 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.

8.a	Rudrapur(Brahmwari) – Ghansali (Srinagar) 220 KV D/C line	Mar'13	Mar'20	Baramwari – Srinagar 220 kV D/C line and LILO of this line at Singoli Bhatwari HEP (76.5 km/150 ckm) are required for transfer of power from 99MW Singoli Bhatwari HEP of M/s L&T up to Srinagar pooling station	Power Transmission Corporation of Uttarakhand Limited (PTCUL)	1. Construction work from 400kV S/s Srinagar to Interconnection point of 99MW Singoli Bhatwari HEP of M/s L&T completed. 2. Final checking of Line is in progress. 3. Online application for inspection of Electrical Inspector of CEA submitted. 4. Commissioning of Line is expected by 15.03.2020.	➤ Delay of about 8 months due to termination of old contract with M/s LANCO Infratech on non performance on 25.10.2017. ➤ Balance work of Line was awarded to M/s L&T on 28.03.2018 and date of completion of work was 27.06.2019. ➤ 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. ➤ There were RoW issues in 47 numbers of tower locations due to which progress of work was affected. RoW of all tower locations has been settled. ➤ Old Sub Contractors engaged by M/s Lanco in construction of above line created hindrance due to non settlement of their liabilities, due to which completion period got delayed by 07 months ➤ Progress of tree cutting was slow as compared to construction work of line due to which progress was affected.	
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8.b	LILO of Baramwari - Srinagar at Singoli Bhatwari 220 KV D/C line	Oct'16	Mar'20				➤ Due to heavy snow fall UPCL did not allowed shutdown of 132kV Khandukhal - Srinagar Line, stringing of 0.8 Km. was held up from 20 Dec 2019 to 22 Dec 2019. Shutdown was given by UPCL on 23.01.2019 and 27.01.2019 and this work completed. ➤ Due to heavy snow fall and rain in Project area construction activities of Line were held up in the month of Dec 2019 and Jan 2020. Construction work of Line was completed on 15.02.2020 and commissioning of Line is expected by 15.03.2020 .	

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9.a	Tapovan Vishnugadh - Kunwari Pass (Pipalkoti) 400 KV D/C line	Mar'17	Dec'20	For transfer of power from Tapovan Vishnugad HEP and Vishnugad Pipalkoti HEP up to Srinagar pooling station.	Power Transmission Corporation of Uttarakhand Limited (PTCUL)	LGH: 36 Ckm TL: - nos. FDN: - - 02/50 Foundation U/P – 05 no. locations. TE: - nos. STG: - Ckm	➤ NOC as per Forest Right Act, obtained for all 13 nos. villages. ➤ Forest proposal submitted on 10.06.2018. ➤ Principal Approval of forest proposal (Stage-I clearance) obtained on 09/10/2019.	➤ Final approval of forest case proposal.

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9.b	Kuwari Pass (Pipalkoti)-Karanprayag – Srinagar 400 KV D/C line (in three package)	Dec'14	Dec'20	-Do-	Power Transmission Corporation of Uttarakhand Limited (PTCUL)	Package-1 Pipalkoti-Nakot line (62 ckm) Package-2 Nakot-Dhanpur forest line Package-3 Dhanpur-Srinagar line (62 ckm) LGH: 186 Ckm TL: - nos. FDN: - 11/220 Foundation U/P- 32/220 TE: - nos. STG: - Ckm	➤ Land bank with digital maps and co-ordinates, has already been identified for Compensatory afforestation for all packages. ➤ Forest proposal has been submitted on dated 24.11.2018 for package-I, on dt.23.10.18 for package-II and on dt. 23.02.19 for package-III. ➤ For Pak-I - Principal Approval of forest proposal (Stage-I clearance) obtained on 11/10/2019. ➤ For Pak-II - Principal Approval of forest proposal (Stage-I clearance) obtained on 11/10/2019. For Pak-III - All queries of forest case clarified and case reached at MoEF&CC on 20.09.19. MoEF & CC again raised query on 21.10.19. The clarifications submitted in MOEF &CC on dated 13.12.2019. Forest proposal discussed in REC meeting held on dated 24.12.2019. Some observation related to CA as pointed out by MOEF&CC is under clarification at DFO Rudraprayag.	➤ Final approval of forest case proposal for Pak-I & II. ➤ Principal approval of forest case proposal for Pak-III.

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10	Khandukhal (Srinagar)-rampura (Kashipur) 400 KV D/C line	Mar'19	Dec'20	Required for evacuation of power from Singoli Bhatwari HEP (3x33MW), Tapovan Vishnugad HEP(4x130MW) and Vishnugad Pipalkoti HEP(4x111MW) beyond Srinagar.	Power Transmission Corporation of Uttarakhand Limited (PTCUL)	LGH: 362 Ckm TL: - nos. FDN: - nos. TE: - nos. 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. ➤ Fresh tendering in process for the project.	➤ NIT floated on 08/03/2019. The technical bid was opened on 07/05/2019 and Financial / Price Bid was opened on 13.08.2019. Contract award is under process.
11.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 TL: - 241 nos. FDN: - 97 nos. TE: - 54 nos. 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.

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11.b	Gonda - Shahjehanpur (PG) 400 KV D/C line	Aug'15	Uncertain	-Do-	South East UP Power Transmission Company Limited (SEUPPTCL)	LGH: 460 Ckm TL: - 543 nos. FDN: - 296 nos. TE: - 140 nos. 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.
12	LILO of one ckt of Bamnauli – Jattikalan at Dwarka-I 400 KV D/C	May'17/ Jun'19 (Rev.)	Jun'20	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 TL: 41 nos. FDN: 27 nos. TE: 12 nos. 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. Pole foundation completed. Erection in progress.
13	Chandigarh - Panchkula (PG) 220KV D/C (incl. 9.7 Kms underground cable).	Feb'19/ Jun'19 (Rev.)/ Apr'20 (Rev.)	Mar'20		Powergrid Corporation of India Limited (PGCIL)	LGH: 48 Ckm TL: 56 nos. FDN: 50 nos. TE: 50 nos. STG: 43 Ckm	➤ Work of downstream system yet to be taken up by UT Chandigarh. ➤ Underground cable laying done in 5 Kms. Court case in 04 locations in view of ROW which is hampering progress.	➤ Court case in 04 locations in view of ROW which is hampering progress.

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14	Kadarpur-Sohna road 400 kV D/C (TBCB)	Sep'19	Mar'20	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: 20.56 Ckm TL: 29 nos. FDN: 29 nos. TE: 29 nos. STG: 20.56 Ckm	➤ One Power Line crossing approval was pending with HVPNL. Now approval of the same has been received. ➤ Environment Pollution Control Authority (EPCA) construction Ban has prevented and unavoidably delayed the construction work. ➤ RoW issue raised by Land Owner Mr. Surendra Singh in village Tehsil – Badshahpur, Gurgaon which has delayed construction.	➤ Electrical Inspection was held on 27-02-2020 and the approval for Energization certificate is expected by 6th Mar 2020.
15	2x500 MVA, 400/220 kV GIS at Sohna Road (Gurgaon) (TBCB)	Sep'19	Mar'20	-Do-	Gurgaon Palwal Transmission Limited (A subsidiary of Sterlite Power Transmission Ltd.)	LA: 100% CW: 70% ES: 99% EE: 53%	➤ HVPNL has raised the issue of difficulty in finalizing the route of 220 kV D/C 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/C 220 kV line from Sohna road.	➤ Electrical Inspection was held on 27-02-2020 and the approval for Energization certificate is expected by 6th Mar 2020

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16	Koteshwar – Rishikesh 400 KC D/C (TBCB)	Jun'19	June'20	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 Infracorp. Ltd.)	LGH: 81 Ckm TL: 106 nos. FDN: 26 nos. TE: 0 nos. STG: 0 Ckm)	➤ Forest clearance awaited. ➤ NOC is awaited from Govt. of Uttarakhand for construction of line in premises of Indian Drugs and Pharmaceuticals Limited (IDPL), Rishikesh. ➤ A meeting in this regard is convened by The Chief Secretary of the state along with other stake holders along with the consultant M/s E&Y On 10 December 2019. A new route has been proposed to us. We shall be remobilizing our team to check the feasibility of the route and will revert with the outcome.	➤ Forest clearance awaited. ➤ IDPL conveyed its 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. ➤ Project stalled because of unexpected delay in obtaining NOC from IDPL.

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/ Dec'18 (Rev.)/ Aug'19 (Rev.)	Mar'20	Required for Eastern Region system Strengthening	Powergrid Corporation of India Limited (PGCIL)	LGH: 881 Ckm TL: 1219 nos. FDN: 1218 nos. TE: 1217 nos. STG: 877 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.	➤ 400 KV S/C New Purnea-Gokarna line & 400 KV S/C New Purnea-Farakka line charged on 10.11.19 (both lines are section of 400 KV D/C Rajarhat-Purnea line). Matter followed up at all levels for early resolution. Work re-started on 14.08.18 with the help of state administration & again stopped from Jan'19 to 07.02.2020. Work commenced on 08.02.2020 and 2.5 km & 1 fdn. completed. 2nd fdn. is under progress.
2.a	North Karanpura – Chandwa 400 kV D/C line (TBCB)	Sept'17	Jun'20	Evacuation of power from North Karanpura TPP .	North Karanpura Transco Ltd. (NKTL, a subsidiary of Adani Transmission Ltd.)	As per latest route. LGH: 102 Ckm TL: 115 nos. FDN: 58 nos. TE: 45 nos. STG: 0 Ckm	➤ Due to non -availability of NOC (No Objection Certificate) from CCL/MoC, the work was delayed. ➤ was delayed. ➤ North Karanpura-Chandwa (NK-C) Line : CEA had decided that NK-C line shall be completed within 14 months from the date of NOC subject to grant	➤ NKTL has received a letter from CCL forwarding MoC's NOC, however NoC from CCL in form of MoU is yet to be received. Despite of pending MoU, work has commenced ahead of schedule in the interest of

2.b	North Karanpura – Gaya 400 kV D/C line (TBCB)	Sep'19	Mar'21		North Karanpura Transco Ltd. (NKTL, a subsidiary of Adani Transmission Ltd.)	As per latest route. LGH: 196 Ckm TL: 288 nos. FDN: 59 nos. TE: 31 nos STG: 0 Ckm	of Forest Clearance (FC) within 200 Days from application. Currently FC is at DFO level due to want for NOC of Gair Majarua (GM) – Jungle Jhari (JJ) from Revenue Department, State of Jharkhand. Out of two DFO involved, looking into criticality of project and on request, DFO Latehar has completed Part II compliance pending receipt of NOC for GM-JJ land; however, DFO Chatra has hold Part II compliance till receipt of NOC for GM-JJ land. Due to adoption of new process concerned DC offices are seeking clarity / directions from The Secretary, Revenue Dept., Jharkhand Govt. as to which category of slab related to GM-JJ land is to be charged for NOC. Around 245 days have passed and is effecting schedule adversely for reasons beyond the control of NKTL. ➤ North Karanpura – Gaya (NK-G) Line: CEA had decided that NK-G line shall be completed within 23 months from the date of NOC subject to grant of Forest Clearance (FC) within 300 Days from application. Currently FC is at Nodal office. Nodal Officer had asked to explore various routes as it was envisaged that sizeable forest area can be reduced by slight modification in route. All options were worked out in consultation of Nodal officer and proposal has been	completing the project at an early date so that the national assets are not stranded. ➤ Support from CEA, NTPC and LTTCs is requested in expediting forest clearance for both lines as special case. Progress outside forest area is going as per schedule. ➤ Progress in “Non-Forest” locations is going as per schedule and following progress have been achieved till 29.02.2020: For NK-C line, FDN: 58 / 74 locs TE: 45 / 74 locs For NK-G line, FDN: 59 / 138 locs TE: 31 / 138 locs. NKTL is well within the target to complete all “Non Forest” locations within the timeline of 14 month for NK-C line and within 23 months for NK-G line. ➤
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							submitted for acceptance of Nodal Officer. Proposal is yet to be accepted by Nodal Officer and around 215 days have passed and is on critical path. ➤ For NK-C line, 132 kV Powerline crossing approval from DVC is on hold as NTPC has asked DVC to shift their line for NTPC's coal pipe conveyor belt of external CHP. Shifting of this line is yet to be finalized by NTPC / DVC and is impacting execution works of 400 kV NKSTPP – Chandwa line which is very much required for evacuation of power from NTPC's STPP.	
3.	LILO of Teesta-III – Kishenganj 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. ii) Loop - Out portion: Award placed in Dec'17. LGH: 24 Ckm TL: 35 nos. FDN: 15 nos. TE: 4 nos. 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. Work permission received in Mar'19. Work under progress.

4	Sagardighi – Gokarna 400kV D/C line	Jul'15	March'20	This line is part of ATS of generation project Sagardighi-TPP (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 TL: 154 nos. FDN: 154 nos. TE: 154 nos. STG: 88 Ckm	➤ Work Delayed due to poor performance of the vendor (Jyoti Structures Ltd.). ➤ Contract has been terminated with M/s Jyoti Structures Ltd. ➤ Railway crossing is pending. ➤ Approval of railway authority is pending for stringing over railway crossing span only.	➤ Fresh contractor awarded to M/s L&T on 17.07.2019.
5.	Jigmeling – Alipurdua 400KV D/C	Mar'18/ Mar'19 (Rev.)/ Dec'19 (Rev.) / Mar'20 (Rev.)	May'20	Transmission System Strengthening in Indian System for Transfer of Power from Mangdechhu Hydroelectric Proj, in BHUTAN.	Powergrid Corporation of India Limited (PGCIL)	LGH: 326 Ckm TL: 466 nos. FDN: 391 nos. TE: 376 nos. STG: 144 Ckm	➤ Working permission received in Feb'19. Progress is delayed due to NCLT proceeding against contractor M/s C&C. ➤ Work affected due to NRC/ CAA agitation in Assam.	➤ Alternate arrangements made for evacuation of power (contingency through Punatsangchu ATS).

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	Dec'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 TL: 365 nos. FDN: 323 nos. TE: 310 nos. STG: 180 Ckm (117 ckm of line commissioned in Jan 14 through interim arrangement)	➤ Progress was 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. ➤ 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 TL: 679 nos. FDN: 633 nos. TE: 587 nos. STG: 217.8 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,15.	KSK Mahanadi Ltd.	TLG 56 Ckm TL: 83 nos. FDN: 68 nos. TE: 54 nos. STG: 12Ckm No progress	➤ Fund constraints ➤ 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,20	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: 455.06 Ckm TL: 726 nos. FDN: 576 nos. TE: 510 nos. STG: 176.414Ckm	➤ Forest Status: (148 Ha) Second & Final approval received on 06.04.2018. ➤ GMRT Issue: The issue is resolved. ➤ RoW: ➤ A) Nashik Zone: 22 cases for erection and 5 cases for foundation filed to Collector, Pune, he delegated powers to SDO, Manchar-Junnar, orders awaited. ➤ B) Vashi Zone: 13 & 12 cases respectively for foundation(F) & erection(E) filed to Collector, Thane, he delegated powers to SDO Kalyan (F-1 & E-12) / SDO Bhiwandi (F-1 & E-11), orders awaited. ➤ Major Constraint: ➤ As per GR dated 31.05.2017 there is provision for payment of compensation in respect of Tower foundation & erection i.e. 2 times the ready reckoner rate. However, revenue authority has issued orders for huge compensation.	➤ The variation in locations and line length is due to 2nd diversion of route due to GMRT (Giant Metrewave Radio Telescope). ➤ 79 nos. foundations and 60 nos. towers will be scrapped due to route diversion by GMRT. ➤ Resolution of GMRT issue. ➤ Prohibitory order from Collector Thane for filed cases. ➤ There is huge unrest among land owners due to non payment of land compensation.

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	a) 220 kV MC LILO on 220kV Kolshet - Wada line at 400kV Kudus S/s - 6.2 kms b) 220 kV LILO on 220kV Padghe - Wada line at 400kV Kudus S/s by stringing 3rd & 4th Ckt on M/C towers at (a) above- 6.2 kms.	Nov'18	Jun'20	Downstream network at Kudus s/s.	Maharashtra State Electricity Transmission Company limited (MSETCL)	LGH:31.62Ckm TL: 46 nos. FDN: 11 nos. TE: 7 nos. STG: 0 Ckm	➤ Forest: Area involved 11 ha Online submission of proposal: FP/ MH/TRANS/30180/2017 dt 9.11.2017. Compliances received from PCCF, Nagpur are complied on 01.07.2019. Proposal is at APCCF, Nagpur ROW: As per GR dated 31.05.2017 there is provision for payment of compensation in respect of Tower foundation & erection i.e. 2 times the ready reckoner rate. However, revenue authority has issued orders for huge compensation. .	Forest Forest: Forest Proposal is at APCCF, Nagpur.

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	Dec'20	Downstream network at Kudus s/s.	Maharashtra State Electricity Transmission Company limited (MSETCL)	LGH: 116.76 Ckm TL: 117 nos. FDN: 55 nos. TE: 0 nos. STG: 0 Ckm	➤ Forest involvement after re-routing: Area involved 2.95 Ha (Appr). Proposal is pending at DFO Dahanu. 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. ROW: New ROW arrived from loc 20A to 29, villagers of Dakivali & Mohope demanding diversion of line, due to mine area along this route. ➤ Facing huge opposition in vasai and Bhiwandi areas where	➤ Forest: Proposal is presently at ACF, Dahanu.
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. 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 TL: 84 nos. FDN: 0 nos. TE: 0 nos. STG: 0 Ckm M/s VVL has not started line construction.	➤ Project authority has also not been able to execute PPA yet. ➤ 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	BECL (Padva) - Botad 220kV D/C line	Sep'12	Dec'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 rd 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 TL: 292 nos. FDN: 182 nos. TE: 142 nos. STG: 33.8 Ckm	➤ Contractual Issue. ➤ Work awarded on Risk & Cost basis	➤ Tender invited on risk & cost of EPC Contractor. Last date of tender is 24.09.2018. ➤ Tender date extended up to 24.04.2019 which is further extended to 01.07.2019. Tender under acceptance at Procurement & Project Committee conducted on 23/08/2019. ➤ LoI is placed on 22/10/2019 ➤ Work under 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
7	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 TL: 997 nos. FDN: 464 nos. TE: 275 nos. STG: 0 Ckm	➤ Progress has been affected due to severe RoW problem. ➤ The executive agency is M/s Lanco for Pkg 1&2 and M/s Gayatri for Pkg 3. Further, there are contractual issue with M/s Lanco & M/s. Gaytri..	➤ Notice for Risk & 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. ➤ On 08/05/2018, GETCO invite the fresh tender at risk & cost of him. ➤ For Pkg 1: Tender is on website and last date of tender is 09.04.2019 and because of lack of competition further extended to 24.04.2019, 18.06.2019, 15.07.2019, 20/08/2019, 17/09/2019, 03/10/2019, 17/10/2019, 18/11/2019, 16.12.2019. Tender under Acceptance. Due to high quote, pkg is again Retendered on 28.02.2020 and last date of submission of bid is 30.03.2020 ➤ For Pkg 2: Material accounting is completed. NIT done and due date of submission of bid is 07-01-2020. Due to no response, pkg is again Retendered on 28.02.2020 and last date of submission of bid is 30.03.2020.

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	1200KV D/C Wardha - Aurangabad line (initially charge at 400KV)	Oct'08/ Mar'17 (Rev.)/ Feb'18 (Rev.)/ Dec'18 (Rev.)/ Dec'19 (Rev.)	Jun'20	Regional System Strengthening in WR for Mundra (UMPP)	Powergrid Corporation of India Limited (PGCIL)	LGH: 696 Ckm TL: 961 nos. FDN: 961 nos. TE: 961 nos. STG: 630 Ckm	➤ Contract terminated 1 out of 2 packages due to unsatisfactory performance. ➤ The package subsequently bifurcated into two parts. Ist part awarded in Dec'14 and second part in Feb'15. ➤ Severe ROW is being encountered. ➤ 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.
9.a	Wanakbori TPS- Soja 400 KV D/C line	Mar'15	Jun'20	ATS of Wanakbori TPS	Gujarat Energy Trans. Corp. Limited (GETCO)	LGH: 216 Ckm TL: 322 nos. FDN: 301 nos. TE: 297 nos. STG: 165.3 Ckm	➤ Severe Row Issue	➤ Work in Progress
9.b	Soja – Zerda 400 KV D/C line	Mar'16	Jun'20	-Do-	Gujarat Energy Trans. Corp. Limited (GETCO)	LGH: 268 Ckm TL: 422 nos. FDN: 389 nos. TE: 387 nos. STG: 243.1 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
10	Khandwa Pool – Dhule 765 kV D/C (TBCB)	Jul'19	May'20	To evacuate power from 1320MW (2x660MW) NTPC thermal power project at Khandwa in the state of Madhya Pradesh.	Khargone Transmission Limited (A subsidiary of Sterlite Power Transmission	LGH: 378.88 Ckm TL: 492 nos. FDN: 476 nos. TE: 474 nos. STG: 350.44 Ckm	➤ Work has been stopped due to passing of line through submergence area of proposed Jamphal Dam in Maharashtra.	➤ A meeting was held in District Collector, Dhule office in July, 2019 by CEA officers. DC, Dhule stated that considering the ongoing work of Jamphal Dam construction of line through submergence area can not be allowed and KTL has to re-route the line avoiding submergence area of dam. ➤ Forest clearance proposal for diverted route is pending with Nodal officer, MoEF.

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.	Vemagiri – Kamavarapukota 400 KV D/C line	May'17	Jun'20	Relieve constraints in 400 KV network at Vemagiri (PG).	Transmission Corporation of Andhra Pradesh Limited (APTRANSCO)	LGH:186.72CKm TL: 268 Nos FDN: 229Nos TE: 202Nos STG: 79.652 CKm	➤ Delay due to: 1) Out of 268 Nos tower locations,137 Nos locations are in paddy fields which are having three crop seasons per year and average working season in a year is 45 days approximately. ➤ 13 Nos Locations are having severe ROW issues. ➤ Necessary action is being taken to resolve the issues.	➤ Works under progress.
2.	New Neyveli TPP - Ariyalur (Villupuram) 400 KV D/C line	Jul'19	Mar'20	ATS of Neyveli New TPP	Powergrid Corporation of India Limited (PGCIL)	LGH : 147 Ckm TL : 213 nos. FDN : 213 nos. TE : 213 nos. STG: - 125 Ckm	➤ ROW issues at Ariyalur end affecting stringing work. ➤ Readiness of S/S at Ariyalur (being implemented by TANTRANSCO) is critical for commissioning of line.	➤ 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.	Imphal-New Kohima 400 kV D/C line (Twin Moose ACSR) (TBCB)	Jul'20	Jul'20	The extension of 400 kV system to the states of Manipur and Nagaland by interconnecting them with Assam has been planned through a 400 kV ring connecting Silchar- Imphal – New Kohima – New Mariani – Misa – Silchar along with new 400 kV substation at New Mariani	Kohima-Mairani Trans. Ltd (Kalpataru)	LGH : 268 Ckm TL : 317 nos. FDN :295 nos. TE : 280 Nos. STG : 188 Ckm	➤ Severe RoW issues in Manipur & Nagaland(36 locations) ➤ Blockage of national highway due to rainfall / landslides resutling in delay in delivery of material at site.	➤ Administartion support from following DMs 1. Imphal, Senapati & Kangpokpi in Manipur 2. Kohima in Nagaland ➤ Power Deptt of Nagaland State need to expedite the construction of downstream network with matching time frame.
2.	New Kohima - New Mariani 400 kV D/c line (Twin Moose ACSR) (TBCB)	Jul'20	Jul'20	The extension of 400 kV system to the states of Manipur and Nagaland by interconnecting them with Assam has been planned through a 400 kV ring connecting Silchar- Imphal – New Kohima – New Mariani – Misa – Silchar along with new 400 kV substation at New Mariani	Kohima-Mairani Trans. Ltd (Kalpataru)	LGH : 240 Ckm TL : 285 nos. FDN :274 nos. TE : 262 Nos. STG : 153 Ckm	➤ Severe RoW issues in Assam & Nagaland(25 locations) ➤ Non seasonal rainfall & frequent bands / restrictions at local level resutling in noncontinuity of work on site	

Critical Transmission Projects in Inter-Regional (IR)

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	Warora (Pool) – Warangal (New) 765 kV D/C line (TBCB)	Nov'19	Uncertain	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 Infracorp. Ltd.)	LGH: 645.7 Ckm TL: 827 nos. FDN: 774 nos. TE: 425 nos. STG: 58.6 Ckm	➤ Work in Maharashtra state is stopped completely due to RoW problem ➤ 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.	➤ About 4 towers are falling in SCCL area and 16 towers in WCL area. ➤ MoP vide letter no. 7/1/2017-Trans dated 26.06.2019, had constituted a committee under the Chairmanship of Chief Engineer, CEA with representatives from Ministry of Coal (MoC), WCL, CMPDI, SCCL, CEA & WKTL, TANGEDCO and KSEB to examine the issue and suggest possible solutions on the matter. Accordingly report was submitted to MoP. ➤ It has been decided that construction on coal bearing area of SCCL would be completed along approved route. And in the coal bearing area of WCL two alternative route(I & II) has been proposed. ➤ Subsequently, a meeting was taken by Additional Secretary (Trans), MoP on 15.11.2019 and CEA has been advised to collect more relevant information in connection with Alternate-II route such as, villages/ landowners likely to be effected & angle points with co-ordinates, etc. As per the decision of meeting held in MoP, the committee has also co-opted members from PFCCCL and CTU for further discussion on the matter. In this connection the members of the committee visited Alternate – II route on 16.01.2020. Recommendation of committee has been submitted to MoP.

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
2	Raigarh - Pugalur 800KV HVDC Bipole link	Nov'19/ May'20 (Rev.)	Mar'20	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 TL: 4773 nos. FDN: 4771 nos. TE: 4769 nos. STG: 3467 Ckm	➤ Progress slow in Tamil Nadu due to severe ROW. Efforts are being made to resolve the issue with the help of Distt. Admn. Huge forest involvement (432 Ha.) in WR portion. Working permission received in Oct'18.	➤ Wildlife proposal discussed in NBWL meeting held on 18.07.19, minutes issued in Aug'19 end and proposal cleared by NBWL.