



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

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

Date of Reporting:02-Nov-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
42,538	337	42,875	50.06	34,014	237	34,251	50.04	928	8.62

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	69.81	11.86	0	2.8	0	7.99	92.46	26.06	25.55	-0.51	118.01	0	118.01
HARYANA	44.13	0.87	0	0.1	0	0.47	45.57	76.89	77.43	0.54	123	0	123
RAJASTHAN	143.84	3.83	2.16	13.43	5.03	4.26	172.55	54.87	56.41	1.54	228.96	0	228.96
DELHI	0	0	22.5	0	0	0.87	23.37	47.62	47.9	0.28	71.28	0.01	71.27
UTTAR PRADESH	158.1	10.8	0	2.7	0	2.4	174	108.03	109.87	1.84	283.87	0	283.87
UTTARAKHAND	0	10.4	0	0.48	0	0	10.87	23.16	24.79	1.63	35.66	0	35.66
HIMACHAL PRADESH	0	5.83	0	0	0	4.04	9.87	16.84	17.99	1.15	27.86	0	27.86
JAMMU & KASHMIR	0	7.19	0	0	0	0	7.19	37.38	29.09	-8.29	44.89	8.61	36.28
CHANDIGARH	0	0	0	0	0	0	0	3.36	3.33	-0.03	3.33	0	3.33
Region	415.88	50.78	24.66	19.51	5.03	20.03	535.88	394.21	392.36	-1.85	936.86	8.62	928.24

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	5,546	0	-105	-1,674	3,671	0	-117	-1,372
HARYANA	6,301	0	-14	-759	4,535	0	82	-616
RAJASTHAN	9,418	0	-159	-751	8,574	0	140	-713
DELHI	3,660	0	6	-812	2,084	0	11	-1,617
UTTAR PRADESH	12,914	0	-142	98	11,552	0	145	68
UTTARAKHAND	1,817	0	73	561	1,263	0	205	333
HIMACHAL PRADESH	1,355	0	103	-221	902	0	23	296
JAMMU & KASHMIR	1,349	337	-654	488	1,342	237	-354	496
CHANDIGARH	178	0	-21	-20	91	0	6	-20
Region	42,538	337	-913	-3,090	34,014	237	141	-3,145

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	5,546	19:00	0	5,546	5,546	19:00	0	5,546
HARYANA	6,301	19:00	0	6,301	6,301	19:00	0	6,301
RAJASTHAN	11,259	8:00	0	11,259	11,259	8:00	0	11,259
DELHI	3,660	19:00	0	3,660	3,660	19:00	0	3,660
UP	13,436	20:00	0	13,436	13,436	20:00	0	13,436
UTTARAKHAND	1,817	19:00	0	1,817	1,817	19:00	0	1,817
HP	1,521	8:00	0	1,521	1,521	8:00	0	1,521
J&K	1,926	7:00	482	2,408	2,408	7:00	482	1,926
CHANDIGARH	178	19:00	0	178	178	19:00	0	178
NR	42,538	19:00	337	42,875	42,875	19:00	337	42,538

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	0	0	0			
RAJGHAT TPS(2 * 67.5)	135	0	0	0			
Total THERMAL	840	0	0			0	0
BAWANA GPS(2 * 253 + 4 * 216)	1,370	741	674	786		17.14	714
DELHI GAS TURBINES(3 * 34 + 6 * 30)	282	73	40	76.12		1.49	62
PRAGATI GAS TURBINES(1 * 121.2 + 2 * 104.6)	331	158	158	160.95		3.86	161
RITHALA GPS(3 * 36)	108	0	0	0			
Total GAS/NAPTHA/DIESEL	2,091	972	872			22.49	937
WIND	0	0	0	0			
BIOMASS(1 * 16)	16	29	30	33.41		0.87	36
SOLAR(1 * 2)	2	0	0	0			
Total DELHI	2,949	1,001	902			23.36	973

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	1,213	965	1,237	12:00	26.17	1,090
MAGNUM DIESEL (IPP)(4 * 6.3)	25	0	0	0			
PANIPAT TPS(2 * 210 + 2 * 250)	920	0	0	0	00:00	0	0
RGTPP(KHEDAR)(2 * 600)	1,200	893	405	991	06:00	17.95	748
Total THERMAL	4,065	2,106	1,370			44.12	1,838
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	26	29	29	01:00	0.87	36
Total HYDEL	62	26	29			0.87	36
WIND	0	0	0	0			
BIOMASS(1 * 106)	106	0	0	0		0.47	20
SOLAR(1 * 50)	50	0	0	0		0.1	4
Total HARYANA	4,715	2,132	1,399			45.56	1,898

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	71	26	159	09:00	1.63	68
MALANA (IPP) HPS(2 * 43)	86	0	0	74	17:00	0.48	20
OTHER HYDRO HP(1 * 372)	372	125	138	150	19:00	3.73	155
Total HYDEL	758	196	164			5.84	243
WIND	0	0	0	0			
BIOMASS	0	0	0	0			
SOLAR	0	0	0	0			
SMALL HYDRO(1 * 486)	486	136	151	153	19:00	4.04	168
Total SMALL HYDRO	486	136	151			4.04	168
Total HP	1,244	332	315			9.88	411

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/NAPTHA/DIESEL	190	0	0			0	0
BAGLIHAR (IPP) HPS(6 * 150)	900	237	236	0		5.67	236
OTHER HYDRO/IPP J&K(1 * 308)	308	49	52	0		1.53	64
Total HYDEL	1,208	286	288			7.2	300
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	286	288			7.2	300

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	246	210	246		5.29	220
GURU GOBIND SINGH TPS (ROPAR)(6 * 210)	1,260	316	192	343		5.09	212
GURU HARGOBIND SINGH TPS (LEHRA MOHABBAT)(2 * 210 + 2 * 250)	920	593	86	597		10.77	449
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		31.68	1,320
TALWANDI SABO TPS(3 * 660)	1,980	700	700	813		17	708
Total THERMAL	6,560	3,175	2,508			69.82	2,909
TOTAL HYDRO PUNJAB(1 * 1000)	1,000	412	449	634		11.86	494
Total HYDEL	1,000	412	449			11.86	494
WIND	0	0	0	0			
BIOMASS(1 * 303)	303	0	0	0		7.99	333
SOLAR(1 * 859)	859	0	0	424		2.8	117
Total PUNJAB	8,722	3,587	2,957			92.47	3,853

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	76	0	0		1.16	48
CHHABRA TPS(1 * 660 + 4 * 250)	1,660	1,444	1,456	0		34.35	1,431
GIRAL (IPP) LTPS(2 * 125)	250	0	0	0			
KALISINDH TPS(2 * 600)	1,200	555	563	0		13.44	560
KAWAI TPS(2 * 660)	1,320	1,251	1,165	0		28.14	1,173
KOTA TPS(2 * 110 + 2 * 195 + 3 * 210)	1,240	809	812	0		21.41	892
RAJWEST (IPP) LTPS(8 * 135)	1,080	835	843	0		20.14	839
SURATGARH TPS (6 * 250)	1,500	891	898	0		22.84	952
VSLPP (IPP)(1 * 135)	135	100	99	0		2.36	98
Total THERMAL	8,635	5,961	5,836			143.84	5,993
DHOLPUR GPS(3 * 110)	330	0	0	0			
RAMGARH GPS(1 * 110 + 1 * 35.5 + 1 * 50 + 2 * 37.5)	271	88	88	0		2.16	90
Total GAS/NAPTHA/DIESEL	601	88	88			2.16	90
RAPS-A(1 * 100 + 1 * 200)	300	162	165	0		3.83	160
Total NUCLEAR	300	162	165			3.83	160
TOTAL HYDRO RAJASTHAN(1 * 550)	550	165	152	0		3.83	160
Total HYDEL	550	165	152			3.83	160
WIND	4,292	165	266	0		5.03	210
BIOMASS(1 * 102)	102	18	18	0		0.43	18
SOLAR(1 * 1995)	1,995	10	0	0		13.43	560
Total RAJASTHAN	16,475	6,569	6,525			172.55	7,191

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	1,323	1,359	0		34	1,417
ANPARA-C TPS(2 * 600)	1,200	1,092	1,092	0		26.1	1,088
ANPARA-D TPS(2 * 500)	1,000	943	936	0		21.6	900
BAJAJ ENERGY PVT LTD (IPP) TPS(10 * 45)	450	0	0	0			
BARA PPGCL TPS(3 * 660)	1,980	1,011	1,057	0		25	1,042
HARDUAGANJ TPS(1 * 105 + 1 * 60 + 2 * 250)	665	309	302	0		7.4	308
LALITPUR TPS(3 * 660)	1,980	0	0	0			
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	624	656	0		15.2	633
ROSA TPS(4 * 300)	1,200	805	878	0		20.3	846
TANDA TPS(4 * 110)	440	369	269	0		8.5	354
Total THERMAL	13,763	6,476	6,549			158.1	6,588
ALAKHANDA HEP(4 * 82.5)	330	83	83	0		2.5	104
VISHNUPARYAG HPS(4 * 110)	440	147	137	0		3.4	142
OTHER HYDRO UP(1 * 527)	527	264	171	0		4.9	204
Total HYDEL	1,297	494	391			10.8	450
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	100	100	0		2.4	100
Total OTHERs	1,360	100	100			2.4	100
Total UP	16,918	7,070	7,040			174	7,251

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	0	0	0			
Total GAS/NAPTHA/DIESEL	450	0	0			0	0
OTHER HYDRO UK(1 * 1250)	1,250	629	331	649	10:00	10.4	433
Total HYDEL	1,250	629	331			10.4	433
WIND	0	0	0	0			
BIOMASS(1 * 127)	127	0	0	0			
SOLAR(1 * 100)	100	0	0	71	10:00	0.48	20
SMALL HYDRO(1 * 180)	180	0	0	0			
Total SMALL HYDRO	180	0	0			0	0
Total UTTARAKHAND	2,107	629	331			10.88	453

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	582.05	1,088	415	1,088	19:00	13.97	14.18	591	0.21
DEHAR HPS(6 * 165)	990	247.08	645	140	645	19:00	5.93	6.07	253	0.14
PONG HPS(6 * 66)	396	205.16	264	132	264	19:00	4.92	4.9	204	-0.02
Sub-Total	2,765	1,034.29	1,997	687	-	-	24.82	25.15	1,048	0.33
NHPC										
BAIRASIUL HPS(3 * 60)	180	0	0	0	0	-	0	-	-	0
CHAMERA HPS(3 * 180)	540	535.58	545	0	553	06:45	3.82	4.04	168	0.22
CHAMERA II HPS(3 * 100)	300	119.52	301	0	304	08:00	2.21	2.57	107	0.36
CHAMERA III HPS(3 * 77)	231	199.25	225	0	233	18:00	1.5	1.61	67	0.11
DHAULIGANGA HPS(4 * 70)	280	92.81	216	70	216	07:00	2.23	2.28	95	0.05
DULHASTI HPS(3 * 130)	390	386.9	392	0	399	07:00	5.04	5.1	213	0.06
KISHANGANGA(2 * 110)	220	8.75	0	0	62	23:00	0.21	0.22	9	0.01
PARBATI III HEP(4 * 130)	520	41.51	393	0	394	18:45	1	1.02	43	0.02
SALAL HPS(6 * 115)	690	145.62	224	115	224	19:00	3.5	4.2	175	0.7
SEWA-II HPS(3 * 40)	120	120.2	117	0	119	20:00	0.39	0.41	17	0.02
TANAKPUR HPS(1 * 31.42 + 2 * 31.4)	94	49.31	50	56	95	01:00	1.18	1.24	52	0.06
URI HPS(4 * 120)	480	115.21	65	90	65	19:00	2.76	2.77	115	0.01
URI-II HPS(4 * 60)	480	85.01	78	79	183	14:00	2.04	2.08	87	0.04
Sub-Total	4,525	1,899.67	2,606	410	-	-	25.88	27.54	1,148	1.66
NPCL										
NAPS(2 * 220)	440	350	430	440	447	08:00	8.4	9.53	397	1.13
RAPS-B(2 * 220)	440	196	217	217	217	19:00	4.7	4.66	194	-0.04
RAPS-C(2 * 220)	440	416	467	470	471	05:00	9.98	10.09	420	0.11
Sub-Total	1,320	962	1,114	1,127	-	-	23.08	24.28	1,011	1.2
NTPC										
ANTA GPS(1 * 153.2 + 3 * 88.71)	419	0	369	269	392	07:17	7.25	7.13	297	-0.12
AURAIYA GPS(2 * 109.3 + 4 * 111.19)	663	0	569	366	624	14:00	10.25	10.46	436	0.21
DADRI GPS(2 * 154.51 + 4 * 130.19)	830	0	578	451	754	-	12.4	12.33	514	-0.07
DADRI SOLAR(1 * 5)	5	0.87	0	0	3	12:38	0.02	0.01	0	-0.01
DADRI-I TPS(4 * 210)	840	576.45	599	429	599	19:00	12.74	12.47	520	-0.27
DADRI-II TPS(2 * 490)	980	464.29	443	397	443	19:00	10.92	10.77	449	-0.15
ISTPP (JHAJJAR)(3 * 500)	1,500	947.5	984	953	1,010	08:34	22.35	22.14	923	-0.21
KOLDAM HPS(4 * 200)	800	872	683	0	764	18:00	4	3.98	166	-0.02
RIHAND-I STPS(2 * 500)	1,000	922.5	1,002	1,008	1,002	19:00	22.1	22.96	957	0.86
RIHAND-II STPS(2 * 500)	1,000	942.5	1,003	1,007	1,003	19:00	22.59	22.73	947	0.14
RIHAND-III STPS(2 * 500)	1,000	471.25	241	514	241	19:00	11.29	11.03	460	-0.26
SINGRAULI STPS(2 * 500 + 5 * 200)	2,000	1,859.9	2,016	2,035	2,016	19:00	44.63	44.79	1,866	0.16
SINGRAULI SOLAR(1 * 15)	15	2.48	0	0	0	-	0.06	0.06	3	0
UNCHAHAH II TPS(2 * 210)	420	382.2	402	339	402	19:00	8.83	8.94	373	0.11
UNCHAHAH III TPS(1 * 210)	210	191.1	197	167	197	19:00	4.31	4.26	178	-0.05
UNCHAHAH IV TPS(1 * 500)	500	0	0	0	0	-	0	0	0	0
UNCHAHAH SOLAR(1 * 10)	10	1.89	0	0	0	-	0.05	0.05	2	0
UNCHAHAH TPS(2 * 210)	420	382.2	396	338	396	19:00	8.62	8.63	360	0.01
Sub-Total	12,612	8,017.13	9,482	8,273	-	-	202.41	202.74	8,451	0.33
SJVNL										
NATHPA-JHAKRI HPS(6 * 250)	1,500	1,497.38	1,453	0	1,522	18:00	10.45	10.46	436	0.01
RAMPUR HEP(6 * 68.67)	412	442	417	0	433	18:00	2.9	3	125	0.1
Sub-Total	1,912	1,939.38	1,870	0	-	-	13.35	13.46	561	0.11
THDC										
KOTESHWAR HPS(4 * 100)	400	91.25	102	91	102	07:00	2.19	2.21	92	0.02
TEHRI HPS(4 * 250)	1,000	1,064	972	0	997	18:00	7	7.13	297	0.13
Sub-Total	1,400	1,155.25	1,074	91	-	-	9.19	9.34	389	0.15
Total	24,534	15,007.72	18,143	10,588			298.73	302.51	12,608	3.78

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	0	0	0	-	0	-	-	0
BUDHIL HPS (IPP)(2 * 35)	70	0	69	0	69	19:00	0.41	0.43	18	0.02
KARCHAM WANGTOO HPS(4 * 250)	1,000	0	1,000	0	1,000	18:00	5.45	5.49	229	0.04
MALANA2(2 * 50)	100	0	0	10	105	11:00	0.45	0.48	20	0.03
SAINJ HEP(2 * 50)	50	0	100	40	100	06:30	0.8	0.86	36	0.06
SHREE CEMENT (IPP) TPS(2 * 150)	300	0	298	260	298	19:00	7.01	6.99	291	-0.02
Sub-Total	1,712	0	1,467	310	-	-	14.12	14.25	594	0.13
Total	1,712	0	1,467	310			14.12	14.25	594	0.13

Summary Section					
	Inst. Capacity	PEAK	OFF-PEAK	Day Energy	Day AVG.
Total State Control Area Generation	54,626	21,606	19,757	535.9	22,329
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]		3,425	4,806	103.44	4,847
Total Regional Availability(Gross)	80,872	44,641	35,461	956.1	40,374

Total Hydro Generation					
	Inst. Capacity	PEAK	OFF-PEAK	Day Energy	Day AVG.
Regional Entities Hydro	12,814	9,399	1,238	86.73	3,614
State Control Area Hydro	6,125	2,208	1,804	50.8	2,117
Total Regional Hydro	18,939	11,607	3,042	137.53	5,731

Total Renewable Generation					
	Inst. Capacity	PEAK	OFF-PEAK	Day Energy	Day AVG.
Regional Entities Renewable	30	0	0	0.12	5
State Control Area Renewable	9,214	358	465	38.34	1,598
Total Regional Renewable	9,244	358	465	38.46	1,603

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	-	-	-	-	-	-	-
2	132KV-Karmnasa(PG)-Sahupuri(U ..	-	-	-	-	0.96	0	0.96
3	132KV-Rihand-Sonnagar(PG)	-	-	-	-	0	0.66	-0.66
4	220KV-Pusauli(PG)-Sahupuri(UP)	140	116	192	0	3.23	0	3.23
5	400KV-Biharsharif(PG)-Balía(PG)	-74	-27	60	111	0	0.78	-0.78
6	400KV-Biharsharif(PG)-Varanasi(P..	-225	-159	0	252	0	3.7	-3.7
7	400KV-Fatehpur(UP)-Sasaram	-	-	-	-	-	-	-
8	400KV-Motihari(DMT)-Gorakhpur ..	154	280	280	0	5.94	0	5.94
9	400KV-Muzaffarpur(PG)-Gorakhp ..	-134	-117	189	181	0	1.1	-1.1
10	400KV-Patna(PG)-Balía(PG)	275	444	556	0	10.08	0	10.08
11	400KV-Sasaram-Allahabad(PG)	108	125	157	0	3.06	0	3.06
12	400KV-Sasaram-Varanasi(PG)	280	263	280	0	6.48	0	6.48
13	765KV-Fatehpur(PG)-Sasaram.	-308	-238	0	308	0	4.77	-4.77
14	765KV-Gaya(PG)-Balía(PG)	33	58	103	13	1.3	0	1.3
15	765KV-Gaya(PG)-Varanasi(PG)	151	42	110	190	0	0.97	-0.97
16	HVDC800KV-Alipurduar-Agra(PG)	350	350	350	0	8.47	0	8.47
Sub-Total EAST REGION		750	1,137	2,277	1,055	39.52	11.98	27.54

Import/Export between NORTH_EAST REGION and NORTH REGION								
1	HVDC800KV-BiswanathCharialli- ..	575	600	725	0	14.81	0	14.81
Sub-Total NORTH_EAST REGION		575	600	725	0	14.81	0	14.81

Import/Export between WEST REGION and NORTH REGION								
1	220KV-Auraiya(NT)-Malanpur(PG)	-189	-144	-	262	0	4.04	-4.04
2	220KV-Badod(MP)-Kota(PG)	-135	-111	-	239	0	3.03	-3.03
3	220KV-Badod(MP)-Modak(RJ)	-	-	-	-	-	-	-
4	400KV-RAPS C(NP)-Sujalpur	-288	-212	-	474	0	7.01	-7.01
5	400KV-Vindhyachal(PG)-Rihand(N ..	-472	-479	-	482	0	11.33	-11.33
6	400KV-Zerda(PG)-Bhinmal(PG)	-93	-244	46	324	0	3	-3
7	400KV-Zerda(PG)-Kankroli(RJ)	-374	-336	0	510	0	8.63	-8.63
8	765KV-0rai-Gwalior(PG)	-274	-326	0	448	0	8.25	-8.25
9	765KV-0rai-Jabalpur	144	227	421	261	3.8	0	3.8
10	765KV-0rai-Satna	1,224	1,518	1,538	0	34.02	0	34.02
11	765KV-Gwalior(PG)-Agra(PG)	902	1,180	1,310	0	24.69	0	24.69
12	765KV-Phagi(RJ)-Gwalior(PG)	454	795	983	-	16.96	0	16.96
13	HVDC500KV-Mundra(JH)-Mohind..	801	801	1,202	0	18.37	0	18.37
14	HVDC500KV-Vindhyachal(PG)-Vindhaychal B/B	-250	-250	0	250	0	6.04	-6.04
15	HVDC800KV-Champa(PG)-Kuruku..	650	650	650	0	14.58	0	14.58
Sub-Total WEST REGION		2,100	3,069	6,150	3,250	112.42	51.33	61.09
TOTAL IR EXCHANGE		3,425	4,806	9,152	4,305	166.75	63.31	103.44

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	51.45	-19.58	0.41	32.28	27.54	-4.74

NR-WR	150.82	-23.29	-34.5	93.03	61.09	-31.94
Total	202.27	-42.87	-34.09	125.31	103.44	-21.87

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)	-24.55	-0.02		25		0.1029	-0.1029

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	8.7	62.2	81.9	8.2	1.2	0	9.4

<-----Frequency (Hz)----->

Maximum		Minimum		Average	Freq Variation	Standard	Freq. in 15 mnt blk		Freq Dev Index
Frequency	Time	Frequency	Time				Max.	Min.	
50.16	13:05:40	49.82	05:12:50	49.98	0.035	0.056	50.1	49.88	18.1

6.Voltage Profile: 400kV

	Maximum		Minimum		Voltage (in %)				Voltage Deviation Index (% of time)
STATION	VOLTAGE	TIME	VOLTAGE	TIME	< 380	< 390	> 420	> 430	
Abdullapur(PG) - 400KV	428	13:00	411	18:15	0	0	42.36	0	42.36
Abdullapur(PG) - 400KV	428	13:00	411	18:15	0	0	42.36	0	42.36
Amritsar(PG) - 400KV	430	13:00	414	06:45	0	0	45.83	.35	45.83
Ballabgarh(PG) - 400KV	424	21:00	409	18:10	0	0	12.85	0	12.85
Bareilly II(PG) - 400KV	415	21:00	404	18:10	0	0	0	0	0
Bareilly(UP) - 400KV	417	21:00	405	18:10	0	0	0	0	0
Baspa(HP) - 400KV	430	13:10	412	18:15	0	0	53.82	0	53.82
Bassi(PG) - 400KV	418	21:00	395	06:45	0	0	0	0	0
Bawana(DTL) - 400KV	424	21:00	410	18:10	0	0	28.47	0	28.47
Dadri HVDC(PG). - 400KV	422	04:00	409	18:10	0	0	9.72	0	9.72
Gorakhpur(PG) - 400KV	415	13:05	401	19:15	0	0	0	0	0
Hisar(PG) - 400KV	422	21:00	407	06:45	0	0	3.13	0	3.13
Kanpur(PG) - 400KV	419	21:00	408	18:10	0	0	0	0	0
Kashipur(UT) - 400KV	402	00:00	402	00:00	0	0	0	0	0
Kishenpur(PG) - 400KV	425	04:00	407	06:55	0	0	20.83	0	20.83
Moga(PG) - 400KV	424	13:00	406	06:55	0	0	2.08	0	2.08
Nallagarh(PG) - 400KV	430	13:10	412	18:15	0	0	53.82	0	53.82
Rihand HVDC(PG) - 400KV	404	20:55	404	20:55	1.39	1.39	0	0	1.39
Rihand(NT) - 400KV	403	04:00	399	19:10	0	0	0	0	0

6.1 Voltage Profile: 765kV

	Maximum		Minimum		Voltage (in %)				Voltage Deviation Index (% of time)
STATION	VOLTAGE	TIME	VOLTAGE	TIME	< 728	< 742	> 800	> 820	
Anta RS(RJ) - 765KV	788	04:05	770	06:20	0	0	0	0	0
Balia(PG) - 765KV	772	02:00	764	09:20	0	0	0	0	0
Bareilly II(PG) - 765KV	792	13:05	771	18:10	0	0	0	0	0
Bhiwani(PG) - 765KV	806	13:05	779	18:15	0	0	3.47	0	3.47
Fatehpur(PG) - 765KV	789	13:05	744	18:10	0	0	0	0	0
Jhatikara(PG) - 765KV	802	13:05	775	06:25	0	0	.69	0	.69
Lucknow II(PG) - 765KV	787	13:05	766	18:10	0	0	0	0	0
Meerut(PG) - 765KV	811	13:05	775	18:10	0	0	2.78	0	2.78
Moga(PG) - 765KV	807	13:00	758	15:35	0	0	1.04	0	1.04
Phagi(RJ) - 765KV	797	13:00	769	06:30	0	0	0	0	0
Unnao(UP) - 765KV	775	13:05	759	18:10	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	-1,371.71	0	0	-1,371.71	-302.69	0	60.55	-32.92	-1.56	26.06
HARYANA	-616.31	0	0	-570.93	-187.77	0	95.38	-15.93	-2.58	76.89
RAJASTHAN	-101.92	-610.97	0	-101.92	-648.89	0	64.03	-1.72	-7.44	54.87
DELHI	-749.58	-867.55	0	-524.32	-287.84	0	76.23	-18.11	-10.5	47.62
UTTAR PRADESH	68.28	0	0	97.52	0	0	114.72	-5.6	-1.08	108.03
UTTARAKHAND	490.05	-157.52	0	548.67	11.88	0	12.44	12.22	-1.49	23.16
HIMACHAL PRADESH	296.84	-1.33	0	145.91	-366.95	0	14.63	6.39	-4.17	16.84
JAMMU & KASHMIR	496.41	0	0	496.41	-8.32	0	23.47	11.91	1.99	37.38
CHANDIGARH	0	-20.13	0	0	-20.13	0	3.83	0	-0.47	3.36
TOTAL	-1,487.94	-1,657.5	0	-1,280.37	-1,810.71	0	465.28	-43.76	-27.3	394.21

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	3,424.29	2,192.92	-1,371.71	-1,371.71	0	-302.69	0	0
HARYANA	4,885.11	3,639.35	-529.82	-812.51	2.75	-951.96	0	0
RAJASTHAN	3,427.06	2,055.25	44.12	-101.92	976.9	-1,117.72	0	0
DELHI	3,509.58	2,783.01	-524.32	-873.9	224.41	-1,137.28	0	0
UTTAR PRADESH	6,094.96	3,816.44	101.44	-608.53	19.62	-610	0	0
UTTARAKHAND	821.41	327.55	548.67	490.05	132.59	-349.12	0	0
HIMACHAL PRADESH	1,447.23	249.5	332.53	145.82	170.47	-914.08	0	0
JAMMU & KASHMIR	1,609.95	520.27	496.41	496.41	317.92	-261.84	0	0
CHANDIGARH	284.03	104.33	0	0	9.74	-85.55	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	508.4	1,470	506.97	1,397	248.17	363.9
Chamera-I	748.75	760	756.13	-	-	-	97.08	109.4
Gandhisagar	295.78	295.78	-	-	-	-	-	0
Jawahar Sagar	295.78	298.7	-	-	-	-	-	0
Koteshwar	598.5	612.5	609.38	4	611.55	5	154	146.03
Pong	384.05	426.72	422	976	416.83	756	76.37	278.55
RPS	343.81	352.8	-	-	-	-	-	0
RSD	487.91	527.91	524.74	5	514.22	4	120.33	253.88
Rihand	252.98	268.22	262.65	457	262.62	455	-	0
Tehri	740.04	829.79	826.25	1,134	823	1,066	77.18	154
TOTAL	-	-	-	4,046	-	3,683	773.13	1,305.76

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	33
DELHI	0	11
HARYANA	0	12
HIMACHAL PRADESH	5	49
JAMMU & KASHMIR	3	32
PUNJAB	1	17
RAJASTHAN	3	23
UTTAR PRADESH	0	9
UTTARAKHAND	2	20

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