EVENT:	On 09th Feb 2023, As reported At 11:45 hrs, due to oscillations and multiple tripping in Rajasthan RE generation complex drop of around 4590 MW RE generation observed in Rajasthan RE generation complex of Northern Region and same figure has been considered in FRC Calculation.									
S No	Particulars	Dimension	NR	ER	WR	NER	SR			
1	Actual Net Interchange before the Event (11:45:00)	MW	4499	-8780	-2813	-35	6602			
2	Actual Net Interchange after the Event (11:47:08)	MW	7960	-9076	-4568	-78	4885			
3	Change in Net Interchange (2-1)	MW	3461	-296	-1754	-43.0	-171			
4	Generation Loss (+) / Load Throw off (-) during the Event	MW	4590	0	0	0	0			
5	Control Area Response (3 - 4)	MW	-1129	-296	-1754	-43	-171			
6	Frequency before the Event	HZ	49.98	49.98	49.98	49.98	49.9			
7	Frequency after the Event	HZ	49.55	49.55	49.55	49.55	49.5			
8	Change in Frequency (7 - 6)	HZ	-0.433	-0.433	-0.433	-0.433	-0.43			
9	Frequency Response Characteristic (5 / 8)	MW/Hz	2606	683	4052	99	396			
10	Net System Demand met before the Event	MW	59030	19996	68069	1987	5667			
11	Internal Generation before the Event (10 - 1)	MW	54531	28776	70882	2022	5007			
12	Ideal load response assuming 4% per Hz (0.04*Row 10)	MW/Hz	2361	800	2723	79	226			
13	Ideal generator response assuming 5% droop40% per Hz (40% of Row 11)	MW/Hz	21812	11510	28353	809	2003			
14	Composite ideal response (12 + 13)	MW/Hz	24174	12310	31076	888	2229			
15	Percentage ideal response	%	10.8%	5.5%	13.0%	11.2%	17.8			

(\*) - Data may be constant/suspected during the event Note: +ve exchange=> import ; (-)ve exchange => export

Total Change in (MW)	4590	
FRC for NEWS GRID (dp/df) MW/Hz		
Power Number (net change in MW/maximum change in frequency )	9787	

Source Wise Generation (MW)	GAS	HYDRO	NUCLEAR	Thermal	WIND	SOLAR
	2545	10107	5388	145137	1801	41273