



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

Power Supply Position in Northern Region For 27-Sep-2018

Date of Reporting:28-Sep-2018

1. Regional Availability/Demand:

Evening Peak (20:00) 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
47,578	1,138	48,717	49.86	38,882	216	39,098	49.98	1,007	10.35

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	66.75	18.23	0	4.29	0	8.3	97.57	39.89	39.19	-0.7	136.76	0	136.76
HARYANA	18.11	0.97	0	0.16	0	0.6	19.84	105.31	106.19	0.88	127.07	1.04	126.03
RAJASTHAN	120.98	0	2.95	13.34	10.04	4.11	151.41	51.21	51.37	0.16	202.78	0	202.78
DELHI	6.7	0	16.69	0	0	0	23.39	66.47	65	-1.47	88.4	0.01	88.39
UTTAR PRADESH	161.14	24.08	0	0	0	1.2	186.42	158.4	158.73	0.33	345.45	0.3	345.15
UTTARAKHAND	0	22.2	0	0.53	0	0	22.74	15.56	15.86	0.3	38.6	0	38.6
HIMACHAL PRADESH	0	11.18	0	0	0	7.95	19.12	5.75	7.02	1.27	26.27	0.13	26.14
JAMMU & KASHMIR	0	17	0	0	0	0	17	24.99	21.57	-3.42	47.44	8.87	38.57
CHANDIGARH	0	0	0	0	0	0	0	5.16	4.25	-0.91	4.25	0	4.25
Region	373.68	93.66	19.64	18.32	10.04	22.16	537.49	472.74	469.18	-3.56	1,017.02	10.35	1,006.67

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

State	Evening Peak (20:00) MW				Off-Peak (03:00) MW			
	Demand Met	Shortage(-)/Surplus(+)	UI	STOA/PX Transaction	Demand Met	Shortage(-)/Sur ..	UI	STOA/PX Transaction
PUNJAB	6,174	0	-200	-1,678	4,404	0	10	-2,009
HARYANA	6,484	425	23	603	4,777	0	140	13
RAJASTHAN	9,250	0	-30	-143	7,970	0	-5	-1,003
DELHI	4,254	0	-35	-485	3,087	0	17	-827
UTTAR PRADESH	16,322	260	-42	1,617	15,016	0	-4	1,864
UTTARAKHAND	1,828	0	-18	102	1,392	0	67	-60
HIMACHAL PRADESH	1,238	0	17	-1,276	887	0	89	-865
JAMMU & KASHMIR	1,813	453	-113	-661	1,222	216	16	-611
CHANDIGARH	214	0	-45	-40	127	0	-17	-25
Region	47,577	1,138	-443	-1,961	38,882	216	313	-3,523

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 requirement
PUNJAB	6,174	20:00	0	6,174	6,174	20:00	0	6,174
HARYANA	6,484	20:00	425	6,909	6,909	20:00	425	6,484
RAJASTHAN	9,250	20:00	0	9,250	9,250	20:00	0	9,250
DELHI	4,266	13:00	0	4,266	4,266	13:00	0	4,266
UP	16,322	20:00	260	16,582	16,582	20:00	260	16,322
UTTARAKHAND	1,898	19:00	0	1,898	1,898	19:00	0	1,898
HP	1,337	8:00	0	1,337	1,337	8:00	0	1,337
J&K	1,937	21:00	484	2,421	2,421	21:00	484	1,937
CHANDIGARH	222	19:00	0	222	222	19:00	0	222
NR	47,578	20:00	1,138	48,717	48,717	20:00	1,138	47,578

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	20:00	03:00	Day Peak		Day Energy	AVG. MW
	(MW)	Peak MW	Off Peak MW	(MW)	Hrs	(MU)	
BADARPUR TPS(2 * 210 + 3 * 100)	705	306	308	0		6.7	279
RAJGHAT TPS(2 * 67.5)	135	0	0	0			
Total THERMAL	840	306	308			6.7	279
BAWANA GPS(2 * 253 + 4 * 216)	1,370	521	524	0		12.37	515
DELHI GAS TURBINES(3 * 34 + 6 * 30)	282	34	34	0		0.83	35
PRAGATI GAS TURBINES(1 * 121.2 + 2 * 104.6)	331	146	151	0		3.5	146
RITHALA GPS(3 * 36)	108	0	0	0			
Total GAS/NAPHTHA/DIESEL	2,091	701	709			16.7	696
WIND	0	0	0	0			
BIOMASS(1 * 16)	16	29	40	0		0	0
SOLAR(1 * 2)	2	0	0	0			
Total DELHI	2,949	1,036	1,057			23.4	975

HARIYANA							
Station/Constituents	Inst. Capacity	20:00	03:00	Day Peak		Day Energy	AVG. MW
	(MW)	Peak MW	Off Peak MW	(MW)	Hrs	(MU)	
DCRTPP (YAMUNA NAGAR)(2 * 300)	600	0	0	0	00:00	0	0
JHAJJAR(CLP)(2 * 660)	1,320	602	437	604	19:00	13.16	548
MAGNUM DIESEL (IPP)(4 * 6.3)	25	0	0	0			
PANIPAT TPS(2 * 210 + 2 * 250)	920	226	199	226	20:00	4.95	206
RGTPP(KHEDAR)(2 * 600)	1,200	0	0	0	00:00	0	0
Total THERMAL	4,065	828	636			18.11	754
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	29	29	30	14:00	0.97	40
Total HYDEL	62	29	29			0.97	40
WIND	0	0	0	0			
BIOMASS(1 * 106)	106	0	0	0		0.6	25
SOLAR(1 * 50)	50	0	0	0		0.16	7
Total HARYANA	4,715	857	665			19.84	826

HIMACHAL PRADESH							
Station/Constituents	Inst. Capacity	20:00	03:00	Day Peak		Day Energy	AVG. MW
	(MW)	Peak MW	Off Peak MW	(MW)	Hrs	(MU)	
BASPA (IPP) HPS(3 * 100)	300	255	191	0		4.46	186
MALANA (IPP) HPS(2 * 43)	86	91	96	0		1.64	68
OTHER HYDRO HP(1 * 372)	372	242	215	0		5.08	212
Total HYDEL	758	588	502			11.18	466
WIND	0	0	0	0			
BIOMASS	0	0	0	0			
SOLAR	0	0	0	0			
SMALL HYDRO(1 * 486)	486	356	305	0		7.95	331
Total SMALL HYDRO	486	356	305			7.95	331
Total HP	1,244	944	807			19.13	797

JAMMU & KASHMIR							
Station/Constituents	Inst. Capacity	20:00	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	589	589	589		14.43	601
OTHER HYDRO/IPP J&K(1 * 308)	308	129	105	0		2.58	108
Total HYDEL	1,208	718	694			17.01	709
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	718	694			17.01	709

PUNJAB							
Station/Constituents	Inst. Capacity	20:00	03:00	Day Peak		Day Energy	AVG. MW
	(MW)	Peak MW	Off Peak MW	(MW)	Hrs	(MU)	
GOINDWAL(GVK)(2 * 270)	540	300	400	442		8.21	342
GURU GOBIND SINGH TPS (ROPAR)(6 * 210)	1,260	146	146	174		3.47	145
GURU HARGOBIND SINGH TPS (LEHRA MOHABBAT)(2 * 210 + 2 * 250)	920	184	186	343		4.52	188
GURU NANAK DEV TPS (BHATINDA)(4 * 110)	460	0	0	0		-0.02	-1
RAJPURA(NPL) TPS(2 * 700)	1,400	1,320	910	1,320		24.13	1,005
TALWANDI SABO TPS(3 * 660)	1,980	1,796	1,074	1,796		26.45	1,102
Total THERMAL	6,560	3,746	2,716			66.76	2,781
TOTAL HYDRO PUNJAB(1 * 1000)	1,000	653	636	804		18.23	760
Total HYDEL	1,000	653	636			18.23	760
WIND	0	0	0	0			
BIOMASS(1 * 303)	303	0	0	0		8.3	346
SOLAR(1 * 859)	859	0	0	611		4.29	179
Total PUNJAB	8,722	4,399	3,352			97.58	4,066

RAJASTHAN							
Station/Constituents	Inst. Capacity	20:00	03:00	Day Peak		Day Energy	AVG. MW
	(MW)	Peak MW	Off Peak MW	(MW)	Hrs	(MU)	
BARSINGSAR (IPP) LTPS(2 * 125)	250	0	0	0			
CHHABRA TPS(1 * 660 + 4 * 250)	1,660	1,102	1,196	0		28.9	1,204
GIRAL (IPP) LTPS(2 * 125)	250	0	0	0			
KALISINDH TPS(2 * 600)	1,200	535	424	0		11.11	463
KAWAI TPS(2 * 660)	1,320	1,208	1,013	0		25.78	1,074
KOTA TPS(2 * 110 + 2 * 195 + 3 * 210)	1,240	1,136	1,056	0		17.53	730
RAJWEST (IPP) LTPS(8 * 135)	1,080	726	725	0		11.11	463
SURATGARH TPS(6 * 250)	1,500	1,136	1,056	0		26.55	1,106
VSLPP (IPP)(1 * 135)	135	0	0	0			
Total THERMAL	8,635	5,843	5,470			120.98	5,040
DHOLPUR GPS(3 * 110)	330	0	0	0			
RAMGARH GPS(1 * 110 + 1 * 35.5 + 1 * 50 + 2 * 37.5)	271	122	126	0		2.95	123
Total GAS/NAPHTHA/DIESEL	601	122	126			2.95	123
RAPS-A(1 * 100 + 1 * 200)	300	159	159	0		3.66	153
Total NUCLEAR	300	159	159			3.66	153
TOTAL HYDRO RAJASTHAN(1 * 550)	550	0	0	0			
Total HYDEL	550	0	0			0	0
WIND	4,292	462	747	0		10.04	418
BIOMASS(1 * 102)	102	18	18	0		0.44	18
SOLAR(1 * 1995)	1,995	44	0	0		13.34	556
Total RAJASTHAN	16,475	6,648	6,520			151.41	6,308

UTTAR PRADESH							
Station/Constituents	Inst. Capacity	20:00	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	1,334	1,303	0		33.49	1,395
ANPARA-C TPS(2 * 600)	1,200	851	851	0		20.25	844
ANPARA-D TPS(2 * 500)	1,000	944	938	0		21.65	902
BAJAJ ENERGY PVT LTD (IPP) TPS(10 * 45)	450	57	57	0		1.24	52
BARA PPGCL TPS(3 * 660)	1,980	897	897	0		19.82	826
HARDUAGANJ TPS(1 * 105 + 1 * 60 + 2 * 250)	665	446	446	0		8.99	375
LALITPUR TPS(3 * 660)	1,980	0	0	0			
OBRA TPS (2 * 94 + 5 * 200)	1,188	526	524	0		12.23	510
PANKI TPS(2 * 105)	210	0	0	0			
PARICHA TPS(2 * 110 + 2 * 210 + 2 * 250)	1,160	857	709	0		15.94	664
ROSA TPS(4 * 300)	1,200	1,051	1,056	0		21.54	898
TANDA TPS(4 * 110)	440	287	292	0		5.98	249
Total THERMAL	13,103	7,250	7,073			161.13	6,715
ALAKHANDA HEP(4 * 82.5)	330	346	346	0		8.27	345
VISHNUPARYAG HPS(4 * 110)	440	410	427	0		10.25	427
OTHER HYDRO UP(1 * 527)	527	307	198	0		5.56	232
Total HYDEL	1,297	1,063	971			24.08	1,004
WIND	0	0	0	0			
BIOMASS(1 * 26)	26	0	0	0			
SOLAR(1 * 472)	472	0	0	0			
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	8,363	8,094			186.41	7,769

UTTARAKHAND										
Station/Constituents	Inst. Capacity	20:00	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	935	935	942	12:00	22.2	925			
Total HYDEL	1,250	935	935			22.2	925			
WIND	0	0	0	0						
BIOMASS(1 * 127)	127	0	0	0						
SOLAR(1 * 100)	100	0	0	84	12:00	0.53	22			
SMALL HYDRO(1 * 180)	180	0	0	0						
Total SMALL HYDRO	180	0	0			0	0			
Total UTTARAKHAND	2,107	935	935			22.73	947			

3(B) Regional Entities Generation

Station/Constituents	Inst. Capacity	Declared Capacity	20:00	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	373.67	486	368	486	20:00	8.97	8.97	374	0
DEHAR HPS(6 * 165)	990	610.42	725	610	725	20:00	14.65	14.78	616	0.13
PONG HPS(6 * 66)	396	325	330	330	330	20:00	7.8	7.83	326	0.03
Sub-Total	2,765	1,309.09	1,541	1,308	-	-	31.42	31.58	1,316	0.16
NHPC										
BAIRASIUL HPS(3 * 60)	180	70.37	119	60	120	22:00	1.69	1.83	76	0.14
CHAMERA HPS(3 * 180)	540	534.33	542	542	549	14:00	12.82	13.04	543	0.22
CHAMERA II HPS(3 * 100)	300	296.85	301	300	301	07:00	7.12	7.16	298	0.04
CHAMERA III HPS(3 * 77)	231	228.58	224	227	230	10:00	5.48	5.36	223	-0.12
DHAULIGANGA HPS(4 * 70)	280	236.65	283	281	287	04:00	5.64	5.71	238	0.07
DULHASTI HPS(3 * 130)	390	387.16	404	407	409	21:00	9.29	9.53	397	0.24
KISHANGANGA(2 * 110)	220	164.17	172	179	180	04:00	3.94	4.05	169	0.11
PARBATI III HEP(4 * 130)	520	151.1	357	121	364	19:00	3.63	3.65	152	0.02
SALAL HPS(6 * 115)	690	460.42	460	504	707	02:00	11.05	11.46	478	0.41
SEWA-II HPS(3 * 40)	120	130	130	131	135	06:00	3.12	3.15	131	0.03
TANAKPUR HPS(1 * 31.42 + 2 * 31.4)	94	93.84	99	98	99	20:00	2.25	2.36	98	0.11
URI HPS(4 * 120)	480	234.06	266	243	393	23:59	5.62	6.44	268	0.82
URI-II HPS(4 * 60)	480	135.94	154	182	183	09:00	3.26	3.51	146	0.25
Sub-Total	4,525	3,123.47	3,511	3,275	-	-	74.91	77.25	3,217	2.34
NPCL										
NAPS(2 * 220)	440	390	420	428	430	02:00	9.36	9.24	385	-0.12
RAPS-B(2 * 220)	440	378	423	425	423	20:00	9.07	9.17	382	0.1
RAPS-C(2 * 220)	440	205	230	230	231	05:00	4.92	4.85	202	-0.07
Sub-Total	1,320	973	1,073	1,083	-	-	23.35	23.26	969	-0.09
NTPC										
ANTA GPS(1 * 153.2 + 3 * 88.71)	419	0	376	236	390	21:43	7	6.77	282	-0.23
AURAIYA GPS(2 * 109.3 + 4 * 111.19)	663	0	630	372	630	20:00	9.95	10.26	428	0.31
DADRI GPS(2 * 154.51 + 4 * 130.19)	830	0	753	462	757	21:00	11.81	11.91	496	0.1
DADRI SOLAR(1 * 5)	5	0.88	0	0	3	11:54	0.02	0.02	1	0
DADRI-I TPS(4 * 210)	840	593.75	593	452	593	20:00	11.7	11.25	469	-0.45
DADRI-II TPS(2 * 490)	980	928.55	833	708	833	20:00	17.92	18.31	763	0.39
ISTPP (JHAJJAR)(3 * 500)	1,500	1,410.12	1,500	1,231	1,500	20:00	32	31.95	1,331	-0.05
KOLDAM HPS(4 * 200)	800	872	856	178	868	19:00	12.28	12.52	522	0.24
RIHAND-I STPS(2 * 500)	1,000	730	813	768	813	20:00	17.46	18.19	758	0.73
RIHAND-II STPS(2 * 500)	1,000	942.5	997	1,013	997	20:00	22.57	23.71	988	1.14
RIHAND-III STPS(2 * 500)	1,000	471.25	505	500	505	20:00	11.28	11.95	498	0.67
SINGRAULI STPS(2 * 500 + 5 * 200)	2,000	1,789.38	1,962	1,940	1,962	20:00	42.94	43.29	1,804	0.35
SINGRAULI SOLAR(1 * 15)	15	2.71	0	0	0	-	0.07	0.07	3	0
UNCHAHAH II TPS(2 * 210)	420	382.2	418	418	418	20:00	8.54	8.91	371	0.37
UNCHAHAH III TPS(1 * 210)	210	191.1	212	212	212	20:00	4.21	4.45	185	0.24
UNCHAHAH IV TPS(1 * 500)	500	0	0	0	0	-	0	-	-	0
UNCHAHAH SOLAR(1 * 10)	10	2.22	0	0	0	-	0.05	0.04	2	-0.01
UNCHAHAH TPS(2 * 210)	420	365.51	401	401	401	20:00	7.45	7.9	329	0.45
Sub-Total	12,612	8,682.17	10,849	8,891	-	-	217.25	221.5	9,230	4.25
SJVNL										
NATHPA-JHAKRI HPS(6 * 250)	1,500	1,497.38	1,558	508	1,632	19:00	23.65	24.58	1,024	0.93
RAMPUR HEP(6 * 68.67)	412	442	450	147	450	20:00	6.57	7.09	295	0.52
Sub-Total	1,912	1,939.38	2,008	655	-	-	30.22	31.67	1,319	1.45
THDC										
KOTESHWAR HPS(4 * 100)	400	168.44	411	65	413	19:00	4.04	4.11	171	0.07
TEHRI HPS(4 * 250)	1,000	1,064	1,021	248	1,026	19:00	13.52	13.74	573	0.22
Sub-Total	1,400	1,232.44	1,432	313	-	-	17.56	17.85	744	0.29
Total	24,534	17,259.55	20,414	15,525			394.71	403.11	16,795	8.4

IPP/JV

Station/Constituents	Inst. Capacity	Declared Capacity	20:00	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	203	146	230	20:00	3.51	3.73	155	0.22
BUDHIL HPS (IPP)(2 * 35)	70	0	73	70	73	19:00	1.64	1.69	70	0.05
KARCHAM WANGTOO HPS(4 * 250)	1,000	0	1,000	450	1,000	19:00	12.57	12.85	535	0.28
MALANA2(2 * 50)	100	0	105	105	105	20:00	1.64	1.71	71	0.07
SAINJ HEP(2 * 50)	50	0	110	108	110	00:00	1.64	2.57	107	0.93
SHREE CEMENT (IPP) TPS(2 * 150)	300	0	299	297	299	23:00	7.17	7.1	296	-0.07
Sub-Total	1,712	0	1,790	1,176	-	-	28.17	29.65	1,234	1.48
Total	1,712	0	1,790	1,176	-	-	28.17	29.65	1,234	1.48

Summary Section					
	Inst. Capacity	PEAK	OFF-PEAK	Day Energy	Day AVG.
Total State Control Area Generation	53,966	23,900	22,124	537.51	22,396
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]		4,477	2,575	71.82	5,998
Total Regional Availability(Gross)	80,212	50,581	41,400	1,042.09	46,426

Total Hydro Generation					
	Inst. Capacity	PEAK	OFF-PEAK	Day Energy	Day AVG.
Regional Entities Hydro	12,814	10,839	6,608	193.42	8,059
State Control Area Hydro	6,125	3,986	3,767	93.67	3,903
Total Regional Hydro	18,939	14,825	10,375	287.09	11,962

Total Renewable Generation					
	Inst. Capacity	PEAK	OFF-PEAK	Day Energy	Day AVG.
Regional Entities Renewable	30	0	0	0.13	5
State Control Area Renewable	9,214	909	1,110	45.65	1,902
Total Regional Renewable	9,244	909	1,110	45.78	1,907

4(A) INTER-REGIONAL EXCHANGES (Import=(+ve) /Export =(-ve))

SL.No.	Element	20:00	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 ..	-	-	1	-	0	0	0
3	132KV-Rihand-Sonnagar(PG)	-23	-26	-	33	0	0.66	-0.66
4	220KV-Pusauli(PG)-Sahupuri(UP)	189	175	189	0	3.9	0	3.9
5	400KV-Biharsharif(PG)-Baliala(PG)	-129	-75	0	130	0	1.55	-1.55
6	400KV-Biharsharif(PG)-Varanasi(P..	394	337	0	394	0	7.14	-7.14
7	400KV-Fatehpur(UP)-Sasaram	-	-	-	-	-	-	-
8	400KV-Motihari(DMT)-Gorakhpur ..	-318	-206	0	334	0	5.63	-5.63
9	400KV-Muzaffarpur(PG)-Gorakhp ..	154	34	357	154	1.28	0	1.28
10	400KV-Patna(PG)-Baliala(PG)	50	120	325	0	1.01	0	1.01
11	400KV-Sasaram-Allahabad(PG)	60	76	107	0	1.93	0	1.93
12	400KV-Sasaram-Varanasi(PG)	325	306	325	0	7.59	0	7.59
13	765KV-Fatehpur(PG)-Sasaram.	-518	-493	0	533	0	10.2	-10.2
14	765KV-Gaya(PG)-Baliala(PG)	86	35	124	0	3.11	0	3.11
15	765KV-Gaya(PG)-Varanasi(PG)	-340	-346	0	346	0	7.9	-7.9
16	HVDC800KV-Alipurduar-Agra(PG)	300	700	700	0	12.28	0	12.28
Sub-Total EAST REGION		230	637	2,128	1,924	31.1	33.08	-1.98
Import/Export between NORTH_EAST REGION and NORTH REGION								
1	HVDC800KV-BiswanathCharialli- ..	700	700	1,500	0	14.81	0	14.81
Sub-Total NORTH_EAST REGION		700	700	1,500	0	14.81	0	14.81
Import/Export between WEST REGION and NORTH REGION								
1	220KV-Auraiya(NT)-Malanpur(PG)	-178	-152	-	236	0	3.52	-3.52
2	220KV-Badod(MP)-Kota(PG)	-88	-137	-	194	0	2.77	-2.77
3	220KV-Badod(MP)-Modak(RJ)	-	-	-	-	-	-	-
4	400KV-RAPS C(NP)-Sujalpur	-8	-220	0	325	0	4.47	-4.47
5	400KV-Vindhyachal(PG)-Rihand(N ..	-473	-467	0	237	0	11.21	-11.21
6	400KV-Zerda(PG)-Bhinmal(PG)	-261	-269	0	406	0	6.9	-6.9
7	400KV-Zerda(PG)-Kankroli(RJ)	-356	-351	0	584	0	10.31	-10.31
8	765KV-0rai-Gwalior(PG)	-283	-231	0	375	0	7.23	-7.23
9	765KV-0rai-Jabalpur	34	41	435	0	3	0	3
10	765KV-0rai-Satna	1,419	1,187	1,714	0	35.13	0	35.13
11	765KV-Gwalior(PG)-Agra(PG)	1,162	686	1,260	0	18.82	0	18.82
12	765KV-Phagi(RJ)-Gwalior(PG)	529	203	589	-	8.58	0	8.58
13	HVDC500KV-Mundra(JH)-Mohind..	2,000	898	2,003	0	38.68	0	38.68
14	HVDC500KV-Vindhyachal(PG)-Vindhaychal B/B	-250	-250	0	250	0	6.03	-6.03
15	HVDC800KV-Champa(PG)-Kuruku..	300	300	900	0	7.22	0	7.22
Sub-Total WEST REGION		3,547	1,238	6,901	2,607	111.43	52.44	58.99
TOTAL IR EXCHANGE		4,477	2,575	10,529	4,531	157.34	85.52	71.82

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	46.85	19.93	-46.74	20.04	-1.98	-22.02

NR-WR	137.23	50.43	-106.66	81	58.99	-22.01
Total	184.08	70.36	-153.4	101.04	71.82	-29.22

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)	-21.2	-19.94		24		0.4302	0

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	.9	13.7	62.8	74.4	10.3	1.5	0	11.9

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

Maximum		Minimum		Average	Freq Variation	Standard	Freq. in 15 mnt blk		Freq Dev Index
Frequency	Time	Frequency	Time	Frequency	Index	Deviation	Max.	Min.	(% of Time)
50.14	08:02:50	49.76	18:25:10	49.97	0.053	0.067	50.1	49.81	25.6

6. Voltage Profile: 400kV

Maximum		Minimum		Voltage (in %)				Voltage Deviation Index
STATION	VOLTAGE	TIME	VOLTAGE	TIME	N/A	N/A	N/A	N/A

6.1 Voltage Profile: 765kV

Maximum		Minimum		Voltage (in %)				Voltage Deviation Index
STATION	VOLTAGE	TIME	VOLTAGE	TIME	N/A	N/A	N/A	N/A

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

State	Off- Peak Hours (03:00)			Peak Hours (20:00)			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	1,519.51	-3,528.94	0	1,346.86	-3,024.8	0	77.73	35.67	-73.5	39.89
HARYANA	1,124.14	-1,010.23	-101.08	805.43	-101.08	-101.08	106.32	18.1	-19.11	105.31
RAJASTHAN	-52.11	-950.99	0	-52.11	-91.09	0	67.39	-1.25	-14.93	51.21
DELHI	403.54	-1,231.02	0	486.44	-971.54	0	81.24	13.07	-27.85	66.47
UTTAR PRADESH	1,863.79	0	0	1,622.08	-4.77	0	127.88	38.3	-7.79	158.4
UTTARAKHAND	197.79	-257.79	0	96.71	5.41	0	14.46	3.03	-1.93	15.56
HIMACHAL PRADESH	-766.49	-98.69	0	-749.18	-526.89	0	30.72	-17.74	-7.24	5.75
JAMMU & KASHMIR	-660.86	49.46	0	-660.86	0	0	33.68	-15.86	7.17	24.99
CHANDIGARH	0	-25.14	0	0	-40.23	0	5.54	0	-0.39	5.16
TOTAL	3,629.31	-7,053.34	-101.08	2,895.37	-4,754.99	-101.08	544.96	73.32	-145.57	472.74

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	3,678.02	2,939.34	1,519.51	1,299.29	-2,823.15	-3,528.94	0	0
HARYANA	5,040.88	3,958.23	1,124.44	368.78	-100.49	-1,010.82	-101.08	-101.08
RAJASTHAN	3,289.43	2,420.57	-52.11	-52.11	-29.2	-1,697.03	0	0
DELHI	3,710.31	2,777.64	686.82	403.54	-787.66	-1,781.15	0	0
UTTAR PRADESH	6,358.66	4,577.53	1,878.08	1,455.35	0	-919.13	0	0
UTTARAKHAND	809.57	426.71	198.09	-4.37	6.5	-278.4	0	0
HIMACHAL PRADESH	1,634.59	884.94	-666.06	-851.03	9.44	-526.89	0	0
JAMMU & KASHMIR	2,103.43	1,102.01	-660.86	-660.86	643.04	-152.01	0	0
CHANDIGARH	296.07	184.06	0	0	0	-40.23	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	506.67	1,382	508.84	1,485	789.61	238.54
Chamera-I	748.75	760	-	-	-	-	-	0
Gandhisagar	295.78	295.78	-	-	-	-	-	0
Jawahar Sagar	295.78	298.7	-	-	-	-	-	0
Koteshwar	598.5	612.5	610.91	5	610.89	5	298	271.09
Pong	384.05	426.72	424.34	1,098	420.84	931	824.78	431.55
RPS	343.81	352.8	-	-	-	-	-	0
RSD	487.91	527.91	526.95	8	519.63	7	742.2	268.22
Rihand	252.98	268.22	264.32	579	263.77	512	-	0
Tehri	740.04	829.79	825.8	1,125	824.55	1,098	317.98	221
TOTAL	-	-	-	4,197	-	4,038	2,972.57	1,430.4

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

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

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

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

10. Zero Crossing Violations

State	No. of violations(Maximum 8 in a day)	Maximum number of continuous blocks without sign change

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 :

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