	Status of margins	All figures are in MW (as on 31-12-2024)										
Name of station	Existing / UC/ Planned MVA Capacity	Capacity	Aditional Margin on existing / UC system		Line Bays required for RE integration		Additional Margin with ICT Augmentation		Line Bays required for RE integration		No. of Trfs required for	Remarks
Name of Station	LAISTING / OC/ Flamed WVA Capacity	Process (MW)	220kV level	400kV level	220kV level	400kV level	220kV level	400kV level	220kV level	400kV level	RE integration	Remarks
Maharashtra												
Aurangabad 765/400/220kV	2x1500MVA, 765/400kV 2x315MVA, 400/220kV	0	0	0	0	0	0	0	0	0	0	Overloading in 220kV downstream network.
Kolhapur 400kV	400kV Switching Station	0	0	0	0	0	0	0	1	0	0	Overloading observed in 400kV Kolhapur (PG)- Kolhapur(MSETCL) D/c line.
Parli (PG) 400/220kV	2x500MVA, 400/220kV	300	0	0	0	0	0	0	0	0	0	300MW capacity has been allocated at Parli (PG) S/s. Overloading in 220kV downstream & Parli 400kV network.
		Total MAH:	0	0	0	0	0	0	1	0	0	0
Madhya Pradesh												
Khandwa 400/220kV	2x315+1x500MVA, 400/220kV	300	0	0	0	0	0	0	0	0	0	300MW Stage-II connectivity & 300MW LTA from Masaya Solar at Khandwa has also been granted.  Overloading in 220kV downstream network.
Indore 765/400/220kV	2x500MVA, 400/220kV + (1x500MVA with sectionalisation at 220kV for RE injection)	924.4	150.6	400	1	1	0	0	0		0	324.4MW LTA has been granted on 1x500MVA with sectionalisation at 220kV for RE injection & 600MW has been granted on 400kV bay
Jabalpur PS 765/400	2x1500MVA 765/400kV	0	0	0	0	0	0	0	0	0	0	765/400kV ICT overloading.
Rajgarh 400/220kV	2x315MVA, 400/220kV+ (2x500MVA with sectionalisation at 220kV for RE injection)	1092	0	0	3	0	0	0	0	0	2	Margins at 220kV bay of Srpng: 298.24MW has been granted / agreed for grant to M/s Sprng. Overloading in 220kV downstream network.  Margins at 400/220kV ICT-III& IV: 793.6MW has been granted/agreed/received at extended 220kV bus of Rajgarh S/s through addl. 400/220kV, 500MVA ICT(s) for RE injection.  About 155MW MARGIN EXIST FOR WHICH 200MW APPLICATION HAS BEEN RECEIVED. MATTER IS UNDER DELIBERATION WITH APPLICANT.
		Total MP:	150.6	400	4	1	0	0	0	0	2	550.6
Chhattisgarh												
Dharamjaygarh 765/400kV	2x1500MVA 765/400kV	0	0	900	0	1	0	0	0	0	0	765/400kV ICT overloading.
Champa 765/400kV	6x1500MVA 765/400kV	0	0	1500	0	2	0	0	0	0	0	765/400kV ICT overloading.
Bilaspur PS 765/400kV	3x1500MVA 765/400kV	0	0	1000		1	0	0	0	0	0	765/400kV ICT overloading.
		Total Chhat:	0	3400	0	4	0	0	0	0	0	3400
		Total WR	150.6	3800	4	5	0	0	1	0	2	3950.6

	All figures are in MW (as on 31-12-2024)											
Name of station	Existing / UC/ Planned MVA Capacity	Capacity	Aditional Margin on existing / UC system		Line Bays required for RE integration		Additional Margin with ICT Augmentation		Line Bays required for RE integration		No. of Trfs required for	Remarks
ivalile of station	LAISTING / OC/ Flaimed WVA Capacity	Process (MW)	220kV level	400kV level	220kV level	400kV level	220kV level	400kV level	220kV level	400kV level	RE integration	Remarks
Andhra Pradesh												
Kurnool (New) 765/400kV	2X1500 MVA, 765/400 kV	2714	0	0		1	0	250		0	1	
		Total AP:	0	0	0	1	0	250	0	0	1	250
Karnataka												
Hiriyur 400/220kV	2x315 MVA, 400/220 kV + 1x500 MVA, 400/220 kV	600.3	0	0	0		0	0		0	0	
		Total Kar:	0	0	0	0	0	0	0	0	0	0
Kerala												
Palakkad (400/220kV)	2x315 MVA, 400/220 kV + 1x500 MVA, 400/220 kV	0	300	0	2	0	0	0	2	0	0	
		Total Ker:	300	0	2	0	0	0	2	0	0	300
Tamil Nadu												
Pugalur(Existing) 400/230kV	2X315 MVA + 1X500 MVA, 400/230 kV	655	0	0			0	0			1 (1	Pugalur(Existing) has been closed for all purpose regarding grant of Connectivity.
Malekottaiyur(Kalive ndapattu) 400/230kV	2X315 MVA + 1X500 MVA, 400/230 kV	NIL	500	0	2		0	0		0	0	
Nagapattinam PS 765/400kV	Charged at 400 kV	NIL	0	1000		2	0	0		0	0	
		Total TN:	500	1000	2	2	0	0	0	0	0	1500
		Total SR	800	1000	2	3	0	250	0	0	1	2050
Rajasthan												
Chittorgarh 765/400kV	765/400kV : 2x1500MVA	NIL	0	0	0	0	0	0	0	0	0	
Ajmer 765/400kV	765/400kV : 2x1500MVA	NIL	0	0	0	0	0	0	0	0	0	
Bassi	400/220 kV : 2x315MVA +1x500MVA	NIL	0	0	0	0	0				0	220kV overloading
Bhiwadi	400/220 kV : 3x315MVA	NIL	0	0	0	0	0				0	220kV overloading
Kankroli	400/220 kV : 3x315MVA	NIL	0	0	0	0	0				0	220kV overloading
Kota	400/220 kV : 2x315MVA	NIL	0	0	0	0	0				0	220kV overloading
Bhinmal	400/220 kV : 2x315MVA+1x315 MVA UC	NIL	0	0	0	0	0	0	0	0	0	220kV overloading
Neemarana	400/220 kV : 1x315MVA +1x500MVA	NIL	0	0	1	0	0	0	0	0	0	220kV overloading
Sikar	400/220 kV : 2x315MVA +1x500MVA	NIL	0	0	0	0	0				0	220kV overloading
Jaipur (South)	400/220 kV : 2x500MVA	NIL	400	0	1	0	0	0	0	0	0	

Status of margins available at existing ISTS substations (non RE) for proposed RE integration												All figures are in MW (as on 31-12-2024)
Name of station	Existing / UC/ Planned MVA Capacity	Capacity Allocated/ Under	Aditional Margin on existing / UC system		Line Bays required for RE integration		Additional Margin with ICT Augmentation		Line Bays required for RE integration		No. of Trfs required for	
		Process (MW)	220kV level	400kV level	220kV level	400kV level	220kV level	400kV level	220kV level	400kV level	RE integration	Nemone.
Kotputli	400/220 kV : 2x315MVA+1X500MVA (Planned)	NIL	150	0	1	0	0	0	0	0	0	
		Total RAJ	550	0	3	0	0	0	0	0	0	550
aryana												
Kaithal	400/220 kV : 3X315MVA	NIL	150	0	1	0	0	0	0	0	0	
Panchkula	400/220 kV : 2X315MVA+500MVA	NIL	0	0	0	0	500	0	0	1	1	
Bahadurgarh	400/220 kV : 315MVA +500MVA+500MVA (UC)	NIL	150	0	1	0	0	0	0	0	0	
Sonepat	400/220 kV : 2x315MVA	NIL	0	0	0	0	500	0	0	1	1	
Manesar	400/220 kV : 2X500MVA	NIL	0	0	1	0	0	0	0	0	0	400/220kv ICT over loading
		Total HARY	300	0	3	0	1000	0	0	2	2	1300
Jttar Pradesh												
(anpur(New)	765/400 kV : 2x1500MVA+1x1500	NIL	0	1250	0	1	0	0	0	0	0	220kV Not available
Fatehpur	765/400kV : 2x1500MVA; 400/220 kV : 2X315MVA	NIL	0	0	0	0	500	0	0	1	1	
Mainpuri	400/220 kV : 2x315MVA +500MVA	NIL	150	0	1	0	0	0	0	0	0	
Sohawal	400/220 kV : 2x315MVA +500MVA	NIL	100	0	1	0	0	0	0	0	0	
Lucknow (new)	765/400 kV : 2x1500MVA	NIL	0	500	0	1	0	0	0	0	0	
Balia	765/400 kV : 2x1500MVA	NIL	0	850	0	1	0	0	0	0	0	220kV Not available.
Bareilly(New)	765/400 kV : 2x1500MVA	NIL	0	500	0	1	0	0	0	0	0	
/aranasi	765/400 kV : 2x1500MVA	NIL	0	500	0	1	0	0	0	0	0	
		Total UP	250	3600	2	5	500	0	0	1	1	4350
		Total NR	1100	3600	8	5	1500	0	0	3	3	6200
<mark>)disha</mark>												
eypore	400/220kV: 2x630MVA		500	0	0		0	0	0		0	
(eonjhar	400/220kV: 2x315MVA	0	300	0	1		0	0	0	0	0	

Status of margins available at existing ISTS substations (non RE) for proposed RE integration												All figures are in MW (as on 31-12-2024)
Name of station		Capacity	Aditional Margin on existing / UC system		Line Bays required for RE integration		Additional Margin with ICT Augmentation		Line Bays required for RE integration		No. of Trfs required for	
Name of Station	Existing / UC/ Planned MVA Capacity	Allocated/ Under Process (MW)	220kV level	400kV level	220kV level	400kV level	220kV level	400kV level	220kV level	400kV level	RE integration	Remarks
Pandiabil	400/220kV: 2x500MVA	0	400	0	3		0	0	0	0	0	
Rengali	400/220kV: 2x315MVA	0	100	0	1		0	0	0	0	0	
Angul	765/400: 4x1500MVA	0	0	2500		2	0	0	0	0	0	
Total		Total Od:	1300	2500	5	2	0	0	0	0	0	3800
<b>Jharkhand</b>												
Chaibasa	400/220kV: 2x315MVA	0	400	0	2		0	0	0	0	0	
Daltonganj	400/220kV: 2x315MVA	0	400	0	1		0	0	0	0	0	
Ranchi	400/220kV: 2x315MVA + 1x500MVA		800		0		400	0	0			Additional 400MW would be available after commissioning of 3rd 400/220kV, 500MVA ICT at Ranchi (expected by Feb 2023)
Ranchi (New)	765/400kV: 2x1500MVA	0	0	900		1	0	0	0	0	0	
Chandwa	400kV switching		0	900		1	0	0	0	0	0	
Dhanbad	400/200kV: 2x500MVA		300									
Total		Total Jh:	1900	1800	3	2	400	0	0	0	0	4100
Bihar												
Banka	400/132kV: 2x200MVA + 1x315MVA (existing) 400/220kV: 2x500MVA (under construction, expected by Oct 2024)	0	100	0	1	0	400	0	0	0	0	100MW at 132kV level in the existing system and 400MW at 220kV level with the implementation of "Augmentation of 400/220kV, 2x500MVA ICT at Banka" Scheme expected by Oct 2024
Lakhisarai	400/132kV: 2x200MVA + 1x315MVA	0	200	0	1	0	0	0	0	0	0	132kV level
Motihari	400/132kV: 2x200MVA + 1x315MVA	0	500	0	1	0	0	0	0	0	0	132kV level
Chandauti	400/220kV: 3x500MVA	0	900	0	2	0	0	0	0	0	0	
Muzaffarpur	400/220kV: 2x315MVA + 2x500MVA	0	600	0	2	0	0	0	0	0	0	line corridor available for 2 lines
Saharsa	400/220kV: 2x500MVA	0	900	0	2	0	0	0	0	0	0	
Sitamarhi	400/220kV: 2x500MVA	0	900	0	2	0	0	0	0	0	0	
		Total Bihar:	4100	0	11	0	400	0	0	0	0	4500

	Status of margins	All figures are in MW (as on 31-12-2024)										
Name of station	Existing / UC/ Planned MVA Capacity	Capacity Allocated/ Under	existing /	Margin on UC system			_		Line Bays required for RE integration		No. of Trfs required for	
		Process (MW)	220kV level	400kV level	220kV level	400kV level	220kV level	400kV level	220kV level	400kV level	RE integration	Remarks
West Bengal												
Durgapur-B	400/220kV: 3x315MVA		0				300					220kV overloaded in present case under N-1. 300MW margin would be created after reconductoring of Durgapur - Parulia 220kV D/c line by DVC
Maithon-B	400/220kV: 3x500MVA		300									
Subhasgram	400/220kV: 2x315MVA + 1x500MVA	0	600	0	1		300	0	0	0	0	Additional 300MW would be available after commissioning of 6th 400/220kV, 500MVA ICT at Subhasgram by CESC (expected by 2024)
Jeerat-New	765/400: 2x1500MVA	0	0	2400		2	0	0	0	0	0	
Medinipur	765/400: 2x1500MVA	0	0	1500		1	0	0	0	0	0	
		Total WB:	900	3900	1	3	600	0	0	0	0	5400
		ER-Total	8200	8200	20	7	1400	0	0	0	0	17800
	All India	All India Total	10250.6	16600	34	20	2900	250	1	3	6	30000.6

## Disclaimer

The margins indicated may vary depending on network topology, Load-Generation balance, etc. For any clarification/information, CTU may be contacted.