



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

Power Supply Position in Northern Region For 25-Oct-2018

Date of Reporting:26-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
43,710	1,255	44,965	50.05	35,193	238	35,431	50.02	950	9.85

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	68.17	16.59	0	4.21	0	7.99	96.96	32.84	32.98	0.14	129.94	0	129.94
HARYANA	35.17	0.97	0	0.14	0	0.49	36.77	95.15	95.27	0.12	132.04	0	132.04
RAJASTHAN	153.83	1.99	2.06	12.06	4.44	4.46	178.84	38.27	41.1	2.83	219.94	0	219.94
DELHI	-0.03	0	16.65	0	0	1.05	17.68	55.94	55.85	-0.09	73.53	0	73.53
UTTAR PRADESH	159	13.3	0	2.2	0	2.4	176.9	114.41	114.39	-0.02	291.29	0	291.29
UTTARAKHAND	0	12.42	5.06	0.39	0	0	17.87	15.02	16.3	1.28	34.59	0.42	34.17
HIMACHAL PRADESH	0	6.93	0	0	0	4.66	11.59	14.16	15.75	1.59	27.57	0.23	27.34
JAMMU & KASHMIR	0	8.05	0	0	0	0	8.05	35.51	30.8	-4.71	48.05	9.2	38.85
CHANDIGARH	0	0	0	0	0	0	0	3.15	3.22	0.07	3.22	0	3.22
Region	416.14	60.25	23.77	19	4.44	21.05	544.66	404.45	405.66	1.21	960.17	9.85	950.32

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	5,556	0	19	-1,902	4,025	0	95	-1,549
HARYANA	6,415	0	-96	-759	5,009	0	3	-38
RAJASTHAN	9,088	0	75	-1,720	8,257	0	144	-1,534
DELHI	3,752	0	-10	-897	2,241	0	47	-1,529
UTTAR PRADESH	13,690	790	-107	166	12,105	0	272	558
UTTARAKHAND	1,799	0	185	40	1,245	0	111	-5
HIMACHAL PRADESH	1,374	0	50	-679	877	0	29	59
JAMMU & KASHMIR	1,861	465	-177	339	1,347	238	-203	300
CHANDIGARH	175	0	-4	-100	88	0	4	-30
Region	43,710	1,255	-65	-5,512	35,194	238	502	-3,768

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	5,639	12:00	0	5,639	5,639	12:00	0	5,639
HARYANA	6,415	19:00	0	6,415	6,415	19:00	0	6,415
RAJASTHAN	11,092	8:00	0	11,092	11,092	8:00	0	11,092
DELHI	3,752	19:00	0	3,752	3,752	19:00	0	3,752
UP	13,973	20:00	0	13,973	13,973	20:00	0	13,973
UTTARAKHAND	1,802	7:00	0	1,802	1,802	7:00	0	1,802
HP	1,477	8:00	0	1,477	1,477	8:00	0	1,477
J&K	1,861	19:00	465	2,326	2,326	19:00	465	1,861
CHANDIGARH	175	19:00	0	175	175	19:00	0	175
NR	43,710	19:00	1,255	44,965	44,965	19:00	1,255	43,710

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	476	462	0		11.88	495
DELHI GAS TURBINES(3 * 34 + 6 * 30)	282	31	31	0		0.91	38
PRAGATI GAS TURBINES(1 * 121.2 + 2 * 104.6)	331	157	158	0		3.86	161
RITHALA GPS(3 * 36)	108	0	0	0			
Total GAS/NAPHTHA/DIESEL	2,091	664	651			16.65	694
WIND	0	0	0	0			
BIOMASS(1 * 16)	16	41	29	0		1.05	44
SOLAR(1 * 2)	2	0	0	0			
Total DELHI	2,949	702	677			17.67	737

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	00:00	0	0
JHAJJAR(CLP)(2 * 660)	1,320	608	371	618	19:00	11.45	477
MAGNUM DIESEL (IPP)(4 * 6.3)	25	0	0	0			
PANIPAT TPS(2 * 210 + 2 * 250)	920	200	201	203	08:00	4.89	204
RGTPP(KHEDAR)(2 * 600)	1,200	774	798	1,060	06:00	18.83	785
Total THERMAL	4,065	1,582	1,370			35.17	1,466
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	23	27	28	02:00	0.97	40
Total HYDEL	62	23	27			0.97	40
WIND	0	0	0	0			
BIOMASS(1 * 106)	106	0	0	0		0.49	20
SOLAR(1 * 50)	50	0	0	0		0.14	6
Total HARYANA	4,715	1,605	1,397			36.77	1,532

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	63	95	0		2.01	84
MALANA (IPP) HPS(2 * 43)	86	75	0	0		0.53	22
OTHER HYDRO HP(1 * 372)	372	236	169	0		4.39	183
Total HYDEL	758	374	264			6.93	289
WIND	0	0	0	0			
BIOMASS	0	0	0	0			
SOLAR	0	0	0	0			
SMALL HYDRO(1 * 486)	486	216	181	0		4.66	194
Total SMALL HYDRO	486	216	181			4.66	194
Total HP	1,244	590	445			11.59	483

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	257	256	0		6.16	257
OTHER HYDRO/IPP J&K(1 * 308)	308	108	61	0		1.89	79
Total HYDEL	1,208	365	317			8.05	336
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	365	317			8.05	336

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	160	160		3.88	162
GURU GOBIND SINGH TPS (ROPAR)(6 * 210)	1,260	384	311	384		8.28	345
GURU HARGOBIND SINGH TPS (LEHRA MOHABBAT)(2 * 210 + 2 * 250)	920	430	287	431		9.22	384
GURU NANAK DEV TPS (BHATINDA)(4 * 110)	460	0	0	0		-0.01	0
RAJPURA(NPL) TPS(2 * 700)	1,400	660	660	660		15.82	659
TALWANDI SABO TPS(3 * 660)	1,980	1,500	1,200	1,500		30.99	1,291
Total THERMAL	6,560	3,134	2,618			68.18	2,841
TOTAL HYDRO PUNJAB(1 * 1000)	1,000	554	621	621		16.59	691
Total HYDEL	1,000	554	621			16.59	691
WIND	0	0	0	0			
BIOMASS(1 * 303)	303	0	0	0		7.99	333
SOLAR(1 * 859)	859	0	0	580		4.21	175
Total PUNJAB	8,722	3,688	3,239			96.97	4,040

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	218	187	0		4.88	203
CHHABRA TPS(1 * 660 + 4 * 250)	1,660	1,512	1,496	0		35.05	1,460
GIRAL (IPP) LTPS(2 * 125)	250	0	0	0			
KALISINDH TPS(2 * 600)	1,200	559	547	0		12.98	541
KAWAI TPS(2 * 660)	1,320	1,253	1,156	0		28.79	1,200
KOTA TPS(2 * 110 + 2 * 195 + 3 * 210)	1,240	1,060	1,036	0		24.35	1,015
RAJWEST (IPP) LTPS(8 * 135)	1,080	839	764	0		19.05	794
SURATGARH TPS(6 * 250)	1,500	1,096	1,075	0		28.73	1,197
VSLPP (IPP)(1 * 135)	135	0	0	0			
Total THERMAL	8,635	6,537	6,261			153.83	6,410
DHOLPUR GPS(3 * 110)	330	0	0	0			
RAMGARH GPS(1 * 110 + 1 * 35.5 + 1 * 50 + 2 * 37.5)	271	81	85	0		2.06	86
Total GAS/NAPHTHA/DIESEL	601	81	85			2.06	86
RAPS-A(1 * 100 + 1 * 200)	300	170	168	0		3.91	163
Total NUCLEAR	300	170	168			3.91	163
TOTAL HYDRO RAJASTHAN(1 * 550)	550	43	53	0		1.99	83
Total HYDEL	550	43	53			1.99	83
WIND	4,292	174	232	0		4.44	185
BIOMASS(1 * 102)	102	23	23	0		0.55	23
SOLAR(1 * 1995)	1,995	224	0	0		12.06	503
Total RAJASTHAN	16,475	7,252	6,822			178.84	7,453

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	1,151	1,044	0		28.3	1,179
ANPARA-C TPS(2 * 600)	1,200	1,101	1,092	0		25.1	1,046
ANPARA-D TPS(2 * 500)	1,000	949	948	0		21.7	904
BAJAJ ENERGY PVT LTD (IPP) TPS(10 * 45)	450	0	0	0			
BARA PPGCL TPS(3 * 660)	1,980	1,010	1,025	0		23.5	979
HARDUAGANJ TPS(1 * 105 + 1 * 60 + 2 * 250)	665	313	313	0		6.9	288
LALITPUR TPS(3 * 660)	1,980	628	439	0		12.1	504
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	865	870	0		19.6	817
ROSA TPS(4 * 300)	1,200	798	733	0		17.1	713
TANDA TPS(4 * 110)	440	226	180	0		4.7	196
Total THERMAL	13,763	7,041	6,644			159	6,626
ALAKHANDA HEP(4 * 82.5)	330	150	170	0		3.2	133
VISHNUPARYAG HPS(4 * 110)	440	162	157	0		3.7	154
OTHER HYDRO UP(1 * 527)	527	259	318	0		6.4	267
Total HYDEL	1,297	571	645			13.3	554
WIND	0	0	0	0			
BIOMASS(1 * 26)	26	0	0	0			
SOLAR(1 * 472)	472	0	0	0		2.2	92
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	7,712	7,389			176.9	7,372

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	76	306	307	04:00	5.06	211			
Total GAS/NAPHTHA/DIESEL	450	76	306			5.06	211			
OTHER HYDRO UK(1 * 1250)	1,250	754	443	799	17:00	12.42	518			
Total HYDEL	1,250	754	443			12.42	518			
WIND	0	0	0	0						
BIOMASS(1 * 127)	127	0	0	0						
SOLAR(1 * 100)	100	0	0	67	11:00	0.39	16			
SMALL HYDRO(1 * 180)	180	0	0	0						
Total SMALL HYDRO	180	0	0			0	0			
Total UTTARAKHAND	2,107	830	749			17.87	745			

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	499.4	904	407	904	19:00	11.99	12.12	505	0.13
DEHAR HPS(6 * 165)	990	290.42	645	165	645	19:00	6.97	7.2	300	0.23
PONG HPS(6 * 66)	396	278.96	330	132	330	19:00	6.7	6.78	283	0.08
Sub-Total	2,765	1,068.78	1,879	704	-	-	25.66	26.1	1,088	0.44
NHPC										
BAIRASIUL HPS(3 * 60)	180	0	0	0	0	-	0	-	-	0
CHAMERA HPS(3 * 180)	540	356.5	364	0	370	15:45	3.5	3.66	153	0.16
CHAMERA II HPS(3 * 100)	300	124.24	298	27	301	21:00	2.97	3.06	128	0.09
CHAMERA III HPS(3 * 77)	231	87.19	237	0	237	19:00	2	2.12	88	0.12
DHAULIGANGA HPS(4 * 70)	280	93.05	137	70	142	00:00	2.21	2.24	93	0.03
DULHASTI HPS(3 * 130)	390	346.77	391	0	396	07:00	5	5.11	213	0.11
KISHANGANGA(2 * 110)	220	79.79	192	61	196	21:00	1.92	1.95	81	0.03
PARBATI III HEP(4 * 130)	520	33.58	266	0	391	06:30	0.81	0.84	35	0.03
SALAL HPS(6 * 115)	690	176.25	345	147	514	06:00	4.23	4.69	195	0.46
SEWA-II HPS(3 * 40)	120	119.54	116	0	122	20:00	0.55	0.57	24	0.02
TANAKPUR HPS(1 * 31.42 + 2 * 31.4)	94	56.93	57	51	95	09:00	1.37	1.44	60	0.07
URI HPS(4 * 120)	480	149.27	354	84	354	19:00	3.58	4.18	174	0.6
URI-II HPS(4 * 60)	480	96.93	79	81	182	11:00	2.33	2.43	101	0.1
Sub-Total	4,525	1,720.04	2,836	521	-	-	30.47	32.29	1,345	1.82
NPCL										
NAPS(2 * 220)	440	396	436	432	443	21:00	9.5	9.52	397	0.02
RAPS-B(2 * 220)	440	197	216	217	220	07:00	4.73	4.63	193	-0.1
RAPS-C(2 * 220)	440	420	463	466	463	19:00	10.08	10.08	420	0
Sub-Total	1,320	1,013	1,115	1,115	-	-	24.31	24.23	1,010	-0.08
NTPC										
ANTA GPS(1 * 153.2 + 3 * 88.71)	419	0	381	224	386	06:36	7.06	6.99	291	-0.07
AURAIYA GPS(2 * 109.3 + 4 * 111.19)	663	13	602	396	615	18:00	9.47	9.99	416	0.52
DADRI GPS(2 * 154.51 + 4 * 130.19)	830	0	458	484	807	08:00	11.86	11.97	499	0.11
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	351	576	351	19:00	11.82	11.59	483	-0.23
DADRI-II TPS(2 * 490)	980	928.55	927	856	927	19:00	19.98	20.53	855	0.55
ISTPP (JHAJJAR)(3 * 500)	1,500	947.5	846	984	846	19:00	21.84	21.52	897	-0.32
KOLDAM HPS(4 * 200)	800	872	719	0	866	18:00	5	5	208	0
RIHAND-I STPS(2 * 500)	1,000	922.5	1,017	1,011	1,017	19:00	22.05	24.2	1,008	2.15
RIHAND-II STPS(2 * 500)	1,000	942.5	997	991	997	19:00	22.58	23.66	986	1.08
RIHAND-III STPS(2 * 500)	1,000	471.25	510	496	510	19:00	11.22	11.95	498	0.73
SINGRAULI STPS(2 * 500 + 5 * 200)	2,000	1,810	1,973	1,962	1,973	19:00	43.42	43.52	1,813	0.1
SINGRAULI SOLAR(1 * 15)	15	2.72	0	0	0	-	0.07	-	-	-0.07
UNCHAHAH II TPS(2 * 210)	420	379.44	399	336	399	19:00	8.66	8.72	363	0.06
UNCHAHAH III TPS(1 * 210)	210	191.1	207	163	207	19:00	4.36	4.31	180	-0.05
UNCHAHAH IV TPS(1 * 500)	500	0	0	0	0	-	0	-	-	0
UNCHAHAH SOLAR(1 * 10)	10	1.97	0	0	0	-	0.05	0.04	2	-0.01
UNCHAHAH TPS(2 * 210)	420	382.2	418	269	418	19:00	8.56	8.81	367	0.25
Sub-Total	12,612	8,442.05	9,805	8,748	-	-	208.02	212.82	8,867	4.8
SJVNL										
NATHPA-JHAKRI HPS(6 * 250)	1,500	1,497.38	1,498	0	1,603	18:00	12.11	11.98	499	-0.13
RAMPUR HEP(6 * 68.67)	412	442	424	0	445	18:00	3.37	3.46	144	0.09
Sub-Total	1,912	1,939.38	1,922	0	-	-	15.48	15.44	643	-0.04
THDC										
KOTESHWAR HPS(4 * 100)	400	73.75	102	70	102	19:00	1.77	1.77	74	0
TEHRI HPS(4 * 250)	1,000	1,064	977	0	991	20:00	5.76	5.89	245	0.13
Sub-Total	1,400	1,137.75	1,079	70	-	-	7.53	7.66	319	0.13
Total	24,534	15,321	18,636	11,158			311.47	318.54	13,272	7.07

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	167	0	167	19:00	1.01	1.06	44	0.05
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	6.64	6.55	273	-0.09
MALANA2(2 * 50)	100	0	31	11	105	21:00	0.5	0.53	22	0.03
SAINJ HEP(2 * 50)	50	0	100	19	100	08:00	0.79	0.89	37	0.1
SHREE CEMENT (IPP) TPS(2 * 150)	300	0	295	294	297	07:00	7.15	7.06	294	-0.09
Sub-Total	1,712	0	1,593	324	-	-	16.6	16.09	670	-0.51
Total	1,712	0	1,593	324	-	-	16.6	16.09	670	-0.51

Summary Section					
	Inst. Capacity	PEAK	OFF-PEAK	Day Energy	Day AVG.
Total State Control Area Generation	54,626	22,744	21,035	544.66	22,694
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]		2,546	4,257	95.4	4,384
Total Regional Availability(Gross)	80,872	45,519	36,774	974.69	41,021

Total Hydro Generation					
	Inst. Capacity	PEAK	OFF-PEAK	Day Energy	Day AVG.
Regional Entities Hydro	12,814	9,733	1,325	95.52	3,980
State Control Area Hydro	6,125	2,684	2,370	60.25	2,510
Total Regional Hydro	18,939	12,417	3,695	155.77	6,490

Total Renewable Generation					
	Inst. Capacity	PEAK	OFF-PEAK	Day Energy	Day AVG.
Regional Entities Renewable	30	0	0	0.06	3
State Control Area Renewable	9,214	678	465	38.18	1,591
Total Regional Renewable	9,244	678	465	38.24	1,594

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	-18	-13	-	-	0	0.66	-0.66
2	132KV-Karmnasa(PG)-Sahupuri(U ..	-	-	-	-	-	-	-
3	132KV-Rihand-Sonnagar(PG)	-	-	-	-	-	-	-
4	220KV-Pusauli(PG)-Sahupuri(UP)	136	119	149	0	3.05	0	3.05
5	400KV-Biharsharif(PG)-Baliala(PG)	99	104	22	117	0	1.26	-1.26
6	400KV-Biharsharif(PG)-Varanasi(P..	-307	-297	0	340	0	4.98	-4.98
7	400KV-Fatehpur(UP)-Sasaram	-	-	-	-	-	-	-
8	400KV-Motihari(DMT)-Gorakhpur ..	150	220	272	0	5.63	0	5.63
9	400KV-Muzaffarpur(PG)-Gorakhp ..	-134	-194	97	194	0	1.23	-1.23
10	400KV-Patna(PG)-Baliala(PG)	199	269	507	0	8.68	0	8.68
11	400KV-Sasaram-Allahabad(PG)	85	100	125	0	2.6	0	2.6
12	400KV-Sasaram-Varanasi(PG)	302	285	310	0	6.95	0	6.95
13	765KV-Fatehpur(PG)-Sasaram.	-377	-340	0	417	0	6.57	-6.57
14	765KV-Gaya(PG)-Baliala(PG)	9	30	109	41	0.85	0	0.85
15	765KV-Gaya(PG)-Varanasi(PG)	-293	-265	40	429	0	3.63	-3.63
16	HVDC800KV-Alipurduar-Agra(PG)	300	325	325	0	7.07	0	7.07
Sub-Total EAST REGION		151	343	1,956	1,538	34.83	18.33	16.5
Import/Export between NORTH_EAST REGION and NORTH REGION								
1	HVDC800KV-BiswanathCharialli- ..	600	700	700	0	14.93	0	14.93
Sub-Total NORTH_EAST REGION		600	700	700	0	14.93	0	14.93
Import/Export between WEST REGION and NORTH REGION								
1	220KV-Auraiya(NT)-Malanpur(PG)	-162	-159	-	262	0	4.13	-4.13
2	220KV-Badod(MP)-Kota(PG)	-216	-215	-	277	0	4.84	-4.84
3	220KV-Badod(MP)-Modak(RJ)	-	-	-	-	-	-	-
4	400KV-RAPS C(NP)-Sujalpur	-433	-270	0	548	0	8.32	-8.32
5	400KV-Vindhyachal(PG)-Rihand(N ..	-479	-469	-	488	0	11.33	-11.33
6	400KV-Zerda(PG)-Bhinmal(PG)	-258	-146	80	-372	0	4.32	-4.32
7	400KV-Zerda(PG)-Kankroli(RJ)	0	-203	0	341	0	3.11	-3.11
8	765KV-0rai-Gwalior(PG)	-276	-286	0	393	0	6.97	-6.97
9	765KV-0rai-Jabalpur	-335	36	283	467	0	1.02	-1.02
10	765KV-0rai-Satna	1,384	1,527	1,585	0	35.77	0	35.77
11	765KV-Gwalior(PG)-Agra(PG)	832	1,107	1,228	0	23.17	0	23.17
12	765KV-Phagi(RJ)-Gwalior(PG)	387	642	834	-	14.27	0	14.27
13	HVDC500KV-Mundra(JH)-Mohind..	601	600	610	0	14.59	0	14.59
14	HVDC500KV-Vindhyachal(PG)-Vindhaychal B/B	-250	-250	0	250	0	6.04	-6.04
15	HVDC800KV-Champa(PG)-Kuruku..	1,000	1,300	1,300	0	26.25	0	26.25
Sub-Total WEST REGION		1,795	3,214	5,920	2,654	114.05	50.08	63.97
TOTAL IR EXCHANGE		2,546	4,257	8,576	4,192	163.81	68.41	95.4

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	43.75	-1.03	-32.67	10.05	16.5	6.45

NR-WR	154.42	-5.44	-37.37	111.61	63.97	-47.64
Total	198.17	-6.47	-70.04	121.66	95.4	-26.26

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)	12.04	0		22		0.142	-0.142

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	.2	10.5	48.3	76.5	12	1	0	13

<-----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.	
50.15	13:01:20	49.76	17:45:40	49.99	0.038	0.061	50.08	49.85	23.5

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	425	13:10	412	08:50	0	0	32.29	0	32.29
Abdullapur(PG) - 400KV	425	13:10	412	08:50	0	0	32.29	0	32.29
Amritsar(PG) - 400KV	423	03:25	409	06:40	0	0	28.47	0	28.47
Ballabgarh(PG) - 400KV	421	04:00	404	09:10	0	0	3.82	0	3.82
Bareilly II(PG) - 400KV	419	13:05	401	17:55	0	0	0	0	0
Bareilly(UP) - 400KV	419	13:05	403	17:55	0	0	0	0	0
Baspa(HP) - 400KV	426	04:05	411	18:40	0	0	35.76	0	35.76
Bassi(PG) - 400KV	408	00:00	408	00:00	0	0	0	0	0
Bawana(DTL) - 400KV	423	13:05	410	09:10	0	0	21.53	0	21.53
Dadri HVDC(PG). - 400KV	420	04:00	407	09:10	0	0	0	0	0
Gorakhpur(PG) - 400KV	414	04:00	402	19:00	0	0	0	0	0
Hisar(PG) - 400KV	420	21:35	404	09:10	0	0	.35	0	.35
Kanpur(PG) - 400KV	423	13:05	409	17:55	0	0	5.56	0	5.56
Kashipur(UT) - 400KV	402	00:00	402	00:00	0	0	0	0	0
Kishenpur(PG) - 400KV	420	03:25	405	06:40	0	0	3.13	0	3.13
Moga(PG) - 400KV	418	21:35	403	09:10	0	0	0	0	0
Nallagarh(PG) - 400KV	426	04:05	411	18:40	0	0	35.76	0	35.76
Rihand HVDC(PG) - 400KV	408	13:05	408	13:05	.35	.35	0	0	.35
Rihand(NT) - 400KV	407	13:05	402	19:15	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	790	13:00	770	06:35	0	0	0	0	0
Balia(PG) - 765KV	784	13:05	756	17:55	0	0	0	0	0
Bareilly II(PG) - 765KV	798	13:05	766	17:55	0	0	0	0	0
Bhiwani(PG) - 765KV	807	13:15	773	09:15	0	0	6.25	0	6.25
Fatehpur(PG) - 765KV	784	12:35	746	17:55	0	0	0	0	0
Jhatikara(PG) - 765KV	799	13:05	769	09:10	0	0	0	0	0
Lucknow II(PG) - 765KV	793	13:05	761	17:55	0	0	0	0	0
Meerut(PG) - 765KV	810	13:05	771	09:10	0	0	12.15	0	12.15
Moga(PG) - 765KV	801	13:05	760	09:05	0	0	.69	0	.69
Phagi(RJ) - 765KV	803	13:05	768	06:40	0	0	.69	0	.69
Unnao(UP) - 765KV	775	21:40	755	17:55	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	-842.25	-706.5	0	-640.39	-1,261.61	0	62.54	-16.38	-13.32	32.84
HARYANA	245.45	-283.31	0	287.72	-1,046.74	0	95.1	6.6	-6.56	95.15
RAJASTHAN	-16.36	-1,517.94	0	-16.36	-1,703.26	0	67.7	-0.43	-29.01	38.27
DELHI	-290.59	-1,238.3	0	-279.86	-617.13	0	79.39	-8.56	-14.89	55.94
UTTAR PRADESH	557.64	0	0	169.73	-3.4	0	110.6	4.98	-1.18	114.41
UTTARAKHAND	61.74	-66.31	0	120.44	-80.42	0	12.18	1.92	0.92	15.02
HIMACHAL PRADESH	60	-0.92	0	59.11	-738.27	0	16.36	3.11	-5.32	14.16
JAMMU & KASHMIR	141.41	158.13	0	141.41	197.66	0	25.06	3.4	7.05	35.51
CHANDIGARH	0	-30.2	0	0	-99.97	0	3.83	0	-0.68	3.15
TOTAL	-82.96	-3,685.35	0	-158.2	-5,353.14	0	472.76	-5.36	-62.99	404.45

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	3,523.53	2,235.59	-640.39	-842.25	-201.86	-1,362.54	0	0
HARYANA	4,863.5	3,456.09	328.23	244.47	0.49	-1,113.02	0	0
RAJASTHAN	3,488.92	2,317.78	-16.36	-20.45	352.26	-2,131.15	0	0
DELHI	3,752.58	2,838.73	-278.34	-475.86	-26.9	-1,300.61	0	0
UTTAR PRADESH	6,142.1	3,469.74	557.64	68.94	56.89	-305.1	0	0
UTTARAKHAND	797.94	269.86	120.44	61.74	308.36	-115.62	0	0
HIMACHAL PRADESH	1,434.17	299.05	248.51	57.54	16.49	-794.15	0	0
JAMMU & KASHMIR	1,747.77	726.71	141.41	141.41	612.75	0	0	0
CHANDIGARH	272.26	94.93	0	0	0	-99.97	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	508.69	1,485	507.27	1,411	304.15	309.64
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	422.55	1,006	417.76	795	110.38	379.96
RPS	343.81	352.8	-	-	-	-	-	0
RSD	487.91	527.91	525.58	7	514.91	3	90.7	235.48
Rihand	252.98	268.22	-	-	-	-	-	0
Tehri	740.04	829.79	827.1	1,152	823.95	1,086	64.92	126
TOTAL	-	-	-	3,650	-	3,295	570.15	1,051.08

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	36
DELHI	1	19
HARYANA	1	16
HIMACHAL PRADESH	5	27
JAMMU & KASHMIR	3	27
PUNJAB	0	12
RAJASTHAN	2	15
UTTAR PRADESH	0	10
UTTARAKHAND	3	18

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