



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

Power Supply Position in Northern Region For 22-Dec-2018

Date of Reporting:23-Dec-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
44,736	427	45,163	49.99	31,032	315	31,347	50	948	11.87

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	77.64	12.83	0	3.8	0	1.07	95.33	25.03	24.43	-0.6	119.76	0	119.76
HARYANA	57.01	0.43	0	0.12	0	1.25	58.81	68.17	68.74	0.57	127.55	0	127.55
RAJASTHAN	134.9	4.01	1.9	16.68	6.61	4.43	168.54	69.65	68.64	-1.01	237.18	0	237.18
DELHI	0	0	12.8	0	0	0.6	13.4	52.05	52.06	0.01	65.46	0	65.46
UTTAR PRADESH	142.33	7.55	0	2.66	0	21.6	174.14	107.12	106.31	-0.81	281.39	0.94	280.45
UTTARAKHAND	0	9.21	3.85	0.39	0	0.68	14.13	25.46	24.81	-0.65	38.94	0	38.94
HIMACHAL PRADESH	0	3.76	0	0	0	2.43	6.2	22.18	23.58	1.4	29.88	0.1	29.78
JAMMU & KASHMIR	0	5.23	0	0	0	0	5.23	42.64	40.26	-2.38	56.32	10.83	45.49
CHANDIGARH	0	0	0	0	0	0	0	3.22	3.45	0.23	3.45	0	3.45
Region	411.88	43.02	18.55	23.65	6.61	32.06	535.78	415.52	412.28	-3.24	959.93	11.87	948.06

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	5,769	0	-126	-1,989	3,579	0	33	-1,290
HARYANA	6,624	0	-21	-1,044	4,207	0	126	-873
RAJASTHAN	10,401	0	-7	-107	8,040	0	141	-17
DELHI	3,295	0	1	-1,146	1,593	0	-9	-1,421
UTTAR PRADESH	13,290	0	-282	114	9,633	0	-57	117
UTTARAKHAND	1,955	0	-36	618	1,272	0	5	605
HIMACHAL PRADESH	1,509	0	144	229	845	0	-38	437
JAMMU & KASHMIR	1,708	427	-449	1,093	1,786	315	-3	710
CHANDIGARH	186	0	10	0	78	0	-5	-15
Region	44,737	427	-766	-2,232	31,033	315	193	-1,747

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	Min Demand Met	Time
PUNJAB	5,769	19:00	0	5,769	5,769	19:00	0	5,769	3,579	3:00
HARYANA	6,624	19:00	0	6,624	6,624	19:00	0	6,624	4,179	2:00
RAJASTHAN	12,951	10:00	0	12,951	12,951	10:00	0	12,951	7,490	5:00
DELHI	3,755	12:00	0	3,755	3,755	12:00	0	3,755	1,523	4:00
UP	13,500	7:00	0	13,500	13,500	7:00	0	13,500	9,633	3:00
UTTARAKHAND	2,063	8:00	0	2,063	2,063	8:00	0	2,063	1,259	2:00
HP	1,622	9:00	0	1,622	1,622	9:00	0	1,622	845	3:00
J&K	2,282	8:00	571	2,853	2,853	8:00	571	2,282	1,498	18:00
CHANDIGARH	215	9:00	0	215	215	9:00	0	215	78	3:00
NR	45,738	10:00	714	46,452	46,452	10:00	714	45,738	31,032	3:00

3(A) State Entities Generation:

CHANDIGARH						
Station/Constituents	Inst. Capacity	N/A	N/A	Day Peak		Day Energy
	(MW)	Peak MW	Off Peak MW	(MW)	Hrs	(MU)
NIL						
Total	0	0	0			0
Total	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	338	289	440		7.95	331
DELHI GAS TURBINES(3 * 34 + 6 * 30)	282	40	38	41.46		0.91	38
PRAGATI GAS TURBINES(1 * 121.2 + 2 * 104.6)	331	164	163	164.63		3.95	165
RITHALA GPS(3 * 36)	108	0	0	0			
Total GAS/NAPHTHA/DIESEL	2,091	542	490			12.81	534
WIND	0	0	0	0			
BIOMASS(1 * 16)	16	20	17	24.69		0.6	25
SOLAR(1 * 2)	2	0	0	0			
Total DELHI	2,949	562	507			13.41	559

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	571	489	571	19:00	12.31	513
JHAJJAR(CLP)(2 * 660)	1,320	1,230	740	1,236	11:00	25.07	1,045
MAGNUM DIESEL (IPP)(4 * 6.3)	25	0	0	0			
PANIPAT TPS(2 * 210 + 2 * 250)	920	403	403	460	11:00	9.93	414
RGTPP(KHEDAR)(2 * 600)	1,200	391	394	571	11:00	9.7	404
Total THERMAL	4,065	2,595	2,026			57.01	2,376
FARIDABAD GPS(1 * 156.07 + 2 * 137.75)	432	0	0	0	00:00	0	0
Total GAS/NAPHTHA/DIESEL	432	0	0			0	0
TOTAL HYDRO HARYANA(1 * 62)	62	14	0	22	02:00	0.43	18
Total HYDEL	62	14	0			0.43	18
WIND	0	0	0	0			
BIOMASS(1 * 106)	106	0	0	0		1.25	52
SOLAR(1 * 50)	50	0	0	0		0.12	5
Total HARYANA	4,715	2,609	2,026			58.81	2,451

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	73	27	0		1.25	52
MALANA (IPP) HPS(2 * 43)	86	49	0	0		0.27	11
OTHER HYDRO HP(1 * 372)	372	144	68	0		2.25	94
Total HYDEL	758	266	95			3.77	157
WIND	0	0	0	0			
BIOMASS	0	0	0	0			
SOLAR	0	0	0	0			
SMALL HYDRO(1 * 486)	486	150	56	0		2.43	101
Total SMALL HYDRO	486	150	56			2.43	101
Total HP	1,244	416	151			6.2	258

JAMMU & KASHMIR							
Station/Constituents	Inst. Capacity	19:00	03:00	Day Peak		Day Energy	AVG. MW
	(MW)	Peak MW	Off Peak MW	(MW)	Hrs	(MU)	
GAS/DIESEL/OTHERS J&K(1 * 190)	190	0	0	0			
Total GAS/NAPHTHA/DIESEL	190	0	0			0	0
BAGLIHAR (IPP) HPS(6 * 150)	900	148	148	0		3.55	148
OTHER HYDRO/IPP J&K(1 * 308)	308	100	49	0		1.68	70
Total HYDEL	1,208	248	197			5.23	218
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	248	197			5.23	218

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	356	290	491		9.2	383
GURU GOBIND SINGH TPS (ROPAR)(6 * 210)	1,260	0	0	0		-0.1	-4
GURU HARGOBIND SINGH TPS (LEHRA MOHABBAT)(2 * 210 + 2 * 250)	920	184	170	233		4.38	183
GURU NANAK DEV TPS (BHATINDA)(4 * 110)	460	0	0	0		-0.09	-4
RAJPURA(NPL) TPS(2 * 700)	1,400	1,320	958	1,320		28.38	1,183
TALWANDI SABO TPS(3 * 660)	1,980	1,841	924	1,841		35.85	1,494
Total THERMAL	6,560	3,701	2,342			77.62	3,235
TOTAL HYDRO PUNJAB(1 * 1000)	1,000	498	439	511		12.83	535
Total HYDEL	1,000	498	439			12.83	535
WIND	0	0	0	0			
BIOMASS(1 * 303)	303	0	0	0		1.07	45
SOLAR(1 * 859)	859	0	0	0		3.8	158
Total PUNJAB	8,722	4,199	2,781			95.32	3,973

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	219	224	0		5.13	214
CHHABRA TPS(1 * 660 + 4 * 250)	1,660	1,216	1,054	0		28.11	1,171
GIRAL (IPP) LTPS(2 * 125)	250	0	0	0			
KALISINDH TPS(2 * 600)	1,200	1,134	808	0		23.19	966
KAWAI TPS(2 * 660)	1,320	1,210	844	0		26.92	1,122
KOTA TPS(2 * 110 + 2 * 195 + 3 * 210)	1,240	1,180	845	0		24.18	1,008
RAJWEST (IPP) LTPS(8 * 135)	1,080	579	541	0		12.49	520
SURATGARH TPS(6 * 250)	1,500	618	354	0		12.41	517
VSLPP (IPP)(1 * 135)	135	104	105	0		2.48	103
Total THERMAL	8,635	6,260	4,775			134.91	5,621
DHOLPUR GPS(3 * 110)	330	0	0	0			
RAMGARH GPS(1 * 110 + 1 * 35.5 + 1 * 50 + 2 * 37.5)	271	77	76	0		1.9	79
Total GAS/NAPHTHA/DIESEL	601	77	76			1.9	79
RAPS-A(1 * 100 + 1 * 200)	300	158	162	0		3.71	155
Total NUCLEAR	300	158	162			3.71	155
TOTAL HYDRO RAJASTHAN(1 * 550)	550	212	107	0		4.01	167
Total HYDEL	550	212	107			4.01	167
WIND	4,292	193	488	0		6.61	275
BIOMASS(1 * 102)	102	30	30	0		0.73	30
SOLAR(1 * 1995)	1,995	18	0	0		16.68	695
Total RAJASTHAN	16,475	6,948	5,638			168.55	7,022

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	1,441	1,208	0		33.97	1,415
ANPARA-C TPS(2 * 600)	1,200	1,096	564	0		24.19	1,008
ANPARA-D TPS(2 * 500)	1,000	956	949	0		21.88	912
BAJAJ ENERGY PVT LTD (IPP) TPS(10 * 45)	450	0	0	0			
BARA PPGCL TPS(3 * 660)	1,980	1,104	692	0		24.04	1,002
HARDUAGANJ TPS(1 * 105 + 1 * 60 + 2 * 250)	665	442	263	0		9.64	402
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	310	209	0		7.23	301
PANKI TPS(2 * 105)	210	0	0	0			
PARICHA TPS(2 * 110 + 2 * 210 + 2 * 250)	1,160	601	344	0		13	542
ROSA TPS(4 * 300)	1,200	0	0	0			
TANDA TPS(4 * 110)	440	345	260	0		8.4	350
Total THERMAL	13,763	6,295	4,489			142.35	5,932
ALAKHANDA HEP(4 * 82.5)	330	86	75	0		1.49	62
VISHNUPARYAG HPS(4 * 110)	440	88	83	0		2.03	85
OTHER HYDRO UP(1 * 527)	527	186	174	0		4.04	168
Total HYDEL	1,297	360	332			7.56	315
WIND	0	0	0	0			
BIOMASS(1 * 26)	26	0	0	0			
SOLAR(1 * 472)	472	0	0	0		2.66	111
CO-GENERATION(1 * 1360)	1,360	900	900	0		21.6	900
Total OTHERs	1,360	900	900			21.6	900
Total UP	16,918	7,555	5,721			174.17	7,258

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	199	103	202	22:00	3.85	160			
Total GAS/NAPHTHA/DIESEL	450	199	103			3.85	160			
OTHER HYDRO UK(1 * 1250)	1,250	593	263	593	19:00	9.21	384			
Total HYDEL	1,250	593	263			9.21	384			
WIND	0	0	0	0						
BIOMASS(1 * 127)	127	28	27	28	18:00	0.68	28			
SOLAR(1 * 100)	100	0	0	74	13:00	0.39	16			
SMALL HYDRO(1 * 180)	180	0	0	0						
Total SMALL HYDRO	180	0	0			0	0			
Total UTTARAKHAND	2,107	820	393			14.13	588			

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	710.39	1,182	542	1,182	19:00	17.05	17.15	715	0.1
DEHAR HPS(6 * 165)	990	152.71	480	0	480	19:00	3.66	3.78	158	0.12
PONG HPS(6 * 66)	396	296.56	330	264	330	19:00	7.12	7.17	299	0.05
Sub-Total	2,765	1,159.66	1,992	806	-	-	27.83	28.1	1,172	0.27
NHPC										
BAIRASIUL HPS(3 * 60)	180	0	0	0	0	-	0	-	-	0
CHAMERA HPS(3 * 180)	540	535.58	357	0	548	18:00	2.5	2.64	110	0.14
CHAMERA II HPS(3 * 100)	300	139.74	200	25	204	07:00	1.34	1.49	62	0.15
CHAMERA III HPS(3 * 77)	231	153	159	0	160	18:00	0.69	0.76	32	0.07
DHAULIGANGA HPS(4 * 70)	280	281.38	279	0	288	07:00	1.06	1.13	47	0.07
DULHASTI HPS(3 * 130)	390	386.9	389	0	391	06:00	3.1	3.22	134	0.12
KISHANGANGA(2 * 110)	220	44.54	0	0	0	-	1.07	-	-	-1.07
PARBATI III HEP(4 * 130)	520	0	0	0	0	-	0	-	-	0
SALAL HPS(6 * 115)	690	118.75	356	147	356	19:00	2.85	3.44	143	0.59
SEWA-II HPS(3 * 40)	120	90.66	124	0	124	18:00	0.39	0.43	18	0.04
TANAKPUR HPS(1 * 31.42 + 2 * 31.4)	94	28.61	29	64	66	14:00	0.69	0.67	28	-0.02
URI HPS(4 * 120)	480	137.81	360	123	360	19:00	3.31	3.77	157	0.46
URI-II HPS(4 * 60)	480	82.39	122	78	181	11:00	1.98	2.14	89	0.16
Sub-Total	4,525	1,999.36	2,375	437	-	-	18.98	19.69	820	0.71
NPCL										
NAPS(2 * 220)	440	416	414	414	414	19:00	9.98	9.9	413	-0.08
RAPS-B(2 * 220)	440	182	204	206	206	02:00	4.37	4.27	178	-0.1
RAPS-C(2 * 220)	440	430	474	474	476	05:00	10.32	10.25	427	-0.07
Sub-Total	1,320	1,028	1,092	1,094	-	-	24.67	24.42	1,018	-0.25
NTPC										
ANTA GPS(1 * 153.2 + 3 * 88.71)	419	384.38	0	0	95	10:25	0.43	0.21	9	-0.22
AURAIYA GPS(2 * 109.3 + 4 * 111.19)	663	635.56	0	0	31	08:00	0.19	0.09	4	-0.1
DADRI GPS(2 * 154.51 + 4 * 130.19)	830	387.71	383	234	383	19:00	7.34	7.42	309	0.08
DADRI SOLAR(1 * 5)	5	0.79	0	0	3	12:10	0.02	0.01	0	-0.01
DADRI-I TPS(4 * 210)	840	768.6	377	214	377	19:00	7.6	7.37	307	-0.23
DADRI-II TPS(2 * 490)	980	928.55	940	551	940	19:00	18.51	19.26	803	0.75
ISTPP (JHAJJAR)(3 * 500)	1,500	1,421.25	1,450	835	1,531	20:31	28.02	28.08	1,170	0.06
KOLDAM HPS(4 * 200)	800	872	594	0	635	18:00	2.61	2.76	115	0.15
RIHAND-I STPS(2 * 500)	1,000	461.25	508	505	508	19:00	10.98	10.81	450	-0.17
RIHAND-II STPS(2 * 500)	1,000	701.97	501	1,013	501	19:00	16.75	16.72	697	-0.03
RIHAND-III STPS(2 * 500)	1,000	942.5	1,028	993	1,028	19:00	22.41	22.96	957	0.55
SINGRAULI STPS(2 * 500 + 5 * 200)	2,000	1,862.5	2,020	2,014	2,020	19:00	44.66	44.86	1,869	0.2
SINGRAULI SOLAR(1 * 15)	15	2.42	0	0	0	-	0.06	0.06	3	0
UNCHAHAH II TPS(2 * 210)	420	382.2	421	231	421	19:00	7.77	7.65	319	-0.12
UNCHAHAH III TPS(1 * 210)	210	191.1	207	115	207	19:00	3.88	3.75	156	-0.13
UNCHAHAH IV TPS(1 * 500)	500	0	0	0	0	-	0	-	-	0
UNCHAHAH SOLAR(1 * 10)	10	1.78	0	0	0	-	0.04	0.04	2	0
UNCHAHAH TPS(2 * 210)	420	382.2	412	241	412	19:00	7.86	7.77	324	-0.09
Sub-Total	12,612	10,326.76	8,841	6,946	-	-	179.13	179.82	7,494	0.69
SJVNL										
NATHPA-JHAKRI HPS(6 * 250)	1,500	752.2	819	0	819	19:00	7.2	7.36	307	0.16
RAMPUR HEP(6 * 68.67)	412	212.54	223	0	223	19:00	1.99	2.09	87	0.1
Sub-Total	1,912	964.74	1,042	0	-	-	9.19	9.45	394	0.26
THDC										
KOTESHWAR HPS(4 * 100)	400	106.88	274	91	274	19:00	2.56	2.63	110	0.07
TEHRI HPS(4 * 250)	1,000	1,064	1,014	0	1,016	07:00	7.5	7.69	320	0.19
Sub-Total	1,400	1,170.88	1,288	91	-	-	10.06	10.32	430	0.26
Total	24,534	16,649.4	16,630	9,374			269.86	271.8	11,328	1.94

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	95	0	104	08:00	0.51	0.53	22	0.02
BUDHIL HPS (IPP)(2 * 35)	70	0	0	0	35	18:00	0.24	0.24	10	0
KARCHAM WANGTOO HPS(4 * 250)	1,000	0	900	0	900	18:00	3.56	3.55	148	-0.01
MALANA2(2 * 50)	100	0	0	0	90	09:00	0.25	0.27	11	0.02
SAINJ HEP(2 * 50)	50	0	100	13	100	00:00	0.44	0.46	19	0.02
SHREE CEMENT (IPP) TPS(2 * 150)	300	0	147	115	148	08:00	3.28	3.23	135	-0.05
Sub-Total	1,712	0	1,242	128	-	-	8.28	8.28	345	0
Total	1,712	0	1,242	128	-	-	8.28	8.28	345	0

Summary Section					
	Inst. Capacity	PEAK	OFF-PEAK	Day Energy	Day AVG.
Total State Control Area Generation	54,626	23,357	17,414	535.82	22,326
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]		8,613	8,502	159.08	8,601
Total Regional Availability(Gross)	80,872	49,842	35,418	974.98	42,597

Total Hydro Generation					
	Inst. Capacity	PEAK	OFF-PEAK	Day Energy	Day AVG.
Regional Entities Hydro	12,814	8,386	1,347	75.37	3,140
State Control Area Hydro	6,125	2,191	1,433	43.04	1,793
Total Regional Hydro	18,939	10,577	2,780	118.41	4,933

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	439	618	37.02	1,542
Total Regional Renewable	9,244	439	618	37.13	1,547

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	30	25	-	31	0	0.63	-0.63
2	132KV-Karmnasa(PG)-Sahupuri(U ..	-	-	-	-	0.96	0	0.96
3	132KV-Rihand-Sonnagar(PG)	-	-	-	-	-	-	-
4	220KV-Pusauli(PG)-Sahupuri(UP)	110	76	128	0	2.51	0	2.51
5	400KV-Biharsharif(PG)-Balua(PG)	147	140	250	0	4.3	0	4.3
6	400KV-Biharsharif(PG)-Varanasi(P..	27	82	183	0	2.52	0	2.52
7	400KV-Fatehpur(UP)-Sasaram	-	-	-	-	-	-	-
8	400KV-Motihari(DMT)-Gorakhpur ..	236	318	440	0	7.46	0	7.46
9	400KV-Muzaffarpur(PG)-Gorakhp ..	218	304	586	0	9.24	0	9.24
10	400KV-Patna(PG)-Balua(PG)	658	721	823	0	17.14	0	17.14
11	400KV-Sasaram-Allahabad(PG)	-52	-18	43	52	0	0.17	-0.17
12	400KV-Sasaram-Varanasi(PG)	5	7	112	0	0.55	0	0.55
13	765KV-Fatehpur(PG)-Sasaram.	98	177	324	0	5.06	0	5.06
14	765KV-Gaya(PG)-Balua(PG)	183	119	247	0	4.26	0	4.26
15	765KV-Gaya(PG)-Varanasi(PG)	292	258	573	0	8.63	0	8.63
16	HVDC800KV-Alipurduar-Agra(PG)	-	-	-	-	-	-	-
Sub-Total EAST REGION		1,952	2,209	3,709	83	62.63	0.8	61.83
Import/Export between NORTH_EAST REGION and NORTH REGION								
1	HVDC800KV-BiswanathCharialli- ..	500	500	0	500	0	12.04	-12.04
Sub-Total NORTH_EAST REGION		500	500	0	500	0	12.04	-12.04
Import/Export between WEST REGION and NORTH REGION								
1	220KV-Auraiya(NT)-Malanpur(PG)	-5	-49	-	121	0	1.58	-1.58
2	220KV-Badod(MP)-Kota(PG)	-18	-39	63	66	0	0.15	-0.15
3	220KV-Badod(MP)-Modak(RJ)	-	-	-	-	-	-	-
4	400KV-RAPS C(NP)-Sujalpur	-80	-70	127	180	0	1.72	-1.72
5	400KV-Vindhyachal(PG)-Rihand(N ..	981	973	-	981	0	22.96	-22.96
6	400KV-Zerda(PG)-Bhinmal(PG)	117	-25	369	77	3.11	0	3.11
7	400KV-Zerda(PG)-Kankroli(RJ)	-20	-136	173	136	0	0.09	-0.09
8	765KV-0rai-Gwalior(PG)	-386	-542	0	832	0	9.81	-9.81
9	765KV-0rai-Jabalpur	177	240	550	0	7.91	0	7.91
10	765KV-0rai-Satna	1,455	1,422	1,608	0	37.79	0	37.79
11	765KV-Gwalior(PG)-Agra(PG)	1,659	1,653	2,160	0	39.26	0	39.26
12	765KV-Phagi(RJ)-Gwalior(PG)	631	916	1,364	-	21.36	0	21.36
13	HVDC500KV-Mundra(JH)-Mohind..	1,000	1,000	1,004	0	24.28	0	24.28
14	HVDC500KV-Vindhyachal(PG)-Vindhaychal B/B	-50	-250	0	250	0	4.25	-4.25
15	HVDC800KV-Champa(PG)-Kuruku..	700	700	700	0	16.14	0	16.14
Sub-Total WEST REGION		6,161	5,793	8,118	2,643	149.85	40.56	109.29
TOTAL IR EXCHANGE		8,613	8,502	11,827	3,226	212.48	53.4	159.08

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	48.98	-16.1	2.36	35.24	61.83	26.59

NR-WR	154.52	-33.23	3.92	125.21	109.29	-15.92
Total	203.5	-49.33	6.28	160.45	159.08	-1.37

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)	25.57	8.718		26		0.4968	-0.4968

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	9.9	60.1	80.5	8.2	1.3	.1	9.6

<-----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)
50.22	13:03:10	49.81	17:54:10	49.98	0.038	0.058	50.1	49.87	19.5

6. Voltage Profile: 400kV

Maximum		Minimum		Voltage (in %)				Voltage Deviation Index	
STATION	VOLTAGE	TIME	VOLTAGE	TIME	N/A	N/A	N/A	N/A	
									(% of time)

6.1 Voltage Profile: 765kV

Maximum		Minimum		Voltage (in %)				Voltage Deviation Index	
STATION	VOLTAGE	TIME	VOLTAGE	TIME	N/A	N/A	N/A	N/A	
									(% of time)

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	-1,685.71	395.88	0	-1,685.71	-303.12	0	62.04	-40.46	3.44	25.03
HARYANA	-1,042.06	169.33	0	-936.75	-106.88	0	93.55	-26.9	1.52	68.17
RAJASTHAN	-106.83	89.99	0	-106.83	0	0	62.36	2.02	5.28	69.65
DELHI	-768.75	-652.72	0	-620.04	-526.42	0	77.19	-18.25	-6.88	52.05
UTTAR PRADESH	116.85	0	0	113.54	0	0	111.16	-4.34	0.3	107.12
UTTARAKHAND	628.84	-23.68	0	531.12	87.07	0	9.87	13.63	1.96	25.46
HIMACHAL PRADESH	445.78	-8.57	0	266.82	-37.77	0	13.1	11.26	-2.18	22.18
JAMMU & KASHMIR	611	98.97	0	611	481.51	0	23.74	14.66	4.23	42.64
CHANDIGARH	0	-15.16	0	0	0	0	3.65	0	-0.43	3.22
TOTAL	-1,800.88	54.04	0	-1,826.85	-405.61	0	456.66	-48.38	7.24	415.52

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	3,420.26	2,249.24	-1,685.71	-1,685.71	692.79	-303.12	0	0
HARYANA	5,072.6	2,883.53	-890.55	-1,526.49	178.76	-311.45	0	0
RAJASTHAN	3,648.68	1,897.03	741.66	-106.83	2,030.72	-643.81	0	0
DELHI	3,952.13	2,369.39	-589.34	-901.25	411.72	-759.83	0	0
UTTAR PRADESH	6,027.33	3,692.33	116.85	-796.63	62.54	-165.95	0	0
UTTARAKHAND	787	221.3	628.84	531.12	364.5	-147.15	0	0
HIMACHAL PRADESH	1,164	240.31	646.95	266.82	330.82	-596.3	0	0
JAMMU & KASHMIR	1,446.08	729.1	611	611	531	-252.6	0	0
CHANDIGARH	267.89	103.49	0	0	24.49	-90.94	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	506.11	1,353	500.82	1,127	182.76	469.29
Chamera-I	748.75	760	-	-	-	-	-	0
Gandhisagar	295.78	295.78	-	-	-	-	-	0
Jawahar Sagar	295.78	298.7	-	-	-	-	-	0
Koteshwar	598.5	612.5	610.47	5	610.46	5	174	173.68
Pong	384.05	426.72	416.54	743	411.49	545	72.35	429.45
RPS	343.81	352.8	-	-	-	-	-	0
RSD	487.91	527.91	517.67	4	506.3	4	70.71	176.53
Rihand	252.98	268.22	261.18	371	261.49	389	0	13,908.59
Tehri	740.04	829.79	816.23	927	813.6	874	49.97	174
TOTAL	-	-	-	3,403	-	2,944	549.79	15,331.54

9. System Reliability Indices(Violation of TTC and ATC):

(i)%age of times N-1 Criteria was violated in the inter - regional corridors

ii)%age of times ATC violated on the inter-regional corridors

iii)%age of times Angular Difference on Important Buses was beyond permissible limits(40 deg.)

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