



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

Power Supply Position in Northern Region For 29-Oct-2018

Date of Reporting:30-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
43,561	376	43,937	50.04	33,181	210	33,391	49.96	929	9.96

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	61.38	12.61	0	4.21	0	7.99	86.19	42.49	42.22	-0.27	128.41	0	128.41
HARYANA	33.1	0.93	0	0.09	0	0.51	34.63	87.53	88.39	0.86	123.17	0.15	123.02
RAJASTHAN	137	3.2	1.84	14.55	8.65	4.51	169.75	50.89	54.99	4.1	224.74	0	224.74
DELHI	0	0	18.66	0	0	0	18.66	50.93	50.99	0.06	69.66	0.01	69.65
UTTAR PRADESH	151.78	12.47	0	2.67	0	2.4	169.32	117.1	116.52	-0.58	285.84	0	285.84
UTTARAKHAND	0	11.77	7.07	0.69	0	0	19.52	15.17	15.62	0.45	35.14	0	35.14
HIMACHAL PRADESH	0	6.3	0	0.02	0	4.48	10.81	13.61	14.98	1.37	26.6	0.81	25.79
JAMMU & KASHMIR	0	7.57	0	0	0	0	7.57	35.79	25.15	-10.64	41.71	8.99	32.72
CHANDIGARH	0	0	0	0	0	0	0	3.15	3.24	0.09	3.24	0	3.24
Region	383.26	54.85	27.57	22.23	8.65	19.89	516.45	416.66	412.1	-4.56	938.51	9.96	928.55

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	5,673	0	-94	-1,044	4,145	0	106	-943
HARYANA	6,424	0	92	-324	4,166	0	-9	-110
RAJASTHAN	9,369	0	-45	-1,053	8,159	0	238	-1,058
DELHI	3,582	0	-45	-821	2,065	0	-117	-1,576
UTTAR PRADESH	13,567	0	5	97	11,410	0	95	495
UTTARAKHAND	1,943	0	203	195	1,159	0	-2	8
HIMACHAL PRADESH	1,322	0	113	-450	800	0	22	62
JAMMU & KASHMIR	1,506	376	-509	243	1,191	210	-467	341
CHANDIGARH	175	0	-10	-40	87	0	1	-30
Region	43,561	376	-290	-3,197	33,182	210	-133	-2,811

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	5,715	12:00	0	5,715	5,715	12:00	0	5,715
HARYANA	6,424	19:00	0	6,424	6,424	19:00	0	6,424
RAJASTHAN	11,049	8:00	0	11,049	11,049	8:00	0	11,049
DELHI	3,582	19:00	0	3,582	3,582	19:00	0	3,582
UP	13,567	19:00	0	13,567	13,567	19:00	0	13,567
UTTARAKHAND	1,943	19:00	0	1,943	1,943	19:00	0	1,943
HP	1,429	8:00	0	1,429	1,429	8:00	0	1,429
J&K	1,586	8:00	397	1,983	1,983	8:00	397	1,586
CHANDIGARH	175	19:00	0	175	175	19:00	0	175
NR	43,561	19:00	376	43,937	43,937	19:00	376	43,561

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	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	498	479	0		12.75	531
DELHI GAS TURBINES(3 * 34 + 6 * 30)	282	157	159	0		2.05	85
PRAGATI GAS TURBINES(1 * 121.2 + 2 * 104.6)	331	157	159	0		3.86	161
RITHALA GPS(3 * 36)	108	0	0	0			
Total GAS/NAPHTHA/DIESEL	2,091	812	797			18.66	777
WIND	0	40	40	0		0	0
BIOMASS(1 * 16)	16	0	0	0			
SOLAR(1 * 2)	2	0	0	0			
Total DELHI	2,949	852	837			18.66	777

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	0	0	0			
JHAJJAR(CLP)(2 * 660)	1,320	1,237	741	1,237	19:00	24.02	1,001
MAGNUM DIESEL (IPP)(4 * 6.3)	25	0	0	0			
PANIPAT TPS(2 * 210 + 2 * 250)	920	0	0	0			
RGTPP(KHEDAR)(2 * 600)	1,200	398	379	405	13:00	9.08	378
Total THERMAL	4,065	1,635	1,120			33.1	1,379
FARIDABAD GPS(1 * 156.07 + 2 * 137.75)	432	0	0	0			
Total GAS/NAPHTHA/DIESEL	432	0	0			0	0
TOTAL HYDRO HARYANA(1 * 62)	62	28	28	29	01:00	0.93	39
Total HYDEL	62	28	28			0.93	39
WIND	0	0	0	0			
BIOMASS(1 * 106)	106	0	0	0		0.51	21
SOLAR(1 * 50)	50	0	0	0		0.09	4
Total HARYANA	4,715	1,663	1,148			34.63	1,443

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	138	59	197	07:00	1.88	78
MALANA (IPP) HPS(2 * 43)	86	40	0	40	08:00	0.43	18
OTHER HYDRO HP(1 * 372)	372	219	148	0		3.99	166
Total HYDEL	758	397	207			6.3	262
WIND	0	0	0	0			
BIOMASS	0	0	0	0			
SOLAR	0	0	0	3,675	13:00	0.02	1
SMALL HYDRO(1 * 486)	486	212	169	0		4.48	187
Total SMALL HYDRO	486	212	169			4.48	187
Total HP	1,244	609	376			10.8	450

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	236	236		5.68	237
OTHER HYDRO/IPP J&K(1 * 308)	308	105	65	105		1.88	78
Total HYDEL	1,208	341	301			7.56	315
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	341	301			7.56	315

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	160	145	160		3.76	157
GURU GOBIND SINGH TPS (ROPAR)(6 * 210)	1,260	146	0	146		2.84	118
GURU HARGOBIND SINGH TPS (LEHRA MOHABBAT)(2 * 210 + 2 * 250)	920	0	155	156		2.76	115
GURU NANAK DEV TPS (BHATINDA)(4 * 110)	460	0	0	0		-0.01	0
RAJPURA(NPL) TPS(2 * 700)	1,400	1,320	1,320	1,320		29.6	1,233
TALWANDI SABO TPS(3 * 660)	1,980	798	700	1,125		22.43	935
Total THERMAL	6,560	2,424	2,320			61.38	2,558
TOTAL HYDRO PUNJAB(1 * 1000)	1,000	551	414	625		12.61	525
Total HYDEL	1,000	551	414			12.61	525
WIND	0	0	0	0			
BIOMASS(1 * 303)	303	0	0	0		7.99	333
SOLAR(1 * 859)	859	0	0	396		4.21	175
Total PUNJAB	8,722	2,975	2,734			86.19	3,591

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	0	0	0			
CHHABRA TPS(1 * 660 + 4 * 250)	1,660	1,318	1,505	0		34.66	1,444
GIRAL (IPP) LTPS(2 * 125)	250	0	0	0			
KALISINDH TPS(2 * 600)	1,200	547	401	0		12.5	521
KAWAI TPS(2 * 660)	1,320	1,254	1,155	0		28.59	1,191
KOTA TPS(2 * 110 + 2 * 195 + 3 * 210)	1,240	651	519	0		14.39	600
RAJWEST (IPP) LTPS(8 * 135)	1,080	832	452	0		17.77	740
SURATGARH TPS(6 * 250)	1,500	1,093	1,087	0		27.24	1,135
VSLPP (IPP)(1 * 135)	135	97	29	0		1.85	77
Total THERMAL	8,635	5,792	5,148			137	5,708
DHOLPUR GPS(3 * 110)	330	0	0	0			
RAMGARH GPS(1 * 110 + 1 * 35.5 + 1 * 50 + 2 * 37.5)	271	84	86	0		1.84	77
Total GAS/NAPHTHA/DIESEL	601	84	86			1.84	77
RAPS-A(1 * 100 + 1 * 200)	300	162	165	0		3.83	160
Total NUCLEAR	300	162	165			3.83	160
TOTAL HYDRO RAJASTHAN(1 * 550)	550	122	77	0		3.2	133
Total HYDEL	550	122	77			3.2	133
WIND	4,292	184	538	0		8.65	360
BIOMASS(1 * 102)	102	28	28	0		0.68	28
SOLAR(1 * 1995)	1,995	10	0	0		14.55	606
Total RAJASTHAN	16,475	6,382	6,042			169.75	7,072

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	0	1,334	0		34.01	1,417
ANPARA-C TPS(2 * 600)	1,200	0	1,105	0		26.16	1,090
ANPARA-D TPS(2 * 500)	1,000	0	476	0		10.98	458
BAJAJ ENERGY PVT LTD (IPP) TPS(10 * 45)	450	0	0	0			
BARA PPGCL TPS(3 * 660)	1,980	0	1,038	0		24.66	1,028
HARDUAGANJ TPS(1 * 105 + 1 * 60 + 2 * 250)	665	0	313	0		7.32	305
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	0	0	0			
PANKI TPS(2 * 105)	210	0	0	0			
PARICHA TPS(2 * 110 + 2 * 210 + 2 * 250)	1,160	0	622	0		17.96	748
ROSA TPS(4 * 300)	1,200	0	833	0		23.13	964
TANDA TPS(4 * 110)	440	0	268	0		7.56	315
Total THERMAL	13,763	0	5,989			151.78	6,325
ALAKHANDA HEP(4 * 82.5)	330	0	170	0		3.18	133
VISHNUPARYAG HPS(4 * 110)	440	0	147	0		3.48	145
OTHER HYDRO UP(1 * 527)	527	0	252	0		5.81	242
Total HYDEL	1,297	0	569			12.47	520
WIND	0	0	0	0			
BIOMASS(1 * 26)	26	0	0	0			
SOLAR(1 * 472)	472	0	0	0		2.67	111
CO-GENERATION(1 * 1360)	1,360	100	100	0		2.4	100
Total OTHERs	1,360	100	100			2.4	100
Total UP	16,918	100	6,658			169.32	7,056

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	293	300	305	07:00	7.07	295			
Total GAS/NAPHTHA/DIESEL	450	293	300			7.07	295			
OTHER HYDRO UK(1 * 1250)	1,250	681	442	681	19:00	11.77	490			
Total HYDEL	1,250	681	442			11.77	490			
WIND	0	0	0	0						
BIOMASS(1 * 127)	127	0	0	0						
SOLAR(1 * 100)	100	0	0	106	13:00	0.69	29			
SMALL HYDRO(1 * 180)	180	0	0	0						
Total SMALL HYDRO	180	0	0			0	0			
Total UTTARAKHAND	2,107	974	742			19.53	814			

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	577.21	1,089	411	1,089	19:00	13.85	14.16	590	0.31
DEHAR HPS(6 * 165)	990	277.29	645	165	645	19:00	6.66	6.76	282	0.1
PONG HPS(6 * 66)	396	260	264	264	264	01:00	6.24	6.26	261	0.02
Sub-Total	2,765	1,114.5	1,998	840	-	-	26.75	27.18	1,133	0.43
NHPC										
BAIRASIUL HPS(3 * 60)	180	0	0	0	0	-	0	0	0	0
CHAMERA HPS(3 * 180)	540	534.33	539	0	552	18:00	3.6	3.79	158	0.19
CHAMERA II HPS(3 * 100)	300	118.94	300	0	301	20:00	2.37	2.57	107	0.2
CHAMERA III HPS(3 * 77)	231	174.2	227	0	232	18:00	1.62	1.74	73	0.12
DHAULIGANGA HPS(4 * 70)	280	78.64	134	70	140	18:00	1.87	1.92	80	0.05
DULHASTI HPS(3 * 130)	390	386.9	392	0	398	07:00	5.38	5.49	229	0.11
KISHANGANGA(2 * 110)	220	71.25	188	65	202	20:00	1.71	1.79	75	0.08
PARBATI III HEP(4 * 130)	520	36.97	389	0	391	03:00	0.89	0.94	39	0.05
SALAL HPS(6 * 115)	690	167.92	256	147	545	20:00	4.03	4.43	185	0.4
SEWA-II HPS(3 * 40)	120	119.54	117	0	122	18:00	0.5	0.53	22	0.03
TANAKPUR HPS(1 * 31.42 + 2 * 31.4)	94	54.69	77	54	96	07:00	1.31	1.34	56	0.03
URI HPS(4 * 120)	480	120.83	32	135	356	08:00	2.9	3.32	138	0.42
URI-II HPS(4 * 60)	480	82.76	79	78	182	23:00	1.99	2.02	84	0.03
Sub-Total	4,525	1,946.97	2,730	549	-	-	28.17	29.88	1,246	1.71
NPCL										
NAPS(2 * 220)	440	399	433	442	447	05:00	9.58	9.56	398	-0.02
RAPS-B(2 * 220)	440	193	217	219	217	19:00	4.63	4.98	208	0.35
RAPS-C(2 * 220)	440	420	465	468	469	01:00	10.08	10.15	423	0.07
Sub-Total	1,320	1,012	1,115	1,129	-	-	24.29	24.69	1,029	0.4
NTPC										
ANTA GPS(1 * 153.2 + 3 * 88.71)	419	78.2	377	149	385	18:06	6.09	5.97	249	-0.12
AURAIYA GPS(2 * 109.3 + 4 * 111.19)	663	315.16	643	101	643	19:00	5.63	5.56	232	-0.07
DADRI GPS(2 * 154.51 + 4 * 130.19)	830	241.2	751	159	758	-	9.99	10.12	422	0.13
DADRI SOLAR(1 * 5)	5	0.87	0	0	3	-	0.02	0.02	1	0
DADRI-I TPS(4 * 210)	840	432.33	458	352	458	19:00	9.16	9.02	376	-0.14
DADRI-II TPS(2 * 490)	980	696.41	740	637	740	19:00	15.5	15.64	652	0.14
ISTPP (JHAJJAR)(3 * 500)	1,500	947.5	976	858	1,012	23:35	21.89	21.52	897	-0.37
KOLDAM HPS(4 * 200)	800	872	633	0	874	-	4.5	4.55	190	0.05
RIHAND-I STPS(2 * 500)	1,000	922.5	942	1,007	942	19:00	22.03	23.61	984	1.58
RIHAND-II STPS(2 * 500)	1,000	942.5	923	1,012	923	19:00	22.58	22.95	956	0.37
RIHAND-III STPS(2 * 500)	1,000	471.25	493	504	493	19:00	11.23	11.02	459	-0.21
SINGRAULI STPS(2 * 500 + 5 * 200)	2,000	1,810	1,954	1,957	1,954	19:00	43.44	43.93	1,830	0.49
SINGRAULI SOLAR(1 * 15)	15	2.64	0	0	0	-	0.06	0.06	3	0
UNCHAHAH II TPS(2 * 210)	420	382.2	396	281	396	19:00	8.55	8.22	343	-0.33
UNCHAHAH III TPS(1 * 210)	210	191.1	184	202	184	19:00	4.33	4.16	173	-0.17
UNCHAHAH IV TPS(1 * 500)	500	0	0	0	0	-	0	-	-	0
UNCHAHAH SOLAR(1 * 10)	10	1.97	0	0	7	12:02	0.05	0.05	2	0
UNCHAHAH TPS(2 * 210)	420	382.2	400	234	400	19:00	8.68	8.21	342	-0.47
Sub-Total	12,612	8,690.03	9,870	7,453	-	-	193.73	194.61	8,111	0.88
SJVNL										
NATHPA-JHAKRI HPS(6 * 250)	1,500	1,497.38	1,479	0	1,490	18:00	11.7	11.9	496	0.2
RAMPUR HEP(6 * 68.67)	412	442	413	0	439	18:00	3.26	3.41	142	0.15
Sub-Total	1,912	1,939.38	1,892	0	-	-	14.96	15.31	638	0.35
THDC										
KOTESHWAR HPS(4 * 100)	400	103.75	203	91	203	19:00	2.49	2.53	105	0.04
TEHRI HPS(4 * 250)	1,000	1,064	992	0	1,016	07:00	7	7.09	295	0.09
Sub-Total	1,400	1,167.75	1,195	91	-	-	9.49	9.62	400	0.13
Total	24,534	15,870.63	18,800	10,062			297.39	301.29	12,557	3.9

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	66	0	164	19:00	1.01	0.99	41	-0.02
BUDHIL HPS (IPP)(2 * 35)	70	0	69	0	70	19:00	0.51	0.43	18	-0.08
KARCHAM WANGTOO HPS(4 * 250)	1,000	0	1,000	0	1,000	19:00	6.4	6.36	265	-0.04
MALANA2(2 * 50)	100	0	10	0	100	09:00	0.42	0.42	18	0
SAINJ HEP(2 * 50)	50	0	55	30	55	08:00	0.74	0.81	34	0.07
SHREE CEMENT (IPP) TPS(2 * 150)	300	0	295	206	297	15:00	6.69	6.57	274	-0.12
Sub-Total	1,712	0	1,495	236	-	-	15.77	15.58	650	-0.19
Total	1,712	0	1,495	236	-	-	15.77	15.58	650	-0.19

Summary Section					
	Inst. Capacity	PEAK	OFF-PEAK	Day Energy	Day AVG.
Total State Control Area Generation	54,626	13,896	18,838	516.44	21,518
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]		5,380	6,269	121.07	5,958
Total Regional Availability(Gross)	80,872	39,571	35,405	954.38	40,679

Total Hydro Generation					
	Inst. Capacity	PEAK	OFF-PEAK	Day Energy	Day AVG.
Regional Entities Hydro	12,814	9,648	1,510	95.55	3,981
State Control Area Hydro	6,125	2,120	2,038	54.84	2,285
Total Regional Hydro	18,939	11,768	3,548	150.39	6,266

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	474	775	44.54	1,856
Total Regional Renewable	9,244	474	775	44.67	1,861

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	0.96	0
3	132KV-Rihand-Sonnagar(PG)	-	-	-	-	0	0.66	-0.66
4	220KV-Pusauli(PG)-Sahupuri(UP)	-	-	-	-	3	0	3
5	400KV-Biharsharif(PG)-Baliala(PG)	76	21	99	76	0.18	0	0.18
6	400KV-Biharsharif(PG)-Varanasi(P..	-229	-95	0	229	0	2.51	-2.51
7	400KV-Fatehpur(UP)-Sasaram	-	-	-	-	-	-	-
8	400KV-Motihari(DMT)-Gorakhpur ..	152	272	308	0	6.03	0	6.03
9	400KV-Muzaffarpur(PG)-Gorakhp ..	103	59	331	120	1.49	0	1.49
10	400KV-Patna(PG)-Baliala(PG)	253	499	599	0	11.02	0	11.02
11	400KV-Sasaram-Allahabad(PG)	108	133	148	0	3.02	0	3.02
12	400KV-Sasaram-Varanasi(PG)	147	106	150	0	6.3	0	6.3
13	765KV-Fatehpur(PG)-Sasaram.	-258	-180	0	276	0	3.88	-3.88
14	765KV-Gaya(PG)-Baliala(PG)	41	100	142	0	2	0	2
15	765KV-Gaya(PG)-Varanasi(PG)	139	-88	258	165	1.56	0	1.56
16	HVDC800KV-Alipurduar-Agra(PG)	250	250	250	0	5.29	0	5.29
Sub-Total EAST REGION		782	1,077	2,285	866	40.85	8.01	32.84
Import/Export between NORTH_EAST REGION and NORTH REGION								
1	HVDC800KV-BiswanathCharialli- ..	700	450	700	0	13.54	0	13.54
Sub-Total NORTH_EAST REGION		700	450	700	0	13.54	0	13.54
Import/Export between WEST REGION and NORTH REGION								
1	220KV-Auraiya(NT)-Malanpur(PG)	-136	-89	-	199	0	3.01	-3.01
2	220KV-Badod(MP)-Kota(PG)	-98	-42	5	-	0	1.67	-1.67
3	220KV-Badod(MP)-Modak(RJ)	-	-	-	-	-	-	-
4	400KV-RAPS C(NP)-Sujalpur	-323	-190	0	500	0	3.32	-3.32
5	400KV-Vindhyachal(PG)-Rihand(N ..	461	480	0	244	0	10.45	-10.45
6	400KV-Zerda(PG)-Bhinmal(PG)	169	171	57	239	0	2.67	-2.67
7	400KV-Zerda(PG)-Kankroli(RJ)	-371	-245	0	450	0	7.02	-7.02
8	765KV-0rai-Gwalior(PG)	-296	-489	0	507	0	9.62	-9.62
9	765KV-0rai-Jabalpur	-18	131	498	273	2.75	0	2.75
10	765KV-0rai-Satna	1,424	1,486	1,599	0	33.87	0	33.87
11	765KV-Gwalior(PG)-Agra(PG)	1,055	1,437	1,485	0	25.54	0	25.54
12	765KV-Phagi(RJ)-Gwalior(PG)	630	841	1,203	-	19.77	0	19.77
13	HVDC500KV-Mundra(JH)-Mohind..	1,001	1,001	1,004	0	24.24	0	24.24
14	HVDC500KV-Vindhyachal(PG)-Vindhaychal B/B	-250	-250	-	250	0	6.03	-6.03
15	HVDC800KV-Champa(PG)-Kuruku..	650	500	650	0	12.31	0	12.31
Sub-Total WEST REGION		3,898	4,742	6,501	2,662	118.48	43.79	74.69
TOTAL IR EXCHANGE		5,380	6,269	9,486	3,528	172.87	51.8	121.07

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	41.58	-3.32	0.16	38.42	32.84	-5.58

NR-WR	157.25	-11.37	-44.05	101.83	74.69	-27.14
Total	198.83	-14.69	-43.89	140.25	121.07	-19.18

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)	23.32	0	0	23	0	0.084	-0.084

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	7.2	58.6	80.1	11.4	1.3	0	12.6

<-----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	12:05:30	49.82	09:11:10	49.98	0.036	0.057	50.08	49.86	19.9

6. Voltage Profile: 400kV

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

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	(% of time)

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	-942.91	0	0	-640.21	-403.59	0	62.4	-17.94	-1.97	42.49
HARYANA	-62.5	-47.95	0	78.41	-401.96	0	94.14	2.15	-8.75	87.53
RAJASTHAN	-32.34	-1,025.96	0	-99.98	-953.4	0	66.82	-2.02	-13.91	50.89
DELHI	-291.75	-1,284.22	0	-281.57	-539.45	0	75.31	-8.8	-15.59	50.93
UTTAR PRADESH	494.84	0	0	97.49	0	0	113.8	3.3	-0.01	117.1
UTTARAKHAND	84.84	-77.28	0	158.1	37.34	0	11.93	3.11	0.14	15.17
HIMACHAL PRADESH	62.41	-0.1	0	61.79	-512.15	0	15.99	3.17	-5.56	13.61
JAMMU & KASHMIR	143.69	197.72	0	143.69	98.86	0	24.28	3.45	8.06	35.79
CHANDIGARH	0	-30.19	0	0	-40.26	0	3.81	0	-0.65	3.15
TOTAL	-543.72	-2,267.98	0	-482.28	-2,714.61	0	468.48	-13.58	-38.24	416.66

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	3,478.1	2,244.66	-640.21	-942.91	0	-403.59	0	0
HARYANA	4,970.6	3,039.93	313.6	-495.63	3.73	-1,110.72	0	0
RAJASTHAN	3,509.15	2,306.19	-8.17	-108.15	482.1	-1,658.39	0	0
DELHI	3,486.55	2,798.79	-280.42	-477.68	-14.45	-1,443.24	0	0
UTTAR PRADESH	6,251.53	3,735.89	494.84	-3.29	44.15	-179.78	0	0
UTTARAKHAND	821.29	282.5	208.68	6.37	254.46	-247.27	0	0
HIMACHAL PRADESH	1,487.62	263.23	250.71	60.6	63.89	-1,018.35	0	0
JAMMU & KASHMIR	1,527.63	688.68	143.69	143.69	593.16	0	0	0
CHANDIGARH	263.05	115.22	0	0	0	-85.55	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	508.57	1,485	507.13	1,411	279.15	372.82
Chamera-I	748.75	760	-	-	-	-	-	0
Gandhisagar	295.78	295.78	-	-	-	-	-	0
Jawahar Sagar	295.78	298.7	-	-	-	-	-	0
Koteshwar	598.5	612.5	609.61	4	611.63	5	148	166.6
Pong	384.05	426.72	422.25	991	417.22	768	107.97	352.26
RPS	343.81	352.8	-	-	-	-	-	0
RSD	487.91	527.91	525.25	4	514.45	4	145.06	182.44
Rihand	252.98	268.22	-	-	-	-	-	0
Tehri	740.04	829.79	826.8	1,146	823.5	1,076	78.59	148
TOTAL	-	-	-	3,630	-	3,264	758.77	1,222.12

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 :

500 MVA ICT-2 at Dhuri first Time charged at on Load at 15.16 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