

Status of margins available at existing ISTS substations (non RE) for proposed RE integration											All figures are in MW (as on 31-07-2025)	
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
			220kV level	400kV level	220kV level	400kV level	220kV level	400kV level	220kV level	400kV level		
Gujarat												
Navinal (GIS) 765/400kV	6x1500MVA, 765/400kV	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	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)	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+150+150) 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]

Status of margins available at existing ISTS substations (non RE) for proposed RE integration											All figures are in MW (as on 31-07-2025)	
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
			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	

Status of margins available at existing ISTS substations (non RE) for proposed RE integration											All figures are in MW (as on 31-07-2025)	
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
			220kV level	400kV level	220kV level	400kV level	220kV level	400kV level	220kV level	400kV level		
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