



POWER SYSTEM OPERATION CORPORATION LIMITED
NORTHERN REGIONAL LOAD DESPATCH CENTRE
DAILY OPERATION REPORT OF NORTHERN REGION

Power Supply Position in Northern Region For 22-Nov-2018

Date of Reporting:23-Nov-2018

1. Regional Availability/Demand:

Evening Peak (19:00) MW				Off-Peak (03:00) MW				Day Energy(Net MU)	
Demand Met	Shortage(-)/Surplus(+)	Requirement	Freq (Hz)	Demand Met	Shortage(-)/Surplus ..	Requirement	Freq (Hz)	Demand Met	Shortage
42,898	510	43,408	50.06	31,167	296	31,463	50.03	904	10.5

2(A)State's Load Deails (At State Periphery) in MU:

State	State's Control Area Generation (Net MU)							Drawal Sch (Net MU)	Act Drawal (Net MU)	UI (Net MU)	Requirement (Net MU)	Shortage (Net MU)	Consumption (Net MU)
	Thermal	Hydro	Gas/Naptha/Diesel	Solar	Wind	OthersBiomass/Small Hyd/Co-gen etc.)	Total						
PUNJAB	63.63	9.91	0	4.21	0	7.99	85.74	28.47	28.55	0.08	114.29	0	114.29
HARYANA	45.62	0.69	0	0.12	0	0.93	47.36	70.3	71.31	1.01	118.67	0	118.67
RAJASTHAN	130.84	4.4	1.89	13.65	4.88	4.41	160.06	66.76	70.05	3.29	230.11	0	230.11
DELHI	0	0	15.34	0	0	1.01	16.35	45.55	45.74	0.19	62.12	0.03	62.09
UTTAR PRADESH	126.27	7.52	0	2.47	0	16.8	153.05	113.72	114.13	0.41	267.18	0	267.18
UTTARAKHAND	0	8.75	2.33	0.49	0	0	11.57	22.74	24.19	1.45	35.98	0.22	35.76
HIMACHAL PRADESH	0	5.03	0	0	0	3.74	8.77	19.04	19.22	0.18	27.99	0	27.99
JAMMU & KASHMIR	0	7.92	0	0	0	0	7.92	36.55	36.91	0.36	55.08	10.25	44.83
CHANDIGARH	0	0	0	0	0	0	0	2.95	3.17	0.22	3.17	0	3.17
Region	366.36	44.22	19.56	20.94	4.88	34.88	490.82	406.08	413.27	7.19	914.59	10.5	904.09

2(B)State Demand Met (Peak and off-peak Hrs)

State	Evening Peak (19:00) MW				Off-Peak (03:00) MW			
	Demand Met	Shortage(-)/Surplus(+)	UI	STOA/PX Transaction	Demand Met	Shortage(-)/Sur ..	UI	STOA/PX Transaction
PUNJAB	5,434	0	65	-1,579	3,291	0	31	-1,286
HARYANA	6,093	0	82	-695	3,953	0	31	-684
RAJASTHAN	9,742	0	161	-1,220	8,295	0	356	60
DELHI	3,225	0	10	-1,288	1,614	0	29	-1,580
UTTAR PRADESH	13,074	0	-29	99	10,178	0	131	102
UTTARAKHAND	1,765	0	-16	400	1,211	0	67	361
HIMACHAL PRADESH	1,363	0	18	-119	861	0	-8	323
JAMMU & KASHMIR	2,039	510	57	489	1,677	296	53	489
CHANDIGARH	165	0	4	-51	86	0	9	-30
Region	42,900	510	352	-3,964	31,166	296	699	-2,245

2(C)State's Demand Met in MWs (Maximum Demand Met and Maximum requirement of the day details)

State	Maximum Demand, corresponding shortage and requirement details for the day				Maximum requirement, corresponding shortage and demand details for the day					
	Maximum Demand Met of the day	Time	Shortage(-) /Surplus(+) during at maximum demand	Requirement at the max demand met of the day	Maximum Requirement of the day	Time	Shortage(-) /Surplus(+) during at maximum Requirement	Demand Met at maximum requiremnet	Min Demand Met	Time
PUNJAB	5,443	18:00	0	5,443	5,443	18:00	0	5,443	3,237	4:00
HARYANA	6,093	19:00	0	6,093	6,093	19:00	0	6,093	3,889	2:00
RAJASTHAN	11,535	9:00	0	11,535	11,535	9:00	0	11,535	7,649	5:00
DELHI	3,230	11:00	0	3,230	3,230	11:00	0	3,230	1,577	4:00
UP	13,074	19:00	0	13,074	13,074	19:00	0	13,074	10,115	10:00
UTTARAKHAND	1,876	7:00	0	1,876	1,876	7:00	0	1,876	1,211	3:00
HP	1,544	8:00	0	1,544	1,544	8:00	0	1,544	861	3:00
J&K	2,173	9:00	543	2,716	2,716	9:00	543	2,173	1,604	24:00
CHANDIGARH	179	8:00	0	179	179	8:00	0	179	86	2:00
NR	42,898	19:00	510	43,408	43,408	19:00	510	42,898	30,799	4:00

3(A) State Entities Generation:

CHANDIGARH						
Station/Constituents	Inst. Capacity	N/A	N/A	Day Peak		Day Energy
	(MW)	Peak MW	Off Peak MW	(MW)	Hrs	(MU)
NIL						
Total	0	0	0			0
Total	0	0	0			0

DELHI							
Station/Constituents	Inst. Capacity	19:00	03:00	Day Peak		Day Energy	AVG. MW
	(MW)	Peak MW	Off Peak MW	(MW)	Hrs	(MU)	
BADARPUR TPS(2 * 210 + 3 * 100)	705	0	0	0			
RAJGHAT TPS(2 * 67.5)	135	0	0	0			
Total THERMAL	840	0	0			0	0
BAWANA GPS(2 * 253 + 4 * 216)	1,370	428	429	472		10.41	434
DELHI GAS TURBINES(3 * 34 + 6 * 30)	282	69	81	82.22		1.65	69
PRAGATI GAS TURBINES(1 * 121.2 + 2 * 104.6)	331	160	159	160.38		3.28	137
RITHALA GPS(3 * 36)	108	0	0	0			
Total GAS/NAPHTHA/DIESEL	2,091	657	669			15.34	640
WIND	0	0	0	0			
BIOMASS(1 * 16)	16	37	39	42.89		1.01	42
SOLAR(1 * 2)	2	0	0	0			
Total DELHI	2,949	694	708			16.35	682

HARIYANA							
Station/Constituents	Inst. Capacity	19:00	03:00	Day Peak		Day Energy	AVG. MW
	(MW)	Peak MW	Off Peak MW	(MW)	Hrs	(MU)	
DCRTPP (YAMUNA NAGAR)(2 * 300)	600	290	247	291	14:00	6.21	259
JHAJJAR(CLP)(2 * 660)	1,320	614	370	619	15:00	12.87	536
MAGNUM DIESEL (IPP)(4 * 6.3)	25	0	0	0			
PANIPAT TPS(2 * 210 + 2 * 250)	920	229	199	229	19:00	5.28	220
RGTPP(KHEGAR)(2 * 600)	1,200	1,065	772	1,146	12:00	21.26	886
Total THERMAL	4,065	2,198	1,588			45.62	1,901
FARIDABAD GPS(1 * 156.07 + 2 * 137.75)	432	0	0	0	00:00	0	0
Total GAS/NAPHTHA/DIESEL	432	0	0			0	0
TOTAL HYDRO HARYANA(1 * 62)	62	13	21	27	12:00	0.69	29
Total HYDEL	62	13	21			0.69	29
WIND	0	0	0	0			
BIOMASS(1 * 106)	106	0	0	0		0.93	39
SOLAR(1 * 50)	50	0	0	0		0.12	5
Total HARYANA	4,715	2,211	1,609			47.36	1,974

HIMACHAL PRADESH							
Station/Constituents	Inst. Capacity	19:00	03:00	Day Peak		Day Energy	AVG. MW
	(MW)	Peak MW	Off Peak MW	(MW)	Hrs	(MU)	
BASPA (IPP) HPS(3 * 100)	300	77	29	136	10:00	1.48	62
MALANA (IPP) HPS(2 * 43)	86	47	0	47	19:00	0.39	16
OTHER HYDRO HP(1 * 372)	372	172	108	180	19:00	3.16	132
Total HYDEL	758	296	137			5.03	210
WIND	0	0	0	0			
BIOMASS	0	0	0	0			
SOLAR	0	0	0	0			
SMALL HYDRO(1 * 486)	486	180	139	182	19:00	3.74	156
Total SMALL HYDRO	486	180	139			3.74	156
Total HP	1,244	476	276			8.77	366

JAMMU & KASHMIR							
Station/Constituents	Inst. Capacity	19:00	03:00	Day Peak		Day Energy	AVG. MW
	(MW)	Peak MW	Off Peak MW	(MW)	Hrs	(MU)	
GAS/DIESEL/OTHERS J&K(1 * 190)	190	0	0	0			
Total GAS/NAPHTHA/DIESEL	190	0	0			0	0
BAGLIHAR (IPP) HPS(6 * 150)	900	236	235	0		5.66	236
OTHER HYDRO/IPP J&K(1 * 308)	308	132	84	0		2.26	94
Total HYDEL	1,208	368	319			7.92	330
WIND	0	0	0	0			
BIOMASS	0	0	0	0			
SOLAR	0	0	0	0			
SMALL HYDRO(1 * 98)	98	0	0	0			
Total SMALL HYDRO	98	0	0			0	0
Total J&K	1,496	368	319			7.92	330

PUNJAB							
Station/Constituents	Inst. Capacity	19:00	03:00	Day Peak		Day Energy	AVG. MW
	(MW)	Peak MW	Off Peak MW	(MW)	Hrs	(MU)	
GOINDWAL(GVK)(2 * 270)	540	491	145	491		9.19	383
GURU GOBIND SINGH TPS (ROPAR)(6 * 210)	1,260	439	439	576		11.44	477
GURU HARGOBIND SINGH TPS (LEHRA MOHABBAT)(2 * 210 + 2 * 250)	920	184	172	232		4.79	200
GURU NANAK DEV TPS (BHATINDA)(4 * 110)	460	0	0	0		-0.01	0
RAJPURA(NPL) TPS(2 * 700)	1,400	660	510	660		13.98	583
TALWANDI SABO TPS(3 * 660)	1,980	1,152	616	1,228		24.23	1,010
Total THERMAL	6,560	2,926	1,882			63.62	2,653
TOTAL HYDRO PUNJAB(1 * 1000)	1,000	424	397	541		9.91	413
Total HYDEL	1,000	424	397			9.91	413
WIND	0	0	0	0			
BIOMASS(1 * 303)	303	0	0	0		7.99	333
SOLAR(1 * 859)	859	0	0	313		4.21	175
Total PUNJAB	8,722	3,350	2,279			85.73	3,574

RAJASTHAN							
Station/Constituents	Inst. Capacity	19:00	03:00	Day Peak		Day Energy	AVG. MW
	(MW)	Peak MW	Off Peak MW	(MW)	Hrs	(MU)	
BARSINGSAR (IPP) LTPS(2 * 125)	250	224	226	0		5.22	218
CHHABRA TPS(1 * 660 + 4 * 250)	1,660	1,496	1,323	0		34.48	1,437
GIRAL (IPP) LTPS(2 * 125)	250	0	0	0			
KALISINDH TPS(2 * 600)	1,200	555	402	0		11.68	487
KAWAI TPS(2 * 660)	1,320	1,235	858	0		26.51	1,105
KOTA TPS(2 * 110 + 2 * 195 + 3 * 210)	1,240	827	825	0		20.94	873
RAJWEST (IPP) LTPS(8 * 135)	1,080	722	384	0		14.05	585
SURATGARH TPS(6 * 250)	1,500	717	722	0		17.96	748
VSLPP (IPP)(1 * 135)	135	0	0	0			
Total THERMAL	8,635	5,776	4,740			130.84	5,453
DHOLPUR GPS(3 * 110)	330	0	0	0			
RAMGARH GPS(1 * 110 + 1 * 35.5 + 1 * 50 + 2 * 37.5)	271	77	78	0		1.89	79
Total GAS/NAPHTHA/DIESEL	601	77	78			1.89	79
RAPS-A(1 * 100 + 1 * 200)	300	158	160	0		3.69	154
Total NUCLEAR	300	158	160			3.69	154
TOTAL HYDRO RAJASTHAN(1 * 550)	550	175	170	0		4.4	183
Total HYDEL	550	175	170			4.4	183
WIND	4,292	146	196	0		4.88	203
BIOMASS(1 * 102)	102	30	30	0		0.72	30
SOLAR(1 * 1995)	1,995	10	0	0		13.65	569
Total RAJASTHAN	16,475	6,372	5,374			160.07	6,671

UTTAR PRADESH							
Station/Constituents	Inst. Capacity	19:00	03:00	Day Peak		Day Energy	AVG. MW
	(MW)	Peak MW	Off Peak MW	(MW)	Hrs	(MU)	
ANPARA TPS(2 * 500 + 3 * 210)	1,630	1,364	1,333	0		33.9	1,413
ANPARA-C TPS(2 * 600)	1,200	1,096	1,102	0		25.89	1,079
ANPARA-D TPS(2 * 500)	1,000	952	952	0		21.79	908
BAJAJ ENERGY PVT LTD (IPP) TPS(10 * 45)	450	0	0	0			
BARA PPGCL TPS(3 * 660)	1,980	525	348	0		11.38	474
HARDUAGANJ TPS(1 * 105 + 1 * 60 + 2 * 250)	665	445	259	0		9.25	385
LALITPUR TPS(3 * 660)	1,980	0	0	0			
MEJA TPS(1 * 660)	660	0	0	0			
OBRA TPS (2 * 94 + 5 * 200)	1,188	175	172	0		3.99	166
PANKI TPS(2 * 105)	210	0	0	0			
PARICHA TPS(2 * 110 + 2 * 210 + 2 * 250)	1,160	623	370	0		12.19	508
ROSA TPS(4 * 300)	1,200	0	0	0			
TANDA TPS(4 * 110)	440	386	376	0		7.89	329
Total THERMAL	13,763	5,566	4,912			126.28	5,262
ALAKHANDA HEP(4 * 82.5)	330	79	82	0		2.24	93
VISHNUPARYAG HPS(4 * 110)	440	108	103	0		2.54	106
OTHER HYDRO UP(1 * 527)	527	124	119	0		2.74	114
Total HYDEL	1,297	311	304			7.52	313
WIND	0	0	0	0			
BIOMASS(1 * 26)	26	0	0	0			
SOLAR(1 * 472)	472	0	0	0		2.47	103
CO-GENERATION(1 * 1360)	1,360	700	700	0		16.8	700
Total OTHERs	1,360	700	700			16.8	700
Total UP	16,918	6,577	5,916			153.07	6,378

UTTARAKHAND										
Station/Constituents	Inst. Capacity	19:00	03:00	Day Peak		Day Energy	AVG. MW			
	(MW)	Peak MW	Off Peak MW	(MW)	Hrs	(MU)				
TOTAL GAS UK(1 * 450)	450	94	94	96	21:00	2.33	97			
Total GAS/NAPHTHA/DIESEL	450	94	94			2.33	97			
OTHER HYDRO UK(1 * 1250)	1,250	463	250	581	07:00	8.75	365			
Total HYDEL	1,250	463	250			8.75	365			
WIND	0	0	0	0						
BIOMASS(1 * 127)	127	0	0	0						
SOLAR(1 * 100)	100	0	0	65	14:00	0.49	20			
SMALL HYDRO(1 * 180)	180	0	0	0						
Total SMALL HYDRO	180	0	0			0	0			
Total UTTARAKHAND	2,107	557	344			11.57	482			

3(B) Regional Entities Generation

Station/Constituents	Inst. Capacity	Declared Capacity	19:00	03:00	Day Peak		Day Energy		AVG. MW	UI
	(MW)	(MW)	Peak MW	Off Peak MW	(MW)	Hrs	SCHD (MU)	ACT (MU)		
BBMB										
BHAKRA HPS(2 * 108 + 3 * 126 + 5 * 157)	1,379	391.29	524	367	524	19:00	9.39	9.55	398	0.16
DEHAR HPS(6 * 165)	990	209.58	660	0	660	19:00	5.03	5.17	215	0.14
PONG HPS(6 * 66)	396	274.22	330	198	330	19:00	6.58	6.58	274	0
Sub-Total	2,765	875.09	1,514	565	-	-	21	21.3	887	0.3
NHPC										
BAIRASIUL HPS(3 * 60)	180	0	0	0	0	-	0	-	-	0
CHAMERA HPS(3 * 180)	540	535.58	537	0	541	18:00	3	3.19	133	0.19
CHAMERA II HPS(3 * 100)	300	169.13	204	0	204	20:00	2.03	2.22	93	0.19
CHAMERA III HPS(3 * 77)	231	153	156	0	161	07:00	1.4	1.51	63	0.11
DHAULIGANGA HPS(4 * 70)	280	61.39	139	73	146	18:00	1.47	1.49	62	0.02
DULHASTI HPS(3 * 130)	390	386.9	394	0	396	07:00	4.12	4.16	173	0.04
KISHANGANGA(2 * 110)	220	0	0	0	0	-	0	0	0	0
PARBATI III HEP(4 * 130)	520	33.38	262	0	262	19:00	0.8	0.83	35	0.03
SALAL HPS(6 * 115)	690	162.5	248	145	460	08:00	3.9	4.43	185	0.53
SEWA-II HPS(3 * 40)	120	80.09	80	0	81	06:00	0.5	0.52	22	0.02
TANAKPUR HPS(1 * 31.42 + 2 * 31.4)	94	39.4	42	39	66	17:00	0.95	1	42	0.05
URI HPS(4 * 120)	480	232.08	330	183	360	07:00	5.57	6.3	263	0.73
URI-II HPS(4 * 60)	480	136.54	134	122	182	08:00	3.28	3.36	140	0.08
Sub-Total	4,525	1,989.99	2,526	562	-	-	27.02	29.01	1,211	1.99
NPCL										
NAPS(2 * 220)	440	400	442	440	449	05:00	9.6	9.68	403	0.08
RAPS-B(2 * 220)	440	191.73	217	222	217	19:00	4.6	4.66	194	0.06
RAPS-C(2 * 220)	440	420	472	471	474	14:00	10.08	10.18	424	0.1
Sub-Total	1,320	1,011.73	1,131	1,133	-	-	24.28	24.52	1,021	0.24
NTPC										
ANTA GPS(1 * 153.2 + 3 * 88.71)	419	0	394	233	403	09:24	7.06	6.98	291	-0.08
AURAIYA GPS(2 * 109.3 + 4 * 111.19)	663	642.6	0	0	0	-	0	0.03	1	0.03
DADRI GPS(2 * 154.51 + 4 * 130.19)	830	617.92	156	117	188	10:00	2.5	2.77	115	0.27
DADRI SOLAR(1 * 5)	5	0.78	0	0	3	11:55	0.02	0.02	1	0
DADRI-I TPS(4 * 210)	840	593.75	472	317	472	19:00	9.08	8.86	369	-0.22
DADRI-II TPS(2 * 490)	980	928.55	510	845	510	19:00	16.09	16.58	691	0.49
ISTPP (JHAJJAR)(3 * 500)	1,500	947.5	991	556	991	19:00	19.3	19.04	793	-0.26
KOLDAM HPS(4 * 200)	800	654	577	0	593	07:00	3.75	3.71	155	-0.04
RIHAND-I STPS(2 * 500)	1,000	922.5	970	1,015	970	19:00	22.14	21.08	878	-1.06
RIHAND-II STPS(2 * 500)	1,000	651.18	914	503	914	19:00	15.6	15.08	628	-0.52
RIHAND-III STPS(2 * 500)	1,000	942.5	990	1,010	990	19:00	22.49	21.08	878	-1.41
SINGRAULI STPS(2 * 500 + 5 * 200)	2,000	1,862.5	2,019	2,027	2,019	19:00	44.7	44.95	1,873	0.25
SINGRAULI SOLAR(1 * 15)	15	2.48	0	0	0	-	0.06	0.06	3	0
UNCHAHAH II TPS(2 * 210)	420	382.2	361	238	361	19:00	7.61	7.81	325	0.2
UNCHAHAH III TPS(1 * 210)	210	191.1	179	142	179	19:00	3.92	3.97	165	0.05
UNCHAHAH IV TPS(1 * 500)	500	0	0	0	0	-	0	-	-	0
UNCHAHAH SOLAR(1 * 10)	10	1.68	0	0	0	-	0.04	0.04	2	0
UNCHAHAH TPS(2 * 210)	420	382.2	371	244	371	19:00	7.32	7.59	316	0.27
Sub-Total	12,612	9,723.44	8,904	7,247	-	-	181.68	179.65	7,484	-2.03
SJVNL										
NATHPA-JHAKRI HPS(6 * 250)	1,500	1,249.38	1,239	0	1,262	07:00	9.7	9.76	407	0.06
RAMPUR HEP(6 * 68.67)	412	348.12	357	0	366	07:00	2.71	2.81	117	0.1
Sub-Total	1,912	1,597.5	1,596	0	-	-	12.41	12.57	524	0.16
THDC										
KOTESHWAR HPS(4 * 100)	400	99.58	204	91	204	19:00	2.39	2.41	100	0.02
TEHRI HPS(4 * 250)	1,000	1,064	1,006	0	1,035	18:00	6.9	6.95	290	0.05
Sub-Total	1,400	1,163.58	1,210	91	-	-	9.29	9.36	390	0.07
Total	24,534	16,361.33	16,881	9,598			275.68	276.41	11,517	0.73

IPP/JV

Station/Constituents	Inst. Capacity	Declared Capacity	19:00	03:00	Day Peak		Day Energy		AVG. MW	UI
	(MW)	(MW)	Peak MW	Off Peak MW	(MW)	Hrs	SCHD (MU)	ACT (MU)		
IPP										
ADHPL(IPP) HPS(2 * 96)	192	0	0	0	0	-	0	0	0	0
BUDHIL HPS (IPP)(2 * 35)	70	0	69	0	69	19:00	0.31	0.34	14	0.03
KARCHAM WANGTOO HPS(4 * 250)	1,000	0	1,000	0	1,000	18:00	4.98	4.86	203	-0.12
MALANA2(2 * 50)	100	0	0	0	0	-	0	-	-	0
SAINJ HEP(2 * 50)	50	0	55	0	55	19:00	0.65	0.59	25	-0.06
SHREE CEMENT (IPP) TPS(2 * 150)	300	0	144	85	146	10:00	2.68	2.55	106	-0.13
Sub-Total	1,712	0	1,268	85	-	-	8.62	8.34	348	-0.28
Total	1,712	0	1,268	85	-	-	8.62	8.34	348	-0.28

Summary Section					
	Inst. Capacity	PEAK	OFF-PEAK	Day Energy	Day AVG.
Total State Control Area Generation	54,626	20,605	16,825	490.84	20,452
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]		6,666	8,295	144.58	7,679
Total Regional Availability(Gross)	80,872	45,420	34,803	920.17	39,995

Total Hydro Generation					
	Inst. Capacity	PEAK	OFF-PEAK	Day Energy	Day AVG.
Regional Entities Hydro	12,814	8,547	1,218	81.74	3,406
State Control Area Hydro	6,125	2,050	1,598	44.22	1,843
Total Regional Hydro	18,939	10,597	2,816	125.96	5,249

Total Renewable Generation					
	Inst. Capacity	PEAK	OFF-PEAK	Day Energy	Day AVG.
Regional Entities Renewable	30	0	0	0.12	5
State Control Area Renewable	9,214	403	404	40.21	1,675
Total Regional Renewable	9,244	403	404	40.33	1,680

4(A) INTER-REGIONAL EXCHANGES (Import=(+ve) /Export =(-ve))									
SL.No.	Element	19:00	03:00	Maximum Interchange (MW)		Import in MU	Export in MU	NET	
		(MW)	MW	Import (MW)	Export (MW)				
Import/Export between EAST REGION and NORTH REGION									
1	132KV-Garhwa-Rihand	-	-	-	-	-	-	-	
2	132KV-Karmnasa(PG)-Sahupuri(U ..	-	-	-	-	0.96	0	0.96	
3	132KV-Rihand-Sonnagar(PG)	-	-	-	-	0	0.57	-0.57	
4	220KV-Pusauli(PG)-Sahupuri(UP)	107	79	141	0	1.96	0	1.96	
5	400KV-Biharsharif(PG)-Baliala(PG)	-24	-16	16	132	0	1.01	-1.01	
6	400KV-Biharsharif(PG)-Varanasi(P..	67	84	40	114	0	0.81	-0.81	
7	400KV-Fatehpur(UP)-Sasaram	-	-	-	-	-	-	-	
8	400KV-Motihari(DMT)-Gorakhpur ..	246	288	368	0	7.23	0	7.23	
9	400KV-Muzaffarpur(PG)-Gorakhp ..	-46	46	250	98	1.46	0	1.46	
10	400KV-Patna(PG)-Baliala(PG)	434	504	642	0	12.83	0	12.83	
11	400KV-Sasaram-Allahabad(PG)	11	131	188	0	2.56	0	2.56	
12	400KV-Sasaram-Varanasi(PG)	70	210	216	0	4.8	0	4.8	
13	765KV-Fatehpur(PG)-Sasaram.	14	90	108	96	0.17	0	0.17	
14	765KV-Gaya(PG)-Baliala(PG)	103	106	198	0	3.24	0	3.24	
15	765KV-Gaya(PG)-Varanasi(PG)	139	122	376	0	4.78	0	4.78	
16	HVDC800KV-Alipurduar-Agra(PG)	150	300	300	0	7.58	0	7.58	
Sub-Total EAST REGION		1,271	1,944	2,843	440	47.57	2.39	45.18	
Import/Export between NORTH_EAST REGION and NORTH REGION									
1	HVDC800KV-BiswanathCharialli- ..	500	730	730	0	11.78	0	11.78	
Sub-Total NORTH_EAST REGION		500	730	730	0	11.78	0	11.78	
Import/Export between WEST REGION and NORTH REGION									
1	220KV-Auraiya(NT)-Malanpur(PG)	-44	-83	-	157	0	2.16	-2.16	
2	220KV-Badod(MP)-Kota(PG)	-113	-83	-	178	0	2.39	-2.39	
3	220KV-Badod(MP)-Modak(RJ)	-	-	-	-	-	-	-	
4	400KV-RAPS C(NP)-Sujalpur	-136	-156	-	194	0	4.31	-4.31	
5	400KV-Vindhyachal(PG)-Rihand(N ..	945	963	0	486	0	22.76	-22.76	
6	400KV-Zerda(PG)-Bhinmal(PG)	-116	-65	0	166	0	1.29	-1.29	
7	400KV-Zerda(PG)-Kankroli(RJ)	-273	-224	0	279	0	5.53	-5.53	
8	765KV-0rai-Gwalior(PG)	-315	-374	0	492	0	9.26	-9.26	
9	765KV-0rai-Jabalpur	106	377	650	0	8.23	0	8.23	
10	765KV-0rai-Satna	1,487	1,586	1,666	0	39.13	0	39.13	
11	765KV-Gwalior(PG)-Agra(PG)	1,121	1,278	1,638	0	32.01	0	32.01	
12	765KV-Phagi(RJ)-Gwalior(PG)	782	954	1,091	-	21.62	0	21.62	
13	HVDC500KV-Mundra(JH)-Mohind..	801	798	803	0	19.43	0	19.43	
14	HVDC500KV-Vindhyachal(PG)-Vindhaychal B/B	-250	-250	0	250	0	6.03	-6.03	
15	HVDC800KV-Champa(PG)-Kuruku..	900	900	900	0	20.93	0	20.93	
Sub-Total WEST REGION		4,895	5,621	6,748	2,202	141.35	53.73	87.62	
TOTAL IR EXCHANGE		6,666	8,295	10,321	2,642	200.7	56.12	144.58	

4(B) Inter Regional Schedule & Actual Exchange (Import=(+ve) /Export =(-ve)) in MU						
	ISGS/(LT+MT) Schedule	BILT Schedule	PX Schedule	Total IR Schedule	Total IR Actual	NET IR UI
NR-ER	55.21	-22.06	4.55	37.7	45.18	7.48

NR-WR	155.09	-34.59	-13.42	107.08	87.62	-19.46
Total	210.3	-56.65	-8.87	144.78	144.58	-0.2

5. Inter National Exchange with Nepal [Import (+ve)/Export(-ve)] [Linkwise]

Element	Peak	Off-Peak	Maximum Interchange(MW)		Energy (MU)		Net Energy
	MW	MW	Import	Export	Import	Export	(MU)
132KV-Tanakpur(NH)-Mahendranagar(PG)	18.85	0		23		0.2146	-0.2146

5. Frequency Profile

RANGE(Hz)	< 49.2	< 49.7	< 49.8	< 49.9	< 50.0	>= 49.9 - <= 50.05	> 50.05 - <= 50.1	> 50.1 - <= 50.2	> 50.2	> 50.05
%	0	0	0	2.6	48.3	78.3	14.4	4	.7	19.1

<-----Frequency (Hz)----->

Maximum		Minimum		Average Frequency	Freq Variation Index	Standard Deviation	Freq. in 15 mnt blk		Freq Dev Index (% of Time)
Frequency	Time	Frequency	Time				Max.	Min.	
50.25	22:00:10	49.84	05:13:20	50	0.033	0.058	50.18	49.92	21.7

6. Voltage Profile: 400kV

STATION	Maximum		Minimum		Voltage (in %)				Voltage Deviation Index (% of time)
	VOLTAGE	TIME	VOLTAGE	TIME	< 380	< 390	> 420	> 430	
Abdullapur(PG) - 400KV	426	22:00	409	10:45	0	0	40.63	0	40.63
Amritsar(PG) - 400KV	429	03:00	413	10:35	0	0	45.83	0	45.83
Ballabgarh(PG) - 400KV	427	04:00	403	10:40	0	0	31.6	0	31.6
Bareilly II(PG) - 400KV	420	22:00	420	22:00	.69	.69	0	0	.69
Bareilly(UP) - 400KV	421	21:55	403	10:40	0	0	.69	0	.69
Baspa(HP) - 400KV	430	03:05	412	10:50	0	0	46.18	0	46.18
Bassi(PG) - 400KV	415	20:25	394	06:45	0	0	0	0	0
Bawana(DTL) - 400KV	426	04:00	407	10:55	0	0	38.54	0	38.54
Dadri HVDC(PG) - 400KV	425	21:55	409	10:20	0	0	40.63	0	40.63
Gorakhpur(PG) - 400KV	417	04:00	405	10:45	0	0	0	0	0
Hisar(PG) - 400KV	423	04:00	423	04:00	26.74	26.74	13.54	0	40.28
Kanpur(PG) - 400KV	423	21:55	407	10:40	0	0	14.24	0	14.24
Kashipur(UT) - 400KV	402	00:00	402	00:00	0	0	0	0	0
Kishenpur(PG) - 400KV	421	03:00	406	18:15	0	0	5.21	0	5.21
Moga(PG) - 400KV	420	20:05	406	10:40	0	0	0	0	0
Nallagarh(PG) - 400KV	430	03:05	412	10:50	0	0	46.18	0	46.18
Rihand HVDC(PG) - 400KV	405	08:00	405	08:00	.35	.35	0	0	.35
Rihand(NT) - 400KV	404	03:00	401	17:50	0	0	0	0	0

6.1 Voltage Profile: 765kV

STATION	Maximum		Minimum		Voltage (in %)				Voltage Deviation Index (% of time)
	VOLTAGE	TIME	VOLTAGE	TIME	< 728	< 742	> 800	> 820	
Anta RS(RJ) - 765KV	790	04:05	768	06:25	0	0	0	0	0
Balia(PG) - 765KV	782	04:00	759	10:40	0	0	0	0	0
Bareilly II(PG) - 765KV	799	21:55	766	10:40	0	0	0	0	0
Bhiwani(PG) - 765KV	803	20:00	768	10:15	0	0	4.17	0	4.17
Fatehpur(PG) - 765KV	774	21:55	745	10:20	0	0	0	0	0
Jhatikara(PG) - 765KV	802	04:00	764	10:40	0	0	1.74	0	1.74
Lucknow II(PG) - 765KV	792	22:00	763	10:40	0	0	0	0	0
Meerut(PG) - 765KV	807	20:05	769	10:20	0	0	4.17	0	4.17
Moga(PG) - 765KV	799	20:05	759	06:25	0	0	0	0	0
Phagi(RJ) - 765KV	796	20:00	764	10:25	0	0	0	0	0
Unnao(UP) - 765KV	771	22:00	745	10:40	0	0	0	0	0

7(A). Short-Term Open Access Details:

State	Off- Peak Hours (03:00)			Peak Hours (19:00)			Day Energy (MU)			
	Bilateral (MW)	IEX (MW)	PXIL (MW)	Bilateral (MW)	IEX (MW)	PXIL (MW)	ISGS/(LT+MT) Schedule	BILT Schedule	PX Schedule	Total (MU)
PUNJAB	-1,680.35	394.04	0	-1,579.09	0	0	63.93	-38.71	3.25	28.47
HARYANA	-842.31	158.08	0	-801.49	106.07	0	88.5	-20.46	2.26	70.3
RAJASTHAN	-8.2	68.3	0	-8.2	-1,211.5	0	66.81	0.29	-0.34	66.76
DELHI	-1,009.87	-570.55	0	-1,021.79	-266.54	0	76.96	-25.74	-5.68	45.55
UTTAR PRADESH	102.25	0	0	98.83	0	0	117.69	-4.05	0.09	113.72
UTTARAKHAND	512.53	-151.31	0	479.57	-79.77	0	13.2	11.93	-2.4	22.74
HIMACHAL PRADESH	324.49	-1.13	0	144.18	-263.43	0	14.13	7.33	-2.42	19.04
JAMMU & KASHMIR	489.46	0	0	489.46	0	0	24.67	11.75	0.13	36.55
CHANDIGARH	0	-30.3	0	0	-50.5	0	3.72	0	-0.77	2.95
TOTAL	-2,112	-132.87	0	-2,198.53	-1,765.67	0	469.61	-57.66	-5.88	406.08

7(B). Short-Term Open Access Details

State	ISGS/(LT+MT) Schedule		Bilateral (MW)		IEX (MW)		PXIL (MW)	
	Maximum	Minimum	Maximum	Minimum	Maximum	Minimum	Maximum	Minimum
PUNJAB	3,439.62	2,195.38	-1,579.09	-1,680.35	591.06	0	0	0
HARYANA	4,573.43	2,903.37	-718.62	-1,001.5	159.84	-69.04	0	0
RAJASTHAN	4,146.05	2,144.28	88.81	-8.2	873.57	-1,362.4	0	0
DELHI	3,942.03	2,436.88	-877.94	-1,188.73	169.46	-619.23	0	0
UTTAR PRADESH	6,407.21	3,916.26	102.74	-462.45	19.55	0	0	0
UTTARAKHAND	812.22	364.1	541.74	461.77	16.17	-227.29	0	0
HIMACHAL PRADESH	1,264.06	248.68	413.29	144.18	173.39	-598.2	0	0
JAMMU & KASHMIR	1,617.69	719.69	489.46	489.46	344.78	-356.2	0	0
CHANDIGARH	287.14	107.26	0	0	0	-90.9	0	0

8. Major Reservoir Particulars

RESERVOIR	Parameters		Present Parameters		LAST YEAR		LAST DAY	
	MDDL (Mts)	FRL (Mts)	Level (Mts)	Energy (MU)	Level (Mts)	Energy (MU)	Inflow (m3/s)	Usage (m3/s)
Bhakra	445.62	513.59	508.05	1,456	505.19	1,312	246.16	251.68
Chamera-I	748.75	760	756.24	-	-	-	86.95	86.07
Gandhisagar	295.78	295.78	-	-	-	-	-	0
Jawahar Sagar	295.78	298.7	-	-	-	-	-	0
Koteshwar	598.5	612.5	610.14	5	610.53	5	153	158.67
Pong	384.05	426.72	420.19	903	415.09	681	89.06	371.12
RPS	343.81	352.8	-	-	-	-	-	0
RSD	487.91	527.91	522.14	3	510.35	3	103.5	137.41
Rihand	252.98	268.22	-	-	-	-	-	0
Tehri	740.04	829.79	823.5	1,076	820.2	1,006	90.25	153
TOTAL	-	-	-	3,443	-	3,007	768.92	1,157.95

9. System Reliability Indices (Violation of TTC and ATC):

(i)%age of times N-1 Criteria was violated in the inter - regional corridors

WR	0
ER	0
Simultaneous	0

ii)%age of times ATC violated on the inter-regional corridors

WR	0
ER	0
Simultaneous	0

iii)%age of times Angular Difference on Important Buses was beyond permissible limits(40 deg.)

Rihand-Dadri	0
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10. Zero Crossing Violations

State	No. of violations(Maximum 8 in a day)	Maximum number of continuous blocks without sign change
CHANDIGARH	4	30
DELHI	3	17
HARYANA	0	10
HIMACHAL PRADESH	0	12
JAMMU & KASHMIR	2	24
PUNJAB	0	11
RAJASTHAN	2	29
UTTAR PRADESH	1	17
UTTARAKHAND	5	40

11. Significant events (If any):

12.Grid Disturbance / Any Other Significant Event:

13.Weather Conditions :

14.Synchronisation of new generating units :

15.Synchronisation of new 220 / 400 / 765 KV lines and energising of bus / /substation :

- 1) 765kV bay no. 707, 708, 704 & 705 at 765/400kV Chittorgarh (Powergrid) S/s first time charged at 14.37 Hrs., 14.39 Hrs, 16.01 Hrs & 16.03 Hrs respectively.
2. 3X80 MVAR Line reactor (as bus reactor) of 765 kV of Chittorgarh - Banaskanta Ckt-1&2 at 765/400kV Chittorgarh (Powergrid) S/s first time charged at 16.39 Hrs. & 19.49 Hrs respectively.
3. Filter sub-bank no. 3 (HACQ-63) of ACF-6 at HVDC Kurukshetra, first time charged at 18.05 Hrs.
4. 220 kV Nehrian Hamirpur ckt-I First time charged at 19.52 hrs.

16.Tripping of lines in pooling stations :

17.Complete generation loss in a generating station :

Note: Data(regarding drawal,generation, shortage , inter-regional flows and reservoir levels)of the constituents filled in the report are as per last furnished data by the respective state/constituent to NRLDC.

Shift In Charge