



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

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

Date of Reporting:27-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
46,676	799	47,475	49.94	35,437	213	35,650	50.05	973	10.2

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	45.55	17.18	0	4.29	0	8.3	75.32	53.82	52.06	-1.76	127.38	0	127.38
HARYANA	11.32	0.95	0	0.17	0	0.51	12.94	105.64	106.16	0.52	119.74	0.64	119.1
RAJASTHAN	118.75	0.26	3.2	14.37	11.28	4.05	151.91	47.08	48.73	1.65	200.64	0	200.64
DELHI	7.28	0	13.18	0	0	0	20.46	65.04	63.14	-1.9	83.63	0.03	83.6
UTTAR PRADESH	152.4	22.8	0	2.7	0	1.2	179.1	152.65	153.93	1.28	333.03	0	333.03
UTTARAKHAND	0	21.53	0	0.41	0	0	21.94	15.63	16.2	0.57	38.22	0.08	38.14
HIMACHAL PRADESH	0	12.13	0	0	0	8.61	20.74	5.77	6.35	0.58	27.09	0	27.09
JAMMU & KASHMIR	0	22.07	0	0	0	0	22.07	23.44	17.84	-5.6	49.36	9.45	39.91
CHANDIGARH	0	0	0	0	0	0	0	4.2	4.05	-0.15	4.05	0	4.05
Region	335.3	96.92	16.38	21.94	11.28	22.67	504.48	473.27	468.46	-4.81	983.14	10.2	972.94

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	5,903	0	-178	-1,355	4,004	0	-11	-825
HARYANA	6,604	64	59	1,073	4,295	0	-137	580
RAJASTHAN	9,224	0	-40	-166	7,759	0	325	-1,990
DELHI	4,145	0	10	-534	2,698	0	-66	-928
UTTAR PRADESH	15,858	300	-177	1,678	13,069	0	5	1,880
UTTARAKHAND	1,756	0	-72	74	1,373	0	20	-109
HIMACHAL PRADESH	1,245	0	66	-1,233	917	0	17	-1,154
JAMMU & KASHMIR	1,740	435	36	-678	1,208	213	-13	-678
CHANDIGARH	201	0	-34	-70	114	0	-25	-91
Region	46,676	799	-330	-1,211	35,437	213	115	-3,315

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	5,903	20:00	0	5,903	5,903	20:00	0	5,903
HARYANA	6,604	20:00	64	6,668	6,668	20:00	64	6,604
RAJASTHAN	9,224	20:00	0	9,224	9,224	20:00	0	9,224
DELHI	4,151	13:00	0	4,151	4,151	13:00	0	4,151
UP	16,026	19:00	650	16,676	16,676	19:00	650	16,026
UTTARAKHAND	1,849	19:00	80	1,929	1,929	19:00	80	1,849
HP	1,382	8:00	0	1,382	1,382	8:00	0	1,382
J&K	1,740	20:00	435	2,176	2,176	20:00	435	1,740
CHANDIGARH	211	19:00	0	211	211	19:00	0	211
NR	46,676	20:00	799	47,475	47,475	20:00	799	46,676

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	319	308	350	11:00	7.28	303
RAJGHAT TPS(2 * 67.5)	135	0	0	0			
Total THERMAL	840	319	308			7.28	303
BAWANA GPS(2 * 253 + 4 * 216)	1,370	503	268	503	19:00	8.7	363
DELHI GAS TURBINES(3 * 34 + 6 * 30)	282	34	34	34	06:00	0.82	34
PRAGATI GAS TURBINES(1 * 121.2 + 2 * 104.6)	331	145	152	153	07:00	3.66	153
RITHALA GPS(3 * 36)	108	0	0	0			
Total GAS/NAPHTHA/DIESEL	2,091	682	454			13.18	550
WIND	0	0	0	0			
BIOMASS(1 * 16)	16	0	0	0			
SOLAR(1 * 2)	2	0	0	0			
Total DELHI	2,949	1,001	762			20.46	853

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	0	0	0			
JHAJJAR(CLP)(2 * 660)	1,320	598	401	0		9.75	406
MAGNUM DIESEL (IPP)(4 * 6.3)	25	0	0	0			
PANIPAT TPS(2 * 210 + 2 * 250)	920	201	0	0		1.57	65
RGTPP(KHEDAR)(2 * 600)	1,200	0	0	0			
Total THERMAL	4,065	799	401			11.32	471
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	38	0		0.95	40
Total HYDEL	62	29	38			0.95	40
WIND	0	0	0	0			
BIOMASS(1 * 106)	106	0	0	0		0.51	21
SOLAR(1 * 50)	50	0	0	0		0.17	7
Total HARYANA	4,715	828	439			12.95	539

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	179	218	300	16:00	4.81	200
MALANA (IPP) HPS(2 * 43)	86	93	94	95	21:00	1.99	83
OTHER HYDRO HP(1 * 372)	372	258	207	260	23:00	5.33	222
Total HYDEL	758	530	519			12.13	505
WIND	0	0	0	0			
BIOMASS	0	0	0	0			
SOLAR	0	0	0	0			
SMALL HYDRO(1 * 486)	486	365	370	370	23:00	8.61	359
Total SMALL HYDRO	486	365	370			8.61	359
Total HP	1,244	895	889			20.74	864

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	737	735	0		17.83	743
OTHER HYDRO/IPP J&K(1 * 308)	308	183	181	0		4.24	177
Total HYDEL	1,208	920	916			22.07	920
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	920	916			22.07	920

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	380	145	400		6.3	263
GURU GOBIND SINGH TPS (ROPAR)(6 * 210)	1,260	146	124	165		3.04	127
GURU HARGOBIND SINGH TPS (LEHRA MOHABBAT)(2 * 210 + 2 * 250)	920	192	0	204		3.05	127
GURU NANAK DEV TPS (BHATINDA)(4 * 110)	460	0	0	0		-0.02	-1
RAJPURA(NPL) TPS(2 * 700)	1,400	660	330	660		10.31	430
TALWANDI SABO TPS(3 * 660)	1,980	1,474	616	1,474		22.87	953
Total THERMAL	6,560	2,852	1,215			45.55	1,899
TOTAL HYDRO PUNJAB(1 * 1000)	1,000	636	594	787		17.18	716
Total HYDEL	1,000	636	594			17.18	716
WIND	0	0	0	0			
BIOMASS(1 * 303)	303	0	0	0		8.3	346
SOLAR(1 * 859)	859	0	0	579		4.29	179
Total PUNJAB	8,722	3,488	1,809			75.32	3,140

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	1,141	960	0		23.46	978
GIRAL (IPP) LTPS(2 * 125)	250	0	0	0			
KALISINDH TPS(2 * 600)	1,200	494	401	0		10.5	438
KAWAI TPS(2 * 660)	1,320	1,170	1,084	0		24.79	1,033
KOTA TPS(2 * 110 + 2 * 195 + 3 * 210)	1,240	820	670	0		16.81	700
RAJWEST (IPP) LTPS(8 * 135)	1,080	720	789	0		17.92	747
SURATGARH TPS(6 * 250)	1,500	1,209	1,039	0		25.27	1,053
VSLPP (IPP)(1 * 135)	135	0	0	0			
Total THERMAL	8,635	5,554	4,943			118.75	4,949
DHOLPUR GPS(3 * 110)	330	44	0	0		0.1	4
RAMGARH GPS(1 * 110 + 1 * 35.5 + 1 * 50 + 2 * 37.5)	271	124	128	0		3.1	129
Total GAS/NAPHTHA/DIESEL	601	168	128			3.2	133
RAPS-A(1 * 100 + 1 * 200)	300	161	160	0		3.72	155
Total NUCLEAR	300	161	160			3.72	155
TOTAL HYDRO RAJASTHAN(1 * 550)	550	30	0	0		0.26	11
Total HYDEL	550	30	0			0.26	11
WIND	4,292	177	1,136	0		11.28	470
BIOMASS(1 * 102)	102	14	14	0		0.33	14
SOLAR(1 * 1995)	1,995	48	0	0		14.37	599
Total RAJASTHAN	16,475	6,152	6,381			151.91	6,331

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	1,318	1,337	0		32.5	1,354
ANPARA-C TPS(2 * 600)	1,200	842	840	0		18.5	771
ANPARA-D TPS(2 * 500)	1,000	932	938	0		21.7	904
BAJAJ ENERGY PVT LTD (IPP) TPS(10 * 45)	450	89	126	0		2.3	96
BARA PPGCL TPS(3 * 660)	1,980	896	894	0		19.8	825
HARDUAGANJ TPS(1 * 105 + 1 * 60 + 2 * 250)	665	442	444	0		8.8	367
LALITPUR TPS(3 * 660)	1,980	0	0	0			
OBRA TPS (2 * 94 + 5 * 200)	1,188	487	488	0		10.4	433
PANKI TPS(2 * 105)	210	0	0	0			
PARICHA TPS(2 * 110 + 2 * 210 + 2 * 250)	1,160	667	476	0		14.1	588
ROSA TPS(4 * 300)	1,200	1,016	605	0		18.5	771
TANDA TPS(4 * 110)	440	280	248	0		5.8	242
Total THERMAL	13,103	6,969	6,396			152.4	6,351
ALAKHANDA HEP(4 * 82.5)	330	347	346	0		8.3	346
VISHNUPARYAG HPS(4 * 110)	440	427	427	0		10.3	429
OTHER HYDRO UP(1 * 527)	527	270	139	0		4.2	175
Total HYDEL	1,297	1,044	912			22.8	950
WIND	0	0	0	0			
BIOMASS(1 * 26)	26	0	0	0			
SOLAR(1 * 472)	472	0	0	0		2.7	113
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	8,063	7,358			179.1	7,464

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	931	897	1,006	15:00	21.53	897			
Total HYDEL	1,250	931	897			21.53	897			
WIND	0	0	0	0						
BIOMASS(1 * 127)	127	0	0	0						
SOLAR(1 * 100)	100	0	0	75	15:00	0.41	17			
SMALL HYDRO(1 * 180)	180	0	0	0						
Total SMALL HYDRO	180	0	0			0	0			
Total UTTARAKHAND	2,107	931	897			21.94	914			

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	399.58	651	369	651	19:00	9.7	9.77	407	0.07
DEHAR HPS(6 * 165)	990	614.48	725	610	725	19:00	14.81	15.14	631	0.33
PONG HPS(6 * 66)	396	270.16	330	264	330	20:00	6.48	6.57	274	0.09
Sub-Total	2,765	1,284.22	1,706	1,243	-	-	30.99	31.48	1,312	0.49
NHPC										
BAIRASIUL HPS(3 * 60)	180	12.76	76	19	120	21:00	0.31	0.39	16	0.08
CHAMERA HPS(3 * 180)	540	534.33	544	538	547	10:00	12.82	13.03	543	0.21
CHAMERA II HPS(3 * 100)	300	90.57	0	0	302	09:00	2.17	2.2	92	0.03
CHAMERA III HPS(3 * 77)	231	191.29	227	152	227	20:00	4.59	4.57	190	-0.02
DHAULIGANGA HPS(4 * 70)	280	256.82	283	286	288	23:59	6.12	6.22	259	0.1
DULHASTI HPS(3 * 130)	390	387.16	405	402	409	21:00	9.29	9.53	397	0.24
KISHANGANGA(2 * 110)	220	170	179	173	183	15:00	4.08	4.23	176	0.15
PARBATI III HEP(4 * 130)	520	181.92	349	152	364	06:00	4.42	4.43	185	0.01
SALAL HPS(6 * 115)	690	534.15	545	685	545	20:00	12.82	13.47	561	0.65
SEWA-II HPS(3 * 40)	120	130	133	131	133	20:00	3.12	3.14	131	0.02
TANAKPUR HPS(1 * 31.42 + 2 * 31.4)	94	93.85	98	95	98	20:00	2.25	2.32	97	0.07
URI HPS(4 * 120)	480	220.52	245	167	384	14:00	5.29	5.83	243	0.54
URI-II HPS(4 * 60)	480	126.67	123	122	182	14:00	3.04	3.17	132	0.13
Sub-Total	4,525	2,930.04	3,207	2,922	-	-	70.32	72.53	3,022	2.21
NPCL										
NAPS(2 * 220)	440	385	425	432	425	20:00	9.24	9.32	388	0.08
RAPS-B(2 * 220)	440	375	430	424	430	20:00	9	9.36	390	0.36
RAPS-C(2 * 220)	440	205	230	231	231	03:00	4.92	4.88	203	-0.04
Sub-Total	1,320	965	1,085	1,087	-	-	23.16	23.56	981	0.4
NTPC										
ANTA GPS(1 * 153.2 + 3 * 88.71)	419	107.77	375	189	375	20:00	4.72	4.72	197	0
AURAIYA GPS(2 * 109.3 + 4 * 111.19)	663	256.56	318	325	375	22:00	6.91	6.56	273	-0.35
DADRI GPS(2 * 154.51 + 4 * 130.19)	830	345.93	441	232	441	20:00	6.36	6.69	279	0.33
DADRI SOLAR(1 * 5)	5	0.91	0	0	0	-	0.02	0.02	1	0
DADRI-I TPS(4 * 210)	840	576.45	443	472	443	20:00	10.15	9.96	415	-0.19
DADRI-II TPS(2 * 490)	980	928.55	885	912	885	20:00	18.85	18.46	769	-0.39
ISTPP (JHAJJAR)(3 * 500)	1,500	1,402.57	1,313	1,458	1,313	20:00	29.75	28.92	1,205	-0.83
KOLDAM HPS(4 * 200)	800	872	790	872	874	04:00	16	16.06	669	0.06
RIHAND-I STPS(2 * 500)	1,000	730	786	789	786	20:00	17.42	18.86	786	1.44
RIHAND-II STPS(2 * 500)	1,000	942.5	995	998	995	20:00	22.36	23.57	982	1.21
RIHAND-III STPS(2 * 500)	1,000	471.25	504	504	504	20:00	11.16	11.94	498	0.78
SINGRAULI STPS(2 * 500 + 5 * 200)	2,000	1,801.04	1,964	1,926	1,964	20:00	42.81	46.19	1,925	3.38
SINGRAULI SOLAR(1 * 15)	15	2.72	0	0	0	-	0.07	0.07	3	0
UNCHAHAH II TPS(2 * 210)	420	382.2	413	324	413	20:00	8	8.47	353	0.47
UNCHAHAH III TPS(1 * 210)	210	174.2	199	118	199	20:00	3.39	3.65	152	0.26
UNCHAHAH IV TPS(1 * 500)	500	0	0	0	0	-	0	-	-	0
UNCHAHAH SOLAR(1 * 10)	10	2.22	0	0	0	-	0.05	0.04	2	-0.01
UNCHAHAH TPS(2 * 210)	420	336.44	360	290	360	20:00	6.78	7.05	294	0.27
Sub-Total	12,612	9,333.31	9,786	9,409	-	-	204.8	211.23	8,803	6.43
SJVNL										
NATHPA-JHAKRI HPS(6 * 250)	1,500	1,497.38	1,510	765	1,616	19:00	28.5	28.58	1,191	0.08
RAMPUR HEP(6 * 68.67)	412	442	420	220	439	15:00	7.91	8.23	343	0.32
Sub-Total	1,912	1,939.38	1,930	985	-	-	36.41	36.81	1,534	0.4
THDC										
KOTESHWAR HPS(4 * 100)	400	155.21	406	92	408	19:00	3.72	3.8	158	0.08
TEHRI HPS(4 * 250)	1,000	1,064	1,005	248	1,040	19:00	10	10.23	426	0.23
Sub-Total	1,400	1,219.21	1,411	340	-	-	13.72	14.03	584	0.31
Total	24,534	17,671.16	19,125	15,986			379.4	389.64	16,236	10.24

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	196	181	203	01:00	3.38	4.25	177	0.87
BUDHIL HPS (IPP)(2 * 35)	70	0	69	69	70	08:00	0.92	1.61	67	0.69
KARCHAM WANGTOO HPS(4 * 250)	1,000	0	1,000	600	1,000	19:00	14.92	15.07	628	0.15
MALANA2(2 * 50)	100	0	105	110	110	01:00	1.95	2.13	89	0.18
SAINJ HEP(2 * 50)	50	0	110	108	110	00:00	1.63	2.57	107	0.94
SHREE CEMENT (IPP) TPS(2 * 150)	300	0	298	295	299	09:00	7.16	7.08	295	-0.08
Sub-Total	1,712	0	1,778	1,363	-	-	29.96	32.71	1,363	2.75
Total	1,712	0	1,778	1,363	-	-	29.96	32.71	1,363	2.75

Summary Section					
	Inst. Capacity	PEAK	OFF-PEAK	Day Energy	Day AVG.
Total State Control Area Generation	53,966	22,278	19,451	504.49	21,020
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]		7,270	4,765	74.84	5,158
Total Regional Availability(Gross)	80,212	50,451	41,565	1,001.68	43,776

Total Hydro Generation					
	Inst. Capacity	PEAK	OFF-PEAK	Day Energy	Day AVG.
Regional Entities Hydro	12,814	10,524	7,430	196.54	8,189
State Control Area Hydro	6,125	4,120	3,876	96.92	4,038
Total Regional Hydro	18,939	14,644	11,306	293.46	12,227

Total Renewable Generation					
	Inst. Capacity	PEAK	OFF-PEAK	Day Energy	Day AVG.
Regional Entities Renewable	30	0	0	0.13	5
State Control Area Renewable	9,214	604	1,520	50.97	2,124
Total Regional Renewable	9,244	604	1,520	51.1	2,129

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	-	-	-	-	-	-	-
2	132KV-Karmnasa(PG)-Sahupuri(U ..	-	-	-	-	0	0	0
3	132KV-Rihand-Sonnagar(PG)	-	-	-	-	0	0.67	-0.67
4	220KV-Pusauli(PG)-Sahupuri(UP)	187	172	187	0	4.08	0	4.08
5	400KV-Biharsharif(PG)-Baliala(PG)	-78	-92	27	96	0	1.21	-1.21
6	400KV-Biharsharif(PG)-Varanasi(P..	337	365	0	365	0	6.81	-6.81
7	400KV-Fatehpur(UP)-Sasaram	-	-	-	-	-	-	-
8	400KV-Motihari(DMT)-Gorakhpur ..	-314	-189	0	230	0	5.86	-5.86
9	400KV-Muzaffarpur(PG)-Gorakhp ..	-64	14	360	87	1.48	0	1.48
10	400KV-Patna(PG)-Baliala(PG)	101	59	284	0	3.61	0	3.61
11	400KV-Sasaram-Allahabad(PG)	76	66	105	0	1.99	0	1.99
12	400KV-Sasaram-Varanasi(PG)	310	315	315	0	7.61	0	7.61
13	765KV-Fatehpur(PG)-Sasaram.	-455	-525	0	525	0	10.14	-10.14
14	765KV-Gaya(PG)-Baliala(PG)	137	10	182	29	1.29	0	1.29
15	765KV-Gaya(PG)-Varanasi(PG)	201	473	0	473	0	7.02	-7.02
16	HVDC800KV-Alipurduar-Agra(PG)	700	700	700	0	15.45	0	15.45
Sub-Total EAST REGION		1,138	1,368	2,160	1,805	35.51	31.71	3.8
Import/Export between NORTH_EAST REGION and NORTH REGION								
1	HVDC800KV-BiswanathCharialli- ..	700	700	700	0	16.24	0	16.24
Sub-Total NORTH_EAST REGION		700	700	700	0	16.24	0	16.24
Import/Export between WEST REGION and NORTH REGION								
1	220KV-Auraiya(NT)-Malanpur(PG)	-90	-134	-	185	0	2.55	-2.55
2	220KV-Badod(MP)-Kota(PG)	-79	-153	-	111	0	2.34	-2.34
3	220KV-Badod(MP)-Modak(RJ)	-	-	-	-	-	-	-
4	400KV-RAPS C(NP)-Sujalpur	50	-304	88	308	0	3.25	-3.25
5	400KV-Vindhyachal(PG)-Rihand(N ..	471	467	0	239	0	11.16	-11.16
6	400KV-Zerda(PG)-Bhinmal(PG)	21	-344	39	379	0	4.43	-4.43
7	400KV-Zerda(PG)-Kankroli(RJ)	-72	-445	0	471	0	7.43	-7.43
8	765KV-0rai-Gwalior(PG)	-290	-176	0	-325	0	5.99	-5.99
9	765KV-0rai-Jabalpur	481	94	642	0	2.55	0	2.55
10	765KV-0rai-Satna	1,376	1,197	1,382	0	29.31	0	29.31
11	765KV-Gwalior(PG)-Agra(PG)	1,352	588	1,362	0	20.93	0	20.93
12	765KV-Phagi(RJ)-Gwalior(PG)	762	57	406	-	10.51	0	10.51
13	HVDC500KV-Mundra(JH)-Mohind..	900	1,200	1,202	0	25.22	0	25.22
14	HVDC500KV-Vindhyachal(PG)-Vindhaychal B/B	250	250	0	250	0	6.05	-6.05
15	HVDC800KV-Champa(PG)-Kuruku..	300	400	600	0	9.48	0	9.48
Sub-Total WEST REGION		5,432	2,697	5,721	1,618	98	43.2	54.8
TOTAL IR EXCHANGE		7,270	4,765	8,581	3,423	149.75	74.91	74.84

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	46.66	33.63	-45.88	34.41	3.8	-30.61

NR-WR	120.84	46.13	-93.53	73.44	54.8	-18.64
Total	167.5	79.76	-139.41	107.85	74.84	-33.01

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)	-26.32	-19.84		28		0.5165	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	.1	6.6	53.7	82.5	9.8	1.1	0	11

<-----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.	
50.14	07:45:20	49.78	18:46:40	49.99	0.032	0.055	50.08	49.86	17.5

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	04:00	410	18:50	0	0	32.64	0	32.64
Abdullapur(PG) - 400KV	425	04:00	410	18:50	0	0	32.64	0	32.64
Amritsar(PG) - 400KV	423	03:55	413	18:50	0	0	17.01	0	17.01
Ballabgarh(PG) - 400KV	421	04:00	401	18:45	0	0	2.78	0	2.78
Bareilly II(PG) - 400KV	416	13:05	396	18:40	0	0	0	0	0
Bareilly(UP) - 400KV	413	04:00	397	18:40	0	0	0	0	0
Baspa(HP) - 400KV	419	23:55	412	19:00	0	0	0	0	0
Bassi(PG) - 400KV	419	04:00	401	18:50	0	0	0	0	0
Bawana(DTL) - 400KV	423	04:00	406	18:45	0	0	13.54	0	13.54
Dadri HVDC(PG) - 400KV	422	04:00	405	18:45	0	0	5.9	0	5.9
Gorakhpur(PG) - 400KV	414	07:05	389	18:35	0	.35	0	0	0
Hisar(PG) - 400KV	420	04:00	402	18:45	0	0	.35	0	.35
Kanpur(PG) - 400KV	416	13:10	401	18:45	0	0	0	0	0
Kashipur(UT) - 400KV	402	00:00	402	00:00	0	0	0	0	0
Kishenpur(PG) - 400KV	420	03:35	409	20:20	0	0	0	0	0
Moga(PG) - 400KV	417	03:55	403	18:50	0	0	0	0	0
Nallagarh(PG) - 400KV	419	23:55	412	19:00	0	0	0	0	0
Rihand HVDC(PG) - 400KV	410	10:00	404	18:40	0	0	0	0	0
Rihand(NT) - 400KV	409	10:05	403	18:40	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	795	02:05	776	18:50	0	0	0	0	0
Balia(PG) - 765KV	773	07:05	741	18:35	0	.69	0	0	0
Bareilly II(PG) - 765KV	785	07:05	755	18:40	0	0	0	0	0
Bhiwani(PG) - 765KV	800	02:45	773	18:40	0	0	10.42	0	10.42
Fatehpur(PG) - 765KV	766	07:45	736	18:40	0	2.78	0	0	0
Jhatikara(PG) - 765KV	798	04:00	765	18:45	0	0	0	0	0
Lucknow II(PG) - 765KV	781	07:10	747	18:35	0	0	0	0	0
Meerut(PG) - 765KV	800	04:00	767	18:50	0	0	.35	0	.35
Moga(PG) - 765KV	785	03:55	759	18:50	0	0	0	0	0
Phagi(RJ) - 765KV	797	01:50	772	18:50	0	0	0	0	0
Unnao(UP) - 765KV	766	13:05	736	18:40	0	3.13	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	1,544.24	-2,369.43	0	1,417.59	-2,772.74	0	72.12	36.45	-54.75	53.82
HARYANA	1,443.52	-863.41	0	1,072.99	0	0	89.83	26.61	-10.8	105.64
RAJASTHAN	-52.11	-1,938.12	0	-52.11	-113.99	0	68.76	-1.25	-20.44	47.08
DELHI	561.08	-1,488.89	0	512.8	-1,046.97	0	80.19	13.32	-28.49	65.04
UTTAR PRADESH	1,870.54	9.82	0	1,682.95	-4.77	0	124.6	38.56	-10.51	152.65
UTTARAKHAND	168.46	-277.52	0	67.38	7.09	0	15.72	2.62	-2.71	15.63
HIMACHAL PRADESH	-773.37	-380.42	0	-747.32	-485.64	0	33.86	-17.89	-10.2	5.77
JAMMU & KASHMIR	-677.52	0	0	-677.52	0	0	31.6	-16.26	8.1	23.44
CHANDIGARH	0	-90.52	0	0	-70.4	0	5.88	0	-1.68	4.2
TOTAL	4,084.84	-7,398.49	0	3,276.76	-4,487.42	0	522.56	82.16	-131.48	473.27

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	3,643.28	2,231.25	1,564.74	1,364.02	-1,966.12	-2,772.74	0	0
HARYANA	4,854.86	3,068.8	1,544.49	560.87	0.59	-1,111.31	0	0
RAJASTHAN	3,282.01	2,445.65	-52.11	-52.11	-46.15	-2,207.7	0	0
DELHI	3,609.81	2,764.6	690.58	411.75	-758.32	-1,668.51	0	0
UTTAR PRADESH	6,308.81	4,455.54	1,873.05	1,446.51	9.82	-1,020.73	0	0
UTTARAKHAND	825.54	406.58	198.09	16.84	7.97	-378.6	0	0
HIMACHAL PRADESH	1,636.28	1,147.33	-671.77	-850.29	-313.31	-607.56	0	0
JAMMU & KASHMIR	1,794.59	987.93	-677.52	-677.52	672.72	-152.01	0	0
CHANDIGARH	298.13	207.58	0	0	-40.23	-90.52	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	506.36	1,367	508.86	1,485	1,082.04	260.77
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	5	610.61	5	221	250.91
Pong	384.05	426.72	424.2	1,098	420.92	931	1,321.83	365.51
RPS	343.81	352.8	-	-	-	-	-	0
RSD	487.91	527.91	526.79	7	519.81	7	2,005.46	444.19
Rihand	252.98	268.22	264.35	582	263.8	532	-	0
Tehri	740.04	829.79	-	-	-	-	-	0
TOTAL	-	-	-	3,059	-	2,960	4,630.33	1,321.38

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
CHANDIGARH	6	39
DELHI	6	52
HARYANA	1	14
HIMACHAL PRADESH	4	28
JAMMU & KASHMIR	2	23
PUNJAB	2	20
RAJASTHAN	2	31
UTTAR PRADESH	0	9
UTTARAKHAND	1	13

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 :

400KV / 11 KV Station Transformer -3.charged at 10:20 AM at NTPC Tanda.

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