



**Monthly Progress report of Cross border/ Inter-Regional/
Inter–State Transmission Schemes
(As on 31.12.2020)
Government of India
Ministry of Power
Central Electricity Authority
New Delhi**

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

PART- I: पारेषण लाइंस TRANSMISSION LINES

Sl. No.	Name of Project/Name of element	Length (CKM)	Executing Agency	Physical Progress				Date of Completion		Remarks / Reason for Delay/Constraints & assistance required.
				Locs. (no.)	Stubs Setting (no.)	Tower Erect. (no.)	Strng. (Ckm)	Original schedule	Anticipated date	
A.	CROSS BORDER									
1	India-Nepal									
	400 kV DC Muzzafarpur (I) - Dhalkebar (N) by CPTC/NEA	173	CPTC/NEA					Dec'19		400 kV Muzaffarpur- Dhalkebar Line was charged and Synchronised at rated voltage on 11-11-2020.
	400 kV DC Gorakhpur (New) (I) - New Butwal (N) (Planned)	240	Planned							1. NITI Aayog approval has been obtained for construction of Indian portion of 400 kV D/C Gorakhpur - Butwal Transmission line in 50:50 JV between POWERGRID and NEA. 2. POWERGRID Board of Directors has approved the Share Holders Agreement. 3. Letter has been written to NEA to take necessary approval from Govt. of India for Investment in this project.
2	India-Bhutan									
	400KV D/C Jigmeling - Alipurduar line (Q) (india Side)	326	PGCIL	466	457	448	268	Jan'18	Mar'21	Working permission in forest in Assam received in Feb'19. Alternate arrangements made for evacuation of power (contingency through Punatsangchu ATS). Work has also been affected due to COVID-19 pandemic. Progress is slow due to heavy rain in Assam area. 3.7 kms stringing work badly affected due to severe ROW in West Bengal Kooch Bihar District.
3	India-Bangladesh									

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	400 kV DC Surajmaninagar (I) - North Comilla (B) by PGCIL / BPDB	54	PGCIL					Jul'21		PROJECT DROPPED
	400 kV DC Baharampura (I) - Bheramara (B)-2nd link by PGCIL / BPDB	172	PGCIL	247	247	247	172	Feb'20	May'20	Work completed. Both circuit charged upto Indian portion on 07.05.20. Commissioning matching with Bangladesh side readiness.
1.0 MULTI REGIONAL SYSTEMS (IR Lines*)										
1	North East / Northern Western Interconnector -I Project	5103	PGCIL	6563	6310	6078	4519	Mar'22	Mar'22	
	Part-A : North East - Northern/ Western Interconnector -I	3697		4668	4668	4668	3697	Sep'16	Sep'16	Part- A, Completed.
	+/- 800KV HVDC Biswanath Chariyali - Agra Bi-pole line*	3506		4369	4369	4369	3506		Oct'15	Line completed & Commissioned in Oct'15 alongwith Pole-I. Pole-II commissioned in Sep'16.
	400KV Balipara - Biswanath Chariyali line	114		165	165	165	114		Sep'15	Line completed in Sep'15 & commissioned on 01.10.15.
	LILO of Ranganadi - Balipara 400KV D/C line at Biswanath Chariyali (Pooling Point)	52		77	77	77	52		Oct'15	Line commissioned on 30.10.15.
	132KV D/C Biswanath Chariyali - Biswanath Chariyali (AEGCL) line	25		57	57	57	25		Sep'15	Line completed in Sep'15 & commissioned on 01.10.15.

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	Part-B : Transmission System for immediate evacuation of Power from Kameng HEP	723		986	986	986	723	Mar'18	Mar'18	Part- B, Completed.
	400KV D/C Kameng - Balipara line	114		151	151	151	114		Mar'18	Line commissioned in Mar'18.
	400KV D/C Balipara - Bongaigaon line (Quad)	609		835	835	835	609		Oct'14	Line completed in Oct'14 & commissioned on 02.11.14.
	Part-C : Transmission System for immediate evacuation of Power from Lower Subhansiri HEP	683		909	656	424	99	Mar'22	Mar'22	Part- C, Completion matching with Lower Subhansiri (Generation sch. uncertain).
	400KV D/C Lower Subhansiri - Biswanath Chariyali line -I	335		444	329	228	64		Mar'22	Initially work was stalled on a/c of local disturbance/ agitation against big dams. Contract was short closed as generation was not coming. Now work for generation expected to start with completion schedule of May'23. Balance work of line awarded in Dec'20.
	400KV D/C Lower Subhansiri - Biswanath Chariyali line -II	348		465	327	196	35		Mar'22	Initially work was stalled on a/c of local disturbance/ agitation against big dams. Contract was short closed as generation was not coming. Now work for generation expected to start with completion schedule of May'23. Balance work of line awarded in Dec'20.

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2	Transmission System Strengthening in Indian System for Transfer of Power from Mangdechhu Hydroelectric Proj, in BHUTAN.	326	PGCIL	466	457	448	268	Mar'19/ Dec'19/ Mar'20/ May'20	Mar'21	
	400KV D/C Jigmeling - Alipurduar line (Q) (India Side)*	326		466	457	448	268		Mar'21	Working permission in forest in Assam received in Feb'19. Alternate arrangements made for evacuation of power (contingency through Punatsangchu ATS). Work has also been affected due to COVID-19 pandemic. Progress is slow due to heavy rain in Assam area. 3.7 kms stringing work badly affected due to severe ROW in West Bengal Kooch Bihar District.
3	HVDC Bipole link between Western Region (Raigarh, Chhattisgarh) and Southern Region (Pugalur, TM) - North Trichur (Kerala) - Scheme-I : Raigarh-Pugalur 6000 MW HVDC System	3531	PGCIL	4773	4773	4773	3531	Nov'19/ May'20	Mar'21	
	+/- 800KV Raigarh (HVDC Stn.) - Pugalur (HVDC Stn.) HVDC Bipole link*	3531		4773	4773	4773	3531		Sep'20	Line alongwith Pole-I of Bipole-I commissioned in Sep'20.

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2.0	<u>NORTHERN REGION</u>									
4	Transmission System associated with Tehri Pump Storage Plant (PSP)	15	PGCIL	46	46	46	15	Sep'19/ Dec'20	Jan'21	
	400KV S/C Tehri Gen. - Tehri Pooling Station (Q)	13		38	38	38	13		Jan'21	This line is linked with Tehri PSP which is delayed.
	Charging of Tehri Pooling - Meerut line 1 & 2 at 765 KV (Earlier Charged at 400 KV)	2		8	8	8	2		Jun'20	Circuit-I charged in Apr'20. Circuit-II charged in Jun'20.
5	Creation of 400/220KV S/Stn. in NCT of Delhi during 12th Plan Period (Part-A)	137	PGCIL	130	107	104	93	Jun'19/ Jul'20	Jun'21	
	LILO of both ckt of Bawana - Mandola 400KV D/C line at Maharaniabagh (Multi Ckt tower with twin/HTLS Cond.)	120		89	79	79	93		Jun'21	Forest proposal under DPTA & FCA submitted. Forest clearance proposal (FCA) Stage-I issued in Oct'20. Land provided by DDA for CA is under litigation. Working permission yet to be received.
	LILO of one ckt of Bamnauli - Jattikalan 400KV D/C line at Dwarka-I (with twin/HTLS Cond.)	17		41	28	25			Jun'21	Forest proposal under DPTA & FCA submitted. Forest clearance proposal (FCA) Stage-I issued in Dec'20. Land provided by DDA for CA is under litigation. Working permission yet to be received.
6	Northern Region System Strengthening Scheme - XXXV	122	PGCIL	181	169	152	60	Aug'18	Mar'21	

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	400KV D/C Mohindergarh - Bhiwani line	122		181	169	152	60		Mar'21	Executing agency has undergone NCLT and now contract terminated. Balance work awarded in Nov'19. 12 nos. locations are under ROW. District administration help required to resolve ROW.
7	Establishment of 220/22KV GIS at UT Chandigarh along with 220KV D/C line from Chandigarh GIS to 400/220KV Panchkula (PG) Sub station.	48	PGCIL	56	53	51	43	Feb'19/ Jun'19/ Apr'20	Mar'21	
	220KV D/C UT Chandigarh S/S - Panchkula (PG) S/S line (incl. 9.7 Kms underground cable).	48		56	53	51	43		Mar'21	Work of downstream system (66 KV Cable) under progress by UT Chandigarh. 220 KV Underground cable laying completed. Work held up at 5 locations due to ROW issues. DM, SAS NAGAR issued orders u/s 16 of Indian telegraph act for removal of ROW on 09.11.2020. High Court stayed works on 16.11.2020. Next hearing on 13.01.2021.
8	System Strengthening Scheme in Northern Region - XXXVII	45.4	PGCIL	115	110	106	38	Dec'19/ Jun'20	Mar'21	

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	LILO of both ckt of 400KV Dhauliganga - Bareilly (PG) line at Jauljivi	5.4		13	13	13	4		Mar'21	Stage-I forest clearance received on 31.10.19. Working permission received on 23.12.19. All works completed except stringing at tapping point which shall be completed matching with 220 KV LILO arrangement of Dhauliganga - Bareilly at Pithoragarh.
	Diversion of Dhauliganga-Bareilly 400KV D/C line (operated at 220KV) at Bareilly end from Bareilly (UP) to Bareilly (PG) line	16		27	27	27	15		Mar'21	Stage-I & Stage-II forest clearance received on 22.01.2020 & 12.06.2020 respectively. All works completed except stringing at tapping point which shall be completed matching with 220 KV LILO arrangement of Dhauliganga - Bareilly at Pithoragarh.
	Disconnection of 220KV LILO arrangement of Dhauliganga - Bareilly at Pithoragarh and connecting it to Jauljivi S/Stn. at 220KV level	24		75	70	66	19		Mar'21	Stage-I forest clearance received on 31.10.19. Working permission received on 23.12.19. 5 locs. affected due to pending Civil Aviation clearance. Revised proposal was online submitted to Airport Authority of India, New Delhi. Recently, AAI has issued NOC with restricted height of 1559 m. As the required top elevation of the tower is more than this height, appeal under shielding clause has been filed. Appellate committee meeting held on 17.12.20, minutes awaited.

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9	Transmission System for Solar Energy Zones in Rajasthan	782	PGCIL	1073	1026	960	443	Dec'20	Mar'21	
	LILO of both circuits of 765 KV D/C Ajmer-Bikaner line at Bhadla-II PS	527		722	722	701	336		Mar'21	Work has also been affected due to COVID-19 pandemic. Work is under progress.
	400 KV D/C Bhadla-II PS-Bhadla (PG) line (Twin HTLS)	97		136	108	93	33		Mar'21	Work has also been affected due to COVID-19 pandemic. Work is under progress.
	LILO of both circuits of 765 KV D/C (op. at 400 KV) Fatehgarh (TBCB)-Bhadla (PG) at Fatehgarh-II PS	158		215	196	166	74		Mar'21	Work has also been affected due to COVID-19 pandemic. Work is under progress.
3.0	<u>WESTERN REGION</u>									
10	Transmission System Associated with Mundra Ultra Mega Power Proj.	3639	PGCIL	4927	4927	4927	3622	Dec'18/ Dec'19/ Jun'20	Jan'21	
	Part-A - Tr. System of Mundra (UMPP)									
	400KV D/C Mundra - Limbdi line (Triple snowbird)	628		863	863	863	628		Feb'12	Line commissioned in Feb'12.
	400KV D/C Mundra - Bachchau line (Triple snowbird)	198		285	285	285	198		Sep'11	Line commissioned in Sep'11.
	400KV D/C Bachchau - Ranchodpura line (Triple snowbird)	566		755	755	755	566		Sep'11	Line commissioned in Sep'11.
	400KV D/C Mundra - Jetpur line (Triple snowbird)	672		918	918	918	672		Dec'12	Part of line (314 Ckm) commissioned in Aug'12 & balance (358 Ckm) commissioned in Dec'12.

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	Part-B - Regional System Strengthening in WR for Mundra (UMPP)									
	400KV D/C Gandhar - Navsari line	204		288	288	288	204		July'12	Line commissioned in July'12.
	400KV D/C Navsari - Boisar line (Multi-ckt locs. 109 nos. with Vapi-Kudus line & 100 nos. with A'bad-Boisar line have been included in 400KV D/C Navsari-Boisar line).	373		567	567	567	373		Dec'16	Contingency arrangement to connect Navsari-Boisar with Vapi-Navi Mumbai line by bypassing forest area, to form Vapi - Navsari line (212 Ckm, up to common point) commissioned in Mar'13. Balance portion (161 Ckm) commissioned in Dec'16.
	400KV D/C Wardha - Aurangabad line (up-gradation 1200KV S/C)	696		961	961	961	679		Jan'21	Severe ROW, which is being resolved through the support of State Government.
	400KV D/C Aurangabad (PG) - Aurangabad (MSETCL) line (Q) (59Km) and Shifting of 400KV Akola -Aurangabad (MSETCL) to Aurangabad (PG) (Twin) line (51Km)	220		145	145	145	220		Apr'14	Akola-Aurangabad line (PG) twin commissioned in Jan'14 (102 Ckm) Aurangabad-Aurangabad (Q) portion commissioned in Apr'14.
	LILO of both Ckt of Kawas - Navsari 200KV D/C at Navsari	82		145	145	145	82		July'12	Commissioned in Jul'12.
11	Transmission System for Ultra Mega Solar Power Park at Banaskantha (Radhanesda) Gujarat.	132	PGCIL	183	183	183	132	Sep'18/ Sep'19/ Mar'20/ Jun'20	Sep'20	
	400KV D/C Banaskantha PS - Banaskantha (PG) line	132		183	183	183	132		Sep'20	Line charged on 30th August'20. Generation at Radhanesda Solar UMPP is delayed and expected to commission by Apr'21 progressively.

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12	Western Region System Strengthening Scheme-XXII	37	PGCIL	75	15	3		Mar'23	Mar'23	
	220 kV D/C Navsari (PG) – Bhestan line	37		75	15	3		Dec'20	Jun'21	Delay in finalization of land compensation by local administration which in turn rise of severe ROW at almost all locations. Local and State administration approached for intervening and resolving the problem. Forest proposal: 1.26 Ha. proposal is pending for clearance at DCF, Surat.
4.0	<u>SOUTHERN REGION</u>									
13	Transmission System for Ultra mega Solar Park at Tumkur (Pavagada) Karnataka - Phase- II (Part.-A)	412	PGCIL	565	565	565	412	Jan'19/ Sep'19/ Apr'20	Apr'20	
	400KV D/C Hiriur - Mysore line	412		565	565	565	412		Apr'20	1st Ckt charged in Mar'20 and 2nd ckt in Apr'20.
14	HVDC Bipole link between Western Region (Raigarh, Chhattisgarh) and Southern Region (Pugalur, TM) - North Trichur (Kerala) - Scheme-III : Pugalur - Trichur 2000 MW VSC based HVDC System	289.4	PGCIL	408	408	408	289	Apr'20	Feb'21	
	320KV HVDC Pugalur - North Trichur (Kerala) line	288		404	404	404	288		Jan'21	Work completed. Testing alongwith Monopoles is under progress.
	LILO of 400KV D/C North Trichur - Cochin line at North Trichur HVDC Station (Q)	1.4		4	4	4	1		Dec'20	Work completed. Testing alongwith Monopoles is under progress.

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15	Transmission System for evacuation of power from Neyveli Lignite Corp. Ltd. TS-1 (Replacement) (NNTPS) in Neyveli, Tamil Nadu.	154	PGCIL	223	223	223	154	Jul'19/ Jun'20	Mar'21	
	400KV D/C NNTPS Sw. Yd. - Ariyalur (Villupuram) line	147		213	213	213	147		Jul'20	Line charged in Jul'20 by connecting to one ckt of LILO section of Pugalur - Kalivandapattu 400 kV D/C line near Ariyalur S/s (as bays by TANTRANCO on Deposit work Basis are expected by Mar'21) .
	LILO of existing Neyveli TS-II - Pondycherry 400KV S/C at NNTPS Gen. Yd. (2KMS D/C & 2 Kms M/C)	7		10	10	10	7		Jun'18	Line charged in Jun'18 by cross jumpering at dead end tower near NLC switchyard as associated bays were not ready (under scope of NLC).
16	Transmission System for Ultra mega Solar Park at Tumkur (Pavagada) Karnataka - Phase- II (Part.-B)	312	PGCIL	428	428	428	285	Feb'19/ Dec'19/ May'20	Jan'21	
	400KV D/C Tumkur (Pavagada) PS - Devanahally (KPTCL) line - (Q) (139.30 D/C & 13.20 M/C)	312		428	428	428	285		Jan'21	Progress affected due to ROW issue especially in Bangalore area and COVID-19 pandemic.
17	HVDC Bipole link between Western Region (Raigarh, Chhattisgarh) and Southern Region (Pugalur, TM) - North Trichur (Kerala) - Scheme-II : AC System Strengthening at Pugalur end.	1196	PGCIL	1696	1652	1615	897	Feb'20/ Sep'20	Mar'21	
	400KV D/C Pugalur HVDC Station - Pugalur line (Q)	100		138	138	138	100		Sep'20	Line commissioned in Sep'20.

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	400KV D/C Pugalur HVDC Station - Arasur line (Q)	118		162	162	162	118		Sep'20	Line commissioned in Sep'20.
	400KV D/C Pugalur HVDC Station - Thiruvalam line (Q)	779		1109	1086	1063	561		Mar'21	Progress affected due to severe ROW issue in Tamil Nadu and COVID-19 pandemic.
	400KV D/C Pugalur HVDC Station -Edayarpalayam (TANTRANSCO) line (Q)	105		150	132	118	37		Feb'21	Progress affected due to severe ROW issue in Tamil Nadu and COVID-19 pandemic.
	400KV D/C Edayarpalayam (TANTRANSCO)-Udumulpet line (Q)	94		137	134	134	81		Feb'21	Progress affected due to severe ROW issue in Tamil Nadu and COVID-19 pandemic.
5.0 <u>EASTERN REGION</u>										
18	Eastern Region Strengthening Scheme-V	963	PGCIL	1344	1344	1344	963	Dec'18/ Aug'19/ Apr'20	Jul'20	
	400KV D/C Rajarhat - Purnea line (Triple Snowbird)	881		1219	1219	1219	881		Jul'20	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). Farakka - Gokarna portion of 400KV D/C Rajarhat - Purnea line (236 Ckm) including both LILO's at Farakka & Gokarna commissioned in Mar'17. Balance portion of line is commissioned on 12.07.20.

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	LILO of 400KV D/C Rajarhat - Purnea line at Farakka.	40		58	58	58	40		Mar'17	Line commissioned in Mar'17.
	LILO of 400KV D/C Rajarhat - Purnea line at Gokarna.	34		51	51	51	34		Mar'17	Line commissioned in Mar'17.
	LILO of Subhashgram -Jeerat 400KV S/C line at Rajarhat	8		16	16	16	8		Feb'19	Commissioned in Feb'19.
19	Eastern Region Strengthening Scheme-XV	204	PGCIL	291	291	291	203.9	Apr'18/ Jan'20/ Apr'20	Jan'21	
	400KV D/C Farakka - Baharampur Line (Twin HTLS)	164		229	229	229	164		Sep'18	Line completed in Aug'18 & commissioned in Sep'18.
	LILO at 400KV S/C Farakka - Jeerat line at Sagardighi	38		54	54	54	38		Jul'18	LILO line completed in Jul'18 & commissioned in Aug'18.
	LILO at 400KV S/C Sagardighi - Subhasgram line at Jeerat	2		8	8	8	1.9		Jan'21	Schedule extended due to corridor constraint at Jeerat S/S for bays. Work has also been affected due to COVID-19 pandemic.
	Removal of the existing LILO of Farakka - Jeerat S/C line at Baharampur								Aug'18	Completed in Aug'18.
20	Eastern Region Strengthening Scheme-XVII (Part-B)	63	PGCIL				10	Jun'19/ Sep'20	Mar'21	
	Re-conductoring of Maithon RB - Maithon 400KV D/C line	63					10		Mar'21	Shutdown received from 25.11.2020. Work restarted. Work has also been affected due to COVID-19 pandemic.

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21	400KV D/C Baharampur (PG) - Bheramera (B'desh) line (Hnd Ckt) - India portion	172	PGCIL	247	247	247	172	Feb'20/ Apr'20	May'20	Work completed. Both circuit charged upto Indian portion on 07.05.20. Commissioning matching with Bangladesh side readiness.
22	Eastern Region Strengthening Scheme - XX	222	PGCIL				141	May'20	Feb'21	Compln. Sch.- 30 months from IA.
	Re-conductoring of Rangpo - New Siliguri 400KV D/C line (The existing Twin ACSR Moose line to be re-conducted with Twin HTLS conductor)	220					139		Feb'21	Work has also been affected due COVID-19 pandemic. The S/Down of both the circuits returned on 24.04.2020 in line with instruction of POSOCO. Now, S/Down availed from 01.11.20. Work is under progress.
	Re-conductoring of New Purnea - Purnea 220KV D/C line (The existing New Purnea (400/220KV) - Purnea (220/132KV) 220KV D/C line needs to be re-conducted with Single HTLS conductor)Twin ACSR Moose line to be re-conducted with Twin HTLS conductor)	2					2		Dec'19	Re-conductoring work completed & charged.

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23	TS for transfer of Power from Gen. Proj. in Sikkim to NR/WR (Part-B1)	24	PGCIL	35	32	21	2	Jun'20	Feb'21	Compln. Sch.- 30 months from IA.
	LILO of IIInd Ckt of Teesta III - Kishanganj 400KV D/C line at Rangpo (Q)-Twin HTLS cond.	24		35	32	21	2		Feb'21	Award placed in Dec'17. Major portion of line is in forest (40 Ha- 12 km.), Forest stage-I approval received in Jan'19. Working permission received in Mar'19. Delay in tree enumeration & tree felling. Slow progress due to undulated hilly terrain, head loading of tower members due to non-availability of road, progressively making of approach road to reach the working site & local ROW. Work has also been affected due to COVID-19 pandemic.
24	Eastern Region Strengthening Scheme - XXIII	84.34	PGCIL	127	25	1		Jun'21	Jun'21	Compln. Sch.- 11 months from IA.
	LILO of Kishanganj (POWERGRID) – Darbhanga (DMTCL) 400 kV D/C (Quad) line at Saharsa (New)	78		114	15				Jun'21	Severe RoW being faced in the Saharsa distt.
	Bypassing of Farakka – Kahalgaon (ckt-3 & ckt-4) and Farakka – Durgapur 400 kV D/C lines of POWERGRID so as to form Kahalgaon – Durgapur 400 kV D/C line	6.34		13	10	1			Feb'21	Severe RoW being faced in the Farakka distt.

Sl. No.	Name of Project/Name of element	Length (CKM)	Executing Agency	Physical Progress				Date of Completion		Remarks / Reason for Delay/Constraints & assistance required.
				Locs. (no.)	Stubs Setting (no.)	Tower Erect. (no.)	Strng. (Ckm)	Original schedule	Anticipat ed date	
	<u>NORTH EASTERN REGION</u>									
25	PG works associated with North Eastern Region Strengthening Scheme -V	46	PGCIL	77		50		Apr'20	Feb'21	
	Additional 400KV D/C line at Palatana S/stn. & Surajmaninagar S/stn. end for termination of Palatana - Surajmaninagar 400KV D/C line	24		43	31				Feb'21	Palatana end: Foundation work in progress. Work has been affected due to COVID-19 pandemic. Further, due to change in location of substation under TBCB, line (Length) scope of work at Surajmaninagar end changed from 2.0 Km to 12 Km. Therefore, work at Surajmaninagar end is re-awarded in Aug'20. Foundation work under progress.
	Additional 400KV D/C line at P.K.Bari S/stn. & Silchar S/stn. end for termination of P.K. Bari - Silchar 400KV D/C line	22		34	19	9			Feb'21	Silchar end: Foundation work in progress. Work has been affected due to COVID-19 pandemic. Further, due to change in location of substation under TBCB, line (Length) scope of work changed from 2.0 Km to 12 Km. Therefore, work is delayed. Foundation work under progress.
26	PG works associated with North Eastern Region Strengthening Scheme - VI	2	PGCIL	7				May'20	Feb'21	

Sl. No.	Name of Project/Name of element	Length (CKM)	Executing Agency	Physical Progress				Date of Completion		Remarks / Reason for Delay/Constraints & assistance required.
				Locs. (no.)	Stubs Setting (no.)	Tower Erect. (no.)	Strng. (Ckm)	Original schedule	Anticipated date	
	Disconnection of Mariani-Misa 400KV line (presently operated at 220KV) from mariani and termination of the same at 400KV Bus at both New Mariani and Misa S/stn. and operation of the resultant New Mariani (PG) Misa line at 400KV (Both Ckts)	2		7					Feb'21	Foundation work started. Work has also been affected due to COVID-19 pandemic and rain at site.

Sl. No.	Name of Project/Name of element	Length (CKM)	Executing Agency	Physical Progress				Date of Completion		Remarks / Reason for Delay/Constraints & assistance required.
				Locs. (no.)	Stubs Setting (no.)	Tower Erect. (no.)	Strng. (Ckm)	Original schedule	Anticipated date	
	TBCB Lines									
1	Eastern Region strengthening Scheme - XVIII	1313	PGCIL	1771	1635	1581	1041	Jul'20	Feb'21	
	765KV D/C Ranchi (New) - Medinipur line	538		718	718	718	538		Jan'21	Line antitheft charged from Ranchi end. However, commissioning matching with readiness of Medinipur S/S (ant. by Jan'21).
	765KV D/C Medinipur - Jeerat (New) line	338		461	459	450	288		Jan'21	Severe ROW being faced. Work has been affected due to COVID-19 pandemic. Work also affected due to cyclone AMPHAN in May'20.
	400KV D/C Jeerat (New) - Subhashgram line	214		312	178	133	16		Feb'21	Severe ROW being faced. Work has been affected due to COVID-19 pandemic. Work also affected due to cyclone AMPHAN in May'20.
	400KV D/C Jeerat (New) - Jeerat (WBSETCL) line	51		81	81	81	51		Jan'21	Physical work of the line completed. Commissioning matching with the completion of Jeerat substation.
	LILO of 400KV D/C both ckt of Chandithala - Kharagpur at Medinipur	148		199	199	199	148		Jan'21	Physical work of the line completed. However, final connection to the Charged 400kV D/C Chandithala-Kharagpur WBSETCL line shall be done after availing shutdown and readiness of the Medinipur substation.
	LILO of 400KV S/C Jeerat (WBSETCL) - Subhashgram at Rajarhat (PG)	24								Line deleted from scope.

Sl. No.	Name of Project/Name of element	Length (CKM)	Executing Agency	Physical Progress				Date of Completion		Remarks / Reason for Delay/Constraints & assistance required.
				Locs. (no.)	Stubs Setting (no.)	Tower Erect. (no.)	Strng. (Ckm)	Original schedule	Anticipated date	
2	Eastern Region Strengthening Scheme - XXI	487.14	PGCIL	671	634	622	379.7	Mar'21	Mar'21	Compln. Sch:- 38 month from date of SPV (SPV acquired on 12.01.18).
	400KV D/C Darbhanga - Sitamarhi (New) line (Triple Snowbird)	160		221	221	219	124	Jan'21	Jan'21	Progress is getting severely affected due to heavy rain & flood. Work has also been affected due to COVID-19 pandemic.
	400KV D/C Sitamarhi (New) - Motihari line (Triple Snowbird)	171.34		230	230	230	171.34	Jan'21	Jan'21	Physical work of the line completed, Commissioning matching with associated substations.
	LILO of both ckt of Nabinagar-II - Gaya 400KV D/C (Q) line at Chandauti	6		9	9	9	6	Mar'21	Mar'21	LILO of Nabinagar - Gaya 400 KV Line at Chandauti charged at rated voltage in Jun'20 through cross Jumpering as contingency measure. Power flow approx 150 MW in each circuit. However, commissioning matching with readiness of Chandauti S/S, expected by Mar'21.
	LILO of both ckt of Kishanganj - Patna 400KV D/C (Q) line at Saharsa	149.8		211	174	164	78.36	Mar'21	Mar'21	Progress is getting severely affected due to water logging. Work has also been affected due to COVID-19 pandemic.

Sl. No.	Name of Project/Name of element	Length (CKM)	Executing Agency	Physical Progress				Date of Completion		Remarks / Reason for Delay/Constraints & assistance required.
				Locs. (no.)	Stubs Setting (no.)	Tower Erect. (no.)	Strng. (Ckm)	Original schedule	Anticipated date	
3	WR - NR Interconnector	379	PGCIL	522	469	426	202.32	Jul'21	Jul'21	
	765KV D/C Vindhyachal - Varansai line	379		522	469	426	202.32		Jul'21	Stage -I forest clearance of UP portion obtained on 14.09.20. Working permission for Mirzapur division received on 29.10.20. Wildlife proposal cleared by NBWL. NBWL in their clearance advised to cross river using 765 kV U/G Cable. Technology is not available world wide. Matter was taken up with SBWL/ NBWL and clarification in this regard issued on 17th June'20. In MP portion, tree cutting by forest deptt. affected foundation works and tree felling in stringing stretches is in progress. Tree felling is being done by Forest deptt progressively. Work has also been affected due to COVID-19 pandemic. Works restarted in other than Forest and Wild life area.
4	Transmission System associated with LTA application from Rajasthan SEZ (Part -A)	268	PGCIL	359	358	349	213	Dec'20	Mar'21	SPV handed over to POWERGRID on 03.10.2019.
	Ajmer (PG) – Phagi 765kV D/c line	268		359	358	349	213		Mar'21	Work affected due to COVID-19 pandemic.
5	Transmission System associated with LTA application from Rajasthan SEZ (Part -B)	374	PGCIL	504	484	421	231	Dec'20	May'21	SPV handed over to POWERGRID on 16.10.2019.
	Fatehgarh-2 –Bhadla -2 765kV D/c line	374		504	484	421	231		May'21	Work affected due to COVID-19 pandemic.

Sl. No.	Name of Project/Name of element	Length (CKM)	Executing Agency	Physical Progress				Date of Completion		Remarks / Reason for Delay/Constraints & assistance required.
				Locs. (no.)	Stubs Setting (no.)	Tower Erect. (no.)	Strng. (Ckm)	Original schedule	Anticipated date	
6	Transmission System associated with LTA application from Rajasthan SEZ (Part -C)	448	PGCIL	601	560	491	182	Dec'20	May'21	SPV handed over to POWERGRID on 29.08.2019.
	Khetri- Jhatikara 765kV D/c line	292		394	360	313	95		May'21	Work affected due to COVID-19 pandemic.
	Khetri – Sikar (PG) 400kV D/c line AL59 (Twin)	156		207	200	178	87		May'21	Work affected due to COVID-19 pandemic.
7	Transmission System for providing connectivity to RE Projects at Bhuj-II (2000 MW) in Gujarat	212	PGCIL	284	107	58	5.6	Dec'20	May'21	SPV transferred in Oct'19.
	Reconfiguration of Bhuj PS – Lakadia PS 765kV D/c line so as to establish Bhuj-II –Lakadia 765 kV D/C line as well as Bhuj-Bhuj-II 765kV D/C line	212		284	107	58	5.6		May'21	Work has been affected due to COVID-19 pandemic. Severe RoW because of delay in finalization of compensation order by local administration. Progress also affected because of very heavy rain fall in Gujarat in Aug/Sep'20. By Election in Nakhtrana Tehsil also affected the work and delay in land compensation order by local administration.

PART- II: सब स्टेशन SUBSTATION

Sl. No.	Name of the Sub -Station	MVA Ratio	Executing Agency	Status of land	Status of Construction			Date of Completion		Remarks / Reason for Delay/Constraints & assistance required.
					Civil works compln. (%)	Str. & Eqpt. Received (%)	Str. & Eqpt. Erection (%)	Original schedule	Anticipate d date	
	MULTI REGIONAL SYSTEMS									
1	North East / Northern Western Interconnector -I Project		PGCIL					Mar'22	Mar'22	
	Part-A : North East - Northern/ Western Interconnector -I							Sep'16	Sep'16	Part- A, Completed.
	400/132KV Biswanath Chariyali Pooling Station	2x200		Acquired	100%	100%	100%		Jan'16	Sub station along with ICT-II commissioned in Oct'15 & ICT -I in Jan'16.
	HVDC Rectifire Module at Biswanath Chariyali (3000MW)			Acquired	100%	100%	100%		Sep'16	Pole-I test commissioned in Oct'15. Pole -II commissioned in Sep'16.
	HVDC Rectifire Module at Agra (3000MW)			Acquired	100%	100%	100%		Sep'16	Pole-I test commissioned in Oct'15. Pole -II commissioned in Sep'16.
	Aug. of 400KV Agra S/Stn.	1x315		Available	100%	100%	100%		Jan'16	Commissioned in Jan'16.
	Extn. of 400KV Balipara S/Stn.			Available	100%	100%	100%		Sep'15	Commissioned.
	Extn. of 132KV Biswanath Chariyali S/Stn.			Available	100%	100%	100%		Sep'15	Commissioned.
	Part-B : Transmission System for immediate evacuation of Power from Kameng HEP							Mar'18	Mar'18	Part- B, Completed.
	2nd ICT of 400/220KV Misa S/Stn.	1x315		Available	100%	100%	100%		Jun'12	Commissioned in Jun'12.
	Extn. of 400KV Balipara S/Stn.			Available	100%	100%	100%		Mar'18	Bongaigaon bay commissioned in Oct'14. Balance in Mar'18.
	Extn. of 400KV Bongaigaon S/Stn.			Available	100%	100%	100%		Oct'14	Commissioned
	Part-C : Transmission System for immediate evacuation of Power from Lower Subhansiri HEP							Mar'22	Mar'22	Gen. Sch. uncertain.
	Extn. 400KV at Biswanath Chariyali Pooling stn.			Available	95%	95%	95%		Mar'22	Commissioning matching with line (line work stalled due to agitation against big dam, Gen. sch. for Ist 250 MW unit by May'23 as per NHPC).
2	Transmission System Strengthening in Indian System for Transfer of Power from Mangdechhu Hydroelectric Proj, in BHUTAN		PGCIL					Mar'19/ Dec'19/ Mar'20/ May'20	Mar'21	

Sl. No.	Name of the Sub -Station	MVA Ratio	Executing Agency	Status of land	Status of Construction			Date of Completion		Remarks / Reason for Delay/Constraints & assistance required.
					Civil works compln. (%)	Str. & Eqpt. Received (%)	Str. & Eqpt. Erection (%)	Original schedule	Anticipated date	
	Extn at 400KV bays at Alipurduar S/stn.			Available	99%	99%	99%		Mar'21	Bay completed. Commissioning matching with line.
3	HVDC Bipole link between Western Region (Raigarh, Chhattisgarh) and Southern Region (Pugalur, TM) - North Trichur (Kerala) - Scheme-I : Raigarh-Pugalur 6000 MW HVDC System		PGCIL					Nov'19/ May'20	Mar'21	
	800KV HVDC Raigarh Station with 6000 MW HVDC Terminal			Acquired	98%	95%	92%		Mar'21	Pole-I (1500 MW) of Bipole-I commissioned in Sep'20. Progress affected due to COVID-19 pandemic. Balance poles are expected to be commissioned from Jan'21 to Mar'21.
	800KV HVDC Pugalur Station with 6000 MW HVDC Terminal			Acquired	98%	95%	92%		Mar'21	Pole-I (1500 MW) of Bipole-I commissioned in Sep'20. Progress affected due to COVID-19 pandemic. Balance poles are expected to be commissioned from Jan'21 to Mar'21.
4	POWERGRID works associated with additional 400 KV feed to Goa		PGCIL					Sep'21	Sep'21	Compln Sch. : 30-36 months from IA.
	400 KV Extn. at Mapusa sub station (02 nos. 400 KV line bays for termination of Xeldem-Mapusa 400 KV D/C (Q) line (under TBCB))			Available	87%	78%		Mar'21	Mar'21	Awarded in Sep'18. Civil work and supply is under progress. Work has been affected due to COVID-19 pandemic.
	400 KV Extn. at Narendra (New) (Kudgi-GIS) sub station (1x80 MVAR, 420 KV LR along with 500 ohms NGR for Narendra (New)-Xeldem 400 KV (Q) line formed after LILO of one ckt of Narendra (Existing)-Narendra (New) 400 KV D/C (Q) line at Xeldem)			Available	75%	65%	5%		Sep'21	Work has been affected due to COVID-19 pandemic.
5	POWERGRID works associated with New WR-NR 765 KV Inter-Regional Corridor		PGCIL					May'21	Mar'21	

Sl. No.	Name of the Sub -Station	MVA Ratio	Executing Agency	Status of land	Status of Construction			Date of Completion		Remarks / Reason for Delay/Constraints & assistance required.
					Civil works compln. (%)	Str. & Eqpt. Received (%)	Str. & Eqpt. Erection (%)	Original schedule	Anticipated date	
	2 nos. 765 KV line bays at Vindhyachal Pooling Station (associated with 765 kV Varanasi-Vindhyanchal line under TBCB route).			Available	95%	95%	85%		Mar'21	Awarded in Sep'18. Tower & equipment foundation and Erection completed. Work has also been affected due to COVID-19 pandemic.
	2 nos. 765 KV line bays along with 2x330 MVAR LR (non-switchable) at Varanasi GIS (associated with 765 kV Varanasi-Vindhyanchal line under TBCB route).			Available	85%	80%	40%		Mar'21	Work affected due to COVID-19 pandemic.
6	System Strengthening Schemes at Tuticorin-II (erstwhile Tirunelveli GIS) and Bhuj PS		PGCIL					Jun'20	Mar'21	Compln Sch. : 15-19 months from IA.
	Part-A: Augmentation at 400/230 KV Tuticorin-II (GIS) S/S (500 MVA 400/220 KV transformer & associated bays (GIS))	500		Available	98%	96%	90%	Feb'20	Jan'21	
	Part-B: Augmentation at 765/400/220 KV Bhuj S/S (2x1500 MVA 765/400 KV transformer & 16 nos. bays (AIS:11, GIS:5) 6x500 MVA 400/220 KV transformer)	6x500 & 2x1500			95%	85%	75%	Jun'20	Mar'21	2 nos. 500MVA 400/220 kV ICT commissioned in Oct'19. 3rd 400 kV ICT also commissioned in Sep'20. Rest of the ICTs (3 nos. 400 kV and 2 nos. 765 kV ICT banks are expected to commission by Mar'21 progressively. Work has also been affected due to COVID-19 pandemic. Heavy rain fall in Bhuj area of Gujarat in the month of Aug/Sep'20 hampered the works at site and also damage some imported component of GIS material.
	NORTHERN REGION									
7	Transmission System associated with Tehri Pump Storage Plant (PSP)		PGCIL					Sep'19/Dec'20	Jan'21	
	765/400KV Tehri Pooling Station (GIS)	4x800			97%	98%	92%		Jan'21	3 nos. ICT commissioned in Apr'20 and 4th ICT is ready but it will be commissioned with 400 KV S/C Tehri-Koteshwar line expected in Jan'21. Tehri PSP

Sl. No.	Name of the Sub -Station	MVA Ratio	Executing Agency	Status of land	Status of Construction			Date of Completion		Remarks / Reason for Delay/Constraints & assistance required.
					Civil works compln. (%)	Str. & Eqpt. Received (%)	Str. & Eqpt. Erection (%)	Original schedule	Anticipate d date	
										Generation is delayed.
	Extn. at 765/400KV Meerut Sub station	1500		Available	100%	100%	100%		Jun'20	1st 765 kV Line Bay charged in Apr'20. 2nd 765 kV Line Bay & ICT charged in Jun'20.
8	Creation of 400/220KV S/Stn. in NCT of Delhi during 12th Plan Period (Part-A)		PGCIL					Jun'19/ Jul'20	Jun'21	
	Extn. at 400KV bays at Maharanibag S/stn. (in place of 400/220KV Rajghat S/stn. - Anuled)	-		Available	95%	95%	95%		Jun'21	04 nos. GIS bays at Maharanibagh for the LILO of 400 KV D/C Mandola - Bawana line at Maharanibagh are ready for charging but these shall be charged with line. LILO line getting delayed due to forest clearance issue in Delhi.
	400/220KV Dwarka -I Sub station (GIS)	4x500		Acquired	99%	98%	95%		Jun'21	220 KV GIS charged in March'20. 400 kV GIS is ready but charging will be done matching with LILO line getting delayed due to forest clearance issue in Delhi.
9	Establishment of 220/66KV GIS at UT Chandigarh along with 220KV D/C line from Chandigarh GIS to 400/220KV Panchkula (PG) Sub station.		PGCIL					Feb'19/ Jun'19/ Apr'20	Mar'21	
	220/66KV UT Chandigarh (GIS) Sub station	2x160		Acquired	99%	99%	99%		Mar'21	Work of down stream line under progress by UT Chandigarh.
	Extn at 400/220KV Panchkula Sub station	-		Available	100%	100%	100%		Mar'21	Commissioning matching with line, held up due to ROW at 04 +01 (Pile) locations in Punjab.
10	System Strengthening Scheme in Northern Region - XXXVII		PGCIL					Dec'19/ Jun'20	Mar'21	
	400/220KV Jauljivi (GIS) Sub station	7x105		Acquired	90%	95%	90%		Mar'21	Supply of Transformer & Reactor was affected due to poor road conditions. Road widening/ strengthening work completed by NHAI in Jul'20. Accordingly, transportation of reactors & transformer have been completed progressively in Oct'20.

Sl. No.	Name of the Sub -Station	MVA Ratio	Executing Agency	Status of land	Status of Construction			Date of Completion		Remarks / Reason for Delay/Constraints & assistance required.
					Civil works compln. (%)	Str. & Eqpt. Received (%)	Str. & Eqpt. Erection (%)	Original schedule	Anticipate d date	
										Work has also been affected due to COVID-19 pandemic.
	Extn at 765/400KV Bareilly Sub station	-		Available	95%	100%	95%		Mar'21	Commissioning matching with line.
11	System Strengthening Scheme in Northern Region - XXXVI		PGCIL					Sep'19	Mar'21	
	Extn. at 400/220KV Koteshwar Pooling station	-		Available	50%	22%			Mar'21	400 KV D/C Koteshwar - Rishikesh line under TBCB by M/s Essel Infra for which these bays are being constructed is delayed.
	Extn. at 400/220KV Roorkee Sub station	-		Available	100%	100%	100%		Sep'19	220 KV Bay is ready for commissioning since Dec'18 but downstream Tr. System to be constructed by PTCUL is not available.
12	Implementation of 500 MVAR Thyristor Controlled Reactor at Kurukshetra		PGCIL					Jul'21	Jul'21	Compln. Sch. - 30 months from IA
	500 MVAR Thyristor Controlled Reactor (TCR) at 400 kV Kurukshetra -1 No.				30%				Jul'21	Work has been affected due to COVID-19 pandemic.
13	Northern Region System Strengthening - XL		PGCIL					Dec'20	Mar'21	Compln. Sch. - 22 months from IA. Work has been affected due to COVID-19 pandemic.
	Extn. at 400/220 kV Roorkee	1x500		Available	45%	35%	5%		Mar'21	Work has been affected due to COVID-19 pandemic. Work is under progress.
	Extn. at 400/220 kV Sonapat	1x500		Available	40%	35%	5%		Mar'21	Work has been affected due to COVID-19 pandemic. Work is under progress.
	Extn. at 400/220 kV Fatehpur	1x500		Available	80%	85%	65%		Feb'21	Work has been affected due to COVID-19 pandemic. Work is under progress.
	Extn. at 400/220 kV Saharanpur	1x500		Available	80%	50%	25%		Feb'21	Work has been affected due to COVID-19 pandemic. Work is under progress.
	Extn. at 400/220 kV Bhadla	2x500		Available	85%	60%	50%		Mar'21	Work has been affected due to COVID-19 pandemic. Work is under progress. 1 no. ICT charged in Dec'20.

Sl. No.	Name of the Sub -Station	MVA Ratio	Executing Agency	Status of land	Status of Construction			Date of Completion		Remarks / Reason for Delay/Constraints & assistance required.
					Civil works compln. (%)	Str. & Eqpt. Received (%)	Str. & Eqpt. Erection (%)	Original schedule	Anticipate d date	
	Extn. at 400/220 kV Lucknow (Repl. of 1x315 MVA ICT by 1x500 MVA ICT)	185		Available	82%	80%	70%		Jan'21	ICT replaced & commissioned in Mar'19. Engg. activities for 220 KV bay extn. is under progress. Work has also been affected due to COVID-19 pandemic.
	Extn. at 400/220 kV Allahabad			Available	55%	60%	5%		Mar'21	Work under progress. Work has also been affected due to COVID-19 pandemic.
	Extn. at 400/220 kV Mandola			Available	60%	35%	2%		Mar'21	Work under progress. Work has also been affected due to COVID-19 pandemic.
	Extn. at 400/220 kV Hissar			Available	35%	35%	2%		Mar'21	Work under progress. Work has also been affected due to COVID-19 pandemic.
	Extn. at 400/220 kV Sikar			Available	60%	30%	5%		Mar'21	Work under progress. Work has also been affected due to COVID-19 pandemic.
	Extn. at 400/220 kV Meerut			Available	20%	15%			Mar'21	Work under progress. Work has also been affected due to COVID-19 pandemic.
	Extn. at 400/220 kV Abdullapur			Available	70%	50%	20%		Mar'21	Work under progress. Work has also been affected due to COVID-19 pandemic.
	Extn. at 400/220 kV Gorakhpur (1x315 MVA ICT after replacement at Lucknow to be shifted to Gorakhpur)			Available	90%	90%	80%		Jan'21	400/220 kV, 315 MVA ICT at Gorakhpur charged on 31.07.20. Civil & erection work for 220 kV line bays under progress. Work has been affected due to COVID-19 pandemic.
	Extn. at 400/220 kV Jind			Available	2%				Mar'21	Work under progress. Work has also been affected due to COVID-19 pandemic.
	Extn. at 400/220 kV Fatehabad			Available	55%	30%			Mar'21	Work under progress. Work has also been affected due to COVID-19 pandemic.
	Extn. at 400/220 kV Kishenpur			Available	60%	25%			Mar'21	Work under progress. Work has also been affected due to COVID-19 pandemic.
	Extn. at 400/220 kV Jalandhar			Available	30%	15%			Mar'21	Work under progress. Work has also been affected due to COVID-19 pandemic.
	Extn. at 400/220 kV Amritsar			Available	50%	15%	5%		Mar'21	Work under progress. Work has also been affected due to COVID-19 pandemic.

Sl. No.	Name of the Sub -Station	MVA Ratio	Executing Agency	Status of land	Status of Construction			Date of Completion		Remarks / Reason for Delay/Constraints & assistance required.
					Civil works compln. (%)	Str. & Eqpt. Received (%)	Str. & Eqpt. Erection (%)	Original schedule	Anticipate d date	
	Extn. at 400/220 kV Maharanibagh			Available	2%				Mar'21	Work under progress. Work has also been affected due to COVID-19 pandemic.
	Extn. at 400/220 kV Chamera PS			Available	10%				Mar'21	Work under progress. Work has also been affected due to COVID-19 pandemic.
	Extn. at 400/220 kV Moga			Available	50%				Mar'21	Work under progress. Work has also been affected due to COVID-19 pandemic.
	Extn. at 400/220 kV Patiala			Available	50%				Mar'21	Work under progress. Work has also been affected due to COVID-19 pandemic.
14	Northern Region System Strengthening - XLII		PGCIL					Oct'20	Mar'21	
	Extn. at 400/220 kV Samba (Jatwal) (2 nos. 220 KV line bays for termination of 220 KV D/C Samba (PDD)-Samba (Jatwal) line of J&KPDD)			Available	35%	30%			Mar'21	Work under progress. Work has also been affected due to COVID-19 pandemic.
15	Transmission System for Solar Energy Zones in Rajasthan		PGCIL					Dec'20	Mar'21	
	Establishment of 765/400 KV Bhadla-II PS (1x125 MVA r BR, 2x240 MVA r BR, 2x330 MVA r SLR & 2X240 MVA r SLR alongwith associated bays)	2x1500		Acquired	80%	65%	45%		Mar'21	Work has been affected due to COVID-19 pandemic.
	Establishment of 765/400 KV Fatehgarh-II PS (1x125 MVA r BR & 2x240 MVA r BR alongwith associated bays)	3x1500		Acquired	70%	55%	30%		Mar'21	Work has been affected due to COVID-19 pandemic.
	Extn. of 765/400/220 KV Bhadla (PG) S/S	2x500		Available	70%	45%	25%		Mar'21	Work has been affected due to COVID-19 pandemic.
	Extn. of 765/400 KV Bhiwani (PG) S/S	1x1000		Available	32%	18%	5%		Mar'21	Work has been affected due to COVID-19 pandemic.
16	Scheme to control fault level in Northern Region (Phase-II)		PGCIL					Jun'21	Jun'21	Compln. Sch. - 18 months from IA. Award delayed due to COVID-19.

Sl. No.	Name of the Sub -Station	MVA Ratio	Executing Agency	Status of land	Status of Construction			Date of Completion		Remarks / Reason for Delay/Constraints & assistance required.
					Civil works compln. (%)	Str. & Eqpt. Received (%)	Str. & Eqpt. Erection (%)	Original schedule	Anticipated date	
	Extn. of 400 kV Kanpur Substation			Available					Jun'21	Engineering activities under progress.
	Extn. of 400 kV Bhiwani Substation			Available					Jun'21	Engineering activities under progress.
	Extn. of 400 kV Hissar Substation			Available					Jun'21	Engineering activities under progress.
17	Northern Region System Strengthening - XLI		PGCIL					May'21	May'21	
	Extn. at 400/220 kV Chamera Pooling Station (2 nos. 4000 KV line bays (GIS))				10%				May'21	Work under progress. Work has also been affected due to COVID-19 pandemic.
18	Transmission System for Providing connectivity to RE projects at Bikaner (PG), Fatehgarh-II & Bhadla-II		PGCIL					Jan'21	Mar'21	Compln. Sch. - 12 months from IA. Work has been affected due to COVID-19 pandemic.
	Extension 765/400/220 kV Fatehgarh-II PS (Jaisalmer)	1x1500 & 5x500		Available	22%	5%			Mar'21	
	Extension 765/400/220kV Bhadla-II PS (Jodhpur)	1x1500 & 5x500		Available	20%	5%			Mar'21	
	Extension 400/220 kV Bikaner (PG) Substation	2x500		Available	25%	5%			Mar'21	
19	Additional 1x1500 MVA, 400/220 kV (4th) transformer at Amritsar (Balachak) PG SS under ISTS		PGCIL					Aug'20	Nov'20	Compln. Sch. - 5 months from IA
	Extension 400/220 kV Amritsar (Balachak) PG Substation	1x500		Available	100%	100%	100%		Nov'20	Commissioned.
20	Construction of 2 nos. of 400 kV Hybrid/ GIS Line bays at Varanasi (PG) Substation		PGCIL					Jan'21	Mar'21	
	Extn. at 765/400/220 KV Varanasi Substation (400 kV Line bays (Hybrid/ GIS): 2 nos.)				15%				Mar'21	

Sl. No.	Name of the Sub -Station	MVA Ratio	Executing Agency	Status of land	Status of Construction			Date of Completion		Remarks / Reason for Delay/Constraints & assistance required.
					Civil works compln. (%)	Str. & Eqpt. Received (%)	Str. & Eqpt. Erection (%)	Original schedule	Anticipated date	
21	Transmission scheme for controlling high loading and high short circuit level at Moga substation		PGCIL					Apr'21	Apr'21	
	Rearrangement of feeders at Moga 400 KV bus and splitting of same into two sections (Controlling high Sckt/loading at Moga S/S)			Available	10%				Apr'21	
22	2 nos. of 220 kV Line Bays at Saharanpur (PG)		PGCIL					Nov'21	Nov'21	
	400/220kV Saharanpur (PG) S/S (Extn.)			Available					Nov'21	
	WESTERN REGION									
23	Transmission System Associated with Mundra Ultra Mega Power Proj.		PGCIL					Dec'18/ Dec'19/ Jun'20	Jan'21	
	400/220 KV Bachchau S/Stn.	2x315		Acquired	100%	100%	100%		Sep'11	Sub station commissioned with ICT's in Sep'11.
	400/220 KV Navsari GIS S/Stn.	2x315		Acquired	100%	100%	100%		July'12	Sub station commissioned with both ICT's in July'12.
	Extn. 400KV at Boisar S/Stn.			Available	100%	100%	100%		Dec'16	Commissioned in Dec'16 alongwith line.
	765/400KV Wardha S/Stn.	3x1500		Acquired	100%	100%	100%		Mar'12	Sub station commissioned alongwith I&II ICT's in Feb'12 & IIIrd ICT in Mar'12
	400/220 KV Aurangabad S/Stn. & Extn. at 400KV Wardha & Aurangabad (MSETCL) S/stn.	2x315		Acquired	100%	100%	98%		Jan'21	Sub station commisisoned alongwith both ICT's in Jan'14. Commissioning shall be matched with 400 kV Wardha Aurangabad line {upgradable to 1200 kV line}.
	Extn. 765KV at Seoni & Wardha S/stn.			Available	100%	100%	100%		May'12	Bays for Ist Seoni - Wardha line commissioned in Feb'12. & IInd Seoni-Wardha 765KV S/C line bay commissioned in May'12.
	Extn. 400KV at Limbdi S/stn.			Available	100%	100%	100%		Nov'11	Charged in Nov'11.
	Extn. 400KV at Ranchorpura S/stn.			Available	100%	100%	100%		Sep'11	Charged in Sep'11.

Sl. No.	Name of the Sub -Station	MVA Ratio	Executing Agency	Status of land	Status of Construction			Date of Completion		Remarks / Reason for Delay/Constraints & assistance required.
					Civil works compln. (%)	Str. & Eqpt. Received (%)	Str. & Eqpt. Erection (%)	Original schedule	Anticipate d date	
	Extn. 400KV Jetpur S/stn.			Available	100%	100%	100%		Aug'12	Commissioned in Aug'12.
	40% Fixed Series Compensation on Wardha - Aurangabad 400KV D/C line.			Available	99%	99%	97%		Jan'21	Commissioning shall be matched with 400 kV Wardha-Aurangabad line {upgradable to 1200 kV line}.
24	Transmission System for Ultra Mega Solar Power Park at Banaskantha (Radhanesda) Gujarat.		PGCIL					Sep'18/ Sep'19/ Mar'20/ Jun'20	Sep'20	Compln Sch. : 16 months from IA.
	Extn. at 765/400KV Banaskantha Sub station - 2 nos. 400 kV line bays	-		Available	100%	100%	100%		Sep'20	Bay Charged on 30th August'20. Generation at Radhanesda Solar UMPP is delayed and expected to commission by Apr'21 progressively.
25	Supplementary Transmission System for Ultra Mega Solar Power Park at Banaskantha (Radhanesda) Gujarat.		PGCIL					Jun'19/ Sep'19/ Mar'20/ Jun'20	Sep'20	Compln Sch. : 18 months from IA.
	400/220KV Banaskantha (Radhanesda) Pooling station GIS	2x500		Acquired	100%	100%	100%		Sep'20	400 kV Bays charged on 30th August'20. ICTs charged on 1st and 2nd Sep'20 respectively. Generation at Radhanesda Solar UMPP is delayed and expected to commission by Apr'21 progressively.
26	Additional system for Power evacuation from Generation projects pooled at Raigarh (Tamnar) Pool		PGCIL					May'21	May'21	
	2 nos. 765 KV line bays at Raigarh (Tamnar) PG PS (for termination of Dharamjaygarh PS section B-Raigarh (Tamnar) PS 765 KV D/C line)			Available	85%	60%	40%		May'21	Work has been affected due to COVID-19 pandemic.
	2 nos. 765 KV line bays at 765 KV Dharamjaygarh (PG) PS (for termination of Dharamjaygarh PS section B-Raigarh (Tamnar) PS 765 KV D/C line)			Available	85%	60%	50%		May'21	Work has been affected due to COVID-19 pandemic.

Sl. No.	Name of the Sub -Station	MVA Ratio	Executing Agency	Status of land	Status of Construction			Date of Completion		Remarks / Reason for Delay/Constraints & assistance required.
					Civil works compln. (%)	Str. & Eqpt. Received (%)	Str. & Eqpt. Erection (%)	Original schedule	Anticipate d date	
27	Western Region System Strengthening - XX		PGCIL					Aug'21	Aug'21	Work has been affected due to COVID-19 pandemic.
	Part-A: Provision of Bus Reactors at High Voltage Nodes in WR									
	Extn. at 400/220 KV Khandwa S/S (1x125 MVar BR alongwith 400 KV bay)			Available	30%	15%			Aug'21	
	Extn. at 765/400 KV Solapur S/S (1x240 MVar BR alongwith 765 KV bay)			Available	40%	40%			Aug'21	
	Extn. at 400/220 KV Rajgarh S/S (1x125 MVar BR alongwith 400 KV bay)			Available	50%	50%			Aug'21	
	Extn. at 765/400 KV Wardha S/S (1x330 MVar BR alongwith 765 KV bay)			Available	10%	40%			Aug'21	Heavy rainfall is affecting the work.
	Extn. at 765/400 KV Aurangabad S/S (1x240 MVar BR alongwith 765 KV bay)			Available	30%	40%			Aug'21	Work has been affected due to unprecedented heavy rains in the month of Aug'20.
	Part-B: Provision of Bus Reactor at Champa Pool: Split section - Part A									
	Extn. at 400/220 KV Champa PS (1x125 MVar BR alongwith 400 KV bay)				90%	60%			Aug'21	Work has been affected due to unprecedented heavy rains in the month of Aug'20.
	Part-C: Augmentation of transformation capacity in WR									
	Extn. at 400/220 KV Jabalpur S/S	1x500		Available	25%	20%			Aug'21	Work has been affected due to COVID-19 pandemic and unprecedented heavy rains in the month of Aug'20/ Sep'20. Work is now expected to pickup the pace with improved situation from Corona and Rains.
	Extn. at 400/220 KV Itarsi S/S	1x500		Available	25%	15%			Aug'21	Work has been affected due to COVID-19 pandemic. Work is now expected to pickup the pace with improved situation from Corona and Rains.
28	Scheme to control fault level in at Wardha substation		PGCIL					Mar'22	Mar'22	

Sl. No.	Name of the Sub -Station	MVA Ratio	Executing Agency	Status of land	Status of Construction			Date of Completion		Remarks / Reason for Delay/Constraints & assistance required.
					Civil works compln. (%)	Str. & Eqpt. Received (%)	Str. & Eqpt. Erection (%)	Original schedule	Anticipated date	
	400 kV Wardha Substation extension (400kV Bus Splitting at Wardha SS)			Available					Mar'22	Award placed in May'20. Engineering activity is under progress.
29	Western Region System Strengthening Scheme-XXII		PGCIL					Mar'23	Mar'23	
	400 kV Boisar Substation Extension (Conversion of 80 MVAR fixed line reactor at Boisar end of Aurangabad – Boisar 400 kV D/c line to switchable line reactor alongwith NGR bypass arrangement)			Available					Mar'23	Award placed in Aug'20.
30	Extension works at POWERGRID substations for Interconnection of RE Projects		PGCIL					Jan'21	Jun'21	
	Part-A: PG works associated with Western Region Strengthening Scheme - 21									
	Conversion of existing 2x63 MVAR line reactors at Bhachau end of Bhachau - EPGL 400 KV D/C line to switchable line reactors along with 02 nos. 400 kV line reactor bays			Available					May'21	Award placed in Aug'20.
	Part-B: Extension works at Bhuj PS for interconnection of RE Projects									
	Extn. at 765/400/220 kV Bhuj PS			Available	25%	5%			Jun'21	Award placed in Sep'20.
28	Western Region Strengthening Scheme - XIX WRSS(XIX)									Project is associated with TBCB Project. SPV Handed over to M/s Sterlite Grid 5 Ltd on 24th June'20. Completion Schedule for Bay Ext'n at Banaskantha and Padghe is 28 months and 42 months from Effective Date of Transfer of SPV to M/s Sterlite Grid 5 Ltd.
	Additional 400kV outlets from Banaskantha 765/400kV S/s - 2 nos. of 400kV line bays at Banaskantha(PG)			Available					Oct'22	[for termination of LILO of second circuit of Zerda – Ranchodpura 400 kV D/c line at Banaskantha (PG) PS

Sl. No.	Name of the Sub -Station	MVA Ratio	Executing Agency	Status of land	Status of Construction			Date of Completion		Remarks / Reason for Delay/Constraints & assistance required.
					Civil works compln. (%)	Str. & Eqpt. Received (%)	Str. & Eqpt. Erection (%)	Original schedule	Anticipated date	
	Additional ISTS feed to Navi Mumbai 400/220kV substation of POWERGRID - 2 nos. of 400kV line bays at Padghe (PG)			Available					Dec'23	[for termination of Padghe (PG) – Kharghar 400 kV D/c (quad) line]
29	Transmission system for evacuation of power from RE P projects in wind energy zones in Osmanabad area of Maharashtra									
	Conversion of 50MVAR Fixed line reactor on each circuit of Parli (PG) - Pune (GIS) 400kV D/c line at Parli (PG) end into to Switchable line reactor			Available					Dec'21	Project is associated with TBCB Project for which schedule is likely to be extended.
	SOUTHERN REGION									
31	Transmission System for Ultra mega Solar Park at Tumkur (Pavagada) Karnataka - Phase- II (Part.-A)		PGCIL					Jan'19/ Sep'19/ Apr'20	Apr'20	
	Extn at 400/220KV Tumkur (Pavagada) Pooling Station & 400 KV 125 MVAR BR	2x500		Available	100%	100%	100%		Jun'19	1 ICT charged in Mar'19 & 2nd ICT charged in Apr'19. 125 MVAR BR charged in Jun'19.
	Extn at 400/220KV Tumkur (Vasantnarsapur) Sub Station	1x500		Available	100%	100%	100%		Jun'19	Charged.
	Extn at 400/220KV Mysore Substation (2 nos. 400 KV Line bays with 2x80 MVAR Reactor)			Available	100%	100%	100%		Apr'20	1st Bay along with Reactor commissioned in Mar'20 and balance in Apr'20.
32	HVDC Bipole link between Western Region (Raigarh, Chhattisgarh) and Southern Region (Pugalur, TM) - North Trichur (Kerala) - Scheme-III : Pugalur - Trichur 2000 MW VSC based HVDC System		PGCIL					Apr'20	Feb'21	Compln Sch. : 38 months from IA. (ADB Funded).
	+/- 320KV VSC based HVDC Terminal at Pugalur (2000MW)	2000MW		Acquired	97%	95%	92%		Feb'21	Progress affected due to COVID-19 pandemic. Testing under progress.
	+/- 320KV VSC based HVDC Terminal at North Trichur (2000MW)	2000MW & 630		Acquired	96%	95%	92%		Feb'21	Progress affected due to COVID-19 pandemic. Testing under progress.
33	Transmission System for evacuation of power from Neyveli Lignite Corp. Ltd. TS-1 (Replacement) (NNTPS) in Neyveli, Tamil Nadu.		PGCIL					Jul'19/ Jun'20	Mar'21	Compln. Sch. - 13-26 months from IA or matching with Generation.

Sl. No.	Name of the Sub -Station	MVA Ratio	Executing Agency	Status of land	Status of Construction			Date of Completion		Remarks / Reason for Delay/Constraints & assistance required.
					Civil works compln. (%)	Str. & Eqpt. Received (%)	Str. & Eqpt. Erection (%)	Original schedule	Anticipated date	
	Extn at 400KV Ariyalur (Villupuram) S/stn. (TANTRANSCO) scope (2 nos. 400 KV line bays)			Available					Mar'21	Deposit work by TANTRANSCO. In view of Delay in Readiness of Ariyalur SS (TANTRANSCO), interim arrangement has been done to connect associated line to one ckt of LILO section of Pugalur-Kalivandapattu 400 kV D/C line to evacuate power from NNTPS. Readiness of bays expected by Mar'21.
34	Transmission System for Ultra mega Solar Park at Tumkur (Pavagada) Karnataka - Phase- II (Part.-B)		PGCIL					Feb'19/ Dec'19/ May'20	Jan'21	Compln. Sch. - 21 months from IA . ADB Funded
	Extn at 400/220KV Tumkur (Pavagada) Pooling Station (2 nos. 400 KV line bays)			Available	100%	99%	99%		Jan'21	Commissioning matching with line.
	Extn at 400/220KV Devanahally (KPTCL) Sub Station (2 nos. 400 KV line bays)			Available					Jan'21	Deposit work by KPTCL. Commissioning matching with line.
35	HVDC Bipole link between Western Region (Raigarh, Chhattisgarh) and Southern Region (Pugalur, TM) - North Trichur (Kerala) - Scheme-II : AC System Strengthening at Pugalur end.		PGCIL					Feb'20/ Sep'20	Mar'21	
	Extn at 400KV Pugalur GIS (8 nos. 400 KV line bays)			Available	99%	99%	98%		Mar'21	4 nos. line bays commissioned in Sep'20. Commissioning of balance bays matching with associated lines.
	Extn at 400KV Pugalur (Existing) Sub Station (2 nos. 400 KV line bays)			Available	100%	100%	100%		Sep'20	Commissioned in Sep'20.
	Extn at 400KV Arasur Sub Station (2 nos. 400 KV line bays)			Available	100%	100%	100%		Sep'20	Commissioned in Sep'20.
	Extn at 400KV Thiruvalem Sub Station (2 nos. 400 KV line bays)			Available	99%	98%	98%		Mar'21	Commissioning matching with line.
	Extn at 400KV Udumulpet Sub Station (2 nos. 400 KV line bays)			Available	99%	98%	98%		Feb'21	Commissioning matching with line.
	Extn at 400KV Edayarpalayam (TANTRANSCO) Sub Station (2 nos. 400 KV line bays)			Available					Feb'21	Deposit work basis.

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					Civil works compln. (%)	Str. & Eqpt. Received (%)	Str. & Eqpt. Erection (%)	Original schedule	Anticipated date	
36	Southern Region System Strengthening - XXVI		PGCIL					Mar'21	Jan'21	Progress affected due to Quarantine compliance/ Containment Zone in view of COVID-19 and Continuous heavy rain in Kerala.
	Part-A: Extn. at 400/220 KV Cochin S/S (East) (2 nos. 220 KV line bays for termination of Cochin East (Pallikkara)-Ahuva 220 KV D/C line, to be implemented by KSEBL)			Available	98%	96%	95%	Dec'20	Jan'21	Charging of the line matching with associated state line.
	Part-B: Extn. at 400/220 KV Kozhikode S/S (2 nos. 400 KV line bays for termination of North Trissur (Madakkathara)-Kozhikode (Areekode) 400 KV (Q) D/C line, to be implemented by KSEBL)			Available	98%	96%	95%	Mar'21	Jan'21	Charging of the line matching with associated state line.
37	Southern Region System Strengthening - XXV		PGCIL					Jul'21	Jul'21	
	Augmentation of Transformation Capacity at 400/200 KV Gajuwaka S/S	500		Available	90%	85%			Jul'21	
	Extn. at 400/220 KV Hosur S/S (1x125 MVar, 420 KV BR alongwith associated bays)			Available	75%	50%	5%		Jul'21	
	Extn. at 400/220 KV Madhugiri S/S (1x125 MVar, 420 KV BR alongwith associated bays)			Available	90%	70%	10%		Jul'21	
	Extn. at 400/220 KV Dharampuri S/S (1x125 MVar, 420 KV BR alongwith associated bays)			Available	90%	70%	10%		Jul'21	
	Extn. at 400/220 KV Hiriya S/S (1x125 MVar, 420 KV BR alongwith associated bays)			Available	75%	55%	5%		Jul'21	
	Extn. at 400/220 KV Pugalur S/S (1x125 MVar, 420 KV BR alongwith associated bays)			Available	60%	40%			Jul'21	
	Extn. at 400/220 KV Pugalur HVDC (GIS) S/S (2x125 MVar, 420 KV BR alongwith associated bays)			Available	40%	25%			Jul'21	

Sl. No.	Name of the Sub -Station	MVA Ratio	Executing Agency	Status of land	Status of Construction			Date of Completion		Remarks / Reason for Delay/Constraints & assistance required.
					Civil works compln. (%)	Str. & Eqpt. Received (%)	Str. & Eqpt. Erection (%)	Original schedule	Anticipated date	
38	Transmission system for controlling high Short Circuit Current level at 400 kV Thiruvalem S/S		PGCIL					Aug'21	Aug'21	
	Extn. at Thiruvalem Substation i. Installation of 12 Ω , 420 kV fault limiting bus series reactors between: • Bus section-A and bus section-B • Bus Section-B and bus section-C • 4 nos. bays for 2 nos. series bus reactors ii. Opening of the one of the bus (other than on which fault limiting bus series reactors are being installed) between the above mentioned bus sections through suitable arrangement. iii. Bypass of Kolar-Thiruvalem and Thiruvalem-Sriperumbudur 400 kV S/c line to form Kolar – Sriperumbudur 400 kV S/c direct line.				15%	10%			Aug'21	Award placed on 30.06.20. Engg. & civil works in progress.
39	Transmission system for controlling High Loading of Nellore (PG) – Nellore PS 400 kV (Q) D/C Line		PGCIL					Jan'21	Mar'21	
	Extn. at Nellore (PG) Substation (i. Shifting of 125 MVAR and 80 MVAR line reactors at Nellore (PG) from Nellore PS-Nellore(PG) 400kV D/c line to Nellore(PG) – Sriperumbudur 400kV D/c line (with suitable arrangement). ii. Bypassing Nellore PS – Nellore (PG) 400 kV D/c (Quad) line and Nellore (PG) – Thiruvalem 400kV D/c (Quad) line at Nellore (PG) for making direct Nellore PS – Thiruvalem 400kV D/c (Quad) line)				25%	70%	10%		Mar'21	Award placed on 30.06.20. Engg. & civil works in progress. Progress affected due to COVID-19 pandemic.
	EASTERN REGION									
40	Eastern Region Strengthening Scheme-V		PGCIL					Dec'18/ Aug'19/ Apr'20	Jul'20	

Sl. No.	Name of the Sub -Station	MVA Ratio	Executing Agency	Status of land	Status of Construction			Date of Completion		Remarks / Reason for Delay/Constraints & assistance required.
					Civil works compln. (%)	Str. & Eqpt. Received (%)	Str. & Eqpt. Erection (%)	Original schedule	Anticipated date	
	400/220KV Rajarhat S/Stn. (GIS)	2x500		Acquired	100%	100%	100%		Jul'20	Land acquired in Feb'14. work resumed in Oct/Nov'17 but again stalled from 01.12.17 due to protest by locals. Work re-started on 14.08.18 with the help of local administration but severe ROW in line affected completion. 1 ICT charged in Feb'19. ICT-II commissioned in Aug'19. Line bays also commissioned on 12.07.20 with commissioning of Rajarhat-Purnea line.
	Extn at 400KV Purnea S/stn. (2x80MVAR L/R)			Available	100%	100%	100%		Oct'18	Commissioned in Oct'18
	Extn at 400KV Farakka S/stn.			Available	100%	100%	100%		Mar'17	Commissioned in Mar'17.
	Extn at 400KV Gokarna S/stn.			Available	100%	100%	100%		Mar'17	Commissioned in Mar'17.
41	Eastern Region Strengthening Scheme-XII		PGCIL					Jun'19/ Dec'19/ Jun'20	Feb'21	
	Installation of 125 MVAR Bus Reactor at Baripada (1 no.) & Maithon (1 no.) with GIS bays. Conversion of 50 MVAR LR, presently installed at Jeerat end of Baharampur - Jeerat 400KV line as BR in parallel with existing BR at Jeerat.			Available	100%	100%	100%		Nov'16	Conversion of Line reactor at Jeerat commissioned in Aug'16, Baripada commissioned in Oct'16 & Maithon in Nov'16.
	Addition of 500MVA ICT at 400/220KV Baripada S/stn.	500		Available	100%	100%	100%		Sep'16	Commissioned in Sep'16.
	Repl. 2 nos. ICT's, 315MVA to 500MVA at 400/220KV Purnea S/stn.	370		Available	100%	100%	100%		Sep'16	ICT- I commissioned in Jul'15 & ICT-II in Sep'16
	Repl. 2 nos. ICT's, 315MVA to 500MVA at 400/220KV Pusali S/stn.	370		Available	100%	100%	100%		Jan'20	ICT- I commissioned in Mar'16. ICT-II commissioned in Jan'20.

Sl. No.	Name of the Sub -Station	MVA Ratio	Executing Agency	Status of land	Status of Construction			Date of Completion		Remarks / Reason for Delay/Constraints & assistance required.
					Civil works compln. (%)	Str. & Eqpt. Received (%)	Str. & Eqpt. Erection (%)	Original schedule	Anticipated date	
	Repl. 2 nos. ICT's, 315MVA to 500MVA at 400/220KV Patna S/stn. & 3rd new ICT 500MVA Installation	870		Available	100%	100%	100%		Feb'19	ICT-I commissioned in Sep'16. 3rd ICT added as per MoP order no; 15/2/2017 (Part-I)- Trans. dated 10.01.18. 3rd ICT commissioned in Feb'18. ICT -II charged in Feb'19
	Shifting of 1x315MVA 400/220KV ICT from any suitable location (after replacement by 1x500MVA & install it at 400/220KV Jamshedpur S/S. as 3rd ICT alongwith associated bays.	315		Available	100%	100%	100%		Dec'17	Commissioned in Dec'17.
	Shifting of 1x315MVA 400/220KV ICT from any suitable location (after replacement by 1x500MVA & install it at 400/220KV Farakka S/S. as 2nd ICT alongwith associated bays.	-		Available	85%	75%	60%		Feb'21	Shifted from Pusauli. ICT was held up at bridge near Farakka. Permission to cross bridge refused by MoST, W.B. ICT was delivered to Durgapur and commissioned at Durgapur. Now transporation via different route & commissioning at Farakka taken up. Awarded to CGL in Apr'19.
	Repl. 1 no. ICT's, 100MVA to160MVA at 220/132KV Siliguri S/stn.	60		Available	100%	100%	100%		Jan'16	Commissioned in Jan'16.
	Repl. 1 no. ICT's, 100MVA to160MVA at 220/132KV Purnea S/stn.	60		Available	100%	100%	100%		Feb'16	Commissioned in Feb'16.
	Repl. 1 no. ICT's, 100MVA to160MVA at 220/132KV Birpara S/stn.	60		Available	100%	100%	100%		Dec'15	Commissioned in Dec'15.
	Modification of 132KV Bus arrangement at 220/132 KV Siliguri & Purnea S/stn. with GIS bays.	-		Available	100%	100%	100%		Mar'18	Siliguri commissioned in Nov'16 & balance commissioned in Mar'18.
	02nos. 500MVA, 765/400KV Spare Transformers in ER.	-							Sep'18	01 ICT received at Angul received in Sep'17 & 2nd ICT commissioned at Jharsuguda in Sep'18.
	Const. of 4 nos 220KV GIS line bays at Kishanganj S/stn.	-		Available	100%	100%	100%		Oct'16	Commissioned in Oct'16.
42	Eastern Region Strengthening Scheme-XV		PGCIL					Apr'18/ Jan'20/ Apr'20	Jan'21	Agreement between WBSETCL & PGCIL signed on 22.08.17.
	Extn at 400/220KV at Farakka S/stn.			Available	100%	100%	100%		Aug'18	Bay commissioned in Aug'18.
	Extn at 400/220KV at Sagardighi S/stn.			Available	100%	100%	100%		Aug'18	Bay commissioned in Aug'18.

Sl. No.	Name of the Sub -Station	MVA Ratio	Executing Agency	Status of land	Status of Construction			Date of Completion		Remarks / Reason for Delay/Constraints & assistance required.
					Civil works compln. (%)	Str. & Eqpt. Received (%)	Str. & Eqpt. Erection (%)	Original schedule	Anticipate d date	
	Extn at 400/220KV at Jeerat S/stn.			Available	98%	99%	98%		Jan'21	Work executed by WBSETCL on deposit basis. Work has been affected due to COVID-19 pandemic.
	Extn at 400KV at Baharampur S/stn.			Available	100%	100%	100%		Aug'18	Bay commissioned in Aug'18.
	Extn at 400KV at Subhashgram S/stn.			Available	100%	100%	100%		Mar'18	Commissioned in Mar'18.
43	Eastern Region Strengthening Scheme-XVII (Part-B)		PGCIL					Jun'19/ Sep'20	Mar'21	
	Extn. at 400/220KV Gaya S/stn.	500		Available	100%	100%	100%		Jan'19	Commissioned.
	Extn. at 400/220KV New Siliguri S/s (3rd ICT)	315		Available	97%	100%	90%		Feb'21	Work has been affected due to COVID-19 pandemic.
	Extn. at 400/220KV Durgapur S/stn. (3rd ICT)	315		Available	100%	100%	100%		Jun'19	Charged in Jun'19.
	Extn. at 400/220KV Jeypore S/stn.	630		Available	85%	80%	70%		Mar'21	Work has been affected due to COVID-19 pandemic.
	Extn. at 400/220KV Rourkela S/stn.	630		Available	94%	92%	86%		Feb'21	Work has been affected due to COVID-19 pandemic. 1 no. 315 MVA ICT commissioned on 05.12.20.
	Repl. of 400/220KV Malda S/st. (2x315MVA to 2x500 MVA)	370		Available	85%	90%	70%		Mar'21	Work has been affected due to COVID-19 pandemic.
	Extn. at Maithon (PG) and Maithon (RB)			Available	85%	90%	70%		Feb'21	Work has been affected due to COVID-19 pandemic.
	Bypassing arrangement of LILO of 400KV lines at Angul.			Available	100%	100%	100%		Feb'20	Charged in Feb'20.
44	Eastern Region Strengthening Scheme- XVIII		PGCIL					Aug'20	Feb'21	Work has been affected due to COVID-19 pandemic.
	Extension at 765kV Ranchi (New) S/s			Available	99%	99%	99%		Jan'21	Bays are test charged on 8.8.20 (without Reactor). Commissioning matching with associated TBCB line and readiness of Medinipur S/S under TBCB.

Sl. No.	Name of the Sub -Station	MVA Ratio	Executing Agency	Status of land	Status of Construction			Date of Completion		Remarks / Reason for Delay/Constraints & assistance required.
					Civil works compln. (%)	Str. & Eqpt. Received (%)	Str. & Eqpt. Erection (%)	Original schedule	Anticipate d date	
	Extension at 400kV Subhashgram (New) S/s			Available	95%	95%	87%		Feb'21	Work has been affected due to COVID-19 pandemic. Extn. work expected to be completed by Jan'21. However, commissioning matching with associated TBCB line (ant. by Feb'21).
45	400KV D/C Baharampur (PG) - Bheramera (B'desh) line (IInd Ckt) - India portion		PGCIL					Feb'20/ Apr'20	May'20	
	Extn. at 400KV Baharampur S/stn.	-		Available	100%	100%	100%		May'20	Both bays are charged on 07.05.20. Commissioning matching with readiness of bays at Bangladesh end.
46	Eastern Region Strengthening Scheme - XX		PGCIL					May'20	Feb'21	Compln. Sch. - 30 months from IA
	Extn. at 400/220KV Biharshariff S/Stn.	500		Available	100%	100%	100%		Sep'19	Commissioned.
	Extn. at 400/220KV Maithon S/Stn.	500		Available	100%	100%	100%		Jul'20	Commissioned.
	Extn. at 400/132KV Banka S/Stn.	315		Available	100%	100%	100%		Dec'19	Commissioned.
	Extn. at 400/132KV Lakhisarai S/Stn.	315		Available	100%	100%	100%		Dec'19	Commissioned.
	Extn. at 220/132KV Rangpo S/Stn.	100		Available	98%	98%	97%		Jan'21	Work has been affected due to COVID-19 pandemic.
	Repl. 220/132KV 50MVA to 160MVA at Malda S/stn.	110		Available	100%	100%	100%		Oct'19	Commissioned.
	Extn. at 220KV Biharshariff (BSPTCL) S/S.	-		Available	100%	100%	100%		Sep'19	Commissioned.
	Extn. at 400/220KV New Siliguri S/s	-		Available	80%	85%	75%		Feb'21	Work has been affected due to COVID-19 pandemic.
	Extn. at 400KV Subhashgram S/Stn.	-		Available	100%	100%	100%		Jan'20	Commissioned.
	Extn. at 765/400KV Ranchi (New) S/Stn.	-		Available	99%	99%	99%		Jan'21	Work has been affected due to COVID-19 pandemic. Completion matching with commissioning of line.

Sl. No.	Name of the Sub -Station	MVA Ratio	Executing Agency	Status of land	Status of Construction			Date of Completion		Remarks / Reason for Delay/Constraints & assistance required.
					Civil works compln. (%)	Str. & Eqpt. Received (%)	Str. & Eqpt. Erection (%)	Original schedule	Anticipated date	
	Extn. at 400/220KV New Purnea S/Stn.	-		Available					May'20	Award placed in Dec'17. 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 40 days.
	Extn. at 220/132 KV Purnea S/Stn.	-		Available	100%	100%	100%		Feb'20	Charged in Feb'20.
47	Eastern Region Strengthening Scheme - XXII		PGCIL					Jan'22	Jan'22	Compln. Sch. - 18 months from IA
	Extn. at 400/220/132 KV Malda S/s (Upgradation work at 132kV Malda Substation from AIS to GIS including additional 2 nos. 132 kV GIS Bays)			Available					Jan'22	Award placed in July'20. Engg. under progress.
48	Eastern Region Strengthening Scheme - XXIII		PGCIL					Jun'21	Jun'21	Compln. Sch. - 11 months from IA
	Extn. at 400/220 kV Muzaffarpur S/S extn including ICT	500		Available	5%				Jun'21	Award placed in July'20. Engg. under progress.
	Extn. at 400 kV Saharsa S/S			Available	2%				Jun'21	Award placed in July'20. Engg. under progress.
	Extn. at 400 kV Durgapur S/S			Available					Feb'21	Award placed in July'20. Engg. under progress.
	Extn. at 400 kV Kahalgaon S/S (NTPC)			Available					Feb'21	Award placed in July'20. Engg. under progress.
	NORTH EASTERN REGION									
49	North Eastern Region Strengthening Scheme -III		PGCIL					Dec'17/ Jun'18/ Mar'21	Mar'21	
	2nd ICT at 400/220KV Bongaigaon S/s.	315		Available	100%	100%	100%		Apr'19	Commissioned.
	Repl. of 220/132KV 1x50 MVA to 1x160 MVA at Kopili S/stn.	110		Available	90%	85%	75%		Mar'21	Substation submerged due to bursting of penstock of Kopili HEP.
	Repl. of 220/132KV 2x50 MVA to 2x160 MVA at Balipara S/stn.	220		Available	100%	100%	100%		Apr'20	ICT-I commissioned in Sep'17. ICT-II commissioned in Apr'20.
	Extn. of 220KV Salakati S/stn.			Available	100%	100%	100%		Apr'19	Commissioned.
50	PG works associated with North Eastern Region Strengthening Scheme -V		PGCIL					Apr'20	Feb'21	

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					Civil works compln. (%)	Str. & Eqpt. Received (%)	Str. & Eqpt. Erection (%)	Original schedule	Anticipate d date	
	Extn. at 400/220KV Silchar Sub station				98%	98%	98%		Feb'21	Work has been affected due to COVID-19 pandemic.
51	PG works associated with North Eastern Region Strengthening Scheme -VI		PGCIL					May'20	Feb'21	
	Extn. at 400/220KV Misa & Imphal Sub station			Available	98%	98%	95%		Feb'21	Work has been affected due to COVID-19 pandemic. Bays at Imphal completed.
	Extn. 400/220KV New Mariani Sub station	2x500		Available	90%	96%	85%		Feb'21	Work has been affected due to COVID-19 pandemic. 1 no. 400/220 KV, 500 MVA ICT, 1 no. 125 MVAR Bus Reactor & 02 nos. 400 KV line bay for Kohima (KPTL 400 KV D/C Imphal - New Kohima- Mariani TBCB line) commissioned in Dec'20. Balance 01 no. 400/220 KV 500 MVA ICT, 01 no. 400 KV 125 MVAR B/R and 02 nos. 400 KV line bays for the shifting of 400 KV D/C Misa line to New Mariani and 02 nos. 220 KV line bays for 220 KV D/C old Mariani -New Mariani line shall be ready by Feb'21.
52	PG works associated with North Eastern Region Strengthening Scheme -II (Part-B)		PGCIL					Sep'20	Dec'20	Completion Sch. - 20 months to 28 months from IA.
	Extn. at 400/132KV Biswanath Chariyali S/stn.			Available	100%	100%	100%	Jan'20	Jun'20	Bay test charged in Jun'20. Associated TBCB line of Sterlite delayed.
	Extn. at 400/220 KV Silchar GIS S/stn.			Available	100%	100%	100%		Dec'20	Work has been affected due to COVID-19 pandemic. Charged in Dec'20.
	Extn. at 400/220 KV Misa GIS S/stn.			Available	100%	100%	100%		Dec'20	Work has been affected due to COVID-19 pandemic. 80 MVAR Bus Reactor charged in Jun'20 & balance work charged in Dec'20.
53	North Eastern Region Strengthening Scheme-VIII		PGCIL					Mar'21	Mar'21	Work has been affected due to COVID-19 pandemic.
	Mokokchung (PG) GIS S/S (220/132 KV, 30 MVA 3rd ICT alongwith associated bays)	3x10		Available	38%	25%	2%		Mar'21	

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					Civil works compln. (%)	Str. & Eqpt. Received (%)	Str. & Eqpt. Erection (%)	Original schedule	Anticipate d date	
	Dimapur (PG) GIS S/S (Repl. Of 220/132 KV, 4x33.33 single ph. ICT by 1x160 MVA 3-ph. Unit, Addn. of new 200/132 KV 1x160 MVA 3-ph. ICT & associated bays, conversion of switchyard and Bus Bar scheme etc.)	60 1x160		Available	40%	25%	2%		Mar'21	
	Jiribam (PG) GIS S/S (upgradation of 132 KV level from AIS to GIS alongwith incorporation of Double Bus Arrangement, LBB & Bus Bar Protection & associated works)			Available	45%	25%	2%		Mar'21	
	Aizwal (PG) GIS S/S (upgradation of 132 KV level from AIS to GIS alongwith incorporation of Double Bus Arrangement, LBB & Bus Bar Protection & associated works)			Available	20%	18%	2%		Mar'21	
	Kumarghat (PG) GIS S/S (upgradation of 132 KV level from AIS to GIS alongwith incorporation of Double Bus Arrangement, LBB & Bus Bar Protection & associated works)			Available	32%	20%	2%		Mar'21	
	Haflong (PG) GIS S/S (upgradation of 132 KV level from AIS to GIS alongwith incorporation of Double Bus Arrangement, LBB & Bus Bar Protection & associated works)			Available	32%	20%	2%		Mar'21	
	TBCB Project - Sub station									
1	<u>Eastern Region strengthening Scheme - XVIII</u>		PGCIL					Jul'20	Feb'21	
	765/400KV Medinipur Sub station (7x500)	2x1500		Acquired	95%	98%	97%		Jan'21	Work was stopped from Nov'19 - Dec'19 due to agitation by local tribals. Restarted slowly from 10.12.19. Work has been affected due to COVID-19 pandemic. Work also affected due to cyclone AMPHAN in May'20. Commissioning progressively by Jan'21, matching with associated line.

Sl. No.	Name of the Sub -Station	MVA Ratio	Executing Agency	Status of land	Status of Construction			Date of Completion		Remarks / Reason for Delay/Constraints & assistance required.
					Civil works compln. (%)	Str. & Eqpt. Received (%)	Str. & Eqpt. Erection (%)	Original schedule	Anticipate d date	
	765/400KV Jeerat (New) Sub station (7x500)	2x1500		Acquired	65%	90%	27%		Feb'21	Work has been affected due to COVID-19 pandemic. Work also affected due to cyclone AMPHAN in May'20. Commissioning matching with associated Jeerat-Subhashgram (TBCB) line (ant. by Feb'21).
	Extn. at 400KV Jeerat S/stn (WBSETCL)			Available	95%	96%	90%		Jan'21	Exectued by WBSETCL. Work has been affected due to COVID-19 pandemic. Work also affected due to cyclone AMPHAN in May'20.
2	<u>Eastern Region strengthening Scheme - XXI</u>		PGCIL					Mar'21	Mar'21	
	400/220/132KV Sitamarhi Sub station	2x500 & 2x200		Acquired	88%	95%	90%	Jan'21	Jan'21	Work was stalled due to heavy rain & flood. Work has been affected due to COVID-19 pandemic.
	400/220/132KV Chandaui Sub station	3x500 & 3x200		Acquired	95%	98%	98%	Mar'21	Mar'21	Work has been affected due to COVID-19 pandemic.
	400/220/132KV Saharsa Sub station	2x500 & 2x200		Under acq.	42%	66%	10%	Mar'21	Mar'21	Work has been affected due to COVID-19 pandemic.
	Extn. at 400KV Darbhanga S/stn			Available	95%	95%	95%	Jan'21	Jan'21	Work has been affected due to COVID-19 pandemic.
	Extn. at 400KV Motihari S/stn	315		Available	90%	95%	95%	Jan'21	Jan'21	Work has been affected due to COVID-19 pandemic.
3	<u>Transmission System associated with LTA application from Rajasthan SEZ (Part -A)</u>		PGCIL					Dec'20	Mar'21	
	2 nos 765kV line bays (AIS) at Ajmer (PG) S/s for Ajmer (PG) –Phagi (RVPN) 765kV D/c line.			Available	80%	70%	40%		Mar'21	Work has been affected due to COVID-19 pandemic. Work under progress.

Sl. No.	Name of the Sub -Station	MVA Ratio	Executing Agency	Status of land	Status of Construction			Date of Completion		Remarks / Reason for Delay/Constraints & assistance required.
					Civil works compln. (%)	Str. & Eqpt. Received (%)	Str. & Eqpt. Erection (%)	Original schedule	Anticipated date	
	01 no of 765kV bay (AIS) & 01 complete GIS DIA 765kV (2 main Breakers & 1 Tie Breaker) at Phagi S/S for Ajmer (PG) – Phagi (RVPN) 765kV D/c line.			Available	80%	90%	60%		Mar'21	Work has been affected due to COVID-19 pandemic. Work under progress.
4	<u>Transmission System associated with LTA application from Rajasthan SEZ (Part -B)</u>		PGCIL					Dec'20	May'21	
	2 nos of 765kV bays each at Fatehgarh-II for Fatehgarh-II – Bhadla-II 765kV D/c line.			Available	40%	30%			May'21	Civil works under progress.
	2 nos of 765kV bays at Bhadla-II S/s for Fatehgarh-II – Bhadla-II 765kV D/c line.			Available	60%	20%			May'21	Civil works under progress.
5	<u>Transmission System associated with LTA application from Rajasthan SEZ (Part -C)</u>		PGCIL					Dec'20	May'21	
	Establishment of 765/400kV, 2x1500 MVA S/s at suitable location near Khetri with 765kV (2x240MVAR) and 400kV (1x125 MVAR) bus reactor	2x1500		Available	20%	30%	5%		May'21	There was some delay in land acquisition, now works under progress.
	400kV line bays at Sikar (PG) for Khetri – Sikar (PG) 400kV D/c line (Twin AL59)			Available	50%	50%	10%		May'21	Works under progress.
	765kV bays at Jhatikara for Khetri– Jhatikara 765kV D/c line			Available	50%	30%			May'21	Civil works under progress.
6	<u>Transmission System for providing connectivity to RE Projects at Bhuj-II (2000 MW) in Gujarat</u>		PGCIL					Dec'20	May'21	
	Establishment of 765/400/220 KV Bhuj-II Substation (7x500 MVA 765/400 KV & 4x500 MVA 400/220 KV)	2x1500 & 4x500		Available	40%	30%	5%		May'21	Work has been affected due to COVID-19 pandemic. Supply of on-shore and off-shore equipment is expected to be delayed due to Corona virus outbreak globally. Supply of BHEL make ICT and Reactors and

Sl. No.	Name of the Sub -Station	MVA Ratio	Executing Agency	Status of land	Status of Construction			Date of Completion		Remarks / Reason for Delay/Constraints & assistance required.
					Civil works compln. (%)	Str. & Eqpt. Received (%)	Str. & Eqpt. Erection (%)	Original schedule	Anticipated date	
										supply of GIS from NHVS China is very critical. RoW in associated transmission line because of delay in finalization of land compensation by local and State administration is critical.
7	Connectivity system for Khargone TPP. M/s by Khargone. By M/s Sterlite		Khargone Transmissi on Ltd							• Detailed Survey Completed. • EPC Contract awarded for Transmission line and Substation. • Land Acquisition is under process. • Online Proposal for Forest Clearance has been submitted on MoEF & cc Web portal
	765/400 kV Khandwa Pooling Station	2x1500		100%	100%	100%	100%	Jul'19	Mar'20	Commissioned 03/2020
8	NER System Strengthening Scheme II. M/s by NER II Transmission Limited. By M/s Sterlite		NER II Transmissi on Limited							Name of the successful Bidder: M/s Sterlite Grid 4 Limited
	400/132 kV Surajmaninagar S/S	2x315		100%	100%	100%	100%	Jul'20	Dec'20	Commissioned 12/2020
	400/132 kV P.K. Bari S/S	2x315		100%	100%	100%	100%	Jul'20	Dec'20	Commissioned 12/2020
9	Additional 400kV Feed to Goa and Additional System for Power Evacuation from Generation Projects pooled at Raigarh (Tamnar) Pool		Goa-Tamnar Transmissi on Project Limited					Nov'21		

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					Civil works compln. (%)	Str. & Eqpt. Received (%)	Str. & Eqpt. Erection (%)	Original schedule	Anticipated date	
	400/220 kV Substation at Xeldem (Goa)	2x500		100%				May'21	Oct'21	1. Delay due to occurrence of Force Majeure (FM) event i.e. outbreak of COVID-19 and this FM event has been intimated to all LTTCs. 2. The construction work will be started after getting NoC/CLU order from Revenue authorities. The construction License from Gram Panchayat, Molem has been received on 13 Nov 2020. 3. The progress is suffered due to petition filed by Goa Foundation in Central Empowered Committee (CEC) constituted by Supreme court and High Court of Mumbai & Goa
10	Establish Transmission System for 400 kV Udupi (UPCL) – Kasargode D/C Line		Udupi Kasargode Transmission Limited.					Nov'22	Mar'22	
	400/220 kV GIS substation at Kasargode	2x500		100%				Nov'22	Mar'22	
11	Additional inter regional AC link for import into southern region i.e Warora-Warangal and Chilakaluripeta – Hyderabad – Kurnool 765 kV link . By M/s Essel		Warora Kurnool Transmission Ltd.					Nov'19		
	765/400 kV Substation at Warangal	2x1500		100%	47%	60%		Nov'19		
12	Immediate evacuation for North Karanpura (3x660MW) generation project of NTPC (ERSS-XXIX).		North Karanpura Transco Ltd					23 months from the NOC from CCL		
	400/220 kV Dhanbad s/s	2x500		100%	80%	88%	55%	May'19		• Revised schedule completion date: 18 months from date of NOC from CCL/MoC. Pandemic COVID 19 situation has become uncontrollable since last week of Feb'20 and the work is affected at site
13	Transmission System for Ultra Mega Solar Park in Fatehgarh, Distt. Jaisalmer Rajasthan By M/s Adani									

Sl. No.	Name of the Sub -Station	MVA Ratio	Executing Agency	Status of land	Status of Construction			Date of Completion		Remarks / Reason for Delay/Constraints & assistance required.
					Civil works compln. (%)	Str. & Eqpt. Received (%)	Str. & Eqpt. Erection (%)	Original schedule	Anticipated date	
	400 KV Pooling Station At Fategarh			100%	100%	98%	96%	Sep'19	Jan'21	Jan'21, however, it can be ascertained once Status Quo order from Hon'ble High Court vacated.
14	Transmission System for Western Region Strengthening Scheme – 21 (WRSS – 21) Part – A – Transmission System Strengthening for Relieving Over Loadings Observed in Gujarat Intra-State System Due to Re-injections in Bhuj PS		WRSS XXI(A) Transco Limited					Dec'20		
	765/400 KV Pooling Station At Lakadia	2X1500		100%	20%	65%		Dec'20	May'21	Work affected due to COVID-19
14	Transmission System for Jam Khambaliya Pooling Station and Interconnection of Jam Khambaliya Pooling Station for Providing Connectivity to RE Projects (1500 MW) in Dwarka (Gujarat) and Installation of 400/220 kV ICT along with Associated Bays at CGPL Switchyard		Jam Khambaliya Transco Limited					Mar'21		
	400/220 KV Pooling Station At Jam Khambaliya (GIS	4X500		100%	80%	65%	3%	Mar'21	Jun'21	Work affected due to COVID-19