

Status of margins available at existing ISTS substations (non RE) for proposed RE integration											All figures are in MW (as on 31-08-2025)	
Name of station	Existing / UC/ Planned MVA Capacity	Capacity Allocated/ Under Process (MW)	Additional 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 RE integration	Remarks / Total Addl. Margins
			220kV level	400kV level	220kV level	400kV level	220kV level	400kV level	220kV level	400kV level		
Gujarat												
Navinal (GIS) 765/400kV	6x1500MVA, 765/400kV 1x500MVA, 400/220kV	1100	0	0	2	1	0	0	0	0	0	Applications beyond 300MW require additional System and are under deliberation
Halvad/Surendranagar area		1350										Applications for 820MW received in Halvad area & 530MW received in Surendranagar area which are under deliberations.
		Total GUJ:	0	0	2	1	0	0	0	0	0	0
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	600	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. 300MW received in aug'25 is under process
Indore 765/400/220kV	2x500MVA, 400/220kV + (1x500MVA with sectionalisation at 220kV for RE injection)	1224.4	150.6	100	1	1	0	0	0		0	324.4MW LTA has been granted on 1x500MVA with sectionalisation at 220kV for RE injection & 900 MW (600+100+150+50) 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)	892	356	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: 593.6MW has been granted/agreed at extended 220kV bus of Rajgarh S/s through addl. 400/220kV, 500MVA ICT(s) for RE injection.
Karera 765/400/220kV	2x1500 MVA, 765/400 kV, 2x500 MVA, 400/220 kV S/s	700	0	0	0	0	0	0				
Sidhi area	No ISTS Substation exists near Sidhi	300	0	0	0	0	0	0				Application received for 300MW (requested through LILO of Vindhyachal - Satna line). Studies are underway.
		Total MP:	507	100	4	1	0	0	0	0	2	607

[illegible]

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			220kV level	400kV level	220kV level	400kV level	220kV level	400kV level	220kV level	400kV level		
Sundargarh A (Jharsuguda)	765/400: 2x1500MVA			2500		3						
Sundargarh B (Jharsuguda)	765/400: 2x1500MVA			2500		3						
Paradeep	765/400: 2x1500MVA			3000		3						
Gopalpur	765/400: 2x1500MVA			3000		3						
Total		Total Od:	3100	11000	12	12	0	0	0	0	0	14100
Jharkhand												
Chaibasa	400/220kV: 2x315MVA	0	500	0	2		0	0	0	0	0	
Daltonganj	400/220kV: 2x315MVA	0	500	0	2		0	0	0	0	0	
Ranchi	400/220kV: 2x315MVA + 1x500MVA		800		3		0	0	0		0	
Ranchi (New)	765/400kV: 2x1500MVA	0	0	0			0	0	0	0	0	
Chandwa	400kV switching		0	0			0	0	0	0	0	
Dhanbad	400/200kV: 2x500MVA		500		2							
Total		Total Jh:	2300	0	9	0	0	0	0	0	0	2300
Bihar												
Banka	400/132kV: 2x200MVA + 1x315MVA 400/220kV: 2x500MVA	0	600+700	0	5	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	300	0	2	0	0	0	0	0	0	132kV level
Motihari	400/132kV: 2x200MVA + 1x315MVA	0	500	0	2	0	0	0	0	0	0	132kV level
Chandauti	400/220kV: 3x500MVA	0	0	0	0	0	0	0	0	0	0	
Muzaffarpur	400/220kV: 2x315MVA + 2x500MVA	0	800	0	3	0	0	0	0	0	0	line corridor available for 2 lines
Saharsa	400/220kV: 2x500MVA	0	700	0	3	0	0	0	0	0	0	
Sitamarhi	400/220kV: 2x500MVA	0	800+200	0	4	0	0	0				
Gaya	400/220kV: 2x500MVA + 1x315MVA		2000+1000		10							
Darbhanga	400/220kV: 2x500MVA	0	0	0	0	0	0	0	0	0	0	
Kishanganj	400/220kV: 2x500MVA	0	500	0	2	0	0	0	0	0	0	
New Purnea	400/220kV: 2x500MVA	0	1000	0	4	0	0	0	0	0	0	

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Patna	400/220kV: 3x500MVA	0	100	0	2	0	0	0	0	0	0	
Purnea	220/132kV: 3x160MVA	0	900	0	3	0	0	0	0	0	0	
Sasaram	220/132kV: 3x160MVA	0	600	0	2	0	0	0	0	0	0	
Total		Total Bh:	10700	0	42	0	0	0	0	0	0	10700
West Bengal												
Durgapur-B	400/220kV: 3x315MVA	0	0									220kV overloaded in present case under N-1.
Maithon-B	400/220kV: 3x500MVA	0	0									220kV overloaded in Base case (Maithon B - Asansol).
Subhasgram	400/220kV: 2x315MVA + 1x500MVA	0	0	0	0		0	0	0	0	0	220kV overloaded in present case under N-1 (Subhasgram).
Jeerat-New	765/400: 2x1500MVA	0	0	0		0	0	0	0	0	0	400/220kV ICT overloaded in present case under N-1
Medinipur	765/400: 2x1500MVA	0	0	0		0	0	0				400/220kV ICT overloaded in present case
Alipurduar	400/220kV: 2x315MVA	0	0									
Baharampur	400kV switching	0	0									
Rajarhat	400/220kV: 3x500MVA	0	0									220kV overloaded in present case under N-1 (Subhasgram).
Birpara	220/132kV: 2x160MVA	0	0									
Dalkhola	220kV switching	0	0									
Durgapur-A	400kV switching	0	0									
Maithon-A	400kV switching	0	0									
Farakka TPS	400/220kV: 2x315MVA	0	0									
Malda	400/220kV: 2x500MVA	0	0									
New Siliguri (Binaguri)	400/220kV: 3x315MVA	0	0									132kV overloaded in present case under N-1 (Siliguri).
Siliguri	220/132kV: 2x160MVA	0	0									132kV overloaded in present case under N-1 (Siliguri).
		Total WB:	0	0	0	0	0	0	0	0	0	0
		ER-Total	16100	11000	63	12	0	0	0	0	0	27100
All India		All India Total	17407	14450	70	20	0	250	1	0	3	32107

Disclaimer
 The margins indicated may vary depending on network topology, Load-Generation balance, etc. For any clarification/information, CTU may be contacted.
As per the 3rd amendment of GNA Regulations, the substation/bay-wise details for Solar/Non-Solar hours at various ISTS substations is under preparation and shall be updated at CTUIL website shortly