

Estimated Spare Capacity available at existing and newly approved 400 kV Grid Sub Stations of RVPN for providing grid connectivity to Solar and Wind Power Plants

Sr. No	Name of Circle	Name of GSS	Transformers			Space available for Spare bays for RE as on 15.12.2021				Sanctioned RE Capacity				Estimated Spare Capacity for future RE Projects					
			Voltage Ratio (KV)	MVA Capacity (existing)	Additional approved Capacity (in MVA)	400 kV	220 kV	132 kV	33 kV	Voltage (kV)	Solar Capacity	Wind Capacity	Total RE Capacity	As on Dec. 2021	2022	2023	2024		
1	SE(T&C), Barmer	400KV GSS Barmer	400/220	630		0	0	0	0	400			200 MW **	200 MW	0 MW	0 MW	0 MW	0 MW	
			220/132	200						220									
			132/33	12.5						132									
2	SE(T&C), Bhadla	400KV GSS Bhadla	400/220	1500	500	3#	4	0	0	400	500 MW **		1490 MW	1490 MW	0 MW	0 MW	0 MW	0 MW	
			220/132	320						220									
			132/33	100						132	65 MW	65 MW							
3	SE(T&C),Bikaner	400 KV GSS Bikaner	400/220	630		0	0	0	0	400			400 MW **	400 MW	0 MW	0 MW	0 MW	0 MW	
										220									
4	SE(T&C), Jaisalmer	400 KV GSS Pokaran (newly approved)	400/220		1000	GSS under review due to its location in GIB priority/potential zone				400			2180 MW	152.0 MW	2332.00 MW	0 MW	0 MW	0 MW	1000 MW*
			220/132		320					220									
										132									
5	SE(T&C), Jaisalmer	400 KV GSS Jaisalmer-2	400/220	1000	1500	0	4			400	500 MW		500 MW	0 MW	0 MW	0 MW	0 MW	0 MW	
										220	2180 MW								
6	SE(T&C), Ramgarh	400KV GSS Ramgarh	400/220	1500	500	2	0	0	0	400			600 MW	472 MW	1671.60 MW	0 MW	0 MW	0 MW	0 MW
			220/132	160						220	600 MW **								
			132/33	25						132	14 MW	90 MW							
Available spare capacity at 400 kV GSS of RVPN to provide grid connectivity to RE PPs													0 MW	0 MW	0 MW	0 MW			

- The estimated spare capacity may vary depending upon the actual field conditions.
 - New 5x500 MVA, 400/220 kV Transformers at Bhadla (1 No.), Jaisalmer-2 (3 Nos.) & Ramgarh (1 No.) are targeted to commission in 2024.
 - Sanctioned Solar capacity of 920 MW (covered under Tranche III of SECI's Bids) at 220 kV voltage level at 400 kV GSS Jaisalmer2 (out of 2180 MW) would be allowed grid connectivity after commissioning of new 3x500 MVA, 400/220 kV Transformers.
 - Grid connectivity accorded on dated 14.12.2021 to Solar Park Developers i.e. 400 MW at 400 kV GSS Bikaner at 220 kV level, 500 MW at 400 kV GSS Bhadla at 400 kV level, 600 MW at 400 kV GSS Ramgarh at 220 kV level, 200 MW at 400 kV GSS Barmer at 220 kV level on a condition that they shall deposit applicable charges immediately with RVPN but incase successful bidder from SECI's e-RA under Tranche IV seeks connectivity at these GSS and deposit the applicable charges earlier, then the evacuation approval accorded on dated 14.12.2021 to Solar Park Developers shall be automatically revoked.
- * 1000 MW spare capacity will be available subject to commissioning of approved 400 kV GSS Pokaran, which is under review, as this GSS is falling in GIB Priority/Potential area.
 ** 600 MW Spare capacity will be available after commissioning of 400 kV D/C Twin HTLS Jaisalmer2- Jodhpur (765 kV GSS) line, which is falling in GIB potential area or any other alternative modified transmission system.
 # Space will be available after 400 kV bus extension in the newly acquired land.