

CENTRAL ELECTRICITY AUTHORITY
POWER SYSTEM WING
Power System Project Monitoring Division
Sub-Stations Completed During FY - 2024-25

As on 31-Dec-24

SI No	Name of Sub Stations	Voltage Ratio (kV/kV)	Executing Agency	Capacity (MW/MVA)	Month of Completion
1.	2.	3.	4.	5.	6.
765 kV					
<u>CENTRAL SECTOR</u>					
1	1x1500MVA ICT at Padghe (GIS) Trans. Network Expansion in Gujarat to increase ATC from ISTS Part B	765/400	PGCIL	1500	JUN-24
2	1X1500 MVA 765/400 KV (5th) ICT at Fatehgarh-II PS (Rajasthan (8.1 GW) under Phase II- Part-A1)	765/400	PGCIL	1500	JUL-24
3	1X1500 MVA 765/400 kV ICT (4th) at 765/400 kV Bhadla-II PS under (Phase -II Part -BI)	765/400	PGCIL	1500	SEP-24
4	1X1500MVA 765/400 KV ICT-3rd at Raigarh Kotra Section-A)	765/400	PGCIL	1500	OCT-24
5	1x1500 MVA 765/400kV ICT-1 at Sikar-II s/s (Rajasthan (8.1 GW) under phase-II- Part C)	765/400	PGCIL	1500	OCT-24
6	1x1500 MVA 765/400kV ICT-2 at Sikar-II s/s (Rajasthan (8.1 GW) under phase-II- Part C)	765/400	PGCIL	1500	OCT-24
7	Banaskantha SS (Transmission network expansion in Gujarat to increase its ATC from ISTS Part C)	765/400	PGCIL	1500	NOV-24
	TOTAL CENTRAL SECTOR			10500	
<u>STATE SECTOR</u>					
8	Ariyalur (1500 MVA ICT-II)	765/400	TANTRANSCO	1500	DEC-24
	TOTAL STATE SECTOR			1500	
	TOTAL 765 kV			12000	

SI No	Name of Sub Stations	Voltage Ratio (kV/kV)	Executing Agency	Capacity (MW/MVA)	Month of Completion
1.	2.	3.	4.	5.	6.
400 kV					
<u>CENTRAL SECTOR</u>					
9	1X500 MVA 400/220 kV ICT-1 at Bikaner-II PS (Phase-IV (Part 1) Bikaner Complex- PART E	400/220	PGCIL	500	MAY-24
10	1X500MVA ICT(4TH) at ARASUR s/s (Aug. of T/F Capacity by 500 MVA ICT(4th) at Arasur)	400/230	PGCIL	500	JUN-24
11	Shifting of ICT from Ludiana to Bhinmal(PG) SS (Aug. of T/F capacity at Bhinmal (PG) SS by ICT 3rd)	400/220	PGCIL	315	JUN-24
12	1X500 MVA, 400/220 kV ICT-2 at Bikaner-II PS (Phase-IV (Part 1) Bikaner Complex- PART E)	400/220	PGCIL	500	JUL-24
13	1x500 MVA 400/220 kV ICT 3rd at Bikaner PS to Cater N-1 Contingency at Bikaner PS (Rajasthan)	400/220	PGCIL	500	AUG-24
14	1X500 MVA 400/220 kV (2nd) ICT at Shikrapur (PG) GIS under Western Region Expansion Scheme-XXVI	400/220	PGCIL	500	AUG-24
15	220KV GIS Infrastructure at MTPS	400/220	DVC	315	AUG-24
16	1x500 MVA ICT (3rd) at 400/220 kV Bahadurgarh (PG) S/s under Aug. of ISTS of HVPNL TS	400/220	PGCIL	500	SEP-24
17	1X500 MVA, 400/220 kV (1st) ICT at Shikrapur (PG) GIS under Western Region Expansion Scheme-XXVI	400/220	PGCIL	500	SEP-24
18	1X500 MVA, 400/220 kV (2nd) ICT at Raipur Pool S/s (WRES XXVIII (Project: WRES-XXVIII & WRES-XXIX)	400/220	PGCIL	500	SEP-24
19	1X500 MVA, 400/220 kV (4th) ICT at Mysore under Aug. of transformation capacity at Mysore	400/220	PGCIL	500	SEP-24
20	Aug. by 1x500 MVA 400/220 kV ICT (3rd) at 400/220 kV Jind (PG) S/s under Aug. of ISTS for HVPNL TS	400/220	PGCIL	500	SEP-24
21	1X500 MVA, 400/220 kV (1st) ICT at Raipur Pool S/s (WRES XXVIII (Project: WRES-XXVIII & WRES-XXIX)	400/220	PGCIL	500	SEP-24

SI No	Name of Sub Stations	Voltage Ratio (kV/kV)	Executing Agency	Capacity (MW/MVA)	Month of Completion
1.	2.	3.	4.	5.	6.
22	1X500MVA ICT-2 at Banka S/S along with Extn. of 400KV AIS Switch. and creation of 220KV GIS at Banka	400/220	PGCIL	500	OCT-24
23	1X500MVA ICT-1 at Banka S/S along with Extn. of 400KV AIS Switch. and creation of 220KV GIS at Banka	400/220	PGCIL	500	OCT-24
24	220 kV GIS Infrastructure at RTPS	400/220	DVC	630	NOV-24
25	1X500 MVA 400/220 kV ICT-3 at Bikaner II PS (Phase-IV (Part 1) Bikaner Complex- PART E)	400/220	PGCIL	500	NOV-24
26	1X500 MVA, ICT-1 at Dharamjaigarh S/s (WRES XXIX {Project name: WRES-XXVIII & WRES-XXIX})	400/220	PGCIL	500	DEC-24
27	1X500 MVA, (3rd) ICT at Raipur Pool S/s (WRES XXVIII {Project name: WRES-XXVIII & WRES-XXIX})	400/220	PGCIL	500	DEC-24
28	1X500 MVA 400/220kV ICT-4 at Bikaner-II PS (Phase-IV (Part 1) Bikaner Complex- PART E)	400/220	PGCIL	500	DEC-24
TOTAL CENTRAL SECTOR				9760	
STATE SECTOR					
29	Vellalaviduthi (T/F-I) (400/110 (2X200 MVA)	400/110	TANTRANSCO	200	APR-24
30	400 kV S/s Dahi Chaoki Unnao (Capacity Aug.) (500-315)	400/220	UPPTCL	185	APR-24
31	Kamalapuram Substation (3rd ICT)	400/220	TSTRANSCO	315	APR-24
32	Sriperumbudhur 400/230-110 kV SS- capacity enhancement from 3x315 MVA to 3x315MVA+ 1x500MVA	400/230	TANTRANSCO	500	MAY-24
33	400 kV S/s Machhalishahar Jaunpur (New) T/F-III	400/220	UPPTCL	315	MAY-24
34	Thiruvalem 400/230 KV SS- Capacity enhancement from 2x315 to 2x315 + 1x500 MVA	400/230	TANTRANSCO	500	MAY-24
35	Alamathy 400/230-110 kV SS (enhancement of capacity at from 2x200 MVA to 3x200 MVA	400/110	TANTRANSCO	200	JUN-24
36	400 kV S/s Motiram Adda Gorakhpur Capacity Aug. (500-240) T/F-II	400/220	UPPTCL	260	JUN-24

SI No	Name of Sub Stations	Voltage Ratio (kV/kV)	Executing Agency	Capacity (MW/MVA)	Month of Completion
1.	2.	3.	4.	5.	6.
37	Kayathar 400/230-110 KV SS	400/110	TANTRANSCO	200	JUL-24
38	400 kV S/S Ropar (1x500 MVA) 1st T/F	400/220	PSTCL	500	AUG-24
39	400 kV S/S Ropar (1x500 MVA) 2nd T/F	400/220	PSTCL	500	AUG-24
40	New Chanditala (4th ICT)	400/220	WBSETCL	315	OCT-24
41	Bhopal 400 kV SS (replacement of 315 MVA by 500 MVA T/F)	400/220	MPPTCL	185	NOV-24
42	400 kV S/S Nakodar	400/220	PSTCL	500	NOV-24
43	Vellalaviduthi (400/110 kV T/F-II)	400/110	TANTRANSCO	200	NOV-24
44	Sriperumbudur 400/230 kV SS (enhancement from 3x315+1x500 MVA to 2x315+2x500 MVA)	400/230	TANTRANSCO	185	NOV-24
45	Latehar SS (2X315 MVA T/F)	400/220	JUSNL	630	DEC-24
46	Jammalamadugu SS in Kadapa Dist	400/220	APTRANSCO	500	DEC-24
47	400 kV GSS Pachpadra	400/220	RVPNL	500	DEC-24
48	400 kV Khadka S/s (3x105 MVA ICT)	400/220/33	MSETCL	315	DEC-24
	TOTAL STATE SECTOR			7005	
PRIVATE SECTOR					
49	Vapi -II (Western Region Strengthening Scheme-XIX (WRSS-XIX and NERSS - IX)	400/220	STERLITE	1000	SEP-24
50	Gadag PS (Trans Scheme for Solar Energy Zone in Gadag (1000 MW) Karnataka Part-A Phase-I)	400/220	RENEW	1000	SEP-24
51	Xeldem New SS (GTTPL - TBCB)	400/220	STERLITE	1000	OCT-24
52	Augmentation of transformation capacity 1X500 MVA ICT (3rd) at patran (GIS) S/s (RTM)	400/220	INDIGRID	500	DEC-24
	TOTAL PRIVATE SECTOR			3500	
	TOTAL 400 kV			20265	
230 kV					
STATE SECTOR					
53	Siruseri 230 KV SS (enhancement of capacity	230/110	TANTRANSCO	100	JUN-24

SI No	Name of Sub Stations	Voltage Ratio (kV/kV)	Executing Agency	Capacity (MW/MVA)	Month of Completion
1.	2.	3.	4.	5.	6.
	from 2x100MVA to 3x100MVA)				
54	Karuppur (T/F- II)	230/110	TANTRANSCO	100	JUN-24
55	Selvapuram 230/110 kV SS (T/F-I)	230/110	TANTRANSCO	100	JUL-24
56	Karaikudi 230/110 kV SS (50 MVA to 100MVA enhancement)	230/110	TANTRANSCO	50	AUG-24
57	Mondipatty SS (replacement of 80 MVA T/F with 100 MVA)	230/110	TANTRANSCO	20	NOV-24
	TOTAL STATE SECTOR			370	
	TOTAL 230 kV			370	
220 kV					
<u>CENTRAL SECTOR</u>					
58	1X200 MVA 220/132 kV (4th) ICT at Ara POWERGRID S/S under ER Expansion Scheme-XXXVI (ERES-XXXVI)	220/132	PGCIL	200	AUG-24
	TOTAL CENTRAL SECTOR			200	
<u>STATE SECTOR</u>					
59	GIS Timarpur (100 MVA T/F)	220/33	DTL	100	APR-24
60	220/132 kV SS Madanapalli in Chittoor Dist. (3X100-2X100)	220/132	APTRANSCO	100	APR-24
61	Jakkanpur (GIS) s/s (160 MVA T/F-II)	220/132	BSPTCL	160	APR-24
62	220KV Chormar (100 MVA T/F)	220/132	HVPNL	100	APR-24
63	220kV I.A. Hisar (160-100)	220/132	HVPNL	60	APR-24
64	220 kV S/s Khurja (Capacity Augmentation 160 MVA T/F-III)	220/132	UPPTCL	160	APR-24
65	220 kV S/s Sangipur (New) 160 MVA T/F-II	220/132	UPPTCL	160	APR-24
66	220 kV S/s Sirathu (Capacity Aug. 160 MVA T/F-III)	220/132	UPPTCL	160	APR-24
67	220 kV S/s Kanpur South (Capacity Augmentation 60 MVA T/F-III)	220/33	UPPTCL	60	APR-24

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1.	2.	3.	4.	5.	6.
68	220 kV S/S Bhari (Addl. 100 MVA 220/66 kV PT/f)	220/66	PSTCL	100	APR-24
69	220 kV S/S Botianwala (Addl. 100 MVA 220/66 kV PT/f)	220/66	PSTCL	100	APR-24
70	Bairagarh (Bhopal) 220 KV S/s Addl. 1x160MVA X-mer	220/132	MPPTCL	160	MAY-24
71	HSIIDC Rai Sonapat 220/33 kV T/F-I	220/33	HVPNL	100	MAY-24
72	220 kV S/s Bhadoura Ghazipur (New) T/F-II	220/132	UPPTCL	100	MAY-24
73	220kV Jambhul (Additional T/F)	220/22	MSETCL	50	MAY-24
74	HSIIDC Rai Sonapat 220/132 kV T/F-II	220/132	HVPNL	160	MAY-24
75	220 kV S/s Khorabar Gorakhpur (New) T/F-II	220/33	UPPTCL	60	MAY-24
76	220 kV S/s Mainpuri (Capacity Augmentation) T/F-III (160-100)	220/132	UPPTCL	60	MAY-24
77	Sonta ss (160-100 MVA)	220/66	HVPNL	60	MAY-24
78	220kV GSS Bap (Additional T/F)	220/132	RVPNL	160	MAY-24
79	220 kV S/S Banur (Aug. of 1x100 MVA T/F with 1x160 MVA T/F)	220/66	PSTCL	60	MAY-24
80	Addl 100 MVA 220/66 KV T/F at 220 KV S/S Naraingarh (N-1)	220/66	PSTCL	100	MAY-24
81	220KV SS Pallantla in West Godavari Dist. (2 x100-1x100)	220/132	APTRANSCO	100	MAY-24
82	220 kV S/s Maharajganj (New) T/F-II	220/132	UPPTCL	160	MAY-24
83	Addl 100 MVA 220/66 KV T/F at 220 KV S/S Badhshahpur	220/66	PSTCL	100	MAY-24
84	220/33 KV GSS Balichandrapur Palei	220/33	OPTCL	20	MAY-24
85	Jakkanpur (GIS) s/s (160 MVA T/F-III)	220/132	BSPTCL	160	MAY-24
86	220 kV S/s Jahangirabad Bulandshahr (Capacity Augmentation) T/F-III	220/132	UPPTCL	160	MAY-24
87	220kV Chalisgaon Substation(1x200 MVA Additional T/F)	220/132	MSETCL	200	MAY-24
88	220 kV S/s Hata Kushinagar (Capacity Augmentation) (160-100)	220/132	UPPTCL	60	MAY-24
89	Aug. of 100MVA 220/66kV T/F to 160MVA	220/66	PSTCL	60	MAY-24

SI No	Name of Sub Stations	Voltage Ratio (kV/kV)	Executing Agency	Capacity (MW/MVA)	Month of Completion
1.	2.	3.	4.	5.	6.
	220/66kV T/F at 220kV S/Stn Bajakhana				
90	Penukonda (Gorantla) (GEC-I)	220/132	APTRANSCO	160	MAY-24
91	220/132/33 kV AIS at Andheri (Kala Amb) District Sirmaur H.P.	220/132	HPPTCL	200	MAY-24
92	Krishnagiri S/s (T/F-II)	220/33	APTRANSCO	50	JUN-24
93	Aug 100 to 160 MVA at 220 KV S/S Kartarpur	220/66	PSTCL	60	JUN-24
94	220/33kV New Timber Market GIS (Panvel -II)(50 MVA T/F)	220/33	MSETCL	50	JUN-24
95	220kV SS Kuppam in Chittoor District (3x100-2x100)	220/132	APTRANSCO	100	JUN-24
96	Patan (Upgradation of existing 132/33 KV S/s by 220/132 KV S/s)	220/132	CSPTCL	320	JUN-24
97	220/132/33kV Ajaygarh S/s (TBCB)	220/132	MPPTCL	320	JUN-24
98	220 kV S/s Knowledge Park-5 Gr. Noida GB Nagar (New) T/F-II	220/132	UPPTCL	160	JUN-24
99	HSIIDC Rai Sonapat (220/33 kV 100 MVA T/F-II) (charged on 02-05-2024 however late reported by HVPNL)	220/33	HVPNL	100	JUL-24
100	220 kV GSS Khinvsar (replacement of 100 MVA T/F with 160 MVA T/F)	220/132	RVPNL	60	JUL-24
101	220 kV S/s Metro Depot Gr. Noida GB Nagar (New) T/F-I and T/F-II	220/132	UPPTCL	320	JUL-24
102	220 kV S/s Kanduni Sitapur (New) T/F-II	220/132	UPPTCL	200	JUL-24
103	220 kV S/s Darshan Nagar Ayodhya (New) T/F-I	220/132	UPPTCL	160	JUL-24
104	220 kV SS AP Carbides in Kurnool District (3x160+1x100 - 2x160 +1x100)	220/132	APTRANSCO	160	JUL-24
105	Construction of Begamganj SS (TBCB) (charged on 24-04-2024 however late reported by MPPTCL)	220/132	MPPTCL	320	JUL-24
106	220kV Walchandnagar substation (replacement of 100 MVA by 200 MVA T/F)	220/132	MSETCL	100	JUL-24
107	220/132/33kV Kuarnmunda GSS (2nd 160 MVA Auto transformer)	220/132	OPTCL	160	JUL-24

SI No	Name of Sub Stations	Voltage Ratio (kV/kV)	Executing Agency	Capacity (MW/MVA)	Month of Completion
1.	2.	3.	4.	5.	6.
108	220/132/33KV Turmunga GSS (1st 160 MVA Auto Transformer)	220/132	OPTCL	160	JUL-24
109	Aug. of 100 MVA T/F to 160 MVA T/F at 220 kV SS Mandi Gobindgarh G-3	220/66	PSTCL	60	JUL-24
110	220 kV S/S Gurdaspur (1x100 MVA) (Upgraded from 132 KV to 220 KV)	220/66	PSTCL	100	JUL-24
111	220 kV Talangpor	220/66	GETCO	60	JUL-24
112	220kV GIS Substation at Timarpur (100 MVA T/F-II)	220/33	DTL	100	JUL-24
113	220 kV Besan	220/66	GETCO	320	AUG-24
114	220kV Samain	220/33	HVPNL	100	AUG-24
115	220 kV Tembhurni substation (replacement of 25 MVA by 100 MVA T/F)	220/33	MSETCL	25	AUG-24
116	220 kV Nalasopara substation (additional 100 MVA T/F)	220/22	MSETCL	100	AUG-24
117	Food Park (T/F-II) 220 KV GIS	220/132	WBSETCL	160	AUG-24
118	Food Park (T/F-I) 220 KV GIS	220/132	WBSETCL	160	AUG-24
119	220 kV S/s Pahadi Chitrakoot (Capacity Augmentation)	220/132	UPPTCL	160	AUG-24
120	220 kV GSS Heerapura (replacement of 100 MVA T/F with 160 MVA)	220/132	RVPNL	60	AUG-24
121	220 kV Sandhwan S/s	220/66	PSTCL	100	SEP-24
122	Keonics (Electronic City): 2x150 MVA ICT	220/66	KPTCL	300	SEP-24
123	220 kV GIS Transport Hub, Sector-8 IMT Manesar	220/66	HVPNL	100	SEP-24
124	220/33 kV Shendra GIS (DMIC)(2X50 MVA T/F)	220/33	MSETCL	100	SEP-24
125	220 kV Jeur (Replacement of 100 MVA T/F with 200 MVA T/F)	220/132	MSETCL	100	SEP-24
126	220 kV GSS Nimbahera (replacement of existing 100 MVA T/F with 160 MVA T/F)	220/132	RVPNL	60	SEP-24
127	220 kV S/s Debai Bulandshaher (Capacity Augmentation)	220/132	UPPTCL	160	SEP-24
128	Sawai Madhopur (100 to 160 MVA)	220/132	RVPNL	60	OCT-24

SI No	Name of Sub Stations	Voltage Ratio (kV/kV)	Executing Agency	Capacity (MW/MVA)	Month of Completion
1.	2.	3.	4.	5.	6.
129	Bharatpur (100 to 160 MVA)	220/132	RVPNL	60	OCT-24
130	Banar GIS (Distt. Jodhpur)	220/132	RVPNL	200	OCT-24
131	Bhimadole Aug. (100 to 160MVA)	220/132	APTRANSCO	60	OCT-24
132	220 kV GIS S/s Badaun Road Bareilly (New) GIS	220/33	UPPTCL	60	OCT-24
133	220 kV Jambuva (Augmentation from 260 MVA to 420MVA)	220/66	GETCO	160	NOV-24
134	220 kV Suva (late reported, commissioned in October-2024)	220/66	GETCO	160	NOV-24
135	220 kV SS Sandhaur (late reported, commissioned in October-2024)	220/66	PSTCL	100	NOV-24
136	220/33 kV New Timber Market GIS (Panvel -II)	220/33	MSETCL	50	NOV-24
137	220 kV SS Nansuralla in Kurnool District (Additional 50 MVA T/F)	220/33	APTRANSCO	50	NOV-24
138	Bethamcherla in Kurnool District (GEC-I)	220/132	APTRANSCO	160	NOV-24
139	Addl. 100 MVA 220/66 kV T/F at 220 kV Badni Kalan SS	220/66	PSTCL	100	NOV-24
140	AB Zone 220 KV GIS (upgraded to 220 kV from 132 kV)	220/132	WBSETCL	320	NOV-24
141	220 kV GSS Balotra (replacement of 100 MVA T/F with 160 MVA T/F)	220/132	RVPNL	60	NOV-24
142	Somasamudra SS (2X100 MVA T/F)	220/110	KPTCL	200	NOV-24
143	220 kV SS Civil line Amritsar (late reported, commissioned in October-2024)	220/132	PSTCL	100	NOV-24
144	Nagda 220 kV SS (replacement of 160 MVA by 200 MVA T/F)	220/132	MPPTCL	40	NOV-24
145	Augmentation at 220 kV Masudpur SS	220/132	HVPNL	100	NOV-24
146	220 kV GIS SS Badaun Road Bareilly (T/F-II)	220/33	UPPTCL	60	NOV-24
147	Parchanpal (Jagdapur) SS (late reported, commissioned in October-2024)	220/132	CSPTCL	160	NOV-24
148	220 kV Fatehabad (augmentation from 100 to 160 MVA)	220/132	HVPNL	60	DEC-24
149	220 kV Jhunjhunu GSS (replacement of 100 MVA T/F by 160 MVA)	220/132	RVPNL	60	DEC-24

SI No	Name of Sub Stations	Voltage Ratio (kV/kV)	Executing Agency	Capacity (MW/MVA)	Month of Completion
1.	2.	3.	4.	5.	6.
150	Sirsaganj Firozabad S/s (Capacity Augmentation)	220/132	UPPTCL	160	DEC-24
151	220 kV Rajpura SS (Aug. of 100 MVA by 160 MVA)	220/66	PSTCL	60	DEC-24
152	220 kV Gurdaspur SS (T/F-II)	220/66	PSTCL	100	DEC-24
153	GIS Sector-15 II Gurugram (T/F-I)	220/66	HVPNL	160	DEC-24
154	220 kV Rangala Rajpur (additional 100 MVA)	220/66	HVPNL	100	DEC-24
155	220/66 kV Heiling Sub-Station	220/66	HPPTCL	100	DEC-24
156	Mera (Mithi Paldi) (T/F-II) (late reported commissioned in Nov-2024)	220/66	GETCO	160	DEC-24
157	220 kV Jamla (Aug. from 410 MVA to 520 MVA)	220/66	GETCO	110	DEC-24
158	220 kV Chandrapura (Aug. from 360 to 470 MVA)	220/66	GETCO	110	DEC-24
159	Balichandarpur Palei GSS (T/F-II)	220/33	OPTCL	40	DEC-24
160	220 kV Vairag S/s (replacement of 2X25 MVA by 2X50 MVA T/F)	220/33	MSETCL	50	DEC-24
161	220 kV Bhigwan S/s (replacement of 25 MVA by 50 MVA T/F)	220/33	MSETCL	25	DEC-24
162	Punganur SS in Chittoor Dist. (T/F-I)	220/132	APTRANSCO	100	DEC-24
163	Construction of 220/132 kV substation at Bargawan (TBCB) (late reported commissioned in Sept-2024)	220/132	MPPTCL	320	DEC-24
164	Lohardaga GSS	220/132	JUSNL	300	DEC-24
165	220 kV Rohtak (augmentation from 100 to 160 MVA)	220/132	HVPNL	60	DEC-24
	TOTAL STATE SECTOR			13170	
PRIVATE SECTOR					
166	Nangalbibra 220/132 kV (2x160MVA)	220/132	STERLITE	320	OCT-24
	TOTAL PRIVATE SECTOR			320	
	TOTAL 220 kV			13690	
	GRAND TOTAL			46325	