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Government of India

Ministry Power

Central Electricity Authority

Power System Project Monitoring Division

New Delhi

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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 Substa-tions	
1	Northern Region	1	0	9	0	2	0	2-6
2	Eastern Region	0	0	4	0	0	0	7-9
3	Western Region	1	0	5	0	3	0	10-15
4	Southern Region	0	0	1	0	0	0	16-16
5	North Eastern Region	0	0	1	0	0	0	17-17
6	Inter-Regional	1	0	0	0	0	0	18-19
	Total	3	0	20	0	5	0	Total Ele-ments :28

* 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: 163 nos. TE: 139 nos. STG: 20 Ckm	➤ Forest clearance (2.7 Ha) awaited. Stage.-I clearance received. Severe ROW in Bhiwani affecting progress. ➤ Work affected as portion executing agency C&C case referred to NCLT. Contract of C&C terminated. Balance work awarded to new agency in Nov'19. ➤ Severe ROW at 17 locations at Mohindergarh end.	➤ 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	Nov'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: 1221 nos. STG: 411.247 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 in 17.09.18, but work is held up due to hindrances created by local sub-contractors of previous contractor M/s Jyoti Structures. ➤ Flood department NOC expected shortly.	➤ Work under progress.

3.a	Bajoli HEP-Lahal 220kV D/C line	Oct'16	Dec'20	Required for evacuation of power from Bajoli HEP (3x60MW) in H.P., which is scheduled for completion by year 2020-21	H.P. Power Transmission Corporation Limited (HPPTCL)	LGH: 36 Ckm TL: - 59 nos. FDN:- 198(stubs) nos. TE: - 29 nos. STG: - 1.92Ckm	➤ Work has started from 26-04-2020 with limited manpower at site due to COVID-19.	➤ All necessary measures have been taken by the HPPTCL as per the guidelines issued by the GoI and GoHP time to time. ➤ Efforts are being made to bring the labour for expediting the works.
3.b	Lahal-Chamera 400kV D/C line	Oct'16	Sep'21			LGH: - 71 Ckm TL: - 112 nos. FDN:- 230(stubs) nos TE: - 0 nos. STG: -0 Ckm	➤ Work has started from 27-04-2020 with limited manpower available at site due to COVID-19.	➤ All necessary measures have been taken by the HPPTCL as per the guidelines issued by the GoI and GoHP time to time. ➤ Efforts are being made to bring the labour for expediting the works.
4	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	➤ 2 Nos. towers at loc.34/12 & 35/0 collapsed on 16.04.2019 and need to be re-erected. ➤ Termination notice issued to the firm on 13.12.2019. Stay against termination granted by NCLT, Hyderabad.	➤ Case is sub-judice and efforts are being made by RVPNL to resolve the issue
5	LILO of one ckt of Nathpa Jhakri – Abdullapur 400 kV D/C at Gumma	Mar'17	Oct'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 TE: 15 nos. STG: 3Ckm	➤ Work has started from 21-04-2020 with limited manpower available at site due to COVID-19.	➤ Line is complete in all respects. ➤ The shutdown of 400kV D/C Nathpa Jhakri – Abdullapur line has been approved for 1 st October to 5 th October. The commissioning of the LILO transmission line is expected to be completed by first week of October 2020.

6.a	Tapovan Vishnugadh - Kunwari Pass (Pipalkoti) 400 KV D/C line	Mar'17	Dec'21	For transfer of power from Tapovan Vishnugad HEP and Vishnugad Pipalkoti HEP up to Srinagar pooling station.	Power Transmission Corporation of Uttaraanchal Limited (PTCUL)	LGH: 36 Ckm TL: - 48 nos. FDN: - 07 nos. TE: - nos. STG: - Ckm	➤ Forest proposal submitted on 10.06.2018. ➤ Approval of forest proposal obtained on 21/07/2020. ➤ 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 COVID 19. ➤ Work progress hampered due to rainy season.	➤ Work under progress.
6.b	Kuwari Pass (Pipalkoti)-Karanprayag – Srinagar 400 KV D/C line (in three package)	Dec'14	Dec'21	-Do-	Power Transmission Corporation of Uttaraanchal 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: - 220nos. FDN: -45nos. TE: - nos. STG: - Ckm	➤ For Pkg -I - Principal Approval of forest proposal (Stage-I clearance) obtained on 11/10/2019 and final approval (Stage-II clearance) obtained on 28/07/2020. ➤ For Pkg -II- Principal Approval of forest proposal (Stage-I clearance) obtained on 11/10/2019 and final approval (Stage-II clearance) obtained on 22/05/2020. ➤ For Pkg -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 COVID 19. ➤ Work progress hampered due to rainy season	➤ Final approval of forest case proposal for Pkg-III is awaited. ➤ Work under progress.

7	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	Uncer- tain	Required for evacuation of power from Singoli Bhat- wari HEP (3x33MW), Tapovan Vishnugad HEP(4x130M W) and Vish- nugad Pipalko- ti HEP(4x111M W) beyond Srinagar.	Power Trans- mission Cor- poration of Uttaranchal Limited (PTCUL)	LGH:83 Ckm TL: - nos. FDN: - nos. TE: - nos. STG: - Ckm	➤ Contract was awarded to M/s Co- bra in Dec'13. However, due to nonperformance contract with M/s Cobra was terminated on 16.11.2017. ➤ Tender invited for construction of line was scrapped on 09.06.2020 after taking approval from the ap- propriate authorities.	➤ Retendering is under in progress.
8	LILO of one ckt of Bamnauli – Jattikalan at Dwarka- I 400 KV D/C	May'17/ Jun'19 (Rev.)/ Jul'20 (Rev.)	Mar'21	This line can take care and reliably meet the existing and future 400 kV and 220 kV load de- mand of Delhi network.	Powergrid Cor- poration of India Limited (PGCIL)	LGH: 17 Ckm TL: 41 nos. FDN: 28 nos. TE: 25 nos. STG: 0 Ckm	➤ Forest proposal under FCA & DPTA submitted. Forest approval and tree cutting permission awaited Forest clearance proposal (FCA) processed by Delhi forest deptt. and forwarded to RMOEF, Luck- now for further necessary action and to put up in next REC ➤ Approvals and work delayed be- cause of Corona Pandemic situa- tion.	➤ 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 com- pleted.
9	Chandigarh - Panch- kula (PG) 220KV D/C (incl. 9.7 Kms un- derground cable).	Feb'19/ Jun'19 (Rev.)/ Apr'20 (Rev.)	Mar'21		Powergrid Cor- poration of India Limited (PGCIL)	LGH: 48 Ckm TL: 56 nos. FDN: 51 nos. TE: 51 nos. STG: 43 Ckm	➤ Work of downstream system (66kV cable) under progress by UT of Chandigarh. ➤ 220 kV Underground cable laying completed. ➤ Work held up at 5 locations due to ROW issues. ➤ A meeting with Addl. CS (Power) held on 18.09.2020 at Chandigarh for resolution of ROW problem.	➤ ROW at 5 locations hampering progress.

10	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 stakeholders along with the consultant M/s E&Y On 10 December 2019. A new route has been proposed. ➤ 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.	➤ 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.
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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.a	North Karanpura – Chandwa 400 kV D/C line (TBCB)	Sept'17	Sep'21	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: 74 nos. TE: 65 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 proposal at Nodal level for recommendation to State Govt.	➤ NKTL has progressed aggressively to achieve FC in both lines but same is delayed. 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.
1.b	North Karanpura – Gaya 400 kV D/C line (TBCB)	Sep'19	May'22		North Karanpura Transco Ltd. (NKTL, a subsidiary of Adani Transmission Ltd.)	As per latest route. LGH: 196 Ckm TL: 288 nos. FDN: 110 nos. TE: 73 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. 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. The proposal accepted by Nodal and currently is at DFO level. ➤ For NK-C line, 132 kV Powerline crossing approval from DVC is on hold as NTPC has asked DVC for diversion of their line for NTPC's coal pipe conveyor belt of external CHP. DVC's Line Diversion proposal technically cleared and joint site inspection held among DVC, NTPC and NKTL on 09.07.2020. Based on site inspection DVC has raised demand note to NTPC on 25.07.2020 for line diversion work. This 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 work is affected at site. Deliveries of materials started get-	➤ 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, which is yet to be received from Forest authority. ➤ Furthermore, in the

							ting 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. 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.	said meeting of 16.03.2020, NKTL conveyed that, NK-C line in 9 months from the date of forest clearance and NK-G line will be commissioned within 12 months from the date of Forest Approval. CEA intervention required to expedite forest clearance for both lines. For DVC's line diversion work consist of two schemes : (A) between tower location 75 & 76 due to pipe conveyor of external CHP of NTPC and (B) between tower location no. 76 & 77 due to crossing of 400kV NK-C line. In this regard, NTPC informed NKTL to provide budgetary offer for Scheme (A) vide letter dated 20.08.20, in response NKTL informed NTPC to provide design details related for line diversion vide letter dated 27.08.2020, details are awaited from NTPC.
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2	LILO of Teesta-III – Kishanganj 400kV D/C line at Rangpo.	Jun, 20	Dec'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: 29 nos. TE: 14 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. ➤ Work affected due to COVID-19. Work has restarted after lockdown. However, progress is slow due to corona pandemic situation.	➤ Work is under progress.
3	Jigmeling – Alipurduar 400KV D/C	Mar'18/ Mar'19 (Rev.)/ Dec'19 (Rev.) / Mar'20 (Rev.)/ May'20 (Rev.)	Mar'21	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: 435 nos. TE: 420 nos. STG: 230 Ckm	➤ Working permission in forest in Assam 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 affected due to COVID-19. Work has restarted after lockdown. However, progress is slow due to corona pandemic situation. ➤ ROW issues in 6 km stretch in West Bengal. ➤ Work in Assam area also affected due to heavy rain	➤ 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.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 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. ➤Prohibitory order from Collector Pune, Thane for filed cases. Constraints: Major ROW is non payment of exorbitant compensation as per SDO order, calculation of compensation as per GR dtd 31.05.2017 is awaited from SDO

1.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.	Maharashtra State Electricity Transmission Company limited (MSETCL)	LGH:31.62Ckm 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 compiled 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.
1.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.	Maharashtra 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 submitted on 13.11.2017. Revised Online submission done on 22.01.19 and compliance 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. SDO Wada has issued order to divert the route where existing mines are located as per technical requirement. Facing huge opposition in Vasai and Bhiwandi areas where multiple project such as Bullet train, DFCCIL, lines, Highways.	➤ Forest: Forest proposal is presently at ACF, Dahanu.

2	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: 191 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, lack of construction gang.
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3	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: 996 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. ➤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 07.07.2020, 05.08.2020, 16.09.2020, 06/10/2020. ➤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 & 07.07.2020, 05.08.2020,16.09.2020, 06/10/2020.
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4	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.)	Jan'21	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: 658 Ckm	➤ Contract terminated 1 out of 2 packages due to unsatisfactory performance. ➤ The package subsequently bifurcated into two parts. 1st part awarded in Dec'14 and 2nd part in Feb'15. ➤ Severe ROW is being encountered. ➤ In Pkg D1, 6 fdn, 11 tower erection & approx. 9 ckm stringing damaged because of thunderstorm & cyclone in Jun'18. The aforesaid work completed in Pkg D1. ➤ In Pkg D2, balance 19.5km stringing in four district requires police protection due to severe ROW problems for which difficulties are being faced in present situation of corona.	➤ Work has been delayed because of Covid-19 pandemic. ➤ To carry out balance stringing work in Pkg D2, Police protection is required in all section because of severe RoW problem. ➤ Police protection could not be arranged due to prior engagement of Police personnel in managing situation emerged from COVID-19. ➤ 02nos. powerline crossing completed by hotline method in Sep'20 and 01 no. is in progress.
5.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 ➤ Work is also impacted due to monsoon season
5.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: 391nos TE: 389 nos. STG: 250.45 Ckm	➤ Severe Row Issue	➤ Work in Progress ➤ Severe RoW issue, Matter is pending at High Court. ➤ Work is also impacted due to monsoon season

6	Khandwa Pool – Dhule 765 kV D/C (TBCB)	Jul'19	Mar'21	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. ➤ Forest clearance proposal for diverted route is pending with Government of Maharashtra. ➤ NOC from Irrigation department, Dhule is awaited.	➤ 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 cannot be allowed and KTL has to re-route the line avoiding submergence area of dam. ➤ Forest clearance proposal for diverted route is pending with Government of Maharashtra. ➤ CEA vide their letter dated 7.04.2020 has requested DC, Dhule to extend support for expediting construction of line on earlier approved route.
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Critical Transmission Projects in Southern Region (SR)

Sr. No .	Transmis-sion Corridor	Sched-uled Commis-sioning Date	Actual/ Like-ly Commission-ing Date	Transmission Constraint	Executing Agency	Progress	Reason for delay and brief detail of issues	Action re-quired/Remedial measures taken
1	Vemagiri – Kamavarapu-kota 400 KV D/C line	May'17	Jun'21	Relieve constraints in 400 KV net-work at Vemagiri (PG).	Transmission Corporation of Andhra Pradesh Limited (AP-TRANSCO)	LGH:186.72 Ckm TL: 268 Nos FDN: 237Nos TE: 202 Nos STG: 91.924 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 tak-en to resolve the issues.	➤ Works under pro-gress.

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	Oct'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 :273.444 Ckm TL: 324 nos. FDN: 324 nos. TE: 323 Nos. STG : 268.844 Ckm	➤Due to pandemic condition by covid-19 corona virus outbreak & National Lockdown, the physical movement of material, manpower & documents is severely hindered. ➤Due to COVID 19 restrictions, KMTL not able to work as per the schedule output there has been restrictions for number of workers & working time ➤Frequent rains halted the works and made the working unsafe and risky	➤Stringing work under progress.

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 the approved route. ➤ In the coal bearing area of WCL two alternative routes (I & II) have 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.)	Sep'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: 4773 nos. TE: 4773 nos. STG: 3531 Ckm	➤ Progress was affected due to severe ROW issue in Tamil Nadu and limited permission with regard to interstate movement of labours/ Quarantine compliance in view of COVID-19.	➤ Line commissioned in Sep'20.
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