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

Power Supply Position in Northern Region For 01-Sep-2018

Date of Reporting:02-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
53,512	762	54,275	50.01	50,340	239	50,579	50	1,193	9.05

2(A)State's Load Deails (At State Periphery) in MU:

State	State's Control Area Generation (Net MU)							Drawal Sch	Act Drawal	UI	Requirement	Shortage	Consumption
	Thermal	Hydro	Gas/Naptha/ Diesel	Solar	Wind	OthersBiomass/Small Hyd/Co-gen etc.)	Total	(Net MU)	(Net MU)	(Net MU)	(Net MU)	(Net MU)	(Net MU)
PUNJAB	89.71	18.73	0	5.8	0	2.26	116.49	142.73	142.03	-0.7	258.52	0	258.52
HARYANA	30.75	0.93	0	0.09	0	0.45	32.22	148.39	148.63	0.24	180.85	0	180.85
RAJASTHAN	110.86	0.05	2.86	11.62	30.21	0.36	155.96	66.37	66.49	0.12	222.45	0	222.45
DELHI	6.52	0	15.29	0	0	0.47	22.27	81.32	81.73	0.41	104.02	0.02	104
UTTAR PRADESH	135.8	16.4	0	1	0	1.2	154.4	159.44	160.09	0.65	314.49	0	314.49
UTTARAKHAND	0	21.93	0	0.42	0	0	22.35	16.57	16.72	0.15	39.07	0	39.07
HIMACHAL PRADESH	0	18.4	0	0	0	8.88	27.28	0.41	2.37	1.96	29.65	0	29.65
JAMMU & KASHMIR	0	24.35	0	0	0	0	24.35	20.77	13.69	-7.08	47.07	9.03	38.04
CHANDIGARH	0	0	0	0	0	0	0	6.23	5.51	-0.72	5.51	0	5.51
Region	373.64	100.79	18.15	18.93	30.21	13.62	555.32	642.23	637.26	-4.97	1,201.63	9.05	1,192.58

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	10,910	0	-65	1,921	9,914	0	-28	1,996
HARYANA	8,301	0	106	1,784	8,202	0	-25	2,137
RAJASTHAN	8,964	0	-258	-481	9,214	0	214	-18
DELHI	4,475	0	61	277	4,739	0	184	343
UTTAR PRADESH	15,605	270	-158	1,501	14,171	0	-22	2,372
UTTARAKHAND	1,720	0	-105	44	1,489	0	19	-224
HIMACHAL PRADESH	1,319	0	54	-1,515	1,055	0	68	-1,576
JAMMU & KASHMIR	1,969	492	-56	-383	1,355	239	-165	-1,040
CHANDIGARH	248	0	-48	-60	201	0	-27	-80
Region	53,511	762	-469	3,088	50,340	239	218	3,910

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 requiremnet
PUNJAB	11,291	15:00	0	11,291	11,291	15:00	0	11,291
HARYANA	8,482	22:00	0	8,482	8,482	22:00	0	8,482
RAJASTHAN	9,953	8:00	0	9,953	9,953	8:00	0	9,953
DELHI	5,346	1:00	0	5,346	5,346	1:00	0	5,346
UP	15,605	20:00	270	15,875	15,875	20:00	270	15,605
UTTARAKHAND	1,810	10:00	0	1,810	1,810	10:00	0	1,810
HP	1,409	10:00	0	1,409	1,409	10:00	0	1,409
J&K	1,969	20:00	492	2,462	2,462	20:00	492	1,969
CHANDIGARH	258	13:00	0	258	258	13:00	0	258
NR	53,512	20:00	762	54,275	54,275	20:00	762	53,512

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	295	296	0		6.52	272
RAJGHAT TPS(2 * 67.5)	135	0	0	0		0	0
Total THERMAL	840	295	296			6.52	272
BAWANA GPS(2 * 253 + 4 * 216)	1,370	428	427	0		10.33	430
DELHI GAS TURBINES(3 * 34 + 6 * 30)	282	38	71	0		1.33	55
PRAGATI GAS TURBINES(1 * 121.2 + 2 * 104.6)	331	146	145	0		3.62	151
RITHALA GPS(3 * 36)	108	0	0	0		0	0
Total GAS/NAPTHA/DIESEL	2,091	612	643			15.28	636
WIND	0	0	0	0		0	0
BIOMASS(1 * 16)	16	16	16	0		0.47	20
SOLAR(1 * 2)	2	0	0	0		0	0
Total DELHI	2,949	923	955			22.27	928

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	477	476	503	01:00	11.16	465
JHAJJAR(CLP)(2 * 660)	1,320	399	374	581	22:00	9.83	410
MAGNUM DIESEL (IPP)(4 * 6.3)	25	0	0	0		0	0
PANIPAT TPS(2 * 210 + 2 * 250)	920	402	403	407	15:00	9.77	407
RGTPP(KHEDAR)(2 * 600)	1,200	0	0	0	00:00	0	0
Total THERMAL	4,065	1,278	1,253			30.76	1,282
FARIDABAD GPS(1 * 156.07 + 2 * 137.75)	432	0	0	0	00:00	0	0
Total GAS/NAPTHA/DIESEL	432	0	0			0	0
TOTAL HYDRO HARYANA(1 * 62)	62	24	28	28	01:00	0.93	39
Total HYDEL	62	24	28			0.93	39
WIND	0	0	0	0		0	0
BIOMASS(1 * 106)	106	0	0	0		0.45	19
SOLAR(1 * 50)	50	0	0	0		0.09	4
Total HARYANA	4,715	1,302	1,281			32.23	1,344

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	331	331	331		7.92	330
MALANA (IPP) HPS(2 * 43)	86	86	87	87	07:00	1.96	82
OTHER HYDRO HP(1 * 372)	372	366	357	0		8.52	355
Total HYDEL	758	783	775			18.4	767
WIND	0	0	0	0		0	0
BIOMASS	0	0	0	0		0	0
SOLAR	0	0	0	0		0	0
SMALL HYDRO(1 * 486)	486	353	386	0		8.88	370
Total SMALL HYDRO	486	353	386			8.88	370
Total HP	1,244	1,136	1,161			27.28	1,137

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		0	0
Total GAS/NAPTHA/DIESEL	190	0	0			0	0
BAGLIHAR (IPP) HPS(6 * 150)	900	884	884	0		21.2	883
OTHER HYDRO/IPP J&K(1 * 308)	308	147	123	0		3.15	131
Total HYDEL	1,208	1,031	1,007			24.35	1,014
WIND	0	0	0	0		0	0
BIOMASS	0	0	0	0		0	0
SOLAR	0	0	0	0		0	0
SMALL HYDRO(1 * 98)	98	0	0	0		0	0
Total SMALL HYDRO	98	0	0			0	0
Total J&K	1,496	1,031	1,007			24.35	1,014

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	145	145	246		3.95	165
GURU GOBIND SINGH TPS (ROPAR)(6 * 210)	1,260	293	293	384		7.83	326
GURU HARGOBIND SINGH TPS (LEHRA MOHABBAT)(2 * 210 + 2 * 250)	920	373	342	426		8.76	365
GURU NANAK DEV TPS (BHATINDA)(4 * 110)	460	0	0	0		-0.02	-1
RAJPURA(NPL) TPS(2 * 700)	1,400	1,320	1,320	1,320		31.59	1,316
TALWANDI SABO TPS(3 * 660)	1,980	1,766	1,325	1,841		37.6	1,567
Total THERMAL	6,560	3,897	3,425			89.71	3,738
TOTAL HYDRO PUNJAB(1 * 1000)	1,000	776	717	776		18.73	780
Total HYDEL	1,000	776	717			18.73	780
WIND	0	0	0	0		0	0
BIOMASS(1 * 303)	303	0	0	0		2.26	94
SOLAR(1 * 859)	859	0	0	504		5.8	242
Total PUNJAB	8,722	4,673	4,142			116.5	4,854

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	112	113	0		2.57	107
CHHABRA TPS(1 * 660 + 4 * 250)	1,660	1,284	1,245	0		29.25	1,219
GIRAL (IPP) LTPS(2 * 125)	250	0	0	0		0	0
KALISINDH TPS(2 * 600)	1,200	538	402	0		10.17	424
KAWAI TPS(2 * 660)	1,320	855	846	0		21.09	879
KOTA TPS(2 * 110 + 2 * 195 + 3 * 210)	1,240	790	798	0		18.96	790
RAJWEST (IPP) LTPS(8 * 135)	1,080	743	451	0		14.25	594
SURATGARH TPS (6 * 250)	1,500	538	518	0		12.65	527
VSLPP (IPP)(1 * 135)	135	104	73	0		1.92	80
Total THERMAL	8,635	4,964	4,446			110.86	4,620
DHOLPUR GPS(3 * 110)	330	0	0	0		0	0
RAMGARH GPS(1 * 110 + 1 * 35.5 + 1 * 50 + 2 * 37.5)	271	114	120	0		2.86	119
Total GAS/NAPTHA/DIESEL	601	114	120			2.86	119
RAPS-A(1 * 100 + 1 * 200)	300	0	0	0		0	0
Total NUCLEAR	300	0	0			0	0
TOTAL HYDRO RAJASTHAN(1 * 550)	550	0	0	0		0.05	2
Total HYDEL	550	0	0			0.05	2
WIND	4,292	1,227	1,616	0		30.21	1,259
BIOMASS(1 * 102)	102	15	15	0		0.36	15
SOLAR(1 * 1995)	1,995	38	0	0		11.62	484
Total RAJASTHAN	16,475	6,358	6,197			155.96	6,499

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	1,327	816	0		27	1,125
ANPARA-C TPS(2 * 600)	1,200	1,096	663	0		18.6	775
ANPARA-D TPS(2 * 500)	1,000	941	941	0		18.3	763
BAJAJ ENERGY PVT LTD (IPP) TPS(10 * 45)	450	0	160	0		3.4	142
BARA PPGCL TPS(3 * 660)	1,980	877	672	0		17.3	721
HARDUAGANJ TPS(1 * 105 + 1 * 60 + 2 * 250)	665	420	253	0		6.9	288
LALITPUR TPS(3 * 660)	1,980	0	0	0		0	0
OBRA TPS (2 * 94 + 5 * 200)	1,188	477	312	0		8.4	350
PANKI TPS(2 * 105)	210	0	0	0		0	0
PARICHA TPS(2 * 110 + 2 * 210 + 2 * 250)	1,160	861	533	0		13.7	571
ROSA TPS(4 * 300)	1,200	1,103	599	0		15.9	663
TANDA TPS(4 * 110)	440	367	230	0		6.3	263
Total THERMAL	13,103	7,469	5,179			135.8	5,661
ALAKHANDA HEP(4 * 82.5)	330	341	340	0		8.1	338
VISHNUPARYAG HPS(4 * 110)	440	0	395	0		6.2	258
OTHER HYDRO UP(1 * 527)	527	149	118	0		2.1	88
Total HYDEL	1,297	490	853			16.4	684
WIND	0	0	0	0		0	0
BIOMASS(1 * 26)	26	0	0	0		0	0
SOLAR(1 * 472)	472	0	0	0		1	42
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	8,009	6,082			154.4	6,437

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		0	0
Total GAS/NAPTHA/DIESEL	450	0	0			0	0
OTHER HYDRO UK(1 * 1250)	1,250	932	911	974	13:00	21.93	914
Total HYDEL	1,250	932	911			21.93	914
WIND	0	0	0	0		0	0
BIOMASS(1 * 127)	127	0	0	0		0	0
SOLAR(1 * 100)	100	0	0	80	13:00	0.42	18
SMALL HYDRO(1 * 180)	180	0	0	0		0	0
Total SMALL HYDRO	180	0	0			0	0
Total UTTARAKHAND	2,107	932	911			22.35	932

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	821.33	1,352	541	1,352	20:00	19.71	19.74	823	0.03
DEHAR HPS(6 * 165)	990	603.38	810	495	810	20:00	14.48	14.44	602	-0.04
PONG HPS(6 * 66)	396	243.75	264	198	264	20:00	5.85	5.94	248	0.09
Sub-Total	2,765	1,668.46	2,426	1,234	-	-	40.04	40.12	1,673	0.08
NHPC										
BAIRASIUL HPS(3 * 60)	180	86.8	121	122	123	21:00	2.08	2.18	91	0.1
CHAMERA HPS(3 * 180)	540	534.33	540	538	542	16:15	11.69	11.85	494	0.16
CHAMERA II HPS(3 * 100)	300	287.81	303	201	304	21:00	6.16	6.32	263	0.16
CHAMERA III HPS(3 * 77)	231	185.72	232	162	237	07:00	4.44	4.56	190	0.12
DHAULIGANGA HPS(4 * 70)	280	272.67	280	287	289	11:00	6.5	6.64	277	0.14
DULHASTI HPS(3 * 130)	390	380.66	398	391	399	19:00	9.14	9.3	388	0.16
KISHANGANGA(2 * 110)	220	108.75	170	100	170	20:00	2.61	2.73	114	0.12
PARBATI III HEP(4 * 130)	520	128.31	496	150	500	19:00	3.08	3.08	128	0
SALAL HPS(6 * 115)	690	688.25	701	704	701	20:00	16.52	16.96	707	0.44
SEWA-II HPS(3 * 40)	120	119.54	117	123	123	03:00	1	1.02	43	0.02
TANAKPUR HPS(1 * 31.42 + 2 * 31.4)	94	90.05	95	95	98	09:00	2.16	2.22	93	0.06
URI HPS(4 * 120)	480	244.38	363	252	363	20:00	5.86	6.37	265	0.51
URI-II HPS(4 * 60)	480	140.06	118	159	221	10:00	3.36	3.43	143	0.07
Sub-Total	4,525	3,267.33	3,934	3,284	-	-	74.6	76.66	3,196	2.06
NPCL										
NAPS(2 * 220)	440	378	415	419	422	08:00	9.07	9.09	379	0.02
RAPS-B(2 * 220)	440	355	399	399	401	04:00	8.52	8.59	358	0.07
RAPS-C(2 * 220)	440	409	450	451	453	18:00	9.82	9.74	406	-0.08
Sub-Total	1,320	1,142	1,264	1,269	-	-	27.41	27.42	1,143	0.01
NTPC										
ANTA GPS(1 * 153.2 + 3 * 88.71)	419	404.86	0	0	0	-	0	0.03	1	0.03
AURAIYA GPS(2 * 109.3 + 4 * 111.19)	663	638.09	0	0	0	-	0	0	0	0
DADRI GPS(2 * 154.51 + 4 * 130.19)	830	609.58	134	106	134	20:00	2.75	2.7	113	-0.05
DADRI SOLAR(1 * 5)	5	0.56	0	0	0	-	0.01	0.01	0	0
DADRI-I TPS(4 * 210)	840	807	241	385	241	20:00	7.18	6.9	288	-0.28
DADRI-II TPS(2 * 490)	980	928.55	547	604	547	20:00	13.59	13.71	571	0.12
ISTPP (JHAJJAR)(3 * 500)	1,500	947.5	906	673	974	19:53	14.41	14.5	604	0.09
KOLDAM HPS(4 * 200)	800	872	867	691	867	20:00	19.01	19.07	795	0.06
RIHAND-I STPS(2 * 500)	1,000	882.63	950	892	950	-	18.43	18.38	766	-0.05
RIHAND-II STPS(2 * 500)	1,000	942.5	934	986	986	-	21.63	21.59	900	-0.04
RIHAND-III STPS(2 * 500)	1,000	942.5	948	973	973	-	18.89	19.73	822	0.84
SINGRAULI STPS(2 * 500 + 5 * 200)	2,000	1,343.01	1,405	1,385	1,405	20:00	27.09	30.54	1,273	3.45
SINGRAULI SOLAR(1 * 15)	15	2.2	0	0	0	-	0.05	0.06	3	0.01
UNCHAHAR II TPS(2 * 210)	420	382.2	404	234	404	20:00	5.46	5.91	246	0.45
UNCHAHAR III TPS(1 * 210)	210	191.1	170	116	170	20:00	2.77	2.96	123	0.19
UNCHAHAR IV TPS(1 * 500)	500	0	0	0	0	-	0	0	0	0
UNCHAHAR SOLAR(1 * 10)	10	1.44	0	0	0	-	0.03	0.04	2	0.01
UNCHAHAR TPS(2 * 210)	420	191.1	204	119	204	20:00	2.82	3.21	134	0.39
Sub-Total	12,612	10,086.82	7,710	7,164	-	-	154.12	159.34	6,641	5.22
SJVNL										
NATHPA-JHAKRI HPS(6 * 250)	1,500	1,605	1,621	1,629	1,644	15:00	38.52	38.91	1,621	0.39
RAMPUR HEP(6 * 68.67)	412	442	448	450	450	03:00	10.61	10.93	455	0.32
Sub-Total	1,912	2,047	2,069	2,079	-	-	49.13	49.84	2,076	0.71
THDC										
KOTESHWAR HPS(4 * 100)	400	366.25	410	360	410	20:00	8.79	8.82	368	0.03
TEHRI HPS(4 * 250)	1,000	1,064	1,068	1,065	1,077	21:00	25.54	25.5	1,063	-0.04
Sub-Total	1,400	1,430.25	1,478	1,425	-	-	34.33	34.32	1,431	-0.01
Total	24,534	19,641.86	18,881	16,455			379.63	387.7	16,160	8.07

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	201	107	202	20:00	2.96	2.93	122	-0.03
BUDHIL HPS (IPP)(2 * 35)	70	0	70	69	70	16:00	1.65	1.49	62	-0.16
KARCHAM WANGTOO HPS(4 * 250)	1,000	0	1,100	1,100	1,100	19:00	26.08	26.35	1,098	0.27
MALANA2(2 * 50)	100	0	109	105	109	20:00	2.14	2.25	94	0.11
SAINJ HEP(2 * 50)	50	0	110	110	110	00:00	2.59	2.6	108	0.01
SHREE CEMENT (IPP) TPS(2 * 150)	300	0	139	125	146	23:00	3.05	2.94	123	-0.11
Sub-Total	1,712	0	1,729	1,616	-	-	38.47	38.56	1,607	0.09
Total	1,712	0	1,729	1,616			38.47	38.56	1,607	0.09

Summary Section					
	Inst. Capacity	PEAK	OFF-PEAK	Day Energy	Day AVG.
Total State Control Area Generation	53,966	24,364	21,736	555.34	23,139
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]		13,145	13,019	235.61	13,580
Total Regional Availability(Gross)	80,212	58,119	52,826	1,217.21	54,480

Total Hydro Generation					
	Inst. Capacity	PEAK	OFF-PEAK	Day Energy	Day AVG.
Regional Entities Hydro	12,814	12,364	10,204	255.63	10,651
State Control Area Hydro	6,125	4,036	4,291	100.79	4,200
Total Regional Hydro	18,939	16,400	14,495	356.42	14,851

Total Renewable Generation					
	Inst. Capacity	PEAK	OFF-PEAK	Day Energy	Day AVG.
Regional Entities Renewable	30	0	0	0.11	5
State Control Area Renewable	9,214	1,649	2,033	61.56	2,565
Total Regional Renewable	9,244	1,649	2,033	61.67	2,570

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	-	-	-	-	0	0	0
2	132KV-Karmnasa(PG)-Sahupuri(U ..	-	-	-	-	0	0	0
3	132KV-Rihand-Sonnagar(PG)	-	-	-	-	0	0.53	-0.53
4	220KV-Pusauli(PG)-Sahupuri(UP)	150	111	-	-	3.24	0	3.24
5	400KV-Biharsharif(PG)-Balia(PG)	157	84	112	0	0.43	0	0.43
6	400KV-Biharsharif(PG)-Varanasi(P..	184	178	0	195	0	3.35	-3.35
7	400KV-Fatehpur(UP)-Sasaram	-	-	-	-	-	-	-
8	400KV-Motihari(DMT)-Gorakhpur ..	-250	-208	0	-274	0	4.39	-4.39
9	400KV-Muzaffarpur(PG)-Gorakhp ..	141	57	322	-31	1.86	0	1.86
10	400KV-Patna(PG)-Balia(PG)	418	384	940	0	11.75	0	11.75
11	400KV-Sasaram-Allahabad(PG)	20	3	23	-	0.04	0	0.04
12	400KV-Sasaram-Varanasi(PG)	-158	-143	-158	0	5.04	0	5.04
13	765KV-Fatehpur(PG)-Sasaram.	-310	-291	0	325	0	5.78	-5.78
14	765KV-Gaya(PG)-Balia(PG)	221	159	236	0	3.41	0	3.41
15	765KV-Gaya(PG)-Varanasi(PG)	61	31	-165	93	0	0.57	-0.57
16	HVDC800KV-Alipurduar-Agra(PG)	1,200	2,000	2,000	0	34.22	0	34.22
Sub-Total EAST REGION		1,834	2,365	3,310	308	59.99	14.62	45.37
Import/Export between NORTH_EAST REGION and NORTH REGION								
1	HVDC800KV-BiswanathCharialli- ..	200	200	600	0	6.98	0	6.98
Sub-Total NORTH_EAST REGION		200	200	600	0	6.98	0	6.98
Import/Export between WEST REGION and NORTH REGION								
1	220KV-Auraiya(NT)-Malanpur(PG)	59	59	-	39	0.91	0	0.91
2	220KV-Badod(MP)-Kota(PG)	-19	72	72	45	0.52	0	0.52
3	220KV-Badod(MP)-Modak(RJ)	-	-	-	-	-	-	-
4	400KV-RAPS C(NP)-Sujalpur	-	-	-	-	1.4	0	1.4
5	400KV-Vindhyachal(PG)-Rihand(N ..	901	927	-	960	0	19.73	-19.73
6	400KV-Zerda(PG)-Bhinmal(PG)	29	0	43	299	0	2.62	-2.62
7	400KV-Zerda(PG)-Kankroli(RJ)	-131	-53	0	467	0	4.85	-4.85
8	765KV-0rai-Gwalior(PG)	-365	-279	0	-376	0	7.08	-7.08
9	765KV-0rai-Jabalpur	798	913	1,037	0	13.53	0	13.53
10	765KV-0rai-Satna	1,827	1,863	1,903	0	40.04	0	40.04
11	765KV-Gwalior(PG)-Agra(PG)	2,770	1,881	2,770	0	43.68	0	43.68
12	765KV-Phagi(RJ)-Gwalior(PG)	1,096	1,125	1,182	-	22.97	0	22.97
13	HVDC500KV-Mundra(JH)-Mohind..	1,996	1,796	2,005	0	44.45	0	44.45
14	HVDC500KV-Vindhyachal(PG)-Vindhaychal B/B	-250	-250	250	250	1.74	3.94	-2.2
15	HVDC800KV-Champa(PG)-Kuruks..	2,400	2,400	2,400	0	52.24	0	52.24
Sub-Total WEST REGION		11,111	10,454	11,662	1,684	221.48	38.22	183.26
TOTAL IR EXCHANGE		13,145	13,019	15,572	1,992	288.45	52.84	235.61

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	49.37	37.73	-35.17	51.93	52.35	0.42

NR-WR	137.9	67.68	-6.81	198.77	183.26	-15.51
Total	187.27	105.41	-41.98	250.7	235.61	-15.09

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)	23.42	0.05	0	23	0	0.1459	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	0	3.6	55.8	88.8	7.2	.7	0	7.6

<----------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)
50.15	13:02:40	49.82	14:43:40	49.99	0.023	0.046	50.07	49.88	11.2

6.Voltage Profile: 400kV

	Maximum		Minimum		Voltage (in %)				Voltage Deviation Index
STATION	VOLTAGE	TIME	VOLTAGE	TIME	< 380	< 390	> 420	> 430	(% of time)
Abdullapur(PG) - 400KV	411	06:00	396	19:30	0	0	0	0	0
Abdullapur(PG) - 400KV	411	06:00	396	19:30	0	0	0	0	0
Amritsar(PG) - 400KV	405	05:40	392	11:45	0	0	0	0	0
Ballabgarh(PG) - 400KV	415	06:00	396	19:15	0	0	0	0	0
Bareilly II(PG) - 400KV	415	07:00	398	19:20	0	0	0	0	0
Bareilly(UP) - 400KV	415	07:00	399	19:20	0	0	0	0	0
Baspa(HP) - 400KV	406	06:00	395	14:50	0	0	0	0	0
Bassi(PG) - 400KV	416	04:00	400	22:20	0	0	0	0	0
Bawana(DTL) - 400KV	413	06:00	398	19:20	0	0	0	0	0
Dadri HVDC(PG). - 400KV	413	06:00	398	19:30	0	0	0	0	0
Gorakhpur(PG) - 400KV	414	08:00	392	18:40	0	0	0	0	0
Hisar(PG) - 400KV	408	06:00	392	19:15	0	0	0	0	0
Kanpur(PG) - 400KV	421	05:40	406	19:15	0	0	4.17	0	4.17
Kashipur(UT) - 400KV	402	00:00	402	00:00	0	0	0	0	0
Kishenpur(PG) - 400KV	410	04:00	401	19:45	0	0	0	0	0
Moga(PG) - 400KV	407	06:00	394	19:30	0	0	0	0	0
Nallagarh(PG) - 400KV	406	06:00	395	14:50	0	0	0	0	0
Rihand HVDC(PG) - 400KV	413	13:00	402	22:15	0	0	0	0	0
Rihand(NT) - 400KV	411	13:00	401	22:15	0	0	0	0	0

6.1 Voltage Profile: 765kV

	Maximum		Minimum		Voltage (in %)				Voltage Deviation Index
STATION	VOLTAGE	TIME	VOLTAGE	TIME	< 728	< 742	> 800	> 820	(% of time)
Anta RS(RJ) - 765KV	788	03:20	773	22:15	0	0	0	0	0
Balia(PG) - 765KV	784	05:35	753	19:20	0	0	0	0	0
Bareilly II(PG) - 765KV	791	07:00	759	19:20	0	0	0	0	0
Bhiwani(PG) - 765KV	795	06:05	768	22:15	0	0	0	0	0
Fatehpur(PG) - 765KV	787	05:40	749	19:15	0	0	0	0	0
Jhatikara(PG) - 765KV	790	05:40	759	19:20	0	0	0	0	0
Lucknow II(PG) - 765KV	789	05:40	756	19:25	0	0	0	0	0
Meerut(PG) - 765KV	801	05:40	769	19:20	0	0	2.08	0	2.08
Moga(PG) - 765KV	794	06:00	768	19:20	0	0	0	0	0
Phagi(RJ) - 765KV	790	04:00	769	22:15	0	0	0	0	0
Unnao(UP) - 765KV	776	06:00	744	19:25	0	0	0	0	0

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)
UTTAR PRADESH	2,371.57	0	0	2,008.32	-507.56	0	126.02	48.25	-14.84	159.44
HIMACHAL PRADESH	-1,101.49	-474.47	0	-1,034.52	-480.15	0	36.59	-25.18	-11	0.41
UTTARAKHAND	62.22	-286	0	5.65	38.81	0	18.21	1.48	-3.14	16.57
PUNJAB	1,995.88	0	0	1,920.71	0	0	95.14	47.59	0	142.73
HARYANA	2,003.16	134.03	0	1,783.5	0.59	0	107.71	40.51	0.18	148.39
CHANDIGARH	0	-80.39	0	0	-60.3	0	7.38	0	-1.15	6.23
DELHI	715.13	-371.82	0	626.8	-349.71	0	70.32	16.83	-5.82	81.32
RAJASTHAN	-97.82	79.6	0	-142.36	-339.05	0	72.1	-2.59	-3.13	66.37
JAMMU & KASHMIR	-767.79	-272.7	0	-767.79	385.16	0	34.01	-18.43	5.2	20.77
TOTAL	5,180.86	-1,271.75	0	4,400.31	-1,312.21	0	567.48	108.46	-33.7	642.23

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
UTTAR PRADESH	6,487.04	4,083.43	2,387.1	1,778.21	0	-2,030.25	0	0
HIMACHAL PRADESH	1,664.42	1,352.32	-1,000.14	-1,136.03	-415.35	-492.3	0	0
UTTARAKHAND	855.55	680.58	103.71	5.65	88.24	-297.99	0	0
PUNJAB	4,392.01	3,722.5	2,039.55	1,869.02	0	0	0	0
HARYANA	5,335.52	3,054.79	2,003.16	1,505.41	136.88	-981.94	0	0
CHANDIGARH	353.25	267.93	0	0	0	-95.47	0	0
DELHI	3,536.81	2,553.07	799.17	621.03	0	-548.69	0	0
RAJASTHAN	3,714	2,204.91	-97.82	-142.36	92.44	-1,370.78	0	0
JAMMU & KASHMIR	1,631.28	1,228.84	-767.79	-767.79	424.67	-272.7	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	500.4	1,114	509.16	1,500	1,019.86	564.38
Chamera-I	748.75	760	753.03	-	-	-	236.67	321.99
Gandhisagar	295.78	295.78	-	-	-	-	-	0
Jawahar Sagar	295.78	298.7	-	-	-	-	-	0
Koteshwar	598.5	612.5	-	-	-	-	-	0
Pong	384.05	426.72	418.18	808	421.19	946	620.7	346.48
RPS	343.81	352.8	-	-	-	-	-	0
RSD	487.91	527.91	520.78	7	520.51	4	339.74	240.88
Rihand	252.98	268.22	262.19	430	866.1	-	-	0
Tehri	740.04	829.79	820.2	1,006	818.85	979	506.16	566
TOTAL	-	-	-	3,365	-	3,429	2,723.13	2,039.73

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

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