



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

Power Supply Position in Northern Region For 30-Sep-2018

Date of Reporting:01-Oct-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
47,097	486	47,583	49.97	42,229	207	42,436	50	1,022	9.81

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	105.19	17.03	0	4.2	0	8.3	134.71	6.59	5.41	-1.18	140.12	0	140.12
HARYANA	22.06	0.99	0	0.17	0	0.47	23.68	106.37	105.8	-0.57	129.48	0	129.48
RAJASTHAN	130.5	0.29	3.02	13.48	7.58	4.05	158.91	51.01	50.49	-0.52	209.4	0	209.4
DELHI	6.7	0	17.39	0	0	0.78	24.87	65.31	64.24	-1.07	89.12	0.01	89.11
UTTAR PRADESH	177.7	19.9	0	3.1	0	1.2	201.9	148.79	148.49	-0.3	350.39	0	350.39
UTTARAKHAND	0	20.39	0	0.73	0	0	21.12	16.87	16.34	-0.53	37.65	0.19	37.46
HIMACHAL PRADESH	0	10.93	0	0	0	7.78	18.71	4.32	5.7	1.38	24.41	0	24.41
JAMMU & KASHMIR	0	15.37	0	0	0	0	15.37	27.34	23.13	-4.21	48.11	9.61	38.5
CHANDIGARH	0	0	0	0	0	0	0	4.29	3.53	-0.76	3.53	0	3.53
Region	442.15	84.9	20.41	21.68	7.58	22.58	599.27	430.89	423.13	-7.76	1,032.21	9.81	1,022.4

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	6,038	0	-118	-2,590	4,896	0	6	-3,326
HARYANA	6,642	0	-276	1,051	5,591	0	163	755
RAJASTHAN	8,761	0	5	-295	8,383	0	76	-1,128
DELHI	4,008	0	-90	-737	3,674	0	70	-708
UTTAR PRADESH	16,617	0	-36	1,615	16,025	0	-77	1,871
UTTARAKHAND	1,741	0	32	32	1,495	0	1	244
HIMACHAL PRADESH	1,154	0	120	-1,265	870	0	35	-755
JAMMU & KASHMIR	1,946	486	-173	-109	1,171	207	-212	-378
CHANDIGARH	190	0	-88	-25	125	0	17	-70
Region	47,097	486	-624	-2,323	42,230	207	79	-3,495

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	6,151	19:00	0	6,151	6,151	19:00	0	6,151
HARYANA	6,642	20:00	0	6,642	6,642	20:00	0	6,642
RAJASTHAN	9,712	8:00	0	9,712	9,712	8:00	0	9,712
DELHI	4,121	1:00	0	4,121	4,121	1:00	0	4,121
UP	16,972	1:00	0	16,972	16,972	1:00	0	16,972
UTTARAKHAND	1,829	19:00	0	1,829	1,829	19:00	0	1,829
HP	1,213	11:00	0	1,213	1,213	11:00	0	1,213
J&K	2,020	21:00	505	2,525	2,525	21:00	505	2,020
CHANDIGARH	190	20:00	0	190	190	20:00	0	190
NR	47,097	20:00	486	47,583	47,583	20:00	486	47,097

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	312	312	332.94		6.7	279
RAJGHAT TPS(2 * 67.5)	135	0	0	0			
Total THERMAL	840	312	312			6.7	279
BAWANA GPS(2 * 253 + 4 * 216)	1,370	592	540	605		12.93	539
DELHI GAS TURBINES(3 * 34 + 6 * 30)	282	34	35	36.43		0.82	34
PRAGATI GAS TURBINES(1 * 121.2 + 2 * 104.6)	331	147	149	150.34		3.63	151
RITHALA GPS(3 * 36)	108	0	0	0			
Total GAS/NAPHTHA/DIESEL	2,091	773	724			17.38	724
WIND	0	0	0	0			
BIOMASS(1 * 16)	16	29	21	31.98		0.78	33
SOLAR(1 * 2)	2	0	0	0			
Total DELHI	2,949	1,114	1,057			24.86	1,036

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	241	230	0		5.33	222
JHAJJAR(CLP)(2 * 660)	1,320	624	622	0		11.85	494
MAGNUM DIESEL (IPP)(4 * 6.3)	25	0	0	0			
PANIPAT TPS(2 * 210 + 2 * 250)	920	198	199	0		4.88	203
RGTPP(KHEDAR)(2 * 600)	1,200	0	0	0			
Total THERMAL	4,065	1,063	1,051			22.06	919
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	29	0		0.99	41
Total HYDEL	62	28	29			0.99	41
WIND	0	0	0	0			
BIOMASS(1 * 106)	106	0	0	0		0.47	20
SOLAR(1 * 50)	50	0	0	0		0.17	7
Total HARYANA	4,715	1,091	1,080			23.69	987

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	130	180	0		3.6	150
MALANA (IPP) HPS(2 * 43)	86	86	56	0		1.37	57
OTHER HYDRO HP(1 * 372)	372	295	273	0		5.97	249
Total HYDEL	758	511	509			10.94	456
WIND	0	0	0	0			
BIOMASS	0	0	0	0			
SOLAR	0	0	0	0			
SMALL HYDRO(1 * 486)	486	329	325	0		7.78	324
Total SMALL HYDRO	486	329	325			7.78	324
Total HP	1,244	840	834			18.72	780

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			
Total GAS/NAPHTHA/DIESEL	190	0	0			0	0
BAGLIHAR (IPP) HPS(6 * 150)	900	501	501	0		12.8	533
OTHER HYDRO/IPP J&K(1 * 308)	308	149	72	0		2.56	107
Total HYDEL	1,208	650	573			15.36	640
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	650	573			15.36	640

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	290	491	491		8.42	351
GURU GOBIND SINGH TPS (ROPAR)(6 * 210)	1,260	467	357	549		10.01	417
GURU HARGOBIND SINGH TPS (LEHRA MOHABBAT)(2 * 210 + 2 * 250)	920	520	622	622		13.38	558
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	1,538	1,841	1,841		41.71	1,738
Total THERMAL	6,560	4,135	4,631			105.18	4,384
TOTAL HYDRO PUNJAB(1 * 1000)	1,000	808	812	812		17.03	710
Total HYDEL	1,000	808	812			17.03	710
WIND	0	0	0	0			
BIOMASS(1 * 303)	303	0	0	0		8.3	346
SOLAR(1 * 859)	859	0	0	490		4.2	175
Total PUNJAB	8,722	4,943	5,443			134.71	5,615

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	0	0	0			
CHHABRA TPS(1 * 660 + 4 * 250)	1,660	1,121	1,220	0		28.87	1,203
GIRAL (IPP) LTPS(2 * 125)	250	0	0	0			
KALISINDH TPS(2 * 600)	1,200	412	557	0		11.77	490
KAWAI TPS(2 * 660)	1,320	876	1,188	0		25.27	1,053
KOTA TPS(2 * 110 + 2 * 195 + 3 * 210)	1,240	670	777	0		17.12	713
RAJWEST (IPP) LTPS(8 * 135)	1,080	848	847	0		20.27	845
SURATGARH TPS(6 * 250)	1,500	1,064	1,322	0		27.21	1,134
VSLPP (IPP)(1 * 135)	135	0	0	0			
Total THERMAL	8,635	4,991	5,911			130.51	5,438
DHOLPUR GPS(3 * 110)	330	0	0	0			
RAMGARH GPS(1 * 110 + 1 * 35.5 + 1 * 50 + 2 * 37.5)	271	122	124	0		3.02	126
Total GAS/NAPHTHA/DIESEL	601	122	124			3.02	126
RAPS-A(1 * 100 + 1 * 200)	300	156	156	0		3.63	151
Total NUCLEAR	300	156	156			3.63	151
TOTAL HYDRO RAJASTHAN(1 * 550)	550	31	0	0		0.29	12
Total HYDEL	550	31	0			0.29	12
WIND	4,292	110	321	0		7.58	316
BIOMASS(1 * 102)	102	17	17	0		0.42	18
SOLAR(1 * 1995)	1,995	45	0	0		13.48	562
Total RAJASTHAN	16,475	5,472	6,529			158.93	6,623

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	1,180	1,190	0		28.6	1,192
ANPARA-C TPS(2 * 600)	1,200	851	860	0		18.4	767
ANPARA-D TPS(2 * 500)	1,000	949	938	0		21.7	904
BAJAJ ENERGY PVT LTD (IPP) TPS(10 * 45)	450	212	45	0		2	83
BARA PPGCL TPS(3 * 660)	1,980	905	888	0		19.7	821
HARDUAGANJ TPS(1 * 105 + 1 * 60 + 2 * 250)	665	498	496	0		10.3	429
LALITPUR TPS(3 * 660)	1,980	1,034	1,423	0		28.1	1,171
OBRA TPS(2 * 94 + 5 * 200)	1,188	499	537	0		11.6	483
PANKI TPS(2 * 105)	210	0	0	0			
PARICHA TPS(2 * 110 + 2 * 210 + 2 * 250)	1,160	664	668	0		11.9	496
ROSA TPS(4 * 300)	1,200	1,065	1,063	0		19.6	817
TANDA TPS(4 * 110)	440	292	293	0		5.8	242
Total THERMAL	13,103	8,149	8,401			177.7	7,405
ALAKHANDA HEP(4 * 82.5)	330	289	290	0		6.9	288
VISHNUPARYAG HPS(4 * 110)	440	355	345	0		8	333
OTHER HYDRO UP(1 * 527)	527	226	206	0		5	208
Total HYDEL	1,297	870	841			19.9	829
WIND	0	0	0	0			
BIOMASS(1 * 26)	26	0	0	0			
SOLAR(1 * 472)	472	0	0	0		3.1	129
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	9,069	9,292			201.9	8,413

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						
Total GAS/NAPHTHA/DIESEL	450	0	0			0	0			
OTHER HYDRO UK(1 * 1250)	1,250	901	843	905	18:00	20.39	850			
Total HYDEL	1,250	901	843			20.39	850			
WIND	0	0	0	0						
BIOMASS(1 * 127)	127	0	0	0						
SOLAR(1 * 100)	100	0	0	85	12:00	0.73	30			
SMALL HYDRO(1 * 180)	180	0	0	0						
Total SMALL HYDRO	180	0	0			0	0			
Total UTTARAKHAND	2,107	901	843			21.12	880			

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	407.89	648	365	648	19:00	9.79	9.94	414	0.15
DEHAR HPS(6 * 165)	990	586.46	725	570	725	19:00	14.08	14.15	590	0.07
PONG HPS(6 * 66)	396	325	330	330	330	01:00	7.8	7.84	327	0.04
Sub-Total	2,765	1,319.35	1,703	1,265	-	-	31.67	31.93	1,331	0.26
NHPC										
BAIRASIUL HPS(3 * 60)	180	94.38	142	112	142	20:00	2.26	2.46	103	0.2
CHAMERA HPS(3 * 180)	540	534.33	542	542	555	16:45	12.8	13.02	543	0.22
CHAMERA II HPS(3 * 100)	300	296.85	301	300	302	14:00	7.12	7.16	298	0.04
CHAMERA III HPS(3 * 77)	231	221.25	216	222	223	01:00	5.3	5.21	217	-0.09
DHAULIGANGA HPS(4 * 70)	280	189.83	284	213	285	21:00	4.51	4.6	192	0.09
DULHASTI HPS(3 * 130)	390	387.16	409	407	409	10:00	9.29	9.58	399	0.29
KISHANGANGA(2 * 110)	220	75.1	172	63	172	20:00	1.8	1.89	79	0.09
PARBATI III HEP(4 * 130)	520	112.77	256	0	381	18:30	2.71	2.77	115	0.06
SALAL HPS(6 * 115)	690	356.38	667	357	688	09:00	8.55	9.27	386	0.72
SEWA-II HPS(3 * 40)	120	119.54	120	124	124	03:00	2.85	2.92	122	0.07
TANAKPUR HPS(1 * 31.42 + 2 * 31.4)	94	94.02	99	100	100	05:00	2.26	2.34	98	0.08
URI HPS(4 * 120)	480	211.35	256	131	411	01:00	5.07	5.67	236	0.6
URI-II HPS(4 * 60)	480	130	134	121	182	14:00	3.12	3.23	135	0.11
Sub-Total	4,525	2,822.96	3,598	2,692	-	-	67.64	70.12	2,923	2.48
NPCL										
NAPS(2 * 220)	440	384	426	426	429	05:00	9.22	9.27	386	0.05
RAPS-B(2 * 220)	440	383	424	426	433	06:00	9.19	9.22	384	0.03
RAPS-C(2 * 220)	440	204	230	230	231	04:00	4.9	4.87	203	-0.03
Sub-Total	1,320	971	1,080	1,082	-	-	23.31	23.36	973	0.05
NTPC										
ANTA GPS(1 * 153.2 + 3 * 88.71)	419	122.23	241	214	241	20:00	5.17	5.06	211	-0.11
AURAIYA GPS(2 * 109.3 + 4 * 111.19)	663	287.88	315	181	315	20:00	5.81	5.92	247	0.11
DADRI GPS(2 * 154.51 + 4 * 130.19)	830	359.02	375	233	375	20:00	6.71	6.68	278	-0.03
DADRI SOLAR(1 * 5)	5	0.91	0	0	0	-	0.02	0.02	1	0
DADRI-I TPS(4 * 210)	840	576.45	561	519	561	20:00	11.62	11.13	464	-0.49
DADRI-II TPS(2 * 490)	980	928.55	906	937	906	20:00	19.39	20.59	858	1.2
ISTPP (JHAJJAR)(3 * 500)	1,500	1,421.25	1,451	1,481	1,518	05:45	30.62	30.36	1,265	-0.26
KOLDAM HPS(4 * 200)	800	872	869	0	870	-	10	10.61	442	0.61
RIHAND-I STPS(2 * 500)	1,000	730	773	806	773	20:00	17.47	17.49	729	0.02
RIHAND-II STPS(2 * 500)	1,000	942.5	998	1,000	998	20:00	22.58	22.73	947	0.15
RIHAND-III STPS(2 * 500)	1,000	471.25	503	500	503	20:00	11.24	11.34	473	0.1
SINGRAULI STPS(2 * 500 + 5 * 200)	2,000	1,810	1,969	1,971	1,969	20:00	43.17	43.46	1,811	0.29
SINGRAULI SOLAR(1 * 15)	15	2.86	0	0	0	-	0.07	0.07	3	0
UNCHAHAH II TPS(2 * 210)	420	382.2	403	405	403	20:00	8.62	8.71	363	0.09
UNCHAHAH III TPS(1 * 210)	210	191.1	195	198	195	20:00	3.92	3.89	162	-0.03
UNCHAHAH IV TPS(1 * 500)	500	0	0	0	0	-	0	-	-	0
UNCHAHAH SOLAR(1 * 10)	10	2.12	0	0	0	-	0.05	0.05	2	0
UNCHAHAH TPS(2 * 210)	420	360.73	321	390	321	20:00	7.88	7.45	310	-0.43
Sub-Total	12,612	9,461.05	9,880	8,835	-	-	204.34	205.56	8,566	1.22
SJVNL										
NATHPA-JHAKRI HPS(6 * 250)	1,500	1,497.38	1,499	504	1,509	18:00	21.2	21.53	897	0.33
RAMPUR HEP(6 * 68.67)	412	442	419	152	427	18:30	5.89	6.23	260	0.34
Sub-Total	1,912	1,939.38	1,918	656	-	-	27.09	27.76	1,157	0.67
THDC										
KOTESHWAR HPS(4 * 100)	400	118.04	402	71	409	19:00	2.83	2.89	120	0.06
TEHRI HPS(4 * 250)	1,000	1,064	989	0	996	21:00	8.85	9.06	378	0.21
Sub-Total	1,400	1,182.04	1,391	71	-	-	11.68	11.95	498	0.27
Total	24,534	17,695.78	19,570	14,601	-	-	365.73	370.68	15,448	4.95

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	194	89	194	20:00	2.82	2.89	120	0.07
BUDHIL HPS (IPP)(2 * 35)	70	0	45	59	45	20:00	1.64	1.33	55	-0.31
KARCHAM WANGTOO HPS(4 * 250)	1,000	0	1,000	350	1,000	19:00	11.27	11.65	485	0.38
MALANA2(2 * 50)	100	0	105	66	105	22:00	1.3	1.3	54	0
SAINJ HEP(2 * 50)	50	0	110	90	110	00:00	2	2.2	92	0.2
SHREE CEMENT (IPP) TPS(2 * 150)	300	0	294	297	298	02:00	6.3	6.16	257	-0.14
Sub-Total	1,712	0	1,748	951	-	-	25.33	25.53	1,063	0.2
Total	1,712	0	1,748	951	-	-	25.33	25.53	1,063	0.2

Summary Section					
	Inst. Capacity	PEAK	OFF-PEAK	Day Energy	Day AVG.
Total State Control Area Generation	53,966	24,080	25,651	599.29	24,970
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]		2,403	1,565	53.27	3,423
Total Regional Availability(Gross)	80,212	47,801	42,768	1,048.77	44,902

Total Hydro Generation					
	Inst. Capacity	PEAK	OFF-PEAK	Day Energy	Day AVG.
Regional Entities Hydro	12,814	10,933	5,338	171.74	7,156
State Control Area Hydro	6,125	3,799	3,607	84.9	3,537
Total Regional Hydro	18,939	14,732	8,945	256.64	10,693

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	530	684	47.01	1,959
Total Regional Renewable	9,244	530	684	47.15	1,965

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	-30	-38	-	38	0	0.71	-0.71
2	132KV-Karmnasa(PG)-Sahupuri(U ..	-	-	-	-	-	-	-
3	132KV-Rihand-Sonnagar(PG)	-	-	-	-	-	-	-
4	220KV-Pusauli(PG)-Sahupuri(UP)	-224	-168	224	0	4.4	0	4.4
5	400KV-Biharsharif(PG)-Baliala(PG)	-108	-96	0	128	0	1.58	-1.58
6	400KV-Biharsharif(PG)-Varanasi(P..	-328	-446	0	473	0	7.75	-7.75
7	400KV-Fatehpur(UP)-Sasaram	-	-	-	-	-	-	-
8	400KV-Motihari(DMT)-Gorakhpur ..	-310	-214	0	310	0	5.26	-5.26
9	400KV-Muzaffarpur(PG)-Gorakhp ..	-164	-5	323	196	0.57	0	0.57
10	400KV-Patna(PG)-Baliala(PG)	82	263	463	0	3.19	0	3.19
11	400KV-Sasaram-Allahabad(PG)	-56	-65	97	0	1.73	0	1.73
12	400KV-Sasaram-Varanasi(PG)	-	-	-	-	7.81	0	7.81
13	765KV-Fatehpur(PG)-Sasaram.	-506	-517	0	550	0	10.58	-10.58
14	765KV-Gaya(PG)-Baliala(PG)	116	10	129	0	0.87	0	0.87
15	765KV-Gaya(PG)-Varanasi(PG)	-422	-409	0	486	0	9.34	-9.34
16	HVDC800KV-Alipurduar-Agra(PG)	400	400	400	-	9.19	0	9.19
Sub-Total EAST REGION		-1,550	-1,285	1,636	2,181	27.76	35.22	-7.46
Import/Export between NORTH_EAST REGION and NORTH REGION								
1	HVDC800KV-BiswanathCharialli- ..	700	700	800	-	16.83	0	16.83
Sub-Total NORTH_EAST REGION		700	700	800	0	16.83	0	16.83
Import/Export between WEST REGION and NORTH REGION								
1	220KV-Auraiya(NT)-Malanpur(PG)	-74	-133	-	216	0	3.45	-3.45
2	220KV-Badod(MP)-Kota(PG)	-69	-158	-	140	0	3.09	-3.09
3	220KV-Badod(MP)-Modak(RJ)	-	-	-	-	-	-	-
4	400KV-RAPS C(NP)-Sujalpur	-34	-234	12	358	0	5.43	-5.43
5	400KV-Vindhyachal(PG)-Rihand(N ..	-471	-475	-	477	0	11.29	-11.29
6	400KV-Zerda(PG)-Bhinmal(PG)	-116	-258	0	375	0	5.79	-5.79
7	400KV-Zerda(PG)-Kankroli(RJ)	-132	-378	0	471	0	8.86	-8.86
8	765KV-0rai-Gwalior(PG)	-283	-253	0	296	0	5.13	-5.13
9	765KV-0rai-Jabalpur	265	62	419	0	2.62	0	2.62
10	765KV-0rai-Satna	1,271	1,254	1,273	0	25	0	25
11	765KV-Gwalior(PG)-Agra(PG)	1,037	823	1,037	-	13.58	0	13.58
12	765KV-Phagi(RJ)-Gwalior(PG)	211	253	208	-	5.75	0	5.75
13	HVDC500KV-Mundra(JH)-Mohind..	1,298	1,297	1,302	0	30.75	0	30.75
14	HVDC500KV-Vindhyachal(PG)-Vindhaychal B/B	-250	-250	0	-250	0	6.04	-6.04
15	HVDC800KV-Champa(PG)-Kuruku..	600	600	1,000	0	15.28	0	15.28
Sub-Total WEST REGION		3,253	2,150	5,251	2,083	92.98	49.08	43.9
TOTAL IR EXCHANGE		2,403	1,565	7,687	4,264	137.57	84.3	53.27

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	42.47	28.31	-91.98	-21.2	-7.46	13.74

NR-WR	130.73	50.34	-77.23	103.84	43.9	-59.94
Total	173.2	78.65	-169.21	82.64	53.27	-29.37

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)	-28.01	-14.69		28		0.4417	-0.4417

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	.6	19	81.2	78.6	2.5	0	0	2.5

<-----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.	
50.09	06:01:20	49.76	16:42:10	49.95	0.056	0.055	50.03	49.83	21.4

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	423	08:40	407	19:20	0	0	32.64	0	32.64
Abdullapur(PG) - 400KV	423	08:40	407	19:20	0	0	32.64	0	32.64
Amritsar(PG) - 400KV	422	03:20	410	18:55	0	0	14.58	0	14.58
Ballabgarh(PG) - 400KV	419	08:00	410	00:05	0	0	0	0	0
Bareilly II(PG) - 400KV	416	13:00	397	19:10	0	0	0	0	0
Bareilly(UP) - 400KV	417	08:45	399	19:45	0	0	0	0	0
Baspa(HP) - 400KV	425	03:20	410	19:20	0	0	39.24	0	39.24
Bassi(PG) - 400KV	420	03:05	407	22:35	0	0	0	0	0
Bawana(DTL) - 400KV	420	08:40	405	19:15	0	0	2.08	0	2.08
Dadri HVDC(PG) - 400KV	418	06:05	418	06:05	17.71	17.71	0	0	17.71
Gorakhpur(PG) - 400KV	411	08:55	387	19:20	0	6.6	0	0	0
Hisar(PG) - 400KV	417	08:00	400	19:10	0	0	0	0	0
Kanpur(PG) - 400KV	420	08:45	409	00:20	0	0	0	0	0
Kashipur(UT) - 400KV	402	00:00	402	00:00	0	0	0	0	0
Kishenpur(PG) - 400KV	422	03:20	407	18:55	0	0	5.56	0	5.56
Moga(PG) - 400KV	416	03:05	403	14:40	0	0	0	0	0
Nallagarh(PG) - 400KV	425	03:20	410	19:20	0	0	39.24	0	39.24
Rihand HVDC(PG) - 400KV	410	13:00	405	00:50	0	0	0	0	0
Rihand(NT) - 400KV	409	13:00	404	00:50	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	793	03:05	782	18:40	0	0	0	0	0
Balia(PG) - 765KV	780	08:45	745	19:20	0	0	0	0	0
Bareilly II(PG) - 765KV	793	08:55	759	19:45	0	0	0	0	0
Bhiwani(PG) - 765KV	802	03:10	775	18:45	0	0	4.17	0	4.17
Fatehpur(PG) - 765KV	780	08:45	740	19:20	0	2.43	0	0	0
Jhatikara(PG) - 765KV	796	08:40	767	19:15	0	0	0	0	0
Lucknow II(PG) - 765KV	786	08:55	752	19:45	0	0	0	0	0
Meerut(PG) - 765KV	808	08:50	775	22:50	0	0	16.67	0	16.67
Moga(PG) - 765KV	795	03:05	761	22:35	0	0	0	0	0
Phagi(RJ) - 765KV	799	02:55	779	19:00	0	0	0	0	0
Unnao(UP) - 765KV	767	08:45	735	19:15	0	7.29	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)
PUNJAB	1,513.44	-4,839.69	0	1,342.52	-3,932.24	0	75.88	35.53	-104.81	6.59
HARYANA	1,394.06	-639.36	0	1,051.11	0	0	96.24	24.28	-14.16	106.37
RAJASTHAN	-51.23	-1,076.28	0	-51.23	-243.54	0	68.1	-1.23	-15.85	51.01
DELHI	562.76	-1,271.25	0	522.03	-1,259.18	0	79.99	13.71	-28.38	65.31
UTTAR PRADESH	1,870.66	0	0	1,614.83	0	0	114.98	37.81	-3.99	148.79
UTTARAKHAND	238.22	6.1	0	56.28	-24.22	0	12.55	4.47	-0.16	16.87
HIMACHAL PRADESH	-779.42	24.53	0	-761.6	-503.06	0	27.11	-18.01	-4.78	4.32
JAMMU & KASHMIR	-654.19	276.01	0	-654.19	545.1	0	33.11	-15.7	9.94	27.34
CHANDIGARH	0	-70.4	0	0	-25.14	0	5.22	0	-0.93	4.29
TOTAL	4,094.3	-7,590.34	0	3,119.75	-5,442.28	0	513.18	80.86	-163.12	430.89

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	3,744.65	2,758.77	1,513.45	1,294.84	-3,831.42	-4,940.51	0	0
HARYANA	4,880.55	3,612.05	1,394.06	710.99	9.33	-1,111.9	0	0
RAJASTHAN	3,611.56	2,304.53	-51.23	-51.23	0	-1,448.99	0	0
DELHI	3,791.56	3,046.14	697.53	463.61	-665.8	-1,665.49	0	0
UTTAR PRADESH	5,990.48	3,256.47	1,891.12	1,437.79	0	-696.94	0	0
UTTARAKHAND	749.84	354.61	238.52	56.28	11.42	-64.46	0	0
HIMACHAL PRADESH	1,496.66	750.73	-677.34	-863.45	203.9	-537.79	0	0
JAMMU & KASHMIR	1,593.67	1,128.2	-654.19	-657.23	545.1	126.63	0	0
CHANDIGARH	295.43	169.34	0	0	0	-95.54	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	507.46	1,426	508.83	1,485	696.62	255.79
Chamera-I	748.75	760	-	-	-	-	-	0
Gandhisagar	295.78	295.78	-	-	-	-	-	0
Jawahar Sagar	295.78	298.7	-	-	-	-	-	0
Koteshwar	598.5	612.5	610.51	5	611.17	5	195	190.98
Pong	384.05	426.72	424.46	1,114	420.51	917	501.49	429.99
RPS	343.81	352.8	-	-	-	-	-	0
RSD	487.91	527.91	526.97	9	518.96	7	376.28	395.18
Rihand	252.98	268.22	264.26	563	263.71	526	11.55	13,934.59
Tehri	740.04	829.79	826.4	1,138	824.9	1,106	178.9	195
TOTAL	-	-	-	4,255	-	4,046	1,959.84	15,401.53

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	4	22
DELHI	5	64
HARYANA	6	71
HIMACHAL PRADESH	1	14
JAMMU & KASHMIR	2	14
PUNJAB	3	19
RAJASTHAN	2	13
UTTAR PRADESH	0	10
UTTARAKHAND	3	22

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 :

1. 400kV Bikaner-SSCTPS Suratgarh-1 charged & synchronized for the first time at 12.45 Hrs. 400kV Bikaner-SSCTPS Suratgarh-2 charged & synchronized for the first time at 15.08 Hrs.
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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