



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

Power Supply Position in Northern Region For 01-Oct-2018

Date of Reporting:02-Oct-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
48,358	1,402	49,760	49.95	41,504	289	41,793	50.06	1,068	11.26

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

State	State's Control Area Generation (Net MU)							Drawal Sch	Act Drawal	UI	Requirement	Shortage	Consumption
	Thermal	Hydro	Gas/Naptha/ Diesel	Solar	Wind	OthersBiomass/Small Hyd/Co-gen etc.)	Total	(Net MU)	(Net MU)	(Net MU)	(Net MU)	(Net MU)	(Net MU)
PUNJAB	102.52	20.31	0	4.29	0	8.3	135.42	22.61	21.56	-1.05	156.98	0	156.98
HARYANA	33.56	0.96	0	0.15	0	0.24	34.9	98.8	100.59	1.79	137.07	1.58	135.49
RAJASTHAN	133.85	0	2.99	13.88	9.3	3.78	163.79	47.62	47.89	0.27	211.68	0	211.68
DELHI	6.96	0	17.87	0	0	0.8	25.63	69.98	68.74	-1.24	94.37	0	94.37
UTTAR PRADESH	212.3	19.2	0	2.9	0	1.2	235.6	126.32	126.94	0.62	362.54	0	362.54
UTTARAKHAND	0	20.15	0	0.73	0	0	20.88	16.87	16.77	-0.1	38.1	0.45	37.65
HIMACHAL PRADESH	0	10.66	0	0	0	9.43	20.09	6.22	6.12	-0.1	26.21	0	26.21
JAMMU & KASHMIR	0	13.52	0	0	0	0	13.52	30.1	25.41	-4.69	48.16	9.23	38.93
CHANDIGARH	0	0	0	0	0	0	0	4.71	4.22	-0.49	4.22	0	4.22
Region	489.19	84.8	20.86	21.95	9.3	23.75	649.83	423.23	418.24	-4.99	1,079.33	11.26	1,068.07

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	7,205	0	-141	-1,994	5,125	0	-55	-2,499
HARYANA	6,680	121	132	297	5,164	0	89	-411
RAJASTHAN	8,501	0	75	-614	8,148	0	-130	-1,405
DELHI	4,374	0	-146	-529	3,512	0	-27	-1,013
UTTAR PRADESH	16,521	850	78	80	16,021	80	85	760
UTTARAKHAND	1,923	0	191	121	1,388	0	-24	241
HIMACHAL PRADESH	1,215	0	0	-1,088	830	0	-12	-525
JAMMU & KASHMIR	1,723	431	-183	-233	1,187	209	-258	-35
CHANDIGARH	216	0	-59	0	128	0	6	-55
Region	48,358	1,402	-53	-3,960	41,503	289	-326	-4,942

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
PUNJAB	7,205	19:00	0	7,205	7,205	19:00	0	7,205
HARYANA	6,939	20:00	553	7,492	7,492	20:00	553	6,939
RAJASTHAN	9,546	10:00	0	9,546	9,546	10:00	0	9,546
DELHI	4,513	16:00	0	4,513	4,513	16:00	0	4,513
UP	16,741	21:00	0	16,741	16,741	21:00	0	16,741
UTTARAKHAND	1,923	19:00	0	1,923	1,923	19:00	0	1,923
HP	1,364	8:00	0	1,364	1,364	8:00	0	1,364
J&K	1,879	22:00	470	2,349	2,349	22:00	470	1,879
CHANDIGARH	216	19:00	0	216	216	19:00	0	216
NR	48,684	20:00	1,346	50,030	50,030	20:00	1,346	48,684

3(A) State Entities Generation:

CHANDIGARH							
Station/Constituents	Inst. Capacity	N/A	N/A	Day Peak		Day Energy	AVG. MW
	(MW)	Peak MW	Off Peak MW	(MW)	Hrs	(MU)	
NIL							
Total	0	0	0			0	0
Total	0	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	309	301	0		6.96	290
RAJGHAT TPS(2 * 67.5)	135	0	0	0			
Total THERMAL	840	309	301			6.96	290
BAWANA GPS(2 * 253 + 4 * 216)	1,370	679	503	0		13.93	580
DELHI GAS TURBINES(3 * 34 + 6 * 30)	282	36	37	0		0.31	13
PRAGATI GAS TURBINES(1 * 121.2 + 2 * 104.6)	331	147	151	0		3.63	151
RITHALA GPS(3 * 36)	108	0	0	0			
Total GAS/NAPTHA/DIESEL	2,091	862	691			17.87	744
WIND	0	0	0	0			
BIOMASS(1 * 16)	16	26	27	0		0.8	33
SOLAR(1 * 2)	2	0	0	0			
Total DELHI	2,949	1,197	1,019			25.63	1,067

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	287	263	288	21:00	6.08	253
JHAJJAR(CLP)(2 * 660)	1,320	1,135	624	1,234	00:00	21.32	888
MAGNUM DIESEL (IPP)(4 * 6.3)	25	0	0	0			
PANIPAT TPS(2 * 210 + 2 * 250)	920	225	226	228	10:00	5.35	223
RGTPP(KHEDAR)(2 * 600)	1,200	0	0	413	23:00	0.82	34
Total THERMAL	4,065	1,647	1,113			33.57	1,398
FARIDABAD GPS(1 * 156.07 + 2 * 137.75)	432	0	0	0			
Total GAS/NAPTHA/DIESEL	432	0	0			0	0
TOTAL HYDRO HARYANA(1 * 62)	62	28	28	29	09:00	0.96	40
Total HYDEL	62	28	28			0.96	40
WIND	0	0	0	0			
BIOMASS(1 * 106)	106	0	0	0		0.24	10
SOLAR(1 * 50)	50	0	0	0		0.15	6
Total HARYANA	4,715	1,675	1,141			34.92	1,454

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	124	165	0		3.7	154
MALANA (IPP) HPS(2 * 43)	86	86	30	0		1.11	46
OTHER HYDRO HP(1 * 372)	372	250	212	0		5.85	244
Total HYDEL	758	460	407			10.66	444
WIND	0	0	0	0			
BIOMASS	0	0	0	0			
SOLAR	0	0	0	0			
SMALL HYDRO(1 * 486)	486	388	404	0		9.43	393
Total SMALL HYDRO	486	388	404			9.43	393
Total HP	1,244	848	811			20.09	837

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/NAPTHA/DIESEL	190	0	0			0	0
BAGLIHAR (IPP) HPS(6 * 150)	900	581	381	0		10.86	453
OTHER HYDRO/IPP J&K(1 * 308)	308	149	78	0		2.66	111
Total HYDEL	1,208	730	459			13.52	564
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	730	459			13.52	564

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	466	290	491		8.39	350
GURU GOBIND SINGH TPS (ROPAR)(6 * 210)	1,260	439	467	558		11.24	468
GURU HARGOBIND SINGH TPS (LEHRA MOHABBAT)(2 * 210 + 2 * 250)	920	571	527	617		13.46	561
GURU NANAK DEV TPS (BHATINDA)(4 * 110)	460	0	0	0		-0.02	-1
RAJPURA(NPL) TPS(2 * 700)	1,400	1,320	1,320	1,320		31.59	1,316
TALWANDI SABO TPS(3 * 660)	1,980	1,623	1,530	1,841		37.87	1,578
Total THERMAL	6,560	4,419	4,134			102.53	4,272
TOTAL HYDRO PUNJAB(1 * 1000)	1,000	809	718	809		20.31	846
Total HYDEL	1,000	809	718			20.31	846
WIND	0	0	0	0			
BIOMASS(1 * 303)	303	0	0	0		8.3	346
SOLAR(1 * 859)	859	0	0	520		4.29	179
Total PUNJAB	8,722	5,228	4,852			135.43	5,643

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	92	0	0		0.56	23
CHHABRA TPS(1 * 660 + 4 * 250)	1,660	1,206	1,239	0		28.37	1,182
GIRAL (IPP) LTPS(2 * 125)	250	0	0	0			
KALISINDH TPS(2 * 600)	1,200	555	555	0		13.21	550
KAWAI TPS(2 * 660)	1,320	988	1,195	0		26.38	1,099
KOTA TPS(2 * 110 + 2 * 195 + 3 * 210)	1,240	796	853	0		19.06	794
RAJWEST (IPP) LTPS(8 * 135)	1,080	719	848	0		19.39	808
SURATGARH TPS (6 * 250)	1,500	1,065	1,086	0		26.9	1,121
VSLPP (IPP)(1 * 135)	135	0	0	0			
Total THERMAL	8,635	5,421	5,776			133.87	5,577
DHOLPUR GPS(3 * 110)	330	0	0	0			
RAMGARH GPS(1 * 110 + 1 * 35.5 + 1 * 50 + 2 * 37.5)	271	121	123	0		2.99	125
Total GAS/NAPTHA/DIESEL	601	121	123			2.99	125
RAPS-A(1 * 100 + 1 * 200)	300	158	157	0		3.49	145
Total NUCLEAR	300	158	157			3.49	145
TOTAL HYDRO RAJASTHAN(1 * 550)	550	0	0	0			
Total HYDEL	550	0	0			0	0
WIND	4,292	108	421	0		9.3	388
BIOMASS(1 * 102)	102	12	12	0		0.29	12
SOLAR(1 * 1995)	1,995	46	0	0		13.88	578
Total RAJASTHAN	16,475	5,866	6,489			163.82	6,825

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	1,167	1,176	0		29.9	1,246
ANPARA-C TPS(2 * 600)	1,200	865	842	0		20.4	850
ANPARA-D TPS(2 * 500)	1,000	933	932	0		21.7	904
BAJAJ ENERGY PVT LTD (IPP) TPS(10 * 45)	450	376	376	0		7.2	300
BARA PPGCL TPS(3 * 660)	1,980	888	908	0		21.8	908
HARDUAGANJ TPS(1 * 105 + 1 * 60 + 2 * 250)	665	538	538	0		12.5	521
LALITPUR TPS(3 * 660)	1,980	1,843	1,844	0		38.8	1,617
OBRA TPS (2 * 94 + 5 * 200)	1,188	489	511	0		12	500
PANKI TPS(2 * 105)	210	0	0	0			
PARICHA TPS(2 * 110 + 2 * 210 + 2 * 250)	1,160	889	655	0		17.4	725
ROSA TPS(4 * 300)	1,200	1,066	1,065	0		23.9	996
TANDA TPS(4 * 110)	440	285	292	0		6.7	279
Total THERMAL	13,103	9,339	9,139			212.3	8,846
ALAKHANDA HEP(4 * 82.5)	330	247	330	0		6.7	279
VISHNUPARYAG HPS(4 * 110)	440	315	325	0		7.6	317
OTHER HYDRO UP(1 * 527)	527	280	270	0		4.9	204
Total HYDEL	1,297	842	925			19.2	800
WIND	0	0	0	0			
BIOMASS(1 * 26)	26	0	0	0			
SOLAR(1 * 472)	472	0	0	0		2.9	121
CO-GENERATION(1 * 1360)	1,360	50	50	0		1.2	50
Total OTHERs	1,360	50	50			1.2	50
Total UP	16,258	10,231	10,114			235.6	9,817

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	0	0	0			
Total GAS/NAPTHA/DIESEL	450	0	0			0	0
OTHER HYDRO UK(1 * 1250)	1,250	880	834	883	18:00	20.15	840
Total HYDEL	1,250	880	834			20.15	840
WIND	0	0	0	0			
BIOMASS(1 * 127)	127	0	0	0			
SOLAR(1 * 100)	100	0	0	92	12:00	0.73	30
SMALL HYDRO(1 * 180)	180	0	0	0			
Total SMALL HYDRO	180	0	0			0	0
Total UTTARAKHAND	2,107	880	834			20.88	870

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	404.51	648	358	648	20:00	9.71	9.83	410	0.12
DEHAR HPS(6 * 165)	990	586.67	725	570	725	20:00	14.08	14.24	593	0.16
PONG HPS(6 * 66)	396	325	330	330	330	20:00	7.8	7.84	327	0.04
Sub-Total	2,765	1,316.18	1,703	1,258	-	-	31.59	31.91	1,330	0.32
NHPC										
BAIRASIUL HPS(3 * 60)	180	86.15	140	73	142	19:00	2.07	2.19	91	0.12
CHAMERA HPS(3 * 180)	540	534.33	541	545	554	15:45	12.8	13.05	544	0.25
CHAMERA II HPS(3 * 100)	300	268.88	302	300	303	19:00	6.34	6.52	272	0.18
CHAMERA III HPS(3 * 77)	231	180.38	212	212	214	01:00	4.33	4.39	183	0.06
DHAULIGANGA HPS(4 * 70)	280	179.74	282	209	283	19:00	4.27	4.35	181	0.08
DULHASTI HPS(3 * 130)	390	387.16	408	403	411	23:00	9.29	9.59	400	0.3
KISHANGANGA(2 * 110)	220	66.15	0	83	84	00:00	1.6	1.53	64	-0.07
PARBATI III HEP(4 * 130)	520	95.69	243	0	387	18:15	2.3	2.33	97	0.03
SALAL HPS(6 * 115)	690	328.38	255	356	684	07:00	7.88	8.65	360	0.77
SEWA-II HPS(3 * 40)	120	119.54	119	0	122	15:00	1.8	1.89	79	0.09
TANAKPUR HPS(1 * 31.42 + 2 * 31.4)	94	93.6	98	100	101	01:00	2.25	2.35	98	0.1
URI HPS(4 * 120)	480	191.88	218	132	357	08:00	4.6	5.22	218	0.62
URI-II HPS(4 * 60)	480	124.69	121	124	182	09:00	2.99	3.12	130	0.13
Sub-Total	4,525	2,656.57	2,939	2,537	-	-	62.52	65.18	2,717	2.66
NPCL										
NAPS(2 * 220)	440	385	426	430	436	10:00	9.24	9.27	386	0.03
RAPS-B(2 * 220)	440	383	421	426	427	02:00	9.19	9.13	380	-0.06
RAPS-C(2 * 220)	440	204	230	229	231	05:00	4.9	4.86	203	-0.04
Sub-Total	1,320	972	1,077	1,085	-	-	23.33	23.26	969	-0.07
NTPC										
ANTA GPS(1 * 153.2 + 3 * 88.71)	419	65.26	384	260	384	19:00	6.58	6.69	279	0.11
AURAIYA GPS(2 * 109.3 + 4 * 111.19)	663	185.53	625	296	625	19:00	7.87	8.15	340	0.28
DADRI GPS(2 * 154.51 + 4 * 130.19)	830	246.11	752	256	752	19:00	8.53	8.95	373	0.42
DADRI SOLAR(1 * 5)	5	0.91	0	0	0	-	0.02	0.02	1	0
DADRI-I TPS(4 * 210)	840	576.45	544	616	544	19:00	12.93	12.4	517	-0.53
DADRI-II TPS(2 * 490)	980	928.55	918	616	918	19:00	20.62	19.8	825	-0.82
ISTPP (JHAJJAR)(3 * 500)	1,500	1,137.45	1,133	1,489	1,508	07:24	27.09	26.93	1,122	-0.16
KOLDAM HPS(4 * 200)	800	872	795	0	795	-	8	8.46	353	0.46
RIHAND-I STPS(2 * 500)	1,000	730	780	777	780	19:00	17.18	18.59	775	1.41
RIHAND-II STPS(2 * 500)	1,000	942.5	1,005	1,012	1,005	19:00	22.11	23.89	995	1.78
RIHAND-III STPS(2 * 500)	1,000	471.25	501	506	501	19:00	11.05	11.96	498	0.91
SINGRAULI STPS(2 * 500 + 5 * 200)	2,000	1,810	1,947	1,966	1,947	19:00	43.37	43.56	1,815	0.19
SINGRAULI SOLAR(1 * 15)	15	2.72	0	0	0	-	0.07	0.07	3	0
UNCHAHAH II TPS(2 * 210)	420	382.2	416	374	416	19:00	8.59	8.42	351	-0.17
UNCHAHAH III TPS(1 * 210)	210	191.1	209	162	209	19:00	4.26	4.03	168	-0.23
UNCHAHAH IV TPS(1 * 500)	500	0	0	0	0	-	0	-	-	0
UNCHAHAH SOLAR(1 * 10)	10	2.27	0	0	0	-	0.05	0.05	2	0
UNCHAHAH TPS(2 * 210)	420	352.08	325	326	325	19:00	8.02	7.11	296	-0.91
Sub-Total	12,612	8,896.38	10,334	8,656	-	-	206.34	209.08	8,713	2.74
SJVNL										
NATHPA-JHAKRI HPS(6 * 250)	1,500	1,497.38	1,493	466	1,498	19:00	20.5	21	875	0.5
RAMPUR HEP(6 * 68.67)	412	442	415	126	442	18:45	5.71	6.09	254	0.38
Sub-Total	1,912	1,939.38	1,908	592	-	-	26.21	27.09	1,129	0.88
THDC										
KOTESHWAR HPS(4 * 100)	400	108.54	367	70	368	19:00	2.6	2.68	112	0.08
TEHRI HPS(4 * 250)	1,000	1,064	990	0	1,002	19:00	7.91	8.06	336	0.15
Sub-Total	1,400	1,172.54	1,357	70	-	-	10.51	10.74	448	0.23
Total	24,534	16,953.05	19,318	14,198			360.5	367.26	15,306	6.76

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	144	88	181	19:00	2.67	2.67	111	0
BUDHIL HPS (IPP)(2 * 35)	70	0	35	69	35	19:00	0.92	1.01	42	0.09
KARCHAM WANGTOO HPS(4 * 250)	1,000	0	1,000	270	1,000	18:30	10.89	11.19	466	0.3
MALANA2(2 * 50)	100	0	106	45	106	19:00	1.14	1.2	50	0.06
SAINJ HEP(2 * 50)	50	0	100	55	100	00:00	1.99	2	83	0.01
SHREE CEMENT (IPP) TPS(2 * 150)	300	0	297	298	298	03:00	7.17	7.1	296	-0.07
Sub-Total	1,712	0	1,682	825	-	-	24.78	25.17	1,048	0.39
Total	1,712	0	1,682	825			24.78	25.17	1,048	0.39

Summary Section					
	Inst. Capacity	PEAK	OFF-PEAK	Day Energy	Day AVG.
Total State Control Area Generation	53,966	26,655	25,719	649.89	27,079
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]		3,283	2,871	61.19	3,358
Total Regional Availability(Gross)	80,212	50,938	43,613	1,103.51	46,788

Total Hydro Generation					
	Inst. Capacity	PEAK	OFF-PEAK	Day Energy	Day AVG.
Regional Entities Hydro	12,814	10,087	4,984	161.45	6,727
State Control Area Hydro	6,125	3,749	3,371	84.8	3,533
Total Regional Hydro	18,939	13,836	8,355	246.25	10,260

Total Renewable Generation					
	Inst. Capacity	PEAK	OFF-PEAK	Day Energy	Day AVG.
Regional Entities Renewable	30	0	0	0.14	6
State Control Area Renewable	9,214	580	864	50.31	2,096
Total Regional Renewable	9,244	580	864	50.45	2,102

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	-31	-34	-	34	0	0.62	-0.62
2	132KV-Karmnasa(PG)-Sahupuri(U ..	-	-	-	-	-	-	-
3	132KV-Rihand-Sonnagar(PG)	-	-	-	-	-	-	-
4	220KV-Pusauli(PG)-Sahupuri(UP)	180	164	188	0	3.77	0	3.77
5	400KV-Biharsharif(PG)-Baliala(PG)	100	69	67	112	1.24	0	1.24
6	400KV-Biharsharif(PG)-Varanasi(P..	-404	-357	0	219	0	7.43	-7.43
7	400KV-Fatehpur(UP)-Sasaram	-	-	-	-	-	-	-
8	400KV-Motihari(DMT)-Gorakhpur ..	-302	-212	0	338	0	5.2	-5.2
9	400KV-Muzaffarpur(PG)-Gorakhp ..	189	89	334	266	0.36	0	0.36
10	400KV-Patna(PG)-Baliala(PG)	50	8	261	65	1.38	0	1.38
11	400KV-Sasaram-Allahabad(PG)	70	62	102	0	1.76	0	1.76
12	400KV-Sasaram-Varanasi(PG)	311	319	323	0	7.64	0	7.64
13	765KV-Fatehpur(PG)-Sasaram.	-486	-461	0	510	0	9.45	-9.45
14	765KV-Gaya(PG)-Baliala(PG)	98	37	118	36	0.81	0	0.81
15	765KV-Gaya(PG)-Varanasi(PG)	-372	-423	0	230	0	8.64	-8.64
16	HVDC800KV-Alipurduar-Agra(PG)	400	400	700	0	9.93	0	9.93
Sub-Total EAST REGION		-197	-339	2,093	1,810	26.89	31.34	-4.45

Import/Export between NORTH_EAST REGION and NORTH REGION								
1	HVDC800KV-BiswanathCharialli- ..	700	700	700	0	15.87	0	15.87
Sub-Total NORTH_EAST REGION		700	700	700	0	15.87	0	15.87

Import/Export between WEST REGION and NORTH REGION								
1	220KV-Auraiya(NT)-Malanpur(PG)	-199	-158	-	213	0	4.02	-4.02
2	220KV-Badod(MP)-Kota(PG)	-126	-183	-	84	0	3.78	-3.78
3	220KV-Badod(MP)-Modak(RJ)	-	-	-	-	-	-	-
4	400KV-RAPS C(NP)-Sujalpur	-	-	-	-	0	3.06	-3.06
5	400KV-Vindhyachal(PG)-Rihand(N ..	-475	-454	-	485	0	11.33	-11.33
6	400KV-Zerda(PG)-Bhinmal(PG)	-150	-265	0	377	0	5.87	-5.87
7	400KV-Zerda(PG)-Kankroli(RJ)	-306	-306	0	485	0	8.74	-8.74
8	765KV-0rai-Gwalior(PG)	-277	-182	0	292	0	5.54	-5.54
9	765KV-0rai-Jabalpur	47	54	177	544	3.03	0	3.03
10	765KV-0rai-Satna	1,234	1,151	1,272	0	28.54	0	28.54
11	765KV-Gwalior(PG)-Agra(PG)	807	592	876	0	10.68	0	10.68
12	765KV-Phagi(RJ)-Gwalior(PG)	475	211	476	-	5.59	0	5.59
13	HVDC500KV-Mundra(JH)-Mohind ..	1,300	1,300	1,304	0	31.49	0	31.49
14	HVDC500KV-Vindhyachal(PG)-Vindhaychal B/B	-250	-250	0	250	0	6.04	-6.04
15	HVDC800KV-Champa(PG)-Kuruku..	700	1,000	1,000	0	18.82	0	18.82
Sub-Total WEST REGION		2,780	2,510	5,105	2,730	98.15	48.38	49.77
TOTAL IR EXCHANGE		3,283	2,871	7,898	4,540	140.91	79.72	61.19

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	44.93	-6.2	-47.08	-8.35	-4.45	3.9	

NR-WR	149.51	7.5	-66.41	90.6	49.77	-40.83
Total	194.44	1.3	-113.49	82.25	61.19	-21.06

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)	21.65	0.05	0	26	0	0.2863	-0.2863

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	.6	18.4	72.6	74.7	6	.9	0	6.9

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

Maximum		Minimum		Average	Freq Variation	Standard	Freq. in 15 mnt blk		Freq Dev Index
Frequency	Time	Frequency	Time				Max.	Min.	
50.14	13:03:10	49.76	15:41:20	49.96	0.056	0.063	50.07	49.84	25.3

6.Voltage Profile: 400kV

	Maximum		Minimum		Voltage (in %)				Voltage Deviation Index (% of time)
STATION	VOLTAGE	TIME	VOLTAGE	TIME	< 380	< 390	> 420	> 430	
Abdullapur(PG) - 400KV	422	04:00	404	18:35	0	0	16.32	0	16.32
Abdullapur(PG) - 400KV	422	04:00	404	18:35	0	0	16.32	0	16.32
Amritsar(PG) - 400KV	421	04:00	406	18:35	0	0	8.33	0	8.33
Ballabgarh(PG) - 400KV	420	04:00	402	18:35	0	0	0	0	0
Bareilly II(PG) - 400KV	416	13:05	398	18:30	0	0	0	0	0
Bareilly(UP) - 400KV	417	13:00	399	18:30	0	0	0	0	0
Baspa(HP) - 400KV	426	03:50	404	18:40	0	0	35.42	0	35.42
Bassi(PG) - 400KV	419	04:00	402	18:55	0	0	0	0	0
Bawana(DTL) - 400KV	418	04:00	403	18:30	0	0	0	0	0
Dadri HVDC(PG). - 400KV	417	08:00	403	18:30	0	0	0	0	0
Gorakhpur(PG) - 400KV	414	13:05	388	18:10	0	.69	0	0	0
Hisar(PG) - 400KV	416	04:00	397	18:35	0	0	0	0	0
Kanpur(PG) - 400KV	420	13:05	404	18:25	0	0	0	0	0
Kashipur(UT) - 400KV	402	00:00	402	00:00	0	0	0	0	0
Kishenpur(PG) - 400KV	419	03:50	403	18:40	0	0	0	0	0
Moga(PG) - 400KV	412	04:00	396	18:35	0	0	0	0	0
Nallagarh(PG) - 400KV	426	03:50	404	18:40	0	0	35.42	0	35.42
Rihand HVDC(PG) - 400KV	409	08:00	409	08:00	1.04	1.04	0	0	1.04
Rihand(NT) - 400KV	408	08:00	402	18:20	0	0	0	0	0

6.1 Voltage Profile: 765kV

	Maximum		Minimum		Voltage (in %)				Voltage Deviation Index (% of time)
STATION	VOLTAGE	TIME	VOLTAGE	TIME	< 728	< 742	> 800	> 820	
Anta RS(RJ) - 765KV	792	03:35	776	15:00	0	0	0	0	0
Balia(PG) - 765KV	779	13:05	749	18:20	0	0	0	0	0
Bareilly II(PG) - 765KV	793	13:05	759	18:30	0	0	0	0	0
Bhiwani(PG) - 765KV	795	03:35	768	18:35	0	0	0	0	0
Fatehpur(PG) - 765KV	776	00:00	741	18:25	0	1.04	0	0	0
Jhatikara(PG) - 765KV	793	04:00	764	18:35	0	0	0	0	0
Lucknow II(PG) - 765KV	786	13:05	752	18:20	0	0	0	0	0
Meerut(PG) - 765KV	793	04:00	782	00:25	0	0	0	0	0
Moga(PG) - 765KV	777	04:00	748	18:35	0	0	0	0	0
Phagi(RJ) - 765KV	798	04:00	776	18:25	0	0	0	0	0
Unnao(UP) - 765KV	767	13:05	739	18:25	0	2.43	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	-177.39	-2,321.59	0	24.49	-2,018.77	0	72.39	-0.42	-49.36	22.61
HARYANA	44.03	-455.37	0	297.02	0	0	100.34	8.18	-9.71	98.8
RAJASTHAN	-33.74	-1,370.89	0	-33.74	-580.35	0	71.65	-0.81	-23.22	47.62
DELHI	-0.68	-1,011.88	0	-42.26	-486.31	0	85.26	0.02	-15.29	69.98
UTTAR PRADESH	640.95	119.22	0	104.1	-23.9	0	127.22	3.73	-4.62	126.32
UTTARAKHAND	88.29	152.59	0	117.69	2.95	0	11.39	2.21	3.27	16.87
HIMACHAL PRADESH	-101.14	-423.78	0	-102.14	-985.52	0	22.46	-2.46	-13.77	6.22
JAMMU & KASHMIR	-232.99	197.64	0	-232.99	0	0	28.13	-5.59	7.57	30.1
CHANDIGARH	0	-55.38	0	0	0	0	5.18	0	-0.46	4.71
TOTAL	227.33	-5,169.44	0	132.17	-4,091.9	0	524.02	4.86	-105.59	423.23

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	3,612.25	2,723.84	24.49	-177.39	-1,312.2	-2,321.59	0	0
HARYANA	4,802.59	3,749.45	685.94	44.03	0.59	-1,113.13	0	0
RAJASTHAN	3,458.77	2,476.11	-33.74	-33.74	-36.8	-2,299.84	0	0
DELHI	3,812.83	3,363.89	9.61	-42.26	-274.07	-1,154.85	0	0
UTTAR PRADESH	6,293.83	4,653.35	640.95	-64.79	238.06	-634.15	0	0
UTTARAKHAND	797.78	242.68	117.69	88.29	344.51	0.88	0	0
HIMACHAL PRADESH	1,478.79	577.36	-101.14	-103.72	-213.62	-1,102.78	0	0
JAMMU & KASHMIR	1,864.66	860.16	-232.99	-232.99	721.39	0	0	0
CHANDIGARH	284.78	163.11	0	0	0	-75.51	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	507.68	1,441	508.74	1,485	653.72	256.98
Chamera-I	748.75	760	758.46	-	-	-	289.9	354.11
Gandhisagar	295.78	295.78	-	-	-	-	-	0
Jawahar Sagar	295.78	298.7	-	-	-	-	-	0
Koteshwar	598.5	612.5	610.31	5	611.25	5	174	177.84
Pong	384.05	426.72	424.44	1,098	420.39	903	359.65	431.15
RPS	343.81	352.8	-	-	-	-	-	0
RSD	487.91	527.91	526.93	10	518.86	4	356.06	325.71
Rihand	252.98	268.22	-	-	-	-	-	0
Tehri	740.04	829.79	826.55	1,141	824.9	1,106	162.53	174
TOTAL	-	-	-	3,695	-	3,503	1,995.86	1,719.79

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	25
DELHI	4	37
HARYANA	1	15
HIMACHAL PRADESH	2	23
JAMMU & KASHMIR	2	22
PUNJAB	1	22
RAJASTHAN	1	17
UTTAR PRADESH	0	10
UTTARAKHAND	1	22

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. 315MVA ICT-I at Panki (UP) on No-Load First Time Charged @ 18:24Hrs
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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