



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

Power Supply Position in Northern Region For 26-Oct-2018

Date of Reporting:27-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
44,213	1,263	45,476	50.03	35,323	224	35,547	50.05	948	9.55

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	68.14	13.64	0	4.21	0	7.99	93.97	39.62	39.21	-0.41	133.18	0	133.18
HARYANA	35.8	0.93	0	0.11	0	0.55	37.39	91.67	92.06	0.39	129.45	0	129.45
RAJASTHAN	151.89	2.93	2	13.69	6.16	4.37	181.03	40.3	41.41	1.11	222.44	0	222.44
DELHI	-0.03	0	16.38	0	0	0.72	17.07	56.61	56.13	-0.48	73.2	0	73.2
UTTAR PRADESH	159.3	12.6	0	2.5	0	2.4	176.8	117.34	116.84	-0.5	293.64	0	293.64
UTTARAKHAND	0	0	7.13	0.66	0	0	7.79	15.82	16.58	0.76	24.37	0	24.37
HIMACHAL PRADESH	0	6.89	0	0	0	4.51	11.4	14.55	16.64	2.09	28.04	0	28.04
JAMMU & KASHMIR	0	8.64	0	0	0	0	8.64	36.96	31.78	-5.18	49.97	9.55	40.42
CHANDIGARH	0	0	0	0	0	0	0	3.15	3.23	0.08	3.23	0	3.23
Region	415.1	45.63	25.51	21.17	6.16	20.54	534.09	416.02	413.88	-2.14	957.52	9.55	947.97

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	5,682	0	21	-1,599	4,439	0	0	-994
HARYANA	6,445	0	-95	-828	4,837	0	21	143
RAJASTHAN	9,279	0	-247	-1,597	8,328	0	-82	-1,429
DELHI	3,676	0	-161	-895	2,202	0	-40	-1,320
UTTAR PRADESH	14,113	830	7	166	12,043	0	-142	569
UTTARAKHAND	1,788	0	117	24	1,247	0	95	66
HIMACHAL PRADESH	1,323	0	16	-562	878	0	83	56
JAMMU & KASHMIR	1,733	433	-195	391	1,269	224	-109	302
CHANDIGARH	174	0	-24	-91	79	0	-10	-10
Region	44,213	1,263	-561	-4,991	35,322	224	-184	-2,617

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	5,682	19:00	0	5,682	5,682	19:00	0	5,682
HARYANA	6,445	19:00	0	6,445	6,445	19:00	0	6,445
RAJASTHAN	11,144	8:00	0	11,144	11,144	8:00	0	11,144
DELHI	3,676	12:00	0	3,676	3,676	12:00	0	3,676
UP	14,113	19:00	830	14,943	14,943	19:00	830	14,113
UTTARAKHAND	1,829	7:00	0	1,829	1,829	7:00	0	1,829
HP	1,520	8:00	0	1,520	1,520	8:00	0	1,520
J&K	1,952	8:00	488	2,441	2,441	8:00	488	1,952
CHANDIGARH	174	19:00	0	174	174	19:00	0	174
NR	44,213	19:00	1,263	45,476	45,476	19:00	1,263	44,213

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	0		-0.03	-1
RAJGHAT TPS(2 * 67.5)	135	0	0	0			
Total THERMAL	840	-3	-3			-0.03	-1
BAWANA GPS(2 * 253 + 4 * 216)	1,370	497	428	533		11.6	483
DELHI GAS TURBINES(3 * 34 + 6 * 30)	282	32	31	37.4		0.91	38
PRAGATI GAS TURBINES(1 * 121.2 + 2 * 104.6)	331	157	157	162.17		3.87	161
RITHALA GPS(3 * 36)	108	0	0	0			
Total GAS/NAPHTHA/DIESEL	2,091	686	616			16.38	682
WIND	0	0	0	0			
BIOMASS(1 * 16)	16	40	20	41.77		0.72	30
SOLAR(1 * 2)	2	0	0	0			
Total DELHI	2,949	723	633			17.07	711

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	619	371	619	19:00	12.07	503
MAGNUM DIESEL (IPP)(4 * 6.3)	25	0	0	0			
PANIPAT TPS(2 * 210 + 2 * 250)	920	161	201	203	07:00	3.78	158
RGTPP(KHEDAR)(2 * 600)	1,200	878	788	1,000	11:00	19.95	831
Total THERMAL	4,065	1,658	1,360			35.8	1,492
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	29	28	29	11:00	0.93	39
Total HYDEL	62	29	28			0.93	39
WIND	0	0	0	0			
BIOMASS(1 * 106)	106	0	0	0		0.55	23
SOLAR(1 * 50)	50	0	0	0		0.11	5
Total HARYANA	4,715	1,687	1,388			37.39	1,559

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	75	94	0		2.07	86
MALANA (IPP) HPS(2 * 43)	86	76	0	0		0.55	23
OTHER HYDRO HP(1 * 372)	372	224	166	0		4.28	178
Total HYDEL	758	375	260			6.9	287
WIND	0	0	0	0			
BIOMASS	0	0	0	0			
SOLAR	0	0	0	0			
SMALL HYDRO(1 * 486)	486	214	161	0		4.51	188
Total SMALL HYDRO	486	214	161			4.51	188
Total HP	1,244	589	421			11.41	475

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	237	237	0		6.78	283
OTHER HYDRO/IPP J&K(1 * 308)	308	55	111	0		1.86	78
Total HYDEL	1,208	292	348			8.64	361
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	292	348			8.64	361

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	0	160	160		3.43	143
GURU GOBIND SINGH TPS (ROPAR)(6 * 210)	1,260	320	293	384		8.32	347
GURU HARGOBIND SINGH TPS (LEHRA MOHABBAT)(2 * 210 + 2 * 250)	920	391	426	429		9.64	402
GURU NANAK DEV TPS (BHATINDA)(4 * 110)	460	0	0	0		-0.01	0
RAJPURA(NPL) TPS(2 * 700)	1,400	660	660	660		15.81	659
TALWANDI SABO TPS(3 * 660)	1,980	1,500	1,200	1,500		30.94	1,289
Total THERMAL	6,560	2,871	2,739			68.13	2,840
TOTAL HYDRO PUNJAB(1 * 1000)	1,000	397	430	609		13.64	568
Total HYDEL	1,000	397	430			13.64	568
WIND	0	0	0	0			
BIOMASS(1 * 303)	303	0	0	0		7.99	333
SOLAR(1 * 859)	859	0	0	434		4.21	175
Total PUNJAB	8,722	3,268	3,169			93.97	3,916

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	185	216	0		4.59	191
CHHABRA TPS(1 * 660 + 4 * 250)	1,660	1,497	1,508	0		35.87	1,495
GIRAL (IPP) LTPS(2 * 125)	250	0	0	0			
KALISINDH TPS(2 * 600)	1,200	551	557	0		12.87	536
KAWAI TPS(2 * 660)	1,320	1,252	1,153	0		28.45	1,185
KOTA TPS(2 * 110 + 2 * 195 + 3 * 210)	1,240	1,047	1,035	0		23.61	984
RAJWEST (IPP) LTPS(8 * 135)	1,080	831	807	0		19.37	807
SURATGARH TPS(6 * 250)	1,500	1,276	1,314	0		27.12	1,130
VSLPP (IPP)(1 * 135)	135	0	0	0			
Total THERMAL	8,635	6,639	6,590			151.88	6,328
DHOLPUR GPS(3 * 110)	330	0	0	0			
RAMGARH GPS(1 * 110 + 1 * 35.5 + 1 * 50 + 2 * 37.5)	271	80	81	0		2	83
Total GAS/NAPHTHA/DIESEL	601	80	81			2	83
RAPS-A(1 * 100 + 1 * 200)	300	165	167	0		3.79	158
Total NUCLEAR	300	165	167			3.79	158
TOTAL HYDRO RAJASTHAN(1 * 550)	550	131	43	0		2.93	122
Total HYDEL	550	131	43			2.93	122
WIND	4,292	171	173	0		6.16	257
BIOMASS(1 * 102)	102	24	24	0		0.58	24
SOLAR(1 * 1995)	1,995	10	0	0		13.69	570
Total RAJASTHAN	16,475	7,220	7,078			181.03	7,542

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	1,015	1,143	0		28.3	1,179
ANPARA-C TPS(2 * 600)	1,200	1,087	1,096	0		25	1,042
ANPARA-D TPS(2 * 500)	1,000	950	955	0		21.7	904
BAJAJ ENERGY PVT LTD (IPP) TPS(10 * 45)	450	0	0	0			
BARA PPGCL TPS(3 * 660)	1,980	1,009	981	0		22.3	929
HARDUAGANJ TPS(1 * 105 + 1 * 60 + 2 * 250)	665	317	317	0		6.8	283
LALITPUR TPS(3 * 660)	1,980	621	347	0		11	458
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	872	880	0		18.3	763
ROSA TPS(4 * 300)	1,200	1,034	781	0		20.2	842
TANDA TPS(4 * 110)	440	207	230	0		5.7	238
Total THERMAL	13,763	7,112	6,730			159.3	6,638
ALAKHANDA HEP(4 * 82.5)	330	159	151	0		3.1	129
VISHNUPARYAG HPS(4 * 110)	440	157	152	0		3.7	154
OTHER HYDRO UP(1 * 527)	527	245	158	0		5.8	242
Total HYDEL	1,297	561	461			12.6	525
WIND	0	0	0	0			
BIOMASS(1 * 26)	26	0	0	0			
SOLAR(1 * 472)	472	0	0	0		2.5	104
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	7,773	7,291			176.8	7,367

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	292	303	307	07:00	7.13	297			
Total GAS/NAPHTHA/DIESEL	450	292	303			7.13	297			
OTHER HYDRO UK(1 * 1250)	1,250	114	351	687	19:00	0	0			
Total HYDEL	1,250	114	351			0	0			
WIND	0	0	0	0						
BIOMASS(1 * 127)	127	0	0	0						
SOLAR(1 * 100)	100	0	0	97	12:00	0.66	28			
SMALL HYDRO(1 * 180)	180	0	0	0						
Total SMALL HYDRO	180	0	0			0	0			
Total UTTARAKHAND	2,107	406	654			7.79	325			

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	514.46	904	388	908	21:00	12.35	12.45	519	0.1
DEHAR HPS(6 * 165)	990	271.25	645	165	645	19:00	6.51	6.74	281	0.23
PONG HPS(6 * 66)	396	199.54	330	132	330	19:00	4.79	4.86	203	0.07
Sub-Total	2,765	985.25	1,879	685	-	-	23.65	24.05	1,003	0.4
NHPC										
BAIRASIUL HPS(3 * 60)	180	0	0	0	0	-	0	-	-	0
CHAMERA HPS(3 * 180)	540	356.5	363	0	369	06:45	3.99	4.14	173	0.15
CHAMERA II HPS(3 * 100)	300	119.07	299	22	301	20:00	2.84	2.94	123	0.1
CHAMERA III HPS(3 * 77)	231	84.06	234	0	234	19:00	2.02	2.11	88	0.09
DHAULIGANGA HPS(4 * 70)	280	94.49	138	142	143	23:00	2.25	2.27	95	0.02
DULHASTI HPS(3 * 130)	390	386.9	390	0	399	17:00	5.8	5.84	243	0.04
KISHANGANGA(2 * 110)	220	79.79	191	61	198	21:00	1.92	1.94	81	0.02
PARBATI III HEP(4 * 130)	520	44.29	392	0	392	19:00	1.06	1.07	45	0.01
SALAL HPS(6 * 115)	690	181.35	442	230	478	08:00	4.35	4.77	199	0.42
SEWA-II HPS(3 * 40)	120	119.54	106	0	120	21:00	0.55	0.56	23	0.01
TANAKPUR HPS(1 * 31.42 + 2 * 31.4)	94	57.81	63	95	95	18:00	1.39	1.44	60	0.05
URI HPS(4 * 120)	480	145.52	90	124	353	18:00	3.49	3.97	165	0.48
URI-II HPS(4 * 60)	480	90.78	79	79	178	21:00	2.18	2.22	93	0.04
Sub-Total	4,525	1,760.1	2,787	753	-	-	31.84	33.27	1,388	1.43
NPCL										
NAPS(2 * 220)	440	396	435	432	435	19:00	9.5	9.57	399	0.07
RAPS-B(2 * 220)	440	197	217	220	220	03:00	4.73	4.66	194	-0.07
RAPS-C(2 * 220)	440	420	464	467	464	19:00	10.08	10.09	420	0.01
Sub-Total	1,320	1,013	1,116	1,119	-	-	24.31	24.32	1,013	0.01
NTPC										
ANTA GPS(1 * 153.2 + 3 * 88.71)	419	2.48	359	255	384	08:56	6.79	6.61	275	-0.18
AURAIYA GPS(2 * 109.3 + 4 * 111.19)	663	317.27	314	216	314	19:00	5.34	5.44	227	0.1
DADRI GPS(2 * 154.51 + 4 * 130.19)	830	8.02	476	468	786	08:00	12.35	12.16	507	-0.19
DADRI SOLAR(1 * 5)	5	0.87	0	0	3	11:36	0.02	0.02	1	0
DADRI-I TPS(4 * 210)	840	576.45	551	317	551	19:00	10.93	10.72	447	-0.21
DADRI-II TPS(2 * 490)	980	928.55	928	597	928	19:00	20.25	20.19	841	-0.06
ISTPP (JHAJJAR)(3 * 500)	1,500	947.5	977	995	977	19:00	22.54	22.26	928	-0.28
KOLDAM HPS(4 * 200)	800	872	595	0	753	18:00	4.5	4.55	190	0.05
RIHAND-I STPS(2 * 500)	1,000	922.5	984	1,008	984	19:00	22.06	22.24	927	0.18
RIHAND-II STPS(2 * 500)	1,000	942.5	988	965	988	19:00	22.56	22.55	940	-0.01
RIHAND-III STPS(2 * 500)	1,000	471.25	487	508	487	19:00	11.28	11.45	477	0.17
SINGRAULI STPS(2 * 500 + 5 * 200)	2,000	1,810	1,953	1,964	1,953	19:00	43.44	43.43	1,810	-0.01
SINGRAULI SOLAR(1 * 15)	15	2.78	0	0	0	-	0.07	0.07	3	0
UNCHAHAH II TPS(2 * 210)	420	382.2	394	370	394	19:00	8.59	8.62	359	0.03
UNCHAHAH III TPS(1 * 210)	210	191.1	189	183	189	19:00	4.24	4.35	181	0.11
UNCHAHAH IV TPS(1 * 500)	500	0	0	0	0	-	0	-	-	0
UNCHAHAH SOLAR(1 * 10)	10	1.97	0	0	0	-	0.05	0.05	2	0
UNCHAHAH TPS(2 * 210)	420	382.2	374	290	374	19:00	8.58	8.56	357	-0.02
Sub-Total	12,612	8,759.64	9,569	8,136	-	-	203.59	203.27	8,472	-0.32
SJVNL										
NATHPA-JHAKRI HPS(6 * 250)	1,500	1,497.38	1,486	0	1,503	18:00	11.7	11.89	495	0.19
RAMPUR HEP(6 * 68.67)	412	442	419	0	425	18:00	3.25	3.44	143	0.19
Sub-Total	1,912	1,939.38	1,905	0	-	-	14.95	15.33	638	0.38
THDC										
KOTESHWAR HPS(4 * 100)	400	83.75	180	71	184	19:00	2.01	2.05	85	0.04
TEHRI HPS(4 * 250)	1,000	1,064	983	0	983	19:00	5.61	5.71	238	0.1
Sub-Total	1,400	1,147.75	1,163	71	-	-	7.62	7.76	323	0.14
Total	24,534	15,605.12	18,419	10,764			305.96	308	12,837	2.04

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	80	0	164	19:00	1.02	1.08	45	0.06
BUDHIL HPS (IPP)(2 * 35)	70	0	0	0	0	-	0.51	-	-	-0.51
KARCHAM WANGTOO HPS(4 * 250)	1,000	0	1,000	0	1,000	18:30	6.4	6.4	267	0
MALANA2(2 * 50)	100	0	31	10	105	20:00	0.5	0.51	21	0.01
SAINJ HEP(2 * 50)	50	0	100	30	100	08:00	0.81	0.91	38	0.1
SHREE CEMENT (IPP) TPS(2 * 150)	300	0	296	280	297	22:00	7.09	6.99	291	-0.1
Sub-Total	1,712	0	1,507	320	-	-	16.33	15.89	662	-0.44
Total	1,712	0	1,507	320			16.33	15.89	662	-0.44

Summary Section					
	Inst. Capacity	PEAK	OFF-PEAK	Day Energy	Day AVG.
Total State Control Area Generation	54,626	21,958	20,982	534.1	22,254
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]		3,549	4,576	111.75	4,824
Total Regional Availability(Gross)	80,872	45,433	36,642	969.74	40,574

Total Hydro Generation					
	Inst. Capacity	PEAK	OFF-PEAK	Day Energy	Day AVG.
Regional Entities Hydro	12,814	9,540	1,549	93.86	3,911
State Control Area Hydro	6,125	1,899	1,921	45.64	1,902
Total Regional Hydro	18,939	11,439	3,470	139.5	5,813

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	459	378	41.68	1,737
Total Regional Renewable	9,244	459	378	41.82	1,743

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	-33	-29	-	34	0	0.67	-0.67
2	132KV-Karmnasa(PG)-Sahupuri(U ..	-	-	-	-	-	-	-
3	132KV-Rihand-Sonnagar(PG)	-	-	-	-	-	-	-
4	220KV-Pusauli(PG)-Sahupuri(UP)	135	114	148	0	3.03	0	3.03
5	400KV-Biharsharif(PG)-Baliala(PG)	97	4	81	140	0	0.16	-0.16
6	400KV-Biharsharif(PG)-Varanasi(P..	-280	-151	0	307	0	3.23	-3.23
7	400KV-Fatehpur(UP)-Sasaram	-	-	-	-	-	-	-
8	400KV-Motihari(DMT)-Gorakhpur ..	220	268	280	-	6.13	0	6.13
9	400KV-Muzaffarpur(PG)-Gorakhp ..	191	57	216	253	0.6	0	0.6
10	400KV-Patna(PG)-Baliala(PG)	231	464	576	0	10.34	0	10.34
11	400KV-Sasaram-Allahabad(PG)	109	124	156	0	3.11	0	3.11
12	400KV-Sasaram-Varanasi(PG)	280	267	280	0	6.32	0	6.32
13	765KV-Fatehpur(PG)-Sasaram.	-367	-236	0	371	0	5.22	-5.22
14	765KV-Gaya(PG)-Baliala(PG)	43	75	131	0	1.65	0	1.65
15	765KV-Gaya(PG)-Varanasi(PG)	-225	-43	139	314	0	0.5	-0.5
16	HVDC800KV-Alipurduar-Agra(PG)	300	300	300	0	6.45	0	6.45
Sub-Total EAST REGION		701	1,214	2,307	1,419	37.63	9.78	27.85
Import/Export between NORTH_EAST REGION and NORTH REGION								
1	HVDC800KV-BiswanathCharialli- ..	700	500	700	0	14.74	0	14.74
Sub-Total NORTH_EAST REGION		700	500	700	0	14.74	0	14.74
Import/Export between WEST REGION and NORTH REGION								
1	220KV-Auraiya(NT)-Malanpur(PG)	-100	-136	-	186	0	3.15	-3.15
2	220KV-Badod(MP)-Kota(PG)	-233	-249	-	94	0	4.79	-4.79
3	220KV-Badod(MP)-Modak(RJ)	-	-	-	-	-	-	-
4	400KV-RAPS C(NP)-Sujalpur	-346	-326	-	368	0	6.27	-6.27
5	400KV-Vindhyachal(PG)-Rihand(N ..	-461	-478	-	485	0	11.45	-11.45
6	400KV-Zerda(PG)-Bhinmal(PG)	-215	-193	12	469	0	5.38	-5.38
7	400KV-Zerda(PG)-Kankroli(RJ)	0	-277	0	358	0	3.7	-3.7
8	765KV-0rai-Gwalior(PG)	-230	-343	0	408	0	7.32	-7.32
9	765KV-0rai-Jabalpur	-197	136	458	326	1.41	0	1.41
10	765KV-0rai-Satna	1,426	1,524	1,607	0	37.32	0	37.32
11	765KV-Gwalior(PG)-Agra(PG)	730	1,140	1,306	0	23.41	0	23.41
12	765KV-Phagi(RJ)-Gwalior(PG)	423	716	1,195	-	17.52	0	17.52
13	HVDC500KV-Mundra(JH)-Mohind..	601	598	602	0	14.59	0	14.59
14	HVDC500KV-Vindhyachal(PG)-Vindhaychal B/B	-250	-250	0	250	0	6.05	-6.05
15	HVDC800KV-Champa(PG)-Kuruku..	1,000	1,000	1,000	0	23.02	0	23.02
Sub-Total WEST REGION		2,148	2,862	6,180	2,944	117.27	48.11	69.16
TOTAL IR EXCHANGE		3,549	4,576	9,187	4,363	169.64	57.89	111.75

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	43.46	-1.38	-21.29	20.79	27.85	7.06

NR-WR	154.75	-7.04	-34	113.71	69.16	-44.55
Total	198.21	-8.42	-55.29	134.5	111.75	-22.75

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)	12.05	0	0	12	0	0.0322	-0.0322

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	5.3	53.4	84.8	8.7	1.3	0	9.9

<-----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.	
50.17	13:03:00	49.8	06:23:20	49.99	0.029	0.053	50.09	49.84	15.2

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	424	22:00	410	09:40	0	0	34.72	0	34.72
Abdullapur(PG) - 400KV	424	22:00	410	09:40	0	0	34.72	0	34.72
Amritsar(PG) - 400KV	423	03:00	412	09:45	0	0	29.86	0	29.86
Ballabgarh(PG) - 400KV	420	20:40	403	09:35	0	0	0	0	0
Bareilly II(PG) - 400KV	418	13:05	400	09:35	0	0	0	0	0
Bareilly(UP) - 400KV	419	13:05	401	09:35	0	0	0	0	0
Baspa(HP) - 400KV	425	03:40	411	18:15	0	0	36.46	0	36.46
Bassi(PG) - 400KV	417	20:40	404	23:20	0	0	0	0	0
Bawana(DTL) - 400KV	421	04:00	409	09:35	0	0	11.46	0	11.46
Dadri HVDC(PG). - 400KV	419	04:00	419	04:00	.35	.35	0	0	.35
Gorakhpur(PG) - 400KV	417	13:05	397	18:05	0	0	0	0	0
Hisar(PG) - 400KV	419	21:55	405	09:35	0	0	0	0	0
Kanpur(PG) - 400KV	422	13:05	410	18:10	0	0	2.43	0	2.43
Kashipur(UT) - 400KV	402	00:00	402	00:00	0	0	0	0	0
Kishenpur(PG) - 400KV	418	03:40	406	06:40	0	0	0	0	0
Moga(PG) - 400KV	417	21:55	404	06:40	0	0	0	0	0
Nallagarh(PG) - 400KV	425	03:40	411	18:15	0	0	36.46	0	36.46
Rihand HVDC(PG) - 400KV	405	13:05	405	13:05	.35	.35	0	0	.35
Rihand(NT) - 400KV	404	13:05	400	09:35	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	787	19:50	767	08:15	0	0	0	0	0
Balia(PG) - 765KV	779	03:35	757	18:10	0	0	0	0	0
Bareilly II(PG) - 765KV	799	13:05	764	09:35	0	0	0	0	0
Bhiwani(PG) - 765KV	802	20:30	776	09:15	0	0	2.43	0	2.43
Fatehpur(PG) - 765KV	771	13:05	747	18:10	0	0	0	0	0
Jhatikara(PG) - 765KV	797	20:35	768	09:35	0	0	0	0	0
Lucknow II(PG) - 765KV	801	13:05	764	18:10	0	0	.69	0	.69
Meerut(PG) - 765KV	806	20:35	772	06:50	0	0	9.03	0	9.03
Moga(PG) - 765KV	797	20:35	762	06:40	0	0	0	0	0
Phagi(RJ) - 765KV	794	19:55	772	08:15	0	0	0	0	0
Unnao(UP) - 765KV	782	13:05	756	09:35	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	-943.18	-50.46	0	-640.39	-958.82	0	62.33	-16.98	-5.73	39.62
HARYANA	243.31	-100.69	0	82.72	-910.65	0	94.59	5.53	-8.46	91.67
RAJASTHAN	-16.36	-1,412.65	0	-16.36	-1,581.11	0	65.36	-0.43	-24.65	40.3
DELHI	-290.67	-1,028.89	0	-280.01	-615.12	0	79.83	-8.56	-14.65	56.61
UTTAR PRADESH	568.72	0	0	169.73	-3.4	0	112.36	5.06	-0.09	117.34
UTTARAKHAND	61.74	4.23	0	19.26	5.11	0	12.07	1.57	2.19	15.82
HIMACHAL PRADESH	60.08	-3.77	0	59.77	-622.25	0	16.38	3.12	-4.95	14.55
JAMMU & KASHMIR	143.63	158.13	0	143.63	247.08	0	25.4	3.45	8.11	36.96
CHANDIGARH	0	-10.07	0	0	-90.61	0	3.73	0	-0.58	3.15
TOTAL	-172.73	-2,444.17	0	-461.65	-4,529.77	0	472.05	-7.24	-48.81	416.02

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	3,551.66	2,251.5	-640.39	-943.18	0	-1,059.75	0	0
HARYANA	4,902.11	3,220.19	326.09	82.72	-100.69	-1,113.02	0	0
RAJASTHAN	3,605.86	2,110.37	-16.36	-20.45	429.57	-1,949.3	0	0
DELHI	3,829.44	2,641.44	-278.84	-476.36	-25.45	-1,272.53	0	0
UTTAR PRADESH	6,283.84	3,558.08	568.72	68.94	53.94	-260.96	0	0
UTTARAKHAND	813.42	340.94	120.44	19.26	307.28	-95.48	0	0
HIMACHAL PRADESH	1,501.51	270.85	248	58.56	36.18	-854.51	0	0
JAMMU & KASHMIR	1,611.83	725.83	143.63	143.63	642.4	0	0	0
CHANDIGARH	273.9	98.17	0	0	0	-90.61	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	-	-	-	-	-	0
Chamera-I	748.75	760	-	-	-	-	-	0
Gandhisagar	295.78	295.78	-	-	-	-	-	0
Jawahar Sagar	295.78	298.7	-	-	-	-	-	0
Koteshwar	598.5	612.5	-	-	-	-	-	0
Pong	384.05	426.72	-	-	-	-	-	0
RPS	343.81	352.8	-	-	-	-	-	0
RSD	487.91	527.91	525.49	5	514.79	3	108.65	269.73
Rihand	252.98	268.22	-	-	-	-	-	0
Tehri	740.04	829.79	827	1,154	823.8	1,083	64.09	122
TOTAL	-	-	-	1,159	-	1,086	172.74	391.73

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	3	34
DELHI	3	19
HARYANA	0	7
HIMACHAL PRADESH	4	28
JAMMU & KASHMIR	3	28
PUNJAB	1	13
RAJASTHAN	1	14
UTTAR PRADESH	0	8
UTTARAKHAND	2	32

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