

पाँवर सिस्टम ऑपरेशन कारपोरेशन लिमिटेड

राष्ट्रीय भार प्रेषण केंद्र, नई दिल्ली

साप्ताहिक रिपोर्ट (27 अगस्त से 02 सितम्बर 2018 तक)

रिपोर्टिंग तिथि:- 7-Sep-18

(आई० ई० जी० सी० की धारा संख्या-5.5.1 के अंतर्गत)

1. अधिकतम मांग आपूर्ति और अधिकतम कमी (मे०वा०)

दिनांक	उत्तरी क्षेत्र		पश्चिमी क्षेत्र		दक्षिणी क्षेत्र		पूर्वी क्षेत्र		पूर्वोत्तर क्षेत्र		कुल	
	अधिकतम मांग आपूर्ति (मे०वा०)	आधिकतम कमी (मे०वा०)	अधिकतम मांग आपूर्ति (मे०वा०)	आधिकतम कमी (मे०वा०)	अधिकतम मांग आपूर्ति (मे०वा०)	आधिकतम कमी (मे०वा०)	अधिकतम मांग आपूर्ति (मे०वा०)	आधिकतम कमी (मे०वा०)	अधिकतम मांग आपूर्ति (मे०वा०)	आधिकतम कमी (मे०वा०)	अधिकतम मांग आपूर्ति (मे०वा०)	आधिकतम कमी (मे०वा०)
27-08-2018	53851	1137	42819		36720		20584	200	2706	105	156680	1442
28-08-2018	52931	831	43998		39848		20770	434	2705	149	160252	1414
29-08-2018	53442	1048	44311	133	40974	20	21634	270	2655	192	163016	1663
30-08-2018	55239	896	45412		41878	730	20918	800	2757	117	166204	2543
31-08-2018	55210	609	44361		42618		21407	270	2669	231	166265	1110
01-09-2018	53512	762	43923		41233		20903	294	2708	123	162279	1179
02-09-2018	46687	919	40906		38735		19756	310	2537	145	148621	1374

2. ऊर्जा आपूर्ति और पनबिजली उत्पादन (मि०यू०)

क्षेत्र / तिथि	उत्तरी क्षेत्र		पश्चिमी क्षेत्र		दक्षिणी क्षेत्र		पूर्वी क्षेत्र		पूर्वोत्तर क्षेत्र		कुल	
	ऊर्जा आपूर्ति (मि०यू०)	पनबिजली उत्पादन (मि०यू०)	ऊर्जा आपूर्ति (मि०यू०)	पनबिजली उत्पादन (मि०यू०)	ऊर्जा आपूर्ति (मि०यू०)	पनबिजली उत्पादन (मि०यू०)	ऊर्जा आपूर्ति (मि०यू०)	पनबिजली उत्पादन (मि०यू०)	ऊर्जा आपूर्ति (मि०यू०)	पनबिजली उत्पादन (मि०यू०)	ऊर्जा आपूर्ति (मि०यू०)	पनबिजली उत्पादन (मि०यू०)
	27-08-2018	1198	356	960	45	897	176	443	111	51	26	3549
28-08-2018	1209	354	998	44	903	174	447	120	52	27	3610	720
29-08-2018	1194	347	988	35	925	187	458	120	51	25	3617	713
30-08-2018	1219	352	1017	28	953	190	451	117	52	24	3692	711
31-08-2018	1249	350	1017	42	952	208	447	117	53	24	3717	741
01-09-2018	1193	356	1005	42	928	200	438	116	53	25	3615	740
02-09-2018	1097	354	963	36	889	186	418	114	49	26	3415	716

3. आवृत्ति (प्रतिशत समय में)

तिथि	49.8-49.9	<49.9	49.9-50.05	>50.05	Average	FVI
	ऑ० ई० गिड	ऑ० ई० गिड	ऑ० ई० गिड	ऑ० ई० गिड	ऑ० ई० गिड	ऑ० ई० गिड
27-08-2018	5.21	6.19	86.25	7.56	49.98	0.031
28-08-2018	13.28	16.31	78.11	5.58	49.96	0.067
29-08-2018	14.51	15.94	75.42	8.65	49.97	0.056
30-08-2018	10.36	11.31	80.08	8.61	49.98	0.044
31-08-2018	7.66	8.52	81.94	9.54	49.98	0.039
01-09-2018	3.55	3.55	88.83	7.62	49.99	0.023
02-09-2018	0.74	0.74	82.77	16.49	50.01	0.018

*NEW & SR grid running in synchronisation.

4. NEW ELEMENTS COMMISSIONED

1. 400 kV Farakka-Behrapur Ckt-I & II first time charged on 01-09-2018 at 18:28 hrs and 18:34 hrs respectively.

5. Maximum Demand Met during the day & Peak Hour Shortage in States (in MW)

Region	Date	27-08-2018		28-08-2018		29-08-2018		30-08-2018		31-08-2018		01-09-2018		02-09-2018	
	States	Max. Demand Met during the day	Peak hr Shortage	Max. Demand Met during the day	Peak hr Shortage	Max. Demand Met during the day	Peak hr Shortage	Max. Demand Met during the day	Peak hr Shortage	Max. Demand Met during the day	Peak hr Shortage	Max. Demand Met during the day	Peak hr Shortage	Max. Demand Met during the day	Peak hr Shortage
NR	Punjab	10826	0	11183	0	10975	0	11062	0	11102	0	11291	0	10154	0
	Haryana	8353	0	8000	0	8006	0	8729	0	8917	0	8482	0	8035	0
	Rajasthan	9870	0	9791	0	9556	0	10090	0	10267	0	9953	0	9554	0
	Delhi	5378	0	5152	0	5049	0	5530	0	5556	0	5346	0	4577	0
	UP	16300	130	16212	0	16239	0	16748	0	16069	120	15605	270	15591	0
	Uttarakhand	1826	0	1796	0	1803	0	1846	80	1811	0	1810	0	1628	0
	HP	1371	0	1404	0	1413	0	1390	0	1422	0	1409	0	1304	0
	J&K	2229	557	2174	544	2086	522	2064	516	2108	527	1969	492	1951	488
Chandigarh	294	0	299	0	299	0	295	0	298	0	258	0	228	0	
WR	Chhattisgarh	3074	0	3272	0	3338	133	3597	0	3477	0	3625	0	3458	0
	Gujarat	13541	0	14115	0	13474	0	13765	0	13726	0	13385	0	12117	0
	MP	7372	0	7265	0	7449	0	7692	0	7314	0	7197	0	7168	0
	Maharashtra	18014	0	18215	0	18477	0	18917	0	19008	0	19364	0	18679	0
	Goa	403	0	403	0	403	0	403	0	403	0	403	0	403	0
	DD	335	0	345	0	318	0	347	0	347	0	337	0	309	0
	DNH	791	0	788	0	791	0	804	0	777	0	770	0	767	0
	Essar steel	520	0	548	0	562	0	539	0	544	0	549	0	533	0
SR	Andhra Pradesh	7841	0	7963	0	7986	0	8412	0	8322	0	8134	0	8200	0
	Telangana	8029	0	8795	0	9525	0	9840	0	10198	0	9631	0	9366	0
	Karnataka	8853	0	8453	0	8410	0	8599	0	9417	0	8100	0	8167	0
	Kerala	3086	0	3103	0	3195	0	3215	0	3316	0	3293	0	3179	0
	Tamil Nadu	14207	0	14135	0	14211	0	14189	671	14490	0	13592	0	12599	0
	Pondy	355	0	349	0	348	20	333	30	333	0	327	0	293	0
ER	Bihar	4812	0	4844	0	4939	0	4735	0	4805	0	4727	0	4487	0
	DVC	2753	0	2877	0	2822	0	2809	0	2924	0	2987	0	2884	0
	Jharkhand	1151	0	1037	0	1245	0	1109	0	1042	0	1020	0	955	0
	Odisha	4851	0	4566	0	4851	0	4808	0	4951	0	4723	0	4918	0
	West Bengal	8387	0	8732	0	8842	0	8509	0	8213	0	8109	0	7255	0
	Sikkim	78	0	94	0	95	0	103	0	88	0	92	0	77	0
NER	Arunachal Pradesh	114	6	127	1	125	1	133	0	133	0	122	11	110	5
	Assam	1811	34	1717	133	1703	150	1760	102	1706	154	1750	110	1623	107
	Manipur	154	17	184	2	181	1	181	0	180	2	173	9	172	2
	Meghalaya	300	5	290	0	307	0	302	0	306	2	295	10	283	0
	Mizoram	71	2	78	0	77	1	78	0	78	0	76	3	69	4
	Nagaland	110	7	114	2	118	1	106	2	115	1	112	3	119	2
	Tripura	272	3	280	3	272	4	266	3	292	4	265	15	253	1

6. Energy Consumption in States (MUs)

Region	States	27-08-2018	28-08-2018	29-08-2018	30-08-2018	31-08-2018	01-09-2018	02-09-2018
NR	Punjab	249.9	254.1	252.4	254.0	258.4	258.5	228.9
	Haryana	178.4	171.0	167.1	176.9	193.2	180.9	145.6
	Rajasthan	214.9	222.4	214.8	218.2	230.8	222.5	210.5
	Delhi	111.7	107.6	106.4	111.0	116.4	104.0	91.0
	UP	328.6	335.8	336.5	342.9	334.2	314.5	315.5
	Uttarakhand	36.0	38.7	39.1	39.0	37.2	39.1	34.4
	HP	28.8	30.5	30.2	29.8	30.5	29.7	26.6
	J&K	43.6	42.6	42.0	41.7	42.0	38.0	39.8
Chandigarh	5.9	5.9	5.9	5.9	5.9	5.5	4.6	
WR	Chhattisgarh	71.4	73.5	76.2	79.8	80.5	79.8	79.5
	Gujarat	290.3	314.8	307.5	307.4	310.2	300.2	278.0
	MP	161.5	163.2	163.0	165.5	160.3	155.4	153.3
	Maharashtra	393.1	401.2	408.2	418.0	419.7	421.8	407.2
	Goa	8.6	8.6	8.6	8.6	10.2	11.3	8.6
	DD	6.8	7.7	5.8	7.7	7.9	7.6	7.2
	DNH	17.9	18.3	18.6	18.9	16.7	18.0	17.9
	Essar steel	10.5	11.1	0.0	11.1	11.3	10.5	11.2
SR	Andhra Pradesh	175.4	169.3	177.2	183.8	181.4	181.9	180.5
	Telangana	174.6	188.0	200.0	210.4	213.3	205.9	204.7
	Karnataka	178.3	176.1	176.5	180.1	184.9	178.0	170.4
	Kerala	59.2	60.8	62.0	63.8	65.1	65.7	61.5
	Tamil Nadu	302.7	302.0	302.4	308.1	300.3	289.0	265.1
	Pondy	7.2	7.3	7.2	6.4	7.1	7.0	6.4
ER	Bihar	92.4	92.9	96.6	92.5	90.7	90.9	88.6
	DVC	62.1	64.1	63.6	65.0	66.5	67.5	62.2
	Jharkhand	24.1	22.5	25.0	22.8	22.8	22.5	20.3
	Odisha	94.4	90.3	92.6	95.1	96.9	88.7	98.4
	West Bengal	169.3	176.4	179.7	175.4	168.6	167.0	147.9
	Sikkim	1.0	1.1	1.1	0.8	1.2	1.2	0.8
NER	Arunachal Pradesh	2.6	2.4	2.2	2.2	2.5	2.4	2.5
	Assam	31.9	32.7	33.0	33.8	34.0	33.9	31.1
	Manipur	2.2	2.5	2.3	2.2	2.1	2.2	2.3
	Meghalaya	5.8	5.6	5.4	5.2	5.3	5.8	5.1
	Mizoram	1.5	1.4	1.4	1.5	1.4	1.4	1.4
	Nagaland	2.3	2.3	2.3	2.3	2.3	2.3	2.2
	Tripura	4.7	5.0	4.6	4.7	5.4	4.7	3.9
ALL INDIA TOTAL		3549.5	3609.5	3617.3	3692.1	3717.1	3615.2	3414.9

पॉवर सिस्टम ऑपरेशन कारपोरेशन लिमिटेड
राष्ट्रीय भार प्रेषण केंद्र, नई दिल्ली

साप्ताहिक रिपोर्ट (27 अगस्त से 02 सितम्बर 2018 तक)
(आई० ई० जी० सी० की धारा संख्या-5.5.1 के अंतर्गत)

7. अंतर्क्षेत्रीय विनिमय [प्रथम क्षेत्र से द्वितीय क्षेत्र को आयात (+) / निर्यात (-)]

दिनांक	27-08-2018	28-08-2018	29-08-2018	30-08-2018	31-08-2018	01-09-2018	02-09-2018
East to North	-47.3	-31.7	-41.9	-45.6	-44.8	-46.4	-49.5
East to West	73.3	70.5	62.8	70.5	72.3	64.5	73.1
East to South	-47.7	-54.8	-47.5	-56.2	-56.5	-54.9	-54.3
East to North-East	-16.9	-43.8	-23.3	-20.8	-16.1	-13.3	-10.1
North-East to North	-15.5	-42.5	-18.2	-10.6	-7.8	-6.7	-11.3
West to North	-183.0	-186.3	-196.0	-195.1	-200.0	-185.0	-160.1
West to South	-3.4	13.8	7.7	1.6	-8.8	-9.4	-3.8

भूटान , नेपाल एव बाग्लादेश के साथ अंतरराष्ट्रीय विद्युत विनिमय INTERNATIONAL EXCHANGE WITH BHUTAN, NEPAL AND BANGLADESH								
साप्ताहिक रिपोर्ट (27 अगस्त से 02 सितम्बर 2018 तक)								
अंतरराष्ट्रीय विद्युत विनिमय [भारत से दूसरे देश को आयात (+) / निर्यात (-)] Transnational Exchange from India (Import=(+ve) /Export =(-ve))								
दिनांक Date	भूटान BHUTAN		नेपाल NEPAL			बाग्लादेश BANGLADESH		
	Energy Exchange (In MU)	Day Average (MW)	Energy Exchange (In MU)	Day Peak (MW)	Day Average (MW)	Energy Exchange (In MU)	Day Peak (MW)	Day Average (MW)
27-08-2018	32.3	1346	-5.3	-389	-220	-14.8	-649	-616
28-08-2018	33.4	1392	-5.9	-308	-247	-14.9	-652	-621
29-08-2018	31.8	1327	-6.2	-294	-257	-14.9	-668	-623
30-08-2018	30.7	1277	-5.2	-311	-216	-15.1	-659	-628
31-08-2018	30.8	1283	-5.6	-345	-235	-14.9	-673	-619
01-09-2018	33.2	1383	-6.7	-363	-279	-15.1	-677	-629
02-09-2018	34.4	1433	-5.4	-356	-224	-14.8	-664	-616
कुल Total	226.6		-40.3			-104.5		

8). Major Grid Incidences (Provisional):-

S.No.	Region	Name of Elements (Tripped/Manually opened)	Owner / Agency	Outage		Revival		Outage Duration	Event (As reported)	Generation Loss(MW)	Load Loss(MW)	Category as per CEA Grid Standards
				Date	Time	Date	Time	Time				
1	NR	1) 200 MVA ICT 1 at 400/132kV Mau(UP). 2) 200 MVA ICT 2 at 400/132kV Mau(UP).	UP	27-08-2018	10:25	27-08-2018	11:47	1:22	200 MVA ICT 1 & ICT 2 at 400/132kV Mau(UP) tripped due to operation of backup over current earth fault trip relay. As per PMU, Initially voltage dip observed in R phase and after 2040ms, voltage dip also observed in B-Y phase. Delayed clearance is observed. It seems ICTs tripped on back up protection during fault in downward 132 kV network at 400/132 kV Mau (UP)		127	GD-1
2	NR	1) 400 kV Rampur(NJPC)-Nalagarh(PG) ckt-2 2) Unit#5 at 400kV Nathpa-Jhakri(NJPC) 3) Unit#6 at 400kV Nathpa-Jhakri(NJPC) 4) Unit#1 at 400kV Rampur(NJPC) 5) Unit#2 at 400kV Rampur(NJPC) 6) Unit#2 at 400kV Karcham Wangtoo (NLNE mode) 7) Unit#4 at 400kV Karcham Wangtoo (NLNE mode)	NJPC, JSW & POWERGRID	29-08-2018	04:02	29-08-2018	05:11	1:09	Auto reclosure of 400 kV Rampur(NJPC)-Nalagarh(PG) ckt-1 & 2 occurred at 0402 hrs due to B-N Fault (92 kms from Rampur). 400 kV Rampur(NJPC)-Nalagarh(PG) circuit-1 was successfully auto reclosed at both ends. 400 kV Rampur(NJPC)-Nalagarh(PG) circuit-2 was auto reclosed successfully at Nalagarh(PG) but tripped at Rampur end. As reported by stations, due to the above incident, SPS operated at NJPC and Rampur causing tripping of 2 units each. Due to SPS operation at Karcham, units - 2 & 4 went into NLNE mode (No load Not Excited). As per PMU. B-N fault is observed.	1200		GD-1
3	NR	1) 400kV Bus 2 at Bawana CCGT 2) 400kV Bahadurgarh(PG)-Bawana(GT) 3) STG1 at 400kV Bawana CCGT	Delhi	29-08-2018	15:28	29-08-2018	20:02	4:34	Bus bar protection operated at Bawana CCGT leading to tripping of 400kV Bus 2 at Bawana CCGT & 400kV Bahadurgarh(PG)-Bawana(GT). STG1 also tripped with heavy jerk. In antecedent condition, 400kV Bahadurgarh-Bawana(GT) carrying 18 MW and STG 1 generating 178 MW. As per PMU, Voltage drop observed in all the three phases.	200		GD-1
4	NR	1) 220kV Basti(UP)-Bansi(UP) 2) 220kV Basti(UP)-Tanda(NTPC) 3) 220kV Bansi (UP)-Gorakhpur(PG)	UP, NTPC & POWERGRID	29-08-2018	23:46	30-08-2018	00:26	0:40	220kV Basti(UP)-Bansi(UP) & 220kV Basti(UP)-Tanda(NTPC) tripped due to B-N fault & R-Y fault respectively. At the same time, 220kV Bansi (UP)-Gorakhpur(PG) also tripped on B-N fault. As per PMU, B-N fault observed. As per SCADA data, load loss of around 60MW is observed.		60	GD-1
5	NR	1) 220kV Bus 2 at Samaypur(BBMB) 2) 500 MVA ICT 1 at 400/220kV Ballabgarh(PG) 3) 220kV Samaypur(BBMB)-Palwal(HVPLN) Ckt-II 4) 220kV Samaypur(BBMB)-Badshapur(HVPLN) Ckt-I 5) 220kV Samaypur(BBMB)-Palli(HVPLN) Ckt-I	BBMB, Haryana & POWERGRID	31-08-2018	06:56	31-08-2018	08:55	1:59	Bus bar protection of 220kV Bus 2 at Samaypur(BBMB) operated leading to tripping of 500 MVA ICT 1 at 400/220kV Ballabgarh(PG), 220kV Samaypur(BBMB)-Palwal(HVPLN) Ckt-II, 220kV Samaypur(BBMB)-Badshapur(HVPLN) Ckt-I & 220kV Samaypur(BBMB)-Palli(HVPLN) Ckt-I carrying 193 MW, 54 MW, 28 MW & 104 MW respectively. As per PMU, B-N fault is observed. As reported, transient bus fault in 220 kV side bay of 500MVA 400/220 kV ICT-1 at Samaypur (BBMB).			GI-2
6	NR	1) Unit#7 at 220kV Panipat TPS(HVPLN) 2) Unit#8 at 220kV Panipat TPS(HVPLN)	Haryana	31-08-2018	11:22	31-08-2018	12:50	1:28	Unit 7 & 8 of 220kV Panipat TPS(HVPLN) tripped due to electrical fault. In antecedent condition, Unit#7 & Unit#8 generating 192 MW & 60 MW respectively. As per PMU, Fluctuations observed in the phase voltages.	252		GD-1
7	NR	1) Unit#1 at 400kV Rihand(NTPC) 2) Unit#2 at 400kV Rihand(NTPC)	NTPC	31-08-2018	18:27	31-08-2018	20:59	2:32	Unit 1 & 2 (Make-NEI) of Rihand Stage-1 tripped due to tripping of GSW (General Service water Pump). In antecedent condition, Unit#1 & Unit#2 generating 480 MW & 285 MW respectively. As per PMU, No fault observed.	765		GD-1

S.No.	Region	Name of Elements (Tripped/Manually opened)	Owner / Agency	Outage		Revival		Outage Duration	Event (As reported)	Generation Loss(MW)	Load Loss(MW)	Category as per CEA Grid Standards
				Date	Time	Date	Time					
8	WR	Tripping of 1.400/220kV Amreli ICTs 1,2,3&4 2.400kV Amreli-Jetpur D/C 3.400kV Amreli-Chorania S/C 4.400kV 50MVAR Amreli B/R 5.400kV 125MVAR Amreli B/R 6.400kV L/R of kasor-1 connected as B/R at Amreli	GETCO	27-08-2018	00:34	27-08-2018	02:06	1:32	At Amreli s/s, 400 kV Bus 2 bus bar protection operated on R phase to Earth fault and simultaneously Bus 1 also tripped on Bus bar protection operation.	Nil	Nil	GI-2
9	WR	Tripping of 1.220 kV Haldarwa-GPEC 1 2.220 kV Haldarwa- Reliance D/C 3.220 kV Haldarwa-Gandhar D/C 4.220 kV Haldarwa-Kawas D/C 5.220 kV Haldarwa-Dahej 1 6.220 kV Haldarwa-Wagra 1 7.220 kV Haldarwa-Jagadia 1 8.220/132 kV Haldarwa ICTs 3,4&5	GETCO	28-08-2018	17:57	28-08-2018	18:11	0:14	At 220kV Haldarwa s/s, 220 kV Bus coupler B phase jumper snapped and created bus fault. 220 kV Bus 1 and 2 tripped on Bus bar protection operation.	Nil	120	GI-1
10	SR	1. 400kV/220kV Veltoor ICT#3 and 4 2. 400kV Veltoor-Maheshwaram(PG)-1 3. 400kV Veltoor-Maheshwaram(PG)-2	TSTRANSCO	28-08-2018	07:22	28-08-2018	14:10	6 hr 48 min	Multiple tripping at 400kV Veltoor Station: LBB of 400kV Veltoor Uravakonda line-1 Main Breaker was initiated inadvertently during testing. This resulted in the tripping of all Main Breakers of Bus-1 (400kV Veltoor maheshwaram line-1 and 2, 400kV Veltoor N'Sagar, 400kV Veltoor UVKonda-2 and 400kV Veltoor Raichur) at 400kV Veltoor. Meanwhile Tie LBB of 400kV/220kV Veltoor ICT#3 and 4 also got initiated due to problem in wiring, resulting in the tripping of ICT#3 and 4, 400kV Veltoor maheshwaram line-1 and 2. DT was sent to Maheshwaram end.	---	---	GI-2
11	SR	1. 220kV Naghjeri Ambewadi line-1 2. Naghjeri Generating Units # 2, 3 and 6	KPCL	31-08-2018	11:49	31-08-2018	12:13	24 min	Multiple tripping at 220kV Naghjeri Generating Station: Triggering incident was B Ph-N fault in 220kV Naghjeri Ambewadi line#1. As per the information received, after the tripping of 220kV Naghjeri Ambewadi line#1, 220kV Naghjeri Ambewadi line#2 got overloaded. This resulted in the tripping of Naghjeri Generating Units #3 and 6 on SPS operation. At the same time, Unit #2 got tripped on REF operation.	---	---	GI-1
12	ERLDC	220 kV Joda - TTPS D/C 132 kV Jamshedpur - Chandil D/C 132 kV Purulia - CTPS D/C	OPTCL	31-08-2018	13:57	31-08-2018	14:05	0:08	220 kV Joda Ramchandrapur S/C and 220 kV Bokaro Jamshedpur were not in service. 220 kV Joda - TTPS D/C tripped on Y-B-N fault resulting increase in power flow through 220 kV Jamshedpur Jindal S/C. As a result 132 kV Jamshedpur - Chandil D/C and 132 kV Purulia - CTPS D/C tripped due to overload.	0	450	GD-I
13	NER	400 kV BNC-Ranganadi 1 & 2 Lines	POWERGRID	29-08-2018	09:22	29-08-2018	00:00	10:16	Ranganadi Power Station, Pare Power Station and Arunachal Pradesh Power System (except Khupi & Deomali areas) were connected with rest of NER Grid through 400 kV BNC - Ranganadi 1 & 2 Lines. 132 kV Gohpur- Nirjuli line was kept opened to control over-loading of 132 kV Nirjuli - Lekhi line. At 09:22 Hrs on 29.08.2018, 400 kV BNC - Ranganadi 1 & 2 Lines tripped. Due to tripping of these elements, Ranganadi Power Station, Pare Power Station and Arunachal Pradesh Power System (except Khupi & Deomali areas) were separated from rest of NER Grid and subsequently collapsed due to load generation mismatch in this area.	175	55	GD-I