



(As on 31.05.2020)

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 Substa-tions	No. of Tr. Lines	No. of Substa-tions	No. of Tr. Lines	No. of Sub-stations	
1	Northern Region	4	0	10	1	3	0	2-8
2	Eastern Region	0	0	6	0	0	0	9-12
3	Western Region	0	0	11	0	3	0	13-19
4	Southern Region	0	0	2	0	0	0	20
5	North Eastern Region	0	0	2	0	0	0	21
6	Inter-Re-gional	1	0	0	0	0	0	22-23
	Total	5	0	31	1	6	0	Total Ele-ments :43

* 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	Mar'21	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: 153 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. ➤ Work was completely at standstill due to lockdown of the entire country due to Corona Pandemic. ➤ Now work restarted.	➤ 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	Sep'20	Required for evacuation of power from Anpara-D STPS.	Uttar Pradesh Power Transmission Corporation Limited (UPPTCL)	LGH: 426.149 Ckm TL: 1225 nos. FDN: 1225 nos. TE: 1214 nos. STG: 406.363 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.

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.
4.a	Bajoli HEP-Lahal 220kV D/C line	Oct'16	Nov20	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:- 181(stubs) nos. TE: - 27 nos. STG: - 0Ckm	➤ Work has been started from 26-04-2020 with limited manpower available at site.	➤ All necessary measures has been taken by the HPPTCL as per the guidelines issued by the GoI and GoHP time to time. Also the HPPTCL is pressing Hard under aegis of GoHP to bring back the labour that has left the site during lockdown.
4.b	Lahal-Chamera 400kV D/C line	Oct'16	Sep'21			LGH: - 71 Ckm TL: - 112 nos. STUBS-146 FDN:- 26 Nos TE: - 0 nos. STG: -0 Ckm	➤ Work has been started from 27-04-2020 with limited manpower available at site	➤ All necessary measures has been taken by the HPPTCL as per the guidelines issued by the GoI and GoHP time to time. ➤ Also the HPPTCL is pressing Hard under aegis of GoHP to bring back the labour that has

								left the site during lock-down.
4.c	630 MVA, 400/220/33 kV Lahal (GIS)	Oct'16	June'20		H.P. Power Transmission Corporation Limited (HPPTCL)	LA:100% CW:98% (Minor Civil works are pending) SUPPLY: 100% EE: Electrical Works Completed and Testing has been Done.	➤ Lahal Substation is ready for charging. However, this can be charged only with commissioning of Lahal-Budhil Transmission Line.	➤ Work of Lahal-Budhil Transmission Line has been completed and is to be charged shortly after completing the codal formalities.
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 held up ➤ 2 Nos. towers at loc.34/12 & 35/0 collapsed on 16.04.2019 and need to re-erected. ➤ Termination notice issued to the firm 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	June'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: 15 nos. TE: 14 nos. STG: 2.3Ckm (Erection of MCT-1 is in Progress)	➤ Work has been started from 21-04-2020 with limited manpower available at site.	➤ All necessary measures has been taken by the HPPTCL as per the guidelines issued by the GoI and GoHP time to time. ➤ Also, the HPPTCL is pressing Hard under aegis of GoHP to bring back the labour that has left the site during lock-down.

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	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 Uttaranchal Limited (PTCUL)	LGH: 36 Ckm TL: - nos. FDN: - - 02/50 Foundation U/P – 04 no. locations. TE: - nos. STG: - Ckm	➤Forest proposal submitted on 10.06.2018. ➤Principal Approval of forest proposal (Stage-I clearance) obtained on 09/10/2019. ➤Work Stopped on 22/03/20 due to lockdown of state due to COVID-19. ➤Work re-started on 27/04/20 as per GoU order but there is shortage of manpower due to labour problem.	➤ Final approval of forest case proposal.

8.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) Package2- Nakot-Dhanpur forest line (62 ckm) Package3- Dhanpur-Srinagar line (62 ckm) LGH: 186 Ckm TL: - nos. FDN:- 26/220 Foundation U/P- 23/220 TE: - nos. STG: - Ckm	>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 - Principal Approval of forest proposal (Stage-I clearance) obtained on 13/03/2019. >Work stopped on 22.03.20 due to lockdown of state due to COVID19. >Work re-started on 25/04/20 as per GoU order but there is shortage of manpower due to labour problem.	> Final approval of forest case proposal for Pak-I & II.
9	Srinagar- Kashipur 400 KV D/C line LoT 1(400kV D/C Transmission Line from 400kV S/s Khandukhal to Inter-connection point nearby Kashipur area of Kotdwar Region)	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:83 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.	

10. 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.
10. 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.
11	LILO of one ckt of Bamnauli – Jattikalan at Dwarka-I 400 KV D/C	May'17/ Jun'19 (Rev.)/ Jul'20 (Rev.)	Dec'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: 25 nos. STG: 0 Ckm	➤Forest proposal under FCA & DPTA submitted. Forest approval & tree cutting permission awaited. ➤Work completely at standstill due to lockdown of the entire country due to Corona Pandemic	➤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.

12	Chandigarh - Panchkula (PG) 220KV D/C (incl. 9.7 Kms underground cable).	Feb'19/ Jun'19 (Rev.)/ Apr'20 (Rev.)	Oct'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 hearing postponed and scheduled on 27.07.20. ➤ Work completely at standstill due to lockdown of the entire country due to Corona Pandemic. The Ministry of Home Affairs on 24.03.20 invoked the National Disaster Management act and declared lockdown of the entire country for 40days.	➤ Court case in 04 locations in view of ROW which is hampering progress.
13	Koteshwar – Rishikesh 400 KC D/C (TBCB)	Jun'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 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. ➤ Further, a meeting was taken by Chairperson, CEA on 16.03.2020 wherein the revised route was discussed and it was concluded that the proposed route alignment is the best option.	➤ Forest clearance awaited. ➤ 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. ➤ Project stalled because of unexpected delay in obtaining NOC from IDPL.

Critical Transmission Projects in Eastern Region(ER)

S r. N o.	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.)/ Apr'20 (Rev.)	June'20	Required for Eastern Region system Strengthening	Powergrid Corporation of India Limited (PGCIL)	LGH: 881 Ckm TL: 1219 nos. FDN: 1219 nos. TE: 1219 nos. STG: 881 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. ➤ Work re-started on 14.08.18 with the help of State administration & again stopped from Jan'19 to 07.02.2020. Work restarted on 08.02.20. All work is now completed. CEA inspection is pending due to lock down. Defect rectification work was started, was at standstill due to lockdown of the entire country due to Corona Pandemic. The Ministry of Home Affairs on 24.03.20 invoked the National Disaster Management act and declared lockdown of the entire country for 21 days, extended upto 31.05.2020. ➤ Working permission has been received and rectification work has been started with the help of local administration.	➤ 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 line work completed. CEA inspection pending due to lock-down.
2.a	North Karanpura – Chandwa 400 kV D/C line (TBCB)	Sept'17	Mar'21 9 months after getting forest clearance. This is assuming that the COVID 19 situation will be	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: 62 nos. TE: 49 nos. STG: 0 Ckm	➤ Due to non -availability of NOC (No Objection Certificate) from CCL/MoC, the work was delayed. ➤ CEA had decided that North Karanpura-Chandwa (NK-C) line shall be completed within 14 months from the date of NOC subject to grant 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, DFO Latehar has completed Part II compliance pending receipt of NOC for GM-JJ land; however, DFO Chatra has hold Part II	➤ NKTL has progressed aggressively to achieve FC in both lines but same is delayed for reasons beyond control of NKTL. Support is requested from CEA, NTPC and LTTCs in expediting the forest approval as it is the most critical activity in achieving the compressed execution schedule.

			over by the time NKTL gets the forest clearance.			compliance till receipt of NOC for GM-JJ land. Payment against demand note pertaining to NOC charges as received from Latehar and Chatra division for GM/JJ land has been made on 14.05.2020. However, NOC is still awaited from respective DC offices. As around 336 days have passed and has affected schedule adversely for reasons beyond the control of NKTL.	➤ Accordingly, CEA had called a meeting on 16.03.2020, wherein Additional PCCF, Forest, Govt. of Jharkhand, had indicated timeline of approx. 7-8 weeks for moving the file from DFO level to Regional Office, MOEF&CC for NK-C line. However, for NK-G line the timelines will be committed for Forest Dept. in next meeting. In the said meeting, for DVC issue, it was informed that DVC has conducted detailed field survey and a joint meeting was scheduled on 24th Mar'20 at Kolkata. However, the said meeting got postponed due to lockdown and imposition of 144 as measure to take care of COVI – 19. Furthermore, in the said meeting, NKTL stated that NKTL will be able to complete the NK-C line in 9 months from the date of forest clearance, i.e. if forest clearance is received in Jun'20 then line would be commissioned in Mar'21. Also, NK-G line will be commissioned within 12 months from the date of Forest Approval.
2.b	North Karanpura – Gaya 400 kV D/C line (TBCB)	Sep'19	Mar'21 12 months after getting forest clearance. This is assuming that the COVID 19 situation will be over by the time NKTL gets the forest clearance.	North Karanpura Transco Ltd. (NKTL, a subsidiary of Adani Transmission Ltd.)	As per latest route. LGH: 196 Ckm TL: 288 nos. FDN: 67 nos. TE: 34 nos. STG: 0 Ckm	➤ 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 submitted for acceptance of Nodal Officer. Proposal is yet to be accepted by Nodal Officer and around 306 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. ➤ Pandemic COVID 19 situation had become uncontrollable since last week of Feb'20 and the work is affected at site. Deliveries of materials started getting affected since beginning of Feb'20. Further, the situation will take at least 2 – 3 months, after the situation is brought under control and lockdown is lifted, as the sites have been demobilized and most of the migrant workers have left sites and balance also insisting to leave site since the Govt. has allowed travel for migrant workers and they will return to work only after the situation stabilizes completely. This will call for delay by a much	

							longer period and will also require a lot of extra expenses towards mobilization and de-mobilization. The country wide lockdown continues and presently operating with limited local workers. This has impacted entire project progress including approval of Statutory proposals. FM & CIL notices has been accordingly submitted.	
3.	LILO of Teesta-III – Kishanganj 400kV D/C line at Rangpo.	Jun, 20	Sep'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: 20 nos. TE: 7 nos. STG: 1.5 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 Stage – I approval received on 23.01.19. Working permission received in Mar'19. Slow progress due to delay in tree enumeration & tree felling, head loading on account of hilly terrain, road making to reach the working site & local ROW. > he works at site which was at standstill due to nation-wide lockdown amid coronavirus pandemic has been started again after grant of permission for the construction of transmission line.	> Forest proposal already submitted on 04.11.17. Forest Stage – I approval received on 23.01.19. Work permission received in Mar'19.

4	Sagardighi – Gokarna 400kV D/C line	Jul'15	June'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 (Rev.)	Dec'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: 431 nos. TE: 414 nos. STG: 202 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. ➤ Work was completely at standstill due to lockdown of the entire country due to Corona Pandemic. ➤ Work restarted. Work progress is slow due to lockdown of the entire country due to Corona Pandemic & raining at site.	➤ 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	June'21	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: 328 nos. TE: 312 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. ➤ Presently work in progress since 19.07.2018	➤Work was stalled due to pandemic Covid-19 outbreak. ➤Presently, work started with minimum work gang.
2	Amreli – Kasor 400 kV D/C line.	May'12	Dec'21	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. ➤In pkg-3, there is contractual issue, M/s Easter has approached to NCLT.	➤Work stalled due to pandemic Covid-19 outbreak. ➤Presently, no gang available due to reverse migration of the construction workers. ➤Pkg-3 has been invited on Risk purchase. Last date of opening: 16/06/2020

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	
4.a	Bableshwar-Kudus 400 kV D/C line	Oct'12	Dec'21	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: 455.06Ckm TL: 726 nos. FDN: 578nos. 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: 11 & 11 cases respectively for foundation(F) & erection(E) filed to Collector, Thane, he delegated powers to SDO Kalyan / SDO Bhiwandi , orders received. 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 2 nd 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. >Prohibitory order from Collector Pune, Thane for filed cases. Constraints: Major ROW is nonpayment of compensation after SDO order, Competent Authority decision required.

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'21	Downstream network at Kudus s/s.	Maha-rashtra State Electricity Transmission Company limited (MSET CL)	LGH:31.62 Ckm TL: 46 nos. FDN: 13 nos. TE: 08 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: 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.	➤Forest: Forest Proposal is at APCCF, Nagpur. ➤Presently, labours left the site due to Covid-19.
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'21	Downstream network at Kudus s/s.	Maha-rashtra State Electricity Transmission Company limited (MSETCL)	LGH: 116.76 Ckm TL: 117 nos. FDN: 64 nos. TE: 0 nos. STG: 0 Ckm	Forest Status: The (2.95 Ha/1 tower) Proposal submted on 13.11.2017. Revised Online submission done on 22.01.19 and compliances submitted on 01.02.19. Joint inspection with forest surveyor in jawhar section carried out on 04.02.2019 and Joint inspection with ACF, dahanu in dahanu section carried out on 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. Matter was taken up with SDO Wada, 3 nos combined meetings had carried out with all stakeholders. SDO Wada has instructed to explore the possibility of route diversion with all cost implications to MSETCL. Report is submitted by MSETCL, decision awaited. Facing huge opposition in vasai and Bhiwandi areas where multiple project such as Bullet train, DFCCIL, Transmission lines, Highways.	➤Proposal is presently at ACF,Dahanu. ➤Presently, labours left the site due to Covid-19.

5	Salora TPS - Dharamjai-garh 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)
6	BECL (Padva) - Botad 220kV D/C line	Sep'12	Dec'21	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: 310 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 >Presently work is stalled due to Covid-19 outbreak and lack of construction gang.

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 issued notice to the contractor to short close the tender and to 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. Extended to 04.05.2020, 27.05.2020 & further to 16.06.2020 ➤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. Extended to 04.05.2020, 27.05.2020 & further to 16.06.2020
---	---	--------	--------	---	---	---	--	---

8	1200KV D/C Wardha - Aurangabad line (initially charge at 400KV) Wardha-Aurangabad 400 kV D/C (Q) TL with provision of upgrade the line at 1200 kV later date	Oct'08/ Mar'17 (Rev.)/ Feb'18 (Rev.)/ Dec'18 (Rev.)/ Dec'19 (Rev.)/ Jun'20 (Rev.)	Sep'20	Regional System Strengthening in WR for Mundra (UMPP)	Power-grid Corporation of India Limited (PGCIL)	LGH: 696 Ckm TL: 961 nos. FDN: 961 nos. TE: 961 nos. STG: 657 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 works presently on hold because all labour returned after lockdown 3.0 to their villages.	➤Work is held up because of Covid-19 pandemic and country wide Lockdown. ➤To carry out all balance stringing work, Police protection is required in view of severe RoW. ➤Police protection could not be arranged due to prior engagement of Police personnel in managing situation emerged from COVID-19. ➤Labourers retained at site till lockdown 3.0 by POWERGRID in anticipation of resumption of work, but now they have returned back to their villages.
9.a	Wanakbori TPS-Soja 400 KV D/C line	Mar'15	Dec'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 ➤Severe RoW issue, Matter is pending at High Court
9.b	Soja – Zerda 400 KV D/C line	Mar'16	Dec'20	-Do-	Gujarat Energy Trans. Corp. Limited (GETCO)	LGH: 268 Ckm TL: 398 nos. FDN:390 nos TE: 388 nos. STG: 243.1 Ckm	➤Severe Row Issue	➤Work in Progress ➤Severe RoW issue, Matter is pending at High Court.

10	Khandwa Pool – Dhule 765 kV D/C (TBCB)	Jul'19	June'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. ➤ CEA vide their letter dated 7.04.2020 has requested DC, Dhule to extend support for expediting construction of line on earlier approved route.
----	---	--------	---------	---	--	---	---	--

Critical Transmission Projects in Southern Region(SR)

Sr. No .	Transmis-sion Corridor	Sched-uled Commis-sioning Date	Actual/ Likely Commission-ing Date	Transmission Constraint	Executing Agency	Progress	Reason for delay and brief detail of issues	Action required/Re-medial measures taken
1	Vemagiri – Kamavarapu-kota 400 KV D/C line	May'17	Jun'20	Relieve constraints in 400 KV net-work at Vemagiri (PG).	Transmis-sion Cor-poration of Andhra Pradesh Limited (AP-TRANSC O)	LGH:186.72C Km TL: 268 Nos FDN: 229Nos TE: 202Nos STG: 79.652 CKm	➤Delay due to: 1) Out of 268 Nos tower loca-tions,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 pro-gress.
2	New Neyveli TPP - Ariya-lur (Villupu-ram) 400 KV D/C line	Jul'19/ Jun'20 (Rev.)	Jun'20	ATS of Neyveli New TPP	Powergrid Corpora-tion of In-dia Lim-ited (PGCIL)	LGH : 147 Ckm TL : 213 nos. FDN : 213 nos. TE : 213 nos. STG: 147 Ckm	➤Readiness of the Ariyalur SS (Being constructed by TAN-TRANSCO) critical.	➤In view of Delay in Readiness of Ariyalur SS (TANTRANSCO), Interim arrangement be-ing done to connect this line to one ckt of LILO section of Pugalur-Kali-vandapattu 400kV D/C line to evacuate power from NNTPS.

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 (Kal-pataru)	LGH : 268 Ckm TL : 317 nos. FDN :298 nos. TE : 287 Nos. STG : 204 Ckm	➤ Severe RoW issues in Manipur & Nagaland ➤ Blockage of national highway due to rainfall / landslides resulting in delay in delivery of material at site. ➤ Due to pandemic condition by covid-19 corona virus outbreak & National LockDown, The Physical movement of materials, manpower & documents is severely hindered.	➤ Administration support from following DMs ➤ Imphal, Senapati & Kangpokpi in Manipur ➤ 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 (Kal-pataru)	LGH: 240 Ckm TL: 285 nos. FDN :277 nos. TE: 273 Nos. STG: 186 Ckm	➤ Severe RoW issues in Assam & Nagaland ➤ Non-seasonal rainfall & frequent bands / restrictions at local level resulting in noncontinuity of work on site ➤ Due to pandemic condition by covid-19 corona virus outbreak & National LockDown, The Physical movement of materials, manpower & documents is severely hindered.	➤

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 Infraproj. 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. ➤ CEA vide their letter dated 18.04.2020 asked WKTL to complete the balance work on original approved route.

2	Raigarh - Pugalur 800KV HVDC Bipole link	Nov'19/ May'20 (Rev.)	Jul'20	HVDC Bipole link between Western Region (Raigarh, Chhattisgarh) and Southern Region (Pugalur, Tamil Nadu) - Raigarh-Pugalur 6000 MW HVDC System	Power-grid Corporation of India Limited (PGCIL)	LGH: 3531 Ckm TL: 4773 nos. FDN: 4771 nos. TE: 4771 nos. STG: 3524 Ckm	➤ ROW issues specially in Tamil Nadu now resolved with the help of Distt. Admn.	➤ The Ministry of Home Affairs on 24.03.20 invoked the National Disaster Management act and declared lockdown of the entire country up to 31st May'20. As per MHA guidelines, after getting permission from District administration, work resumed. However progress is slow due to lockdown.
---	--	-----------------------	--------	---	---	--	---	--