



**Monthly Progress report of Cross border/ Inter-Regional/
Inter–State Transmission Schemes
(As on 31.10.2022)
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: पररेषण लाईन्स TRANSMISSION LINES

क्रमांक Sl. No.	पररेषण लाईन्स का नाम Name of the Trans line	लंबाई (सीकेएम) Length (CKM)	लागत (अनुमोदित) /प्रस्तावित Cost (Appd.) /Ant.	संचयी व्यय Cumml Exp.Actual upto prev. month (Sep'22)	लोकेशन Total Locs. (no.)	निर्माण की प्रगति Progress of Construction			संपूर्ण लक्ष्य Completion Tgt.		Remarks / Constraints & assistance required.
						स्टब सेटिंग Stubs Setting (no.)	टॉवर ईरैक्शन Tower Erect. (no.)	स्ट्रिंगिंग Strng. (Ckm)	Latest Approved Schedule	प्रत्या./वास्त. Ant./ Act.	
MULTI REGIONAL SYSTEMS (IR Lines*)											
1	North East / Northern Western Interconnector -I Project	5156	14719.1	13495.0	6653	6572	6493	4782	Mar'22/ Aug'22/ Nov'22	Mar-23	
	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	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.
	L.I.L.O 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.
	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	735.82			999	918	839	362	Mar'22/ Aug'22/ Nov'22	Mar-23	Part- C, Completion matching with Lower Subhansari Generation. (Unit-1&2 Feb-23/Mar'23 progressively)
	400KV D/C Lower Subhansiri - Biswanath Chariyali line -I	359			481	464	446	286		Dec-22	Initially work was stalled on a/c of local disturbance/ agitation against big dams. Contract was short closed as generation was not coming. Balance work of line awarded in Dec'20 & Work is under progress.
	400KV D/C Lower Subhansiri - Biswanath Chariyali line -II	371			518	454	393	76		Mar-23	Initially work was stalled on a/c of local disturbance/ agitation against big dams. Contract was short closed as generation was not coming. Balance work of line awarded in Dec'20 & Work is under progress.
2	North Eastern Region Strengthening Scheme-XII (NERSS-XII)	894	576.42	89.1				213	Mar'23	Mar-23	
	Re-conductoring of Siliguri – Bongaigaon 400kV D/c line with Twin HTLS conductor	436								Mar-23	Shutdown constraint
	Re-conductoring of Alipurduar – Salakati 220kV D/c line with Single HTLS conductor	202						48		Mar-23	Work under progress.
	Re-conductoring of BTPS – Salakati 220kV D/c line with Single HTLS conductor	8								Mar-23	Engg. & survey under progress.
	Re-conductoring of Dimapur–Imphal 132kV S/c line with Single HTLS conductor	165						165		Oct-22	Reconductoring work completed. Charged in Oct'22.
	Re-conductoring of Loktak–Jiribam 132kV S/c line with Single HTLS conductor	83								Mar-23	S/D received on 05.11.22 & work under progress.
NORTHERN REGION											
3	Northern Region System Strengthening Scheme - XXXV	122	123.91	69.2	182	182	181	103	Aug'18/ May'22	Dec-22	
	400KV D/C Mohindergarh - Bhiwani line	122			182	182	181	103		Dec-22	ROW Tower Erection: 1 no. in Bhiwani district. ROW Stringing: 9.5 km in Bhiwani. District administration help required for resolving ROW.

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						स्टब सेटिंग Stubs Setting (no.)	टॉवर ईरैक्शन Tower Erect. (no.)	स्ट्रिंगिंग Strng. (Ckm)	Latest Approved Schedule	प्रत्या./ वास्त. Ant./ Act.	
4	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	322.3	211.5	57	57	56	46.5	Feb'19/ Jun'19/ Apr'20/ Jun'21/ Sep'21/ Apr'22	Dec-22	
	220KV D/C UT Chandigarh S/S - Panchkula (PG) S/S line (incl. 9.7 Kms underground cable).	48			57	57	56	46.5		Dec-22	Severe ROW at 1 location for Tower Erection (6A/1). Brick Kiln owner has filed LPA in divisional bench of HC, The LPA No 1115 of 2021 filed against the Hon'ble Single Bench combined with the Stay application CM1005-LPA-2022 was heard by the Hon'ble Division Bench on 26th, 27th and 28th July 2022 keeping the matter reserved for judgement.
5	System Strengthening Scheme in Northern Region - XXXVII	70.6	379.95	272.9	114	114	114	65.06	Dec'19/ Jun'20/ Jun'21/ Sep'21/ Apr'22	Nov-22	
	LILO of both ckt of 400KV Dhauliganga - Bareilly (PG) line at Jauljivi	5.4			13	13	13	4.24		Nov-22	All works completed except stringing at tapping point. Commissioned matching with 220 KV arrangement between Jauljivi & Pithoragarh. Shutdown approved from 10.11.2022.
	Diversion of Dhauliganga-Bareilly 400KV D/C line (operated at 220KV) at Bareilly end from Bareilly (UP) to Bareilly (PG) line	16.4			27	27	27	16.18		Nov-22	All works completed except stringing at tapping point. Commissioning matching with 220 KV arrangement between Jauljivi & Pithoragarh.
	Disconnection of 220KV LILO arrangement of Dhauliganga - Bareilly at Pithoragarh and connecting it to Jauljivi S/Stn. at 220KV level	48.8			74	74	74	44.64		Nov-22	Stage-I forest clearance received on 31.10.19. Working permission received on 23.12.19. 5 no. locs. were affected due to pending Civil Aviation clearance. Appellate Committee on Clearance, AAI in its meeting held on 17.12.2020 agreed to issue NOC for balance restricted 5 locations with the condition that conductor in span AP5 to AP6 should be replaced by underground cable. Accordingly, contract for cabling work awarded & Cabling work is under progress..
6	Transmission system strengthening scheme for evacuation of power from solar energy zones in Rajasthan (8.1 GW) under Phase II- Part- F1	68	99.76	66.1	99	90	81	21	Jun'22/ Sep'22	Dec-22	
	Removal of LILO of one circuit of Bhadla-Bikaner (RVPN) 400kV D/C line at Bikaner (PG) & Extension of this LILO section from Bikaner (PG) to Bikaner-II PS to form Bikaner-II PS- Bikaner (PG) 400kV D/C line	68			99	90	81	21		Dec-22	Line shall be commissioned with Bikaner -2 substation (Under TBCB Rajasthan SEZ Phase 2 Part F)
7	Transmission system for evacuation of Power from Pakaldul HEP in Chenab Valley HEPs - LTA System	130	318.12	45.6	61	5	0	0	Apr-25	Apr-25	
	2nd Circuit of Kishenpur - Dulhasti 400kV D/c (Q) line (Kishtwar - Kishenpur Section): 115km Reconductoring & 14.6 km new line work	130			61	5			Apr-25	Apr-25	Shutdown has been rejected in last OCC meeting. Expected to be granted in Nov'22/Dec'22 during lean period in view of Hydro generation.
8	Transmission System Strengthening Scheme for Evacuation of Power from Solar Energy Zones in Rajasthan (8.1GW) under Phase-II-Part G1	46	359.47	9.3	93	2	0	0	Sep-23	Sep-23	
	Removal of LILO of Bawana- Mandola 400kV D/C line at Maharaniabagh S/S and Extension of above LILO section from Maharaniabagh upto Narela S/S so as to form 2X400kV D/C Maharaniabagh- Narela line on Multicircuit tower using Twin HTLS conductor	46			93	2	0	0	Sep-23	Sep-23	Awarded in Mar'22. Survey work in progress.
9	Transmission System Strengthening for Srinagar-Leh TS	15	288.71	0.0					Dec'24	Dec-24	
	Laying of cable between Minamarg & Zojilla top section of Alusteng-Drass 220kV Section	15								Dec-24	Awarded on 31.08.22. Survey in progress.
10	System Strengthening Scheme for Reconductoring of portion- of Dulhasti-Kishtwar-Kishenpur 400kV Quad S/C	13	11.95	0.0					Apr'25	Apr-25	

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						स्टब सेटिंग Stubs Setting (no.)	टॉवर ईरैक्शन Tower Erect. (no.)	स्ट्रिंगिंग Strng. (Ckm)	Latest Approved Schedule	प्रत्या./वास्त. Ant./ Act.	
	Reconductoring Dulhasti Ratle L.I.O tap point of Dulhasti - Kishenpur 400kV line implemented through twin moose conductor to Quad moose conductor	13								Apr-25	
WESTERN REGION											
11	Western Region System Strengthening Scheme- XXII	37	103.35	48.1	75	75	75	37	(Dec'20/Mar'23)/ (Mar-22/Jun'23)	Mar-23	
	Part-I: 220 kV D/C Navsari (PG) – Bhestan line	37			75	75	75	37	Mar-22	Feb-22	Line commissioned in Feb-22.
12	TS strngthening beyond Kolhapur for export of power from Solar & Wind Energy Zones in Southern Region	78.76	129.28	2.8					Feb'23	Feb-23	
	Reconductoring of Kolhapur(PG)-Kolhapur (MSETCL) 400kv D/C line	78.76								Feb-23	Shutdown approved from 18.11.22.
13	Transmission Network Expansion in Gujarat to increase its ATC from ISTS Part B	780	4546.25	73.8	1170					Jun-23	
	Navsari (new) (South Gujarat) (GIS)- Magarwada (GIS) 400 kV M/c line	220			330					Jun-23	Work commenced.
	Magarwada (GIS) - Kala (GIS) 400 kV D/c line.	160			240					Jun-23	Work commenced.
	Navsari(New) (South Gujarat) (GIS) – Padghe (GIS) 765 kV D/c line	400			600					Jun-23	Work commenced.
14	Transmission Network Expansion in Gujarat to increase its ATC from ISTS Part C	50	186.19		104					Mar-25	
	400kV D/C Banaskantha-Sankhari Line (2nd Ckt)	50			104					Mar-25	Work commenced.
SOUTHERN REGION											
15	Transmission System for evacuation of power from Neyveli Lignite Corp. Ltd. TS-1 (Replacement) (NNTPS) in Neyveli, Tamil Nadu.	154	219.66	173.6	223	223	223	154	Jul'19/ Jun'20/ Apr'21/ Jul'21/ Dec'22	Dec-22	
	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 TANTRANSCO on Deposit work Basis yet to be ready).
	LILO of existing Neyveli TS-II - Pondyerry 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	HVDC Bipole link between Western Region (Raigarh, Chhattisgarh) and Southern Region (Pugalur, TM) - North Trichur (Kerala) - Scheme-II : AC System Strengthening at Pugalur end*	1199	2635.55	1895.5	1696	1694	1694	1198.2	Feb'20/ Sep'20/ Jun'21/ Sep'21/ Apr'23	Apr-23	* All elements of project have been commissioned progressively by Oct'21 except 4 no. 400kV Bays at Edayarplyam S/S (TANTRANSCO) due to its non-readiness (being implemented by TANTRANSCO on deposit work basis) & completion expected by Apr'23.
	400KV D/C Pugalur HVDC Station - Pugalur line (Q)	100			138	138	138	100		Sep-20	Line commissioned in Sep'20.
	400KV D/C Pugalur HVDC Station - Arasur line (Q)	118			162	162	162	118		Sep-20	Line commissioned in Sep'20.

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	400KV D/C Pugalur HVDC Station - Thiruvalem line (Q)	782			1110	1110	1110	782		Oct-21	Line commissioned in Oct'21.
	400KV D/C Pugalur HVDC Station -Edayarpalayam (TANTRANSCO) line (Q)	105			149	148	148	104.6		Jul-21	Due to non-readiness of Edayarpalayam S/s of Tantranso, line charged on 13.07.21 by bypassing Edayarpalayam SS making Pugalur - Udumulpet line. Balance work at 1 location shall be completed matching with Edayarpalayam SS.
	400KV D/C Edayarpalayam (TANTRANSCO)- Udumulpet line (Q)	94			137	136	136	93.6		Jul-21	Due to non-readiness of Edayarpalayam S/s of Tantranso, line charged on 13.07.21 by bypassing Edayarpalayam SS making Pugalur - Udumulpet line. Balance work at 1 location shall be completed matching with Edayarpalayam SS.
17	Regional System Strengthening Scheme to mitigate the overloading of 400kV NP Kunta-Kolar S/C	131	122.71	67.7				122	Oct-22	Dec-22	
	Reconductoring of the NP Kunta-Kolar 400kV S/C Line (twin Moose) section with high capacity conductors (like twin HTLS equivalent or Quad Moose)	131						122		Dec-22	Work under Progress
<u>EASTERN REGION</u>											
18	Eastern Region Strengthening Scheme-XVII (Part-B)	63	235.53	165.4				63	Jun'19/ Sep'20/ Aug'21/ Nov'21/ Apr'22	Dec-22	
	Re-conductoring of Maithon RB - Maithon 400KV D/C line	63						63		May-22	Reconductoring work completed in May'22,
19	Eastern Region Strengthening Scheme - XXIII	84	239.89	165.6	127	127	127	84.34	Jun'21/ Sep'21/ Jun'22	Apr-22	
	LILO of Kishanganj (POWERGRID) – Darbhanga (DMTCL) 400 kV D/C (Quad) line at Saharsa (New)	78			114	114	114	78		Apr-22	Line charged on 26.04.2022.
	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	13	13	6.34		Dec-21	Line work completed. Ckt-I of Farakka bypass charged on 18.12.21. Ckt-II charged on 31.12.21.
20	Transmission system for power evacuation from Arun-3 (900MW) HEP, Nepal of M/s SAPDC-Indian Portion	78	179.29	87.4	115	95	89	16	Apr'23	Apr-23	
	400 KV D/C (Quad Moose) Sitamarhi (POWERGRID) – Dhalkebar (Nepal) Transmission Line (Indian Portion)	78			115	95	89	16	Apr'23	Apr-23	Progress affected due to flood.
<u>Heading NORTH EASTERN REGION</u>											
21	North Eastern Region Strengthening Scheme-X	67	40.84	20.6	117	70	36	0	Feb'22/ May'22	Mar-23	
	132 kV D/C Roing (PG) - Chapakhowa (AEGCL) line	67			117	70	36	0		Mar-23	Foundation work in progress. Work is affected due to heavy rain and delay in working permission in non forest area in Arunanchal Pradesh.
22	North Eastern Region Strengthening Scheme-XIV	16	74.91	34.4	25	22	21	10	Feb'22/ May'22	Mar-23	
	LILO of 400 kV D/c Palatana - Surajmaninagar (ISTS) line at 400 kV Surajmaninagar (TSECL) S/s	12			25	22	21	10		Mar-23	Due to non-readiness of Surajmaninagar TSESL SS , Line shall be charged by Mar-23 through by passing. {Work yet to be started at TSESL Surajmaninagar SS.}

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						स्टब सेटिंग Stubs Setting (no.)	टॉवर ईरैक्शन Tower Erect. (no.)	सिडिंग Strng. (Ckm)	Latest Approved Schedule	प्रत्या./वास्त. Ant./ Act.	

Note: As per Ministry of Power, Govt. of India circular no. 3/1/2020-Trans dated 27th July, 2020, all inter-state projects whose SCOD is beyond 25th March, 2020 and which were under construction on 25th March, 2020, have been given an extension of 5 months in respect of SCOD. Works severely affected in all projects during the first phase of COVID and also in the second phase of COVID. Also, as per Ministry of Power, Govt. of India circular no. 3/1/2020-Trans dated 12th June, 2021, all inter-state transmission projects which are under construction with SCOD coming after 01 April, 2021 have been extended for 3 months in respect of their SCOD.

PART- II: सब स्टेशन SUBSTATION									
क्रमांक Sl. No.	सब स्टेशन का नाम Name of the Sub -Station	एम.वी.ए अनुपात MVA Ratio	जमीन की स्थिति Status of land	निर्माण की स्थिति Status of Construction			संपूर्ण लक्ष्य Completion Tgt.		Remarks
				Civil works compln. (%)	Str. & Eqpt. Received (%)	Str. & Eqpt. Erection (%)	Schedule	प्रत्याशित/ वास्तविक.Ant./ Act	
	MULTI REGIONAL SYSTEMS								
1	North East / Northern Western Interconnector -I Project						Mar'22/ Aug'22/ Nov'22	Mar-23	
	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 Rectifier 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/ Aug'22	Mar-23	
	Extn. 400KV at Biswanath Chariyali Pooling stn.		Available	95%	95%	95%		Dec'22/Mar'23	Commissioning matching with lines
2	North Eastern Region Strengthening Scheme-XII (NERSS-XII)						Mar'23	Mar-23	Bay strengthening work due to re-conductoring of lines (HTLS).
	Extension at Siliguri (Binagudi POWERGRID) S/s : Upgradation work associated to reconductoring of Siliguri – Bongaigaon 400kV D/c line		Available					Mar-23	
	Extension at Bonagaigaon (POWERGRID) S/s: Upgradation work associated to reconductoring of Siliguri – Bongaigaon 400kV D/c line		Available	10%	20%			Mar-23	
	Extension at Alipurduar (POWERGRID) S/s: Upgradation work associated to reconductoring of Alipurduar – Salakati (Bongaigaon) 220kV D/c line		Available					Mar-23	

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				Civil works compln. (%)	Str. & Eqpt. Received (%)	Str. & Eqpt. Erection (%)	Schedule	प्रत्याशित/ वास्तविक Ant./ Act	
	Extension at Salakati (Bonagaigaon) S/s: • Upgradation work associated to reconductoring of Alipurduar – Salakati (Bongaigaon) 220kV D/c line & BTPS – Salakati 220kV D/c line		Available	5%	50%			Mar-23	
	Extension at BTPS S/s: Upgradation work associated to reconductoring of BTPS –Salakati 220kV D/c line		Available	5%	50%			Mar-23	
	Extension at Imphal S/s: Upgradation work associated to reconductoring of Dimapur – Imphal 132kV S/c line		Available	50%	50%			Mar-23	
	NORTHERN REGION								
3	Establishment of 220/22KV GIS at UT Chandigarh along with 220KV D/C line from Chandigarh GIS to 400/220KV Panchkula (PG) Sub station.						Feb'19/ Jun'19/ Apr'20/ Jun'21/ Sep'21/ Apr'22	Dec-22	Commissioning matching with line
	2X160MVA, 220/66KV UT Chandigarh (GIS) substation	2x160	Acquired	99%	99%	99%		Dec-22	Work of down stream line under progress by UT Chandigarh.
	Extn at 400/220KV Panchkula Sub station	-	Available	100%	100%	100%		Dec-22	Bays test charged
4	System Strengthening Scheme in Northern Region - XXXVII						Dec'19/ Jun'20/ Jun'21/ Sep'21/ Apr'22	Nov-22	
	400/220KV Jauljivi (GIS) Sub station	2x315	Acquired	98%	100%	100%		Nov-22	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. Work has also been affected due to COVID-19 pandemic. Commissioning of element through contingency arrangement was discussed in the NRPC meeting held in Feb'21, however same has not been agreed by the NRPC. Hence, S/S will be commissioned matching with 220 KV arrangement between Jauljivi & Pithoragarh
	Extn at 765/400KV Bareilly Sub station	-	Available	99%	100%	100%		Nov-22	Work completed. Extn. will be commissioned matching with line.
5	System Strengthening Scheme in Northern Region - XXXVI						Sep'19/ Jun'22	Dec-22	

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				Civil works compln. (%)	Str. & Eqpt. Received (%)	Str. & Eqpt. Erection (%)	Schedule	प्रत्याशित/ वास्तविक Ant./ Act	
	Extn. at 400/220KV Koteshwar Pooling station (2no. Bays for 400 KV D/C Koteshwar - Rishikesh line)	-	Available	90%	85%	80%		Dec-22	Completion of TBCB line i.e. 400 KV D/C Koteshwar - Rishikesh line being 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.
6	Implementation of 500 MVAR Thyristor Controlled Reactor at Kurukshetra						Jul'21/ Dec'21/ Mar'22/ Sep'22	Nov-22	
	500 MVAR Thyristor Controlled Reactor (TCR) at 400 kV Kurukshetra -1 No.			98%	96%	94%		Nov-22	
7	Northern Region System Strengthening - XL						Dec'20/ May'21/ Aug'21/ Mar'23	Mar-23	
	Extn. at 400/220 kV Roorkee (1x500MVA, 400/220kV ICT & 2no. 220kV Line bays)	1x500	Available	100%	100%	100%		Mar-22	ICT charged on 19.12.21 & Line bays charged on 11.03.22
	Extn. at 400/220 kV Sonapat (1x500MVA, 400/220kV ICT & 2 no. 220kV line Bays)	1x500	Available	100%	100%	100%		Mar-22	ICT charged on 27.11.21 & 2 no. line bays charged on 31.03.22
	Extn. at 400/220 kV Fatehpur (1x500MVA, 400/220kV ICT)	1x500	Available	100%	100%	100%		Mar-21	1x500 MVA, 400/220/33 kV ICT alongwith associated bays and 2 nos. 220 kV line bays at Fatehpur s/s was charged on 29.03.2021 & 30.03.2021 respectively.
	Extn. at 400/220 kV Saharanpur (1x500MVA, 400/220kV ICT)	1x500	Available	100%	100%	100%		Mar-21	ICT charged on 31.03.21.
	Extn. at 400/220 kV Bhadla (2x500MVA, 400/220kV ICT)	2x500	Available	100%	100%	100%		Jul-21	1 no. ICT commissioned in Jan'21. 2nd ICT charged in Jul'21
	Extn. at 400/220 kV Lucknow (Repl. of 1x315 MVA ICT by 1x500 MVA ICT & 2 no. 220kV bays)	185	Available	100%	100%	100%		Aug-21	ICT replaced & commissioned in Mar'19. 220 kV bay charged on 18.08.2021
	Extn. at 400/220 kV Allahabad (125 MVAr Bus Rectr)		Available	100%	100%	100%		Aug-21	Charged on 29.08.2021
	Extn. at 400/220 kV Mandola (400kV, 125MVAr Bus Reactor & 220kV, 25MVAr Bus Reactor)		Available	100%	100%	100%		Nov-21	125MVAR Bus Reactor Charged on 11.11.21. 25 MVAr charged on 30.11.21.
	Extn. at 400/220 kV Hissar (400kV, 125MVAr Bus Reactor)		Available	100%	100%	100%		Dec-21	Charged on 27.12.21
	Extn. at 400/220 kV Sikar (400kV, 125MVAr Bus Reactor)		Available	100%	100%	100%		Aug-21	Charged in Aug'21
	Extn. at 400/220 kV Meerut (400kV, 125MVAr Bus Reactor)		Available	100%	100%	100%		Dec-21	Charged on 11.12.21
	Extn. at 400/220 kV Abdullapur (2 nos. 220kV line bays)		Available	100%	100%	100%		Mar-21	Test charged in Mar'21. Downstream line of HVPNL delayed.

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	Extn. at 400/220 kV Gorakhpur (1x315 MVA ICT after replacement at Lucknow to be shifted to Gorakhpur)		Available	100%	100%	100%		Mar-21	400/220 kV, 315 MVA ICT at Gorakhpur charged on 31.07.20. 220 kV line bays charged on 30.03.21.
	Extn. at 400/220 kV Jind (220kV, 25MVA Bus Reactor)		Available	100%	100%	100%		Nov-21	Bus Reactor charged on 30.11.2021
	Extn. at 400/220 kV Fatehabad (1no. 220kV 25MVA Bus Reactor)		Available	100%	100%	100%		Sep-21	Charged in Sep'21
	Extn. at 400/220 kV Kishenpur (400kV, 125MVA Bus Reactor & 220kV, 25MVA Bus Reactor)		Available	100%	100%	100%		Mar-22	125MVA & 25 MVA Reactor charged on 14.03.22
	Extn. at 400/220 kV Jalandhar (400kV, 125MVA Bus Reactor & 2no. 220kV 25MVA Bus Reactor)		Available	100%	100%	100%		Jan-22	125MVA 400kV Bus Reactor charged on 30.11.21. 2x25MVA Reactor charged on 31.01.22.
	Extn. at 400/220 kV Amritsar (220kV, 25MVA Bus Reactor)		Available	100%	100%	100%		Oct-21	Charged in Oct-21.
	Extn. at 400/220 kV Maharaniyabagh (400kV, 125MVA Bus Reactor)		Available	100%	100%	100%		Sep-22	Charged on 30.09.22
	Extn. at 400/220 kV Chamera PS (400kV, 125MVA Bus Reactor)		Available	80%	80%	35%		Mar-23	"Reactor bay (without reactor) charged on 10.05.22. 125MVA Reactor could not reach site due to capacity limitation of bridge near Chamera. Proposal sent to CTU/CEA for capacity reduction from 125MVA to 63/80MVA. Approval for 80MVA Reactor done in CMETS-NR meeting held on 13.10.22. Reactor shifting work in progress.
	Extn. at 400/220 kV Moga (1no. 400kV 125MVA Bus Reactor)		Available	100%	100%	100%		Sep-21	Charged in Sep'21
	Extn. at 400/220 kV Patiala (400kV, 125MVA Bus Reactor)		Available	100%	100%	100%		Oct-21	Commissioned on 08.10.21
8	Scheme to control fault level in Northern Region (Phase-II)						Jun'21/ Nov'21/ Feb'22/ Sep'22	Nov-22	
	Extn. of 400 kV Kanpur Substation		Available	100%	100%	100%		Jun-22	Charged on 05.06.22.
	Extn. of 400 kV Bhiwani Substation		Available	100%	100%	100%		Mar-22	Charged on 31.03.22
	Extn. of 400 kV Hissar Substation		Available	98%	98%	96%		Nov-22	S/D constraint
9	Northern Region System Strengthening - XLI						May'21/ Oct'21/ Jan'22	May-22	
	Extn. at 400/220 kV Chamera Pooling Station (2 nos. 400 KV line bays (GIS))			100%	100%	100%		May-22	
10	Transmission System for Providing connectivity to RE projects at Bikaner (PG), Fatehgarh-II & Bhadla-II						Jan'21/ Jun'21/ Sep'21/ Jun'22	Dec-22	

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				Civil works compln. (%)	Str. & Eqpt. Received (%)	Str. & Eqpt. Erection (%)	Schedule	प्रत्याशित/ वास्तविक Ant./ Act	
	Extension 765/400/220 kV Fatehgarh-II PS (Jaisalmer) (1x1500MVA 765/400kV, 5x500MVA 400/220kV ICTs, 9 no. 220kV Line Bays)	1x1500 & 5x500	Available	100%	100%	100%		May-22	2x500MVA 400/220kV ICT commissioned on 10th Aug'21. 1x500MVA 400/220kV ICT commissioned on 11th Sep'21. 1x500MVA 400/220kV ICT commissioned on 05th Nov'21. 1x500MVA 400/220kV ICT commissioned on 14th Dec'21. 1x1500MVA 765/400kV ICT (4th) commissioned on 09.05.22
	Extension 765/400/220kV Bhadla-II PS (Jodhpur) (1x1500MVA 765/400kV, 5x500MVA 400/220kV ICTs, 9 no. 220kV Line Bays)	1x1500 & 5x500	Available	96%	85%	84%		Dec-22	1x500MVA 400/220kV ICT charged on 16.03.22. 1x500MVA 400/220kV ICT charged on 14.05.22. 1x500MVA 400/220kV ICT Charged on 25.06.22 765/400kV, 1500MVA ICT 3rd at Bhadla-II charged on 01.10.22
	Extension 400/220 kV Bikaner (PG) Substation	2x500	Available	100%	100%	100%		Feb-22	1x500MVA 400/220kV ICT commissioned on 16th Aug'21. 2nd ICT commissioned on 02.01.2022. Balance 02 Bays 204 & 207 charged on 07.02.22.
11	2 nos. of 220 kV Line Bays at Saharanpur (PG)						Nov'21/ Feb'22/ Apr'22	Apr-22	Project completed
	400/220kV Saharanpur (PG) S/S (Extn.)		Available	100%	100%	100%		Apr-22	Bays charged on 08.04.22
12	Transmission system strengthening scheme for evacuation of power from solar energy zones in Rajasthan (8.1 GW) under Phase II- Part- F1						Jun'22/Sep'22	Dec-22	
	Extension of 400kV Bikaner-II PS (2no. 400kV line Bays)		Available	50%	25%			Dec-22	Awarded in Jun'21.
13	Transmission system strengthening scheme for evacuation of power from solar energy zones in Rajasthan (8.1 GW) under Phase II- Part- A1						Mar'22/ Jun'22	Dec-22	
	Augmentation of 765/400 kV, 1x1500 MVA (5th) ICT at Fatehgarh-II PS	1x1500		20%	25%			Dec-22	Substation package awarded in Mar'21. ICT package awarded in Jun'21.
14	Provision of Spare ICTs in Northern Region						Jul'22/ Oct'22	Mar-23	
	500 MVA, 400/220 kV Spare ICT at Tughlakabad	500	Available					Mar-23	
	500 MVA, 400/220 kV Spare ICT at Jaipur South	500	Available					Nov-22	
	500 MVA, 400/220 kV Spare ICT at Panchkula	500	Available	100%	100%	100%		Oct-22	Commissioned in Oct-22
	500 MVA, 400/220 kV Spare ICT at Moga	500	Available	100%	100%	100%		Feb-22	Commissioned in Feb-22
	500 MVA, 400/220 kV Spare ICT at Lucknow	500	Available	100%	100%	100%		Aug-22	Completed in Aug'22
	200 MVA, 220/132 kV Spare ICT at Raebarely	200	Available	100%	100%	100%		Jul-22	completed in Jul'22
	160 MVA, 220/132 kV Spare ICT at Sitarganj	160	Available	100%	100%	100%		Jul-22	completed in Jul'22

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15	Transmission system strengthening Scheme for evacuation of power from solar energy zones in Rajasthan (8.1 GW) under Phase II – Part B1						Sep'22	Jan-23	
	765/400/220kV Extension at Fatehgarh-II (400/220kV, 500MVA 6th to 9th ICT, 765/400kV, 1500MVA 6th ICT & 7 nos. 220kV line bays)	1x1500 & 4x500	Available	58%	50%	32%	Dec'21 to Jun'22	Dec-22	Awarded in May'21. Work Under Progress. 400/220kV, 500MVA ICT 6th at Fatehgarh-II charged on 30.09.2022
	765/400/220kV Extension at Bhadla-II (400/220kV, 500MVA 6th to 8th ICT, 765/400kV, 1500MVA 4th ICT & 4 nos. 220kV line bays)	1x1500 & 3x500	Available	50%	45%	30%	Dec'21 to Sep'22	Dec-22	Awarded in Jun'21. Work Under Progress. 400/220kV 6th ICT charged on 31.08.22. 1no. 220kV line Bay (Avada) charged on 01.09.22
	± 600 MVAR STATCOM at Fatehgarh-II substation		Available	80%	65%	5%	Aug'22	Jan-23	Awarded in Jun'21. Work Under Progress.
	± 600 MVAR STATCOM at Bhadla-II substation		Available	80%	65%	10%	Aug'22	Jan-23	Awarded in Jun'21. Work Under Progress.
16	Implementation of the 1x500MVA 400/220kV ICT (8th) at Bhadla (PG)						Oct-22	Nov-22	
	1x500MVA 400/220kV ICT (8th) at Bhadla (PG)	1x500	Available	50%	10%		Oct-22	Nov-22	Awarded in Jan'22. Work Under Progress.
17	Implementation of 220kV Bays at Shajahanpur (PG) 400/220kV Substation						Jul-22	Nov-22	
	220kV Extension of Shajahanpur SS (1 no. 220kV Line bay for UPPTCL line)		Available	90%	75%		Jul-22	Nov-22	Awarded in Jan'22. Work Under Progress.
18	Implementation of 400kV bays for RE Generators at Bhadla-II PS & Fatehgarh-II PS		Available				Mar-24	Mar-24	
	1no. 400kV line bay for NTPC at Bhadla-II PS		Available	100%	100%	100%	Oct-22	Jun-22	charged on 24.06.22
	1no. 400kV line bay for Azure at Bhadla-II PS		Available				Mar-23	Mar-23	Awarded in Jun-22
	1no. 400kV line bay for Adani at Bhadla-II PS		Available				Dec-23	Dec-23	Awarded in Jun-22
	1no. 400kV line bay for Azure at Fatehgarh-II		Available				Mar-24	Mar-24	Awarded in Jun-22
19	1no. of 220kV bay at Chamera Pooling Point for 2nd circuit stringing of 220kV Karian-Chamera Pool line						Nov-22	Dec-22	
	1no. 220kV bay at Chamera Pooling Station (GIS)		Available	20%	5%		Nov-22	Dec-22	Work under progress.
20	Implementation of 1x80MVAR, 765kV Spare Reactor at Bhadla-II Substation						Dec-22	Dec-22	
	1x80MVAR, 765kV Spare Reactor at Bhadla-II Substation		Available	60%	5%		Dec-22	Dec-22	Awarded in Jan-22
21	1x500 MVA, 400/220 kV ICT augmentation (3rd) at Sohawal (PG) under system strengthening						Feb-23	Feb-23	
	1x500 MVA, 400/220 kV ICT (3rd) at Sohawal (PG)	1x500	Available	35%	20%		Feb-23	Feb-23	Awarded in Apr-22
22	Augmentation of transformation capacity at 400/220 kV Ludhiana (PG) Substation						Feb'23	May-22	
	Replacement of 1x315MVA, 400/220kV ICT by 1x500MVA, 400/220kV ICT at Ludhiana	1x185	Available	100%	100%	100%	Feb'23	May-22	Commissioned in May'22.
23	220 kV bays at 400 kV substation PG Khatkar (Jind) & Naggal (Panchkula) substation						Sep-23	Sep-23	

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	4 nos. 220kV line bays at Khatkar (Jind)		Available				Jul-23	Jul-23	Awarded in Apr-22.
	2 nos. 220kV line bays at Naggal (Panchkula)		Available	5%			Sep-23	Sep-23	Awarded in Apr-22.
24	Transmission system for evacuation of Power from Pakaldul HEP in Chenab Valley HEPs - LTA System						Apr-25	Apr-25	
	Extesnion at Kishenpur (PG) 400/220kV SS {1 no. 400kV line bay}		Available	10%			Apr-25	Apr-25	Work under progress.
25	Transmission System Strengthening Scheme for Evacuation of Power from Solar Energy Zones in Rajasthan (8.1GW) under Phase-II-Part G1						Sep-23	Sep-23	
	SS Extension at 765/400kV Narela GIS { 4no. 400kV line Bays}		To be aquired				Sep-23	Sep-23	Land to be aquired in Phase-II Part-G under TBCB
26	Augmentation of transformation capacity at 400/220 kV Kurukshetra (PG) Substation & 400/220 kV Patiala Substation						May'23	May-23	
	1x500MVA 400/220kV ICT along with associated bays at Kurukshetra (PG) GIS SS	1x500	Available	3%			Feb'23	Feb-23	Engg. under progress.
	Aug of 1x315MVA 400/220kV ICT to 1x500MVA 400/220kV ICT at Patiala (PG) SS	185	Available	3%			May'23	May-23	Engg. under progress.
27	Transmission System Stregthening for Srinagar-Leh TS						Dec'24	Dec-24	
	220/66kV Drass (GIS) Substation Ext. (2no. 220kV 25MVAR Bus Reactor with associated bays)							Dec-24	Under award.
	220/66kV Alusteng Substation Ext. (1no. 220kV 25MVAR Bus Reactor with associated bays)							Dec-24	Under award.
28	Requirement of 1no. 220kV Line bay at 400/220kV Amritsar (PG) by PSTCL						May'23	May-23	
	1 no. 220kV Line bay at 400/220kV Amritsar (PG) SS Extension							May-23	Under award.
29	Augmentation of transformation capacity at Bhinmal (PG) SS by 1x315MVA 400/220kV ICT (3rd)						Apr'23	Apr-23	
	Shifting of 1x315MVA 400/220kV ICT from Ludiana to Bhinmal (PG) SS							Apr-23	Under award.
	WESTERN REGION							Apr-23	
30	Scheme to control fault level at Wardha substation						Mar'22/ Aug'22/ Nov'22	Dec-22	Project completed.
	400 kV Wardha Substation extension (400kV Bus Splitting at Wardha SS)		Available	100%	100%	100%		Dec-22	Charged with contingency arrangement as per requirement of MSPTCL. Commissioning of complete scheme expected by Dec'22.

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31	Western Region System Strengthening Scheme- XXII						(Dec'20 /Mar'23) //(Mar- 22/Jun'23)	Mar-23	
	Part-II: 400 kV Boisar Substation Extension (Conversion of 80 MVA fixed line reactor at Boisar end of Aurangabad – Boisar 400 kV D/c line to switchable line reactor alongwith NGR bypass arrangement)		Available	100%	100%	100%		May-22	Commissioned in May'22.
32	Western Region System Scheme XIX - POWERGRID Works						Aug'23/ Nov'23	Aug-23	
	Part-A: Additional 400kV outlets from Banaskantha 765/400 kV S/s - 2 nos. of 400kV line bays at Banaskantha (PG) [for termination of LILO of second circuit of Zerda – Ranchodpura 400 kV D/c line at Banaskantha (PG) PS]		Available	100%	100%	100%	Jul'22	Apr-22	Commissioned on 19.04.2022
	Part-B: Additional ISTS feed to Navi Mumbai 400/220 kV substation of POWERGRID - 2 nos. of 400 kV line bays at Padghe (PG) GIS [for termination of Padghe (PG) – Kharghar 400 kV D/c (quad) line]		Available	69%	51%	11%	Aug'23	Aug-23	Work under progress
33	Western Region System Strengthening Scheme- XXIII						Aug-22	Jun-22	Project completed.
	Part A:								
	1x500MVA 400/220kV ICT at Wardha 400/220kV S/S	1x500		100%	100%	100%		Feb-22	Commissioned in Feb'22
	1x500MVA 400/220kV ICT at Seoni 400/220kV S/S	1x500		100%	100%	100%		Mar-22	Commissioned in Mar'22.
	1x500MVA 400/220kV ICT at Morena 400/220kV S/S	1x500		100%	100%	100%		Jun-22	Commissioned in June'22.
	Part-B:						Jan-22		
	Conversion of 50MVA Fixed Line Reactor at Bina (PG) end of Sagar (MP)-Bina (PG) 400kV line into switchable line reactor			100%	100%	100%		Aug-21	Commissioned in Aug-21
34	ICT augmenation at 2x315MVA 400/220kV Shujalpur (PG) Substation						Oct-22	Dec-22	
	1x500MVA, 400/220kV ICT at Shujalpur	1x500		90%	85%	25%	Oct-22	Dec-22	Work under progress
35	Connectivity and LTA for 325MW Wind Project of M/s SBESS Services Projects Pvt Ltd.						Apr-22	Apr-22	Project completed
	1x500MVA, 400/220kV ICT (3rd) & 2 nos of 220kV Hybrid /MTS line bays at Indore (PG) S/Stn	1x500		100%	100%	100%	Apr-22	Apr-22	Commissioned in Apr'22

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36	Transmission Network Expansion in Gujarat to increase its ATC from ISTS (Part-A)						Apr-22	May-22	
	Augmentation of transformation capacity at Vadodara 765/400/220kV S/s by 1x1500MVA, 765/400kV ICT (3rd) along with associated 765kV ICT bay*	1x1500		100%	100%	100%	Apr-22	May-22	Commissioned in May'22.
37	Augmentaion of 1x500MVA 400/220kV ICT (3rd) at Bhatapara (PG)						May-23	May-23	
	1x500MVA 400/220kV ICT (3rd) at Bhatapara (PG)	1x500	Available	28%	12%			May-23	Work under progress.
38	TS strngthening beyond Kolhapur for export of power from Solar & Wind Energy Zones in Southern Region						Feb'23	Feb-23	
	400kV Kolhapur (MSPTCL) Upgradation Upgradation of 2no. 400kV line bays associated with Reconductoring of Kolhapur(PG)-Kolhapur (MSETCL) 400kv D/C line		Available	32%	22%			Feb-23	Work under progress.
39	Scheme to control fault level at Indore Substation						Mar-23	Mar-23	
	Splitting of 400kV Bus at 765/400/220kV Indore SS into two sections (A&B) through 400kV Bus Sectionalizer (GIS) & GIS Bus Duct							Mar-23	Under Award
40	TS for Evacuation of Power from RE Projects in WEZ in Osmanabad Area of Maharashtra (1GW): Conversion of 50MVA Fixed Line Reactors on each ckt of Parli(PG)-Pune (GIS) 400kV D/C Line at Parli (PG) end into Switchable Line Reactors						Jun'23	Jun-23	

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				Civil works compln. (%)	Str. & Eqpt. Received (%)	Str. & Eqpt. Erection (%)	Schedule	प्रत्याशित/ वास्तविक Ant./ Act	
	Conversion of 50MVA Fixed Line Reactors on each ckt of Parli(PG)-Pune (GIS) 400kV D/C Line at Parli (PG) end into Switchable Line Reactors & 2no. 400kV Switchable line Reactor bays		Available	11%				Jun-23	Work under progress
41	Scheme for fault level control at Dehgam(PG) & Rachhodpura(GETCO)						Aug'22	Nov-22	
	Bypassing of Rachhodpura(GETCO) – Dehgam(PG) 400 kV D/c line at Dehgam(PG) S/s and connecting it with Dehgam(PG) – Pirana 400kV D/c line (one circuit via Nicol) so as to from Ranchhodpura(GETCO) – Pirana(PG) 400 kV D/c line (one circuit via Nicol).							Nov-22	Work on hold due to non availability of S/D of 400kV D/C Rachhodpura(GETCO) – Dehgam(PG) by GETCO .
42	Western Region Expansion Scheme-XXVI						Jun'24	Jun-24	
	Creation of 220kV level (GIS) at 765/400kV Shikrapur (PG) GIS SS (1x500MVA 400/220kV ICT & 4no. Line bays for MSETCL lines)	1x500						Jun-24	Under Award.
43	Transmission Network Expansion in Gujarat to increase its ATC from ISTS Part B						Jun'23	Jun-23	

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				Civil works compln. (%)	Str. & Eqpt. Received (%)	Str. & Eqpt. Erection (%)	Schedule	प्रत्याशित/ वास्तविक Ant./ Act	
	Establishment of 765/400/220 kV Navsari (new) (South Gujarat) S/s (GIS) (2x1500MVA 765/400kV ICT & 1 no. 500MVA 765/400kV spare 1 ph unit 3x500MVA 400/220kV ICT 2no. 765kV Line bays & 4no. 400kV line Bays 2x330MVAr 765kV & 1 no. 110MVAr 1ph Spare unit 1x125MVAr 400kV Bus Reactor 1x80MVAr 765kV 1 ph Switchable spare unit for 765kV Ahmedabad-Navsari line) 330MVAr 765kV SLR on each ckt for Nasari-Padghe D/C line 63MVAr 400kV SLR on each ckt for Nasari-Kala D/C line	2x1500 3x500	Available					Jun-23	Awarded. Land development work under progress
	Ext at 400kV Kala (GIS) PG SS (2 no. 400kV line bays)							Jun-23	Awarded.
	Ext at 400kV Magarwada (GIS) PG SS (2 no. 400kV line bays)							Jun-23	Awarded.
	Ext at 765/400kV Padghe (GIS) PG SS (2 no. 400kV line bays) (1x1500MVA 765/400kV ICT, 4no. 765kV line bays (incl. 2 for future)	1x1500						Jun-23	Engg. under progress.
44	Transmission Network Expansion in Gujarat to increase its ATC from ISTS Part C						Mar'25	Mar-25	
	765/400kV Bansakantha (PG) SS Extension 1x1500MVA 765/400kV ICT & 2 no. 400kV line bays	1x1500						Mar-25	Awarded

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	400/220kV Bansakantha (PG) SS Extension 2 no. 400kV line bays							Mar-25	Awarded
45	Western Region Expansion Scheme-XXIV (WRES-XXIV)						Jun'23	Jun-23	
	Conversion of 2X240MVAR non switchable line reactors at Raipur PS (associated with Raipur PS-Champa PS 765kV circuit-1 & 2) into switchable line reactors along with NGR bypass arrangement							Jun-23	Under award.
	SOUTHERN REGION								
46	Transmission System for evacuation of power from Neyveli Lignite Corp. Ltd. TS-1 (Replacement) (NNTPS) in Neyveli, Tamil Nadu.						Jul'19/ Jun'20/ Apr'21/ Jul'21/ Dec'22	Dec-22	
	Extn at 400KV Ariyalur (Villupuram) S/stn. (TANTRANSCO) scope (2 nos. 400 KV line bays)		Available					Dec-22	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 Dec'22
47	HVDC Bipole link between Western Region (Raigarh, Chhattisgarh) and Southern Region (Pugalur, TM) - North Trichur (Kerala) - Scheme-II : AC System Strengthening at Pugalur end*						Feb'20/ Sep'20/ Jun'21/ Sep'21/ Apr'23	Apr-23	* All elements of project have been commissioned progressively by Oct'21 except 4 no. 400kV Bays at Edayarplyam SS (TANTRANSCO) due to its non- readiness (being implemented by TANTRANSCO on deposit work basis) & completion expected by Apr'23.
	Extn at 400KV Pugalur GIS (8 nos. 400 KV line bays)		Available	99%	100%	99%		Oct-21	6 nos. line bays commissioned (4 in Sep'20 & 2 in Jul'21). Balance 2 no. bays commissioned in Oct-21.
	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 Thiruvalam Sub Station (2 nos. 400 KV line bays)		Available	100%	100%	100%		Oct-21	Commissioned in Oct'21
	Extn at 400KV Udumulpet Sub Station (2 nos. 400 KV line bays)		Available	100%	100%	100%		Jul-21	Commissioned in Jul'21.

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	Extn at 400KV Edayarpalayam (TANTRANSCO) Sub Station (4 nos. 400 KV line bays)		Available					Apr-23	Deposit work basis.
48	Transmission system for controlling high Short Circuit Current level at 400 kV Thiruvalem S/S						Aug'21/ Nov'21/ Jun'22	Apr-22	Project completed.
	Extn. at Thiruvalem Substation i. Installation of 12Ω, 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.			100%	100%	100%		Apr-22	Commissioned progressively by Apr'22.
49	Implementation of 1no. 230kV Bay at Tuticorin II GIS PS						Jul-22	Aug-22	
	1no. 230kV Bay at Tuticorin II GIS PS		Available	100%	100%	100%		Aug-22	Bay charged on 29th Jul'22. Deemed DOCO declared as 19.08.22.
50	Augmentation of capacity at Existing Hiriyur and Kochi SS						Oct-22	Dec-22	
	1x500MVA, 400/220kV ICT at Hiriyur SS	1x500		100%	100%	100%		Oct-22	Commissioned on 31.10.22.
	1x500MVA, 400/220kV ICT at Kochi SS	1x500		38%	45%			Dec-22	Work under progress.
51	Regional System Strengthening Scheme to mitigate the overloading of 400kV NP Kunta-Kolar S/C						Oct-22	Dec-22	
	Ext at NP Kunta SS			45%	70%	30%		Dec-22	Work under progress.
	Ext at Kolar SS			30%	62%	5%		Dec-22	Work under progress.
52	1no. 400kV bay at 765/400kV Kurnool (New) Substation						Oct'22/ Sep'23*	Sep-23	*CTUIL vide OM dated 19.04.22 has revised the SCOD date to Sep'23 from Oct'22 due to delay in readiness of generation project of M/s Greenko.
	1no. 400kV bay at 765/400kV Kurnool (New) Substation							Sep-23	Under award.
53	Augmentation of Transformation Capacity in Southern Region						Mar'23	Mar-23	
	1x500MVA 400/220kV ICT (3rd) at Palakkad (PG) SS (2x315MVA already existing)	1x500		4%				Mar-23	Work under progress.
	1x500MVA 400/220kV ICT (3rd) at Kolar (PG) SS (2x500MVA already existing)	1x500		7%				Mar-23	Work under progress.
	1x1500MVA 765/400kV ICT (3rd) at Nizamabad (PG) SS (2x1500MVA already existing)	1x1500		10%				Mar-23	Work under progress.

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54	Evacuation of RE in Tirunelveli & Tuticorin WEZ (TN) 500MW						Mar'23	Mar-23	
	2x500MVA 400/230kV (4th & 5th) ICT at Tuticorin-II GIS Substation	2x500		10%				Mar-23	Work under progress.
55	Augmentation of Transformation capacity by 1X500MVA, 400/220kV ICT (6th) and common facility works at Pavagada (Tumkur) PS						Dec'23	Dec-23	
	Augmentation of Transformation capacity by 1X500MVA, 400/220kV ICT (6th) at Pavagada (Tumkur) PS Implementation of 220kV Bus Sectionalizer along with bus coupler & transfer bus coupler at Pavagada PS	1x500	Available					Dec-23	Under award.
EASTERN REGION									
56	Eastern Region Strengthening Scheme-XII						Jun'19/ Dec'19/ Jun'20/ Sep'21/ Dec'21/ Mar'22	Apr-22	Project completed
	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.
	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.

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	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.	1x315	Available	100%	100%	100%		Apr-22	Charged on 21.04.2022
	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.
57	Eastern Region Strengthening Scheme-XVII (Part-B)						Jun'19/ Sep'20/ Aug'21/ Nov'21/ Apr'22	Dec-22	
	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	100%	100%	100%		Feb-22	Charged on 27.02.2022.
	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	100%	100%	100%		Oct-21	1st ICT commissioned on 15.04.21. 2nd ICT charged in Oct-21
	Extn. at 400/220KV Rourkela S/stn.	630	Available	100%	100%	100%		Feb-21	1st 315 MVA ICT commissioned on 05.12.20. 2nd 315 MVA ICT commissioned on 27.02.21.
	Repl. of 400/220KV Malda S/st. (2x315MVA to 2x500 MVA)	370	Available	100%	100%	100%		21/2/2022	1st ICT commissioned on 29.03.21, 2nd ICT commissioned on 21.02.2022
	Extn. at Maithon (PG) and Maithon (RB)		Available	90%	92%	75%		Dec-22	Work under progress. Shutdown approval expected after monsoon.
	Bypassing arrangement of LILO of 400KV lines at Angul.		Available	100%	100%	100%		Feb-20	Charged in Feb'20.
58	POWERGRID works associated with Eastern Region strengthening Scheme- XVIII						Jul'20/ Dec'20/ Apr'22	Aug-22	Project completed.
	Extension at 765kV Ranchi (New) S/s		Available	100%	100%	100%		Feb-21	Commissioned on 09.02.21.
	Extension at 400kV Subhashgram (New) S/s		Available	100%	100%	100%		Aug-22	Line Bays commissioned on 26.08.22.
59	Eastern Region Strengthening Scheme - XXII						Jan'22/ Apr'22	Nov-22	

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	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	95%	95%	70%		Nov-22	Work under progress, Shutdown constraint
60	Eastern Region Strengthening Scheme - XXIII						Jun'21/ Sep'21/ Jun'22	Apr-22	Project completed
	Extn. at 400/220 kV Muzaffarpur S/S extn including ICT	1x500	Available	100%	100%	100%		Apr-22	Commissioned on 08.04.2022
	Extn. at 400 kV Sahara S/S (4 no. Line Bays)		Available	100%	100%	100%		Apr-22	Charged on 26.04.2022
	Extn. at 400 kV Durgapur S/S		Available	100%	100%	100%		Mar-22	Commissioned on 11.03.2022
	Extn. at 400 kV Kahalgaon S/S (NTPC)		Available	100%	100%	100%		Dec-21	Charged.
61	Eastern Region Strengthening Scheme-XXIV (ERSS-XXIV)		Available				Mar'22/ Jun'22	Nov-22	
	Shifting of 400kV side of 400/220kV, 315MVA ICT-I from Durgapur-A section to Durgapur -B section without physical shifting of ICT such that all three ICTs are on the same 400kV bus section		Available	100%	95%	95%		Nov-22	Work under progress. S/D constraint.
62	Transmission system for power evacuation from Arun-3 (900MW) HEP, Nepal of M/s SAPDC-Indian Portion						Apr'23	Apr-23	
	Extn. At Sitamarhi (POWERGRID) 400/220 KV Substation (2 nos. 400 KV line bays)		Available	40%	60%			Apr-23	Work under progress.
63	Eastern Region Strengthening Scheme-XXVI (ERSS-XXVI)						Feb'23	Feb-23	
	1x500MVA 400/220kV ICT (3rd) at Ranchi (PG) SS	1x500	Available	0%				Feb-23	Work under progress.
64	Eastern Region Strengthening Scheme-XXVII (ERSS-XXVII)						Oct'23	Oct-23	
	Extension at 400kV Alipurdwar (POWERGRID) SS (1x125MVA Bus Reactor)							Oct-23	Under award
	Extension at 400kV Kahalgaon (NTPC) SS (1x63MVA 420kV SLR Reactor with 500ohm NGR each in both circuits Durgapur-Kahalgaon line							Oct-23	Under award
65	Eastern Region Expansion Scheme-XXVIII (ERES-XXVIII)						Dec'23	Dec-23	

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	Installation of 420kV 1X125MVAR bus reactor along with associated bay at Biharsharif (POWERGRID) S/s in the bus section having 1X80MVAR existing bus reactor Note: Upon implementation of the above reactor, split section-A shall have 1X80MVAR+1X125MVAR bus reactors and section B shall have 1X50MVAR+2X125MVAR bus reactors							Dec-23	
66	Provison of Spare ICTs in Eastern Region						Oct'23	Oct-23	
	1x500MVA 400/220kV ICT at 400/220kV Pusauli SS							Oct-23	
	1x500MVA 400/220kV ICT at 400/220kV Pandiabilli SS							Oct-23	
	1x500MVA 400/220kV ICT at 400/220kV Maithon SS							Oct-23	
	1x160MVA 220/66kV ICT at 400/22kV Daltonganj SS							Oct-23	
	1x160MVA 220/66kV ICT at 400/22kV Baripada SS							Oct-23	
	NORTH EASTERN REGION							Oct-23	
67	North Eastern Region Strengthening Scheme -III						Dec'17/ Jun'18/ Mar'21/ Aug'21/ Nov'21/ Dec'22	Dec-22	
	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%		Dec-22	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.
68	North Eastern Region Strengthening Scheme-X						Feb'22/ May'22	Mar-23	
	Extension at 132/33 KV Roing (PG) S/S (2 nos. 132 KV line bays)		Available	80%	80%	65%		Mar-23	
	Extension at 132/33 KV Chapakhowa (AEGCL) S/S (2 nos. 132 KV line bays)		Available	80%	80%	65%		Mar-23	
69	North Eastern Region Strengthening Scheme-XI						Dec'21/ Mar'22/ Jun'22	Dec-22	

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	400 kV, 2x63 MVAR Switchable Line Reactor at Imphal S/s		Available	90%	85%	70%		Dec-22	
	100 MVA, 220/132 kV Transformer (3rd) at Salakati S/s	100	Available	98%	98%	98%		Nov-22	
70	North Eastern Region Strengthening Scheme-XIV						Feb'22/ May'22	Mar'23*	
	4 nos. 400 kV Line Bays at Surajmaninagar (TSECL) S/s		Available					—	*Associated Line shall be charged by Mar-23 through by passing at Surajmaninagar TSESL SS. {Work yet to be started at TSESL Surajmaninagar SS. & bays work shall be completed in line with Substation work }
71	North Eastern Region Strengthening Scheme-IX						May'23/ Aug'23	Dec-22	
	2 nos. 132 kV GIS Line Bays at Nirjuli S/s		Available	85%	75%	20%		Dec-22	
72	North Eastern Region Strengthening Scheme-XIII						Sep'22/ Dec'22	Dec-22	
	Conversion of 132 kV Bus Bar arrangement at Nirjuli S/s		Available	80%	40%	15%		Dec-22	
	Conversion of 132 kV Bus Bar arrangement at Imphal S/s		Available	80%	40%	15%		Dec-22	
73	North Eastern Region Strengthening Scheme-XVII						Jan'23	Jan-23	
	Upgradation of 33kV system of 400/132/33kV Imphal (PG) SS							Jan-23	Under Tendering
74	Provision of Spare Transformer & Reactor in NER						Dec'22	Dec-22	
	Proc.of 1x500MVA 400/220/132kV ICT & 400kV 1x125MVAR Reactor as Regional Spare							Dec-22	
	RTM Projects allocated to SPVs								
	SPV: POWERGRID Southern Interconnector Tx Ltd. (PSITSL)								
75	Scheme to bypass NGR to use Switchable Line Reactor as Bus Reactor at 765kV C'peta						May'22	Nov-22	
	To bypass NGR to use Switchable Line Reactor as Bus Reactor at 765kV C'peta			60%	30%			Nov-22	Work under progress.
76	Requirement of 765 kV spare (1-Ph) Reactors units at 765kV Chilkaluripeta (Part B)						Feb'23	Feb-23	
	765 kV spare (1-Ph) Reactors units at 765kV Chilkaluripeta							Feb-23	Work under progress.
	SPV: POWERGRID Bikaner Tx Sys. Ltd. (PBTSLS)								
77	Implementation of 220 kV bays for RE generators and 400/220kV ICTs at Bikaner II PS						Mar'23- Dec'23	Dec-23	

क्रमांक Sl. No.	सब स्टेशन का नाम Name of the Sub -Station	एम.वी.ए अनुपात MVA Ratio	जमीन की स्थिति Status of land	निर्माण की स्थिति Status of Construction			संपूर्ण लक्ष्य Completion Tgt.		Remarks
				Civil works compln. (%)	Str. & Eqpt. Received (%)	Str. & Eqpt. Erection (%)	Schedule	प्रत्याशित/ वास्तविक Ant./ Act	
	Implementation of 220 kV bays for RE generators and 400/220kV ICTs at Bikaner II PS (2x500MVA 400/220kV ICT & 4no. 220kV Line bays)	2x500						Dec-23	Awarded in Aug'22.
78	Implementation of 1 No. of 400kV line bay at 400/220kV Bikaner-II for interconnection of 1000MW Solar project of SJVN Ltd						Oct'23	Oct-23	
	Implementation of 1 No. of 400kV line bay at 400/220kV Bikaner-II for interconnection of 1000MW Solar project of SJVN Ltd							Oct-23	
Note: As per Ministry of Power, Govt. of India circular no. 3/1/2020-Trans dated 27th July, 2020, all inter-state projects whose SCOD is beyond 25th March, 2020 and which were under construction on 25th									