

Frequency Response Characteristic in North-Eastern Region (Based on NERLDC SCADA data)

SI No.	Particulars	Dimension	Palatana	Khandong + stg II	Kopili	Doyang	RHEP	Loktak	BgTPP	Kameng	Pare
1	Installed Capacity	MW	2 x 363.3	2 x 25 +1 x 25	4 x 50	3 x 25	3 x 135	3 x 35	3 x 250	4 x 150	2 x 55
2	No of Units on Bar	MW	2	0	0	0	1	0	3	0	1
3	Installed Capacity (MCR) of Units on Bar	MW	726.6	0.0	0.0	0.0	135.0	0.0	750.0	0.0	55.0
4	Declared capacity (DC)	MW	516.0	0	0	0.0	110.0	0	683	0	55
5	105 % of MCR	MW	762.9	0.0	0.0	0.0	141.8	0.0	787.5	0.0	57.8
6	Whether on ramping (Yes/No)		No	NA	NA	NA	No	NA	No	NA	No
7	Margin Available	MW	248.7	0.0	0.0	0.0	30.5	0.0	95.9	0.0	2.2
8	Actual Net Interchange before the Event (13:11:40)	MW	514.2	0.00	0.0	0.0	111.3	0.0	691.6	0.0	55.5
9	Actual Net Interchange after the Event (13:12:20)	MW	516.1	0.00	0.0	0.0	113.1	0.0	692.1	0.0	54.0
10	Change in Net Interchange (9 - 8)	MW	1.9	0.0	0.0	0.0	1.9	0.0	0.5	0.0	-1.5
11	Generation Loss (+) / Load Throw off (-) during the Event	MW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12	Control Area Response 11-10)	MW	-1.9	0.0	0.0	0.0	-1.9	0.0	-0.5	0.0	1.5
13	Frequency before the Event	Hz	49.72	49.72	49.72	49.72	49.72	49.72	49.72	49.72	49.72
14	Frequency after the Event	Hz	49.66	49.66	49.66	49.66	49.66	49.66	49.66	49.66	49.66
15	Change in Frequency (14-13)	Hz	-0.06	-0.06	-0.06	-0.06	-0.06	-0.06	-0.06	-0.06	-0.06
16	Frequency Response Characteristic (12 / 15)	MW/Hz	31.7	0.0	0.0	0.0	31.2	0.0	8.3	0.0	-25.5
17	Net System Demand met before the Event	MW	0	0.0	0	0	0	0	0	0	0
18	Internal Generation before the Event (8)	MW	514	0.00	0	0	111	0	691.6	0.0	56
19	Ideal load response assuming 4% per Hz (0.04*Row 17)	MW/Hz	0	0.0	0	0	0	0	0	0	0
20	Ideal generator response assuming 5% droop.....40% per Hz (40% of Row 18)	MW/Hz	205.7	0.0	0.0	0.0	44.5	0.0	276.6	0.0	22.2
21	Composite ideal response (19 + 20)	MW/Hz	205.7	0.0	0.0	0.0	44.5	0.0	276.6	0.0	22.2
22	Percentage ideal response (16/21)	%	15.40%				70.04%		3.01%		-114.82%

NER ISGS AGBPP and AGTCCPP are not mandated for FGMO/RGMO as unit wise IC is less than 50 MW.