



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

Power Supply Position in Northern Region For 31-Oct-2018

Date of Reporting:01-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
43,321	412	43,733	50.03	34,125	228	34,353	50.03	934	11.33

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	64.24	13.89	0	2.78	0	7.99	88.91	30.24	30.52	0.28	119.43	0	119.43
HARYANA	34.37	0.92	0	0.1	0	0.48	35.87	88.9	89.65	0.75	125.52	0	125.52
RAJASTHAN	142.35	3.31	2.12	13.34	6.13	4.28	171.52	53.31	54.37	1.06	225.89	0	225.89
DELHI	-0.02	0	21.69	0	0	0	21.68	49.67	49.33	-0.34	71.02	0.01	71.01
UTTAR PRADESH	153.6	12.4	0	2.8	0	2.4	171.2	113.54	114.61	1.07	287.81	2	285.81
UTTARAKHAND	0	11.42	6.94	0.63	0	0	18.99	15.87	17.21	1.34	36.29	0.09	36.2
HIMACHAL PRADESH	0	6.33	0	0	0	4.14	10.47	15.8	17.58	1.78	28.05	0	28.05
JAMMU & KASHMIR	0	7.85	0	0	0	0	7.85	37.93	30.73	-7.2	47.81	9.23	38.58
CHANDIGARH	0	0	0	0	0	0	0	3.22	3.38	0.16	3.38	0	3.38
Region	394.54	56.12	30.75	19.65	6.13	19.29	526.49	408.48	407.38	-1.1	945.2	11.33	933.87

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	5,523	0	-179	-1,599	3,558	0	50	-1,548
HARYANA	6,351	0	-94	-369	4,599	0	-16	-70
RAJASTHAN	9,490	0	-123	-1,019	8,559	0	-46	-838
DELHI	3,694	0	43	-927	2,098	0	-50	-1,478
UTTAR PRADESH	13,301	20	-163	68	11,757	0	184	495
UTTARAKHAND	1,843	0	107	123	1,271	0	79	84
HIMACHAL PRADESH	1,377	0	73	-306	900	0	57	62
JAMMU & KASHMIR	1,569	392	-395	391	1,292	228	-430	341
CHANDIGARH	173	0	-16	-30	91	0	5	-25
Region	43,321	412	-747	-3,668	34,125	228	-167	-2,977

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	5,523	19:00	0	5,523	5,523	19:00	0	5,523
HARYANA	6,351	19:00	0	6,351	6,351	19:00	0	6,351
RAJASTHAN	11,366	8:00	0	11,366	11,366	8:00	0	11,366
DELHI	3,694	19:00	0	3,694	3,694	19:00	0	3,694
UP	13,301	19:00	20	13,321	13,321	19:00	20	13,301
UTTARAKHAND	1,857	7:00	0	1,857	1,857	7:00	0	1,857
HP	1,501	8:00	0	1,501	1,501	8:00	0	1,501
J&K	1,974	20:00	494	2,468	2,468	20:00	494	1,974
CHANDIGARH	174	9:00	0	174	174	9:00	0	174
NR	43,321	19:00	412	43,733	43,733	19:00	412	43,321

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	-3	-3	-3	10:00	-0.02	-1
RAJGHAT TPS(2 * 67.5)	135	0	0	0			
Total THERMAL	840	-3	-3			-0.02	-1
BAWANA GPS(2 * 253 + 4 * 216)	1,370	759	673	788	11:00	16.93	705
DELHI GAS TURBINES(3 * 34 + 6 * 30)	282	41	40	41	10:00	0.9	38
PRAGATI GAS TURBINES(1 * 121.2 + 2 * 104.6)	331	156	159	159	10:00	3.86	161
RITHALA GPS(3 * 36)	108	0	0	0			
Total GAS/NAPHTHA/DIESEL	2,091	956	872			21.69	904
WIND	0	0	0	0			
BIOMASS(1 * 16)	16	0	0	0			
SOLAR(1 * 2)	2	0	0	0			
Total DELHI	2,949	953	869			21.67	903

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	1,136	742	0		25.24	1,052
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	388	401	0		9.13	380
Total THERMAL	4,065	1,524	1,143			34.37	1,432
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	25	29	0		0.92	38
Total HYDEL	62	25	29			0.92	38
WIND	0	0	0	0			
BIOMASS(1 * 106)	106	0	0	0		0.48	20
SOLAR(1 * 50)	50	0	0	0		0.1	4
Total HARYANA	4,715	1,549	1,172			35.87	1,494

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	61	40	202	09:00	1.94	81
MALANA (IPP) HPS(2 * 43)	86	75	0	75	18:00	0.49	20
OTHER HYDRO HP(1 * 372)	372	197	146	0		3.9	163
Total HYDEL	758	333	186			6.33	264
WIND	0	0	0	0			
BIOMASS	0	0	0	0			
SOLAR	0	0	0	7.8661	13:00	0	0
SMALL HYDRO(1 * 486)	486	202	155	0		4.14	173
Total SMALL HYDRO	486	202	155			4.14	173
Total HP	1,244	535	341			10.47	437

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	238	235	0		6.33	264
OTHER HYDRO/IPP J&K(1 * 308)	308	49	52	0		1.53	64
Total HYDEL	1,208	287	287			7.86	328
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	287	287			7.86	328

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	210	210	246		5.1	213
GURU GOBIND SINGH TPS (ROPAR)(6 * 210)	1,260	192	192	192		4.36	182
GURU HARGOBIND SINGH TPS (LEHRA MOHABBAT)(2 * 210 + 2 * 250)	920	108	0	133		0.28	12
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		31.67	1,320
TALWANDI SABO TPS(3 * 660)	1,980	1,050	700	1,050		22.85	952
Total THERMAL	6,560	2,880	2,422			64.25	2,679
TOTAL HYDRO PUNJAB(1 * 1000)	1,000	596	550	612		13.89	579
Total HYDEL	1,000	596	550			13.89	579
WIND	0	0	0	0			
BIOMASS(1 * 303)	303	0	0	0		7.99	333
SOLAR(1 * 859)	859	0	0	431		2.78	116
Total PUNJAB	8,722	3,476	2,972			88.91	3,707

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	1,458	1,518	0		35.51	1,480
GIRAL (IPP) LTPS(2 * 125)	250	0	0	0			
KALISINDH TPS(2 * 600)	1,200	567	561	0		12.95	540
KAWAI TPS(2 * 660)	1,320	1,258	1,169	0		29.27	1,220
KOTA TPS(2 * 110 + 2 * 195 + 3 * 210)	1,240	826	688	0		19.45	810
RAJWEST (IPP) LTPS(8 * 135)	1,080	854	843	0		20.31	846
SURATGARH TPS(6 * 250)	1,500	923	916	0		22.74	948
VSLPP (IPP)(1 * 135)	135	86	85	0		2.12	88
Total THERMAL	8,635	5,972	5,780			142.35	5,932
DHOLPUR GPS(3 * 110)	330	0	0	0			
RAMGARH GPS(1 * 110 + 1 * 35.5 + 1 * 50 + 2 * 37.5)	271	86	85	0		2.12	88
Total GAS/NAPHTHA/DIESEL	601	86	85			2.12	88
RAPS-A(1 * 100 + 1 * 200)	300	163	166	0		3.82	159
Total NUCLEAR	300	163	166			3.82	159
TOTAL HYDRO RAJASTHAN(1 * 550)	550	132	163	0		3.31	138
Total HYDEL	550	132	163			3.31	138
WIND	4,292	145	612	0		6.13	255
BIOMASS(1 * 102)	102	19	19	0		0.46	19
SOLAR(1 * 1995)	1,995	10	0	0		13.34	556
Total RAJASTHAN	16,475	6,527	6,825			171.53	7,147

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	1,353	1,346	0		34.2	1,425
ANPARA-C TPS(2 * 600)	1,200	1,092	1,082	0		26.2	1,092
ANPARA-D TPS(2 * 500)	1,000	918	479	0		14.2	592
BAJAJ ENERGY PVT LTD (IPP) TPS(10 * 45)	450	0	0	0			
BARA PPGCL TPS(3 * 660)	1,980	962	1,019	0		24.9	1,038
HARDUAGANJ TPS(1 * 105 + 1 * 60 + 2 * 250)	665	311	308	0		7.2	300
LALITPUR TPS(3 * 660)	1,980	0	0	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	657	859	0		17.2	717
ROSA TPS(4 * 300)	1,200	974	1,036	0		23	958
TANDA TPS(4 * 110)	440	280	292	0		6.7	279
Total THERMAL	13,763	6,547	6,421			153.6	6,401
ALAKHANDA HEP(4 * 82.5)	330	150	83	0		3	125
VISHNUPARYAG HPS(4 * 110)	440	147	137	0		3.4	142
OTHER HYDRO UP(1 * 527)	527	241	269	0		6	250
Total HYDEL	1,297	538	489			12.4	517
WIND	0	0	0	0			
BIOMASS(1 * 26)	26	0	0	0			
SOLAR(1 * 472)	472	0	0	0		2.8	117
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	7,185	7,010			171.2	7,135

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	290	298	303	06:00	6.94	289			
Total GAS/NAPHTHA/DIESEL	450	290	298			6.94	289			
OTHER HYDRO UK(1 * 1250)	1,250	711	409	711	19:00	11.42	476			
Total HYDEL	1,250	711	409			11.42	476			
WIND	0	0	0	0						
BIOMASS(1 * 127)	127	0	0	0						
SOLAR(1 * 100)	100	0	0	92	12:00	0.63	26			
SMALL HYDRO(1 * 180)	180	0	0	0						
Total SMALL HYDRO	180	0	0			0	0			
Total UTTARAKHAND	2,107	1,001	707			18.99	791			

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	583.67	1,070	414	1,070	19:00	14.01	14.25	594	0.24
DEHAR HPS(6 * 165)	990	254.58	645	140	645	19:00	6.11	6.32	263	0.21
PONG HPS(6 * 66)	396	236.3	264	264	264	19:00	5.67	5.73	239	0.06
Sub-Total	2,765	1,074.55	1,979	818	-	-	25.79	26.3	1,096	0.51
NHPC										
BAIRASIUL HPS(3 * 60)	180	0	0	0	0	-	0	0	0	0
CHAMERA HPS(3 * 180)	540	535.58	548	0	549	17:45	3.82	4.03	168	0.21
CHAMERA II HPS(3 * 100)	300	106.86	301	0	302	20:00	2.41	2.64	110	0.23
CHAMERA III HPS(3 * 77)	231	231.5	231	0	233	06:00	1.45	1.56	65	0.11
DHAULIGANGA HPS(4 * 70)	280	79.32	145	141	206	20:00	1.9	1.98	83	0.08
DULHASTI HPS(3 * 130)	390	386.9	393	0	398	16:00	5.1	5.21	217	0.11
KISHANGANGA(2 * 110)	220	0	0	0	0	-	0	0	0	0
PARBATI III HEP(4 * 130)	520	37.39	259	0	390	18:30	0.9	0.94	39	0.04
SALAL HPS(6 * 115)	690	157.92	330	142	330	19:00	3.79	4.3	179	0.51
SEWA-II HPS(3 * 40)	120	119.98	123	0	123	19:00	0.4	0.4	17	0
TANAKPUR HPS(1 * 31.42 + 2 * 31.4)	94	51.51	93	51	95	13:00	1.24	1.3	54	0.06
URI HPS(4 * 120)	480	117.4	129	17	314	07:00	2.82	3.27	136	0.45
URI-II HPS(4 * 60)	480	80.89	78	77	183	11:00	1.94	2.01	84	0.07
Sub-Total	4,525	1,905.25	2,630	428	-	-	25.77	27.64	1,152	1.87
NPCL										
NAPS(2 * 220)	440	398	438	444	446	07:00	9.55	9.62	401	0.07
RAPS-B(2 * 220)	440	195	217	217	217	19:00	4.68	4.68	195	0
RAPS-C(2 * 220)	440	416	458	468	469	04:00	9.98	10.11	421	0.13
Sub-Total	1,320	1,009	1,113	1,129	-	-	24.21	24.41	1,017	0.2
NTPC										
ANTA GPS(1 * 153.2 + 3 * 88.71)	419	0	356	296	364	20:00	7.14	7.03	293	-0.11
AURAIYA GPS(2 * 109.3 + 4 * 111.19)	663	0	613	368	614	17:00	9.87	9.88	412	0.01
DADRI GPS(2 * 154.51 + 4 * 130.19)	830	0	769	457	769	19:00	11.81	11.78	491	-0.03
DADRI SOLAR(1 * 5)	5	0.87	0	0	0	-	0.02	0.02	1	0
DADRI-I TPS(4 * 210)	840	576.45	608	405	608	19:00	12.2	11.88	495	-0.32
DADRI-II TPS(2 * 490)	980	464.27	302	274	302	19:00	10.77	10.92	455	0.15
ISTPP (JHAJJAR)(3 * 500)	1,500	947.5	979	938	1,027	20:23	22.43	22.18	924	-0.25
KOLDAM HPS(4 * 200)	800	872	731	0	786	18:00	4	4.11	171	0.11
RIHAND-I STPS(2 * 500)	1,000	922.5	1,014	1,002	1,014	19:00	22.14	22.37	932	0.23
RIHAND-II STPS(2 * 500)	1,000	942.5	993	1,017	993	19:00	22.62	22.68	945	0.06
RIHAND-III STPS(2 * 500)	1,000	471.25	506	508	506	19:00	11.31	11.47	478	0.16
SINGRAULI STPS(2 * 500 + 5 * 200)	2,000	1,815.31	1,965	1,942	2,016	-	43.57	43.71	1,821	0.14
SINGRAULI SOLAR(1 * 15)	15	2.64	0	0	0	-	0.06	0.06	3	0
UNCHAHAH II TPS(2 * 210)	420	382.2	410	312	410	19:00	8.78	8.93	372	0.15
UNCHAHAH III TPS(1 * 210)	210	191.1	202	127	202	19:00	4.19	4.12	172	-0.07
UNCHAHAH IV TPS(1 * 500)	500	0	0	0	0	-	0	-	-	0
UNCHAHAH SOLAR(1 * 10)	10	1.9	0	0	0	-	0.05	0.05	2	0
UNCHAHAH TPS(2 * 210)	420	382.2	404	265	404	19:00	8.72	8.71	363	-0.01
Sub-Total	12,612	7,972.69	9,852	7,911	-	-	199.68	199.9	8,330	0.22
SJVNL										
NATHPA-JHAKRI HPS(6 * 250)	1,500	1,497.38	1,485	0	1,502	18:00	11	11.21	467	0.21
RAMPUR HEP(6 * 68.67)	412	442	440	0	440	19:00	3.06	3.21	134	0.15
Sub-Total	1,912	1,939.38	1,925	0	-	-	14.06	14.42	601	0.36
THDC										
KOTESHWAR HPS(4 * 100)	400	91.25	103	91	103	19:00	2.19	2.23	93	0.04
TEHRI HPS(4 * 250)	1,000	1,064	1,000	0	1,011	18:00	7	7.11	296	0.11
Sub-Total	1,400	1,155.25	1,103	91	-	-	9.19	9.34	389	0.15
Total	24,534	15,056.12	18,602	10,377			298.7	302.01	12,585	3.31

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	62	0	200	19:00	1.08	1.11	46	0.03
BUDHIL HPS (IPP)(2 * 35)	70	0	69	0	70	19:00	0.51	0.41	17	-0.1
KARCHAM WANGTOO HPS(4 * 250)	1,000	0	1,000	0	1,000	19:00	5.67	5.74	239	0.07
MALANA2(2 * 50)	100	0	0	0	105	09:00	0.46	0.49	20	0.03
SAINJ HEP(2 * 50)	50	0	100	35	100	06:30	0.78	0.9	38	0.12
SHREE CEMENT (IPP) TPS(2 * 150)	300	0	298	260	298	19:00	7.05	7.8	325	0.75
Sub-Total	1,712	0	1,529	295	-	-	15.55	16.45	685	0.9
Total	1,712	0	1,529	295	-	-	15.55	16.45	685	0.9

Summary Section					
	Inst. Capacity	PEAK	OFF-PEAK	Day Energy	Day AVG.
Total State Control Area Generation	54,626	21,513	20,183	526.5	21,938
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]		3,778	4,360	113.18	4,955
Total Regional Availability(Gross)	80,872	45,422	35,215	958.14	40,162

Total Hydro Generation					
	Inst. Capacity	PEAK	OFF-PEAK	Day Energy	Day AVG.
Regional Entities Hydro	12,814	9,599	1,372	90.46	3,769
State Control Area Hydro	6,125	2,622	2,113	56.13	2,339
Total Regional Hydro	18,939	12,221	3,485	146.59	6,108

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	376	786	38.85	1,619
Total Regional Renewable	9,244	376	786	38.98	1,624

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	0.66	-0.66
4	220KV-Pusauli(PG)-Sahupuri(UP)	162	113	162	0	2.96	0	2.96
5	400KV-Biharsharif(PG)-Baliala(PG)	-140	4	70	174	0.37	0	0.37
6	400KV-Biharsharif(PG)-Varanasi(P..	-321	-114	0	341	0	3.17	-3.17
7	400KV-Fatehpur(UP)-Sasaram	-	-	-	-	-	-	-
8	400KV-Motihari(DMT)-Gorakhpur ..	174	280	368	0	6.4	0	6.4
9	400KV-Muzaffarpur(PG)-Gorakhp ..	-313	-46	156	205	0	1.32	-1.32
10	400KV-Patna(PG)-Baliala(PG)	186	519	617	0	9.73	0	9.73
11	400KV-Sasaram-Allahabad(PG)	92	132	139	0	2.64	0	2.64
12	400KV-Sasaram-Varanasi(PG)	291	257	301	0	6.08	0	6.08
13	765KV-Fatehpur(PG)-Sasaram.	-349	-204	0	352	0	3.98	-3.98
14	765KV-Gaya(PG)-Baliala(PG)	25	58	135	12	1.58	0	1.58
15	765KV-Gaya(PG)-Varanasi(PG)	250	-2	211	275	0	0.04	-0.04
16	HVDC800KV-Alipurduar-Agra(PG)	700	300	700	0	10.58	0	10.58
Sub-Total EAST REGION		757	1,297	2,859	1,359	41.3	9.17	32.13
Import/Export between NORTH_EAST REGION and NORTH REGION								
1	HVDC800KV-BiswanathCharialli- ..	500	500	600	0	10.99	0	10.99
Sub-Total NORTH_EAST REGION		500	500	600	0	10.99	0	10.99
Import/Export between WEST REGION and NORTH REGION								
1	220KV-Auraiya(NT)-Malanpur(PG)	-186	-149	-	211	0	3.7	-3.7
2	220KV-Badod(MP)-Kota(PG)	-142	-116	29	169	0	2.25	-2.25
3	220KV-Badod(MP)-Modak(RJ)	-	-	-	-	-	-	-
4	400KV-RAPS C(NP)-Sujalpur	-358	-308	0	484	0	6.94	-6.94
5	400KV-Vindhyachal(PG)-Rihand(N ..	-471	-475	-	481	0	11.47	-11.47
6	400KV-Zerda(PG)-Bhinmal(PG)	-59	-328	74	352	0	3.16	-3.16
7	400KV-Zerda(PG)-Kankroli(RJ)	-269	-427	0	427	0	7.77	-7.77
8	765KV-0rai-Gwalior(PG)	-281	-342	0	434	0	8.36	-8.36
9	765KV-0rai-Jabalpur	26	62	484	203	1.92	0	1.92
10	765KV-0rai-Satna	1,466	1,494	1,592	0	36.7	0	36.7
11	765KV-Gwalior(PG)-Agra(PG)	1,017	1,080	1,490	0	27.27	0	27.27
12	765KV-Phagi(RJ)-Gwalior(PG)	579	671	545	-	18.84	0	18.84
13	HVDC500KV-Mundra(JH)-Mohind..	799	1,001	1,002	0	20.18	0	20.18
14	HVDC500KV-Vindhyachal(PG)-Vindhaychal B/B	-250	-250	0	250	0	6.06	-6.06
15	HVDC800KV-Champa(PG)-Kuruku..	650	650	650	0	14.86	0	14.86
Sub-Total WEST REGION		2,521	2,563	5,866	3,011	119.77	49.71	70.06
TOTAL IR EXCHANGE		3,778	4,360	9,325	4,370	172.06	58.88	113.18

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	54.27	-6.69	0.01	47.59	32.13	-15.46

NR-WR	148.78	-7.7	-52.91	88.17	70.06	-18.11
Total	203.05	-14.39	-52.9	135.76	113.18	-22.58

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)	-23.69	-0.02		24		0.1257	-0.1257

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	.5	17.8	73.3	75.9	5.2	1.1	0	6.3

<-----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)
50.19	06:01:40	49.77	16:29:10	49.96	0.058	0.063	50.09	49.83	24.1

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 (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	-1,043.81	-504.49	0	-640.21	-958.53	0	60.54	-18.59	-11.7	30.24
HARYANA	-70.92	0.49	0	267.86	-637.26	0	94.79	2.31	-8.19	88.9
RAJASTHAN	-99.98	-738.5	0	-99.98	-919.17	0	64.35	-2.45	-8.6	53.31
DELHI	-291.83	-1,186.59	0	-236.99	-690.42	0	76.25	-8.52	-18.08	49.67
UTTAR PRADESH	495.23	0	0	91.6	-23.99	0	110.84	3.27	-0.57	113.54
UTTARAKHAND	150.15	-66.48	0	208.87	-85.63	0	12.79	4.04	-0.96	15.87
HIMACHAL PRADESH	62.49	-0.1	0	61.81	-367.34	0	17.08	3.18	-4.45	15.8
JAMMU & KASHMIR	143.69	197.72	0	143.69	247.15	0	26.55	3.45	7.94	37.93
CHANDIGARH	0	-25.16	0	0	-30.19	0	3.87	0	-0.65	3.22
TOTAL	-654.98	-2,323.11	0	-203.35	-3,465.38	0	467.06	-13.31	-45.26	408.48

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	3,519.93	2,077.62	-640.21	-1,043.81	-252.24	-1,059.43	0	0
HARYANA	4,954.82	3,452.55	274.82	-129.79	3.34	-1,112.68	0	0
RAJASTHAN	3,720.17	2,020.54	-99.98	-108.15	724.37	-1,241.56	0	0
DELHI	3,558.31	2,678.79	-235.9	-477.76	-14.46	-1,518.72	0	0
UTTAR PRADESH	6,135.22	3,872.91	495.23	-4.27	44.15	-610	0	0
UTTARAKHAND	808.57	409.23	208.87	150.15	172.13	-317.89	0	0
HIMACHAL PRADESH	1,447.67	287.08	250.79	60.68	-0.1	-920.4	0	0
JAMMU & KASHMIR	1,802.88	848.76	143.69	143.69	593.16	0	0	0
CHANDIGARH	280.8	115.23	0	0	14.6	-99.84	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	508.46	1,470	507.04	1,397	266.26	370.98
Chamera-I	748.75	760	756.28	-	-	-	98.18	108.73
Gandhisagar	295.78	295.78	-	-	-	-	-	0
Jawahar Sagar	295.78	298.7	-	-	-	-	-	0
Koteshwar	598.5	612.5	609.11	4	611.64	5	153	147.14
Pong	384.05	426.72	422.07	991	416.96	756	78.75	323.04
RPS	343.81	352.8	-	-	-	-	-	0
RSD	487.91	527.91	524.91	7	514.17	3	120.33	214.14
Rihand	252.98	268.22	262.71	461	262.62	455	-	0
Tehri	740.04	829.79	826.4	1,138	823.2	1,070	77.9	153
TOTAL	-	-	-	4,071	-	3,686	794.42	1,317.03

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