



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

Power Supply Position in Northern Region For 02-Jan-2019

Date of Reporting:03-Jan-2019

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
45,781	704	46,485	49.92	30,218	277	30,495	50.02	945	16.72

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	62.61	11.29	0	3.8	0	1.02	78.72	30.02	29.24	-0.78	107.96	0	107.96
HARYANA	63.38	0.43	3.91	0.1	0	0.89	68.71	56.04	56.76	0.72	127.68	2.21	125.47
RAJASTHAN	151.77	3.26	1.46	12.58	7	3.19	179.27	61.19	60.5	-0.69	239.77	0	239.77
DELHI	-0.02	0	17.32	0	0	1.13	18.44	51.52	50.58	-0.94	69.02	0	69.02
UTTAR PRADESH	136.75	7.42	0	2.51	0	21.6	168.27	117.19	116.91	-0.28	288.88	3.7	285.18
UTTARAKHAND	0	8.71	4.92	0.46	0	0.83	14.93	23.27	23.28	0.01	38.37	0.16	38.21
HIMACHAL PRADESH	0	3.58	0	0	0	2.01	5.59	24.73	25.05	0.32	30.64	0	30.64
JAMMU & KASHMIR	0	4.75	0	0	0	0	4.75	45.65	40.06	-5.59	55.46	10.65	44.81
CHANDIGARH	0	0	0	0	0	0	0	3.41	3.77	0.36	3.77	0	3.77
Region	414.49	39.44	27.61	19.45	7	30.67	538.68	413.02	406.15	-6.87	961.55	16.72	944.83

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	5,597	0	-8	-1,453	3,128	0	-28	-1,404
HARYANA	6,642	0	114	-812	3,964	0	20	-807
RAJASTHAN	10,374	0	86	-983	7,891	0	-49	56
DELHI	3,507	0	30	-799	1,558	0	5	-1,301
UTTAR PRADESH	13,929	100	-114	95	9,986	0	-163	26
UTTARAKHAND	1,911	80	78	487	1,232	0	5	464
HIMACHAL PRADESH	1,528	0	118	721	805	0	-105	566
JAMMU & KASHMIR	2,097	524	-232	1,155	1,571	277	-267	710
CHANDIGARH	196	0	12	0	84	0	-6	-15
Region	45,781	704	84	-1,589	30,219	277	-588	-1,705

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	5,597	19:00	0	5,597	5,597	19:00	0	5,597	3,128	3:00
HARYANA	6,642	19:00	0	6,642	6,642	19:00	0	6,642	3,964	3:00
RAJASTHAN	12,757	10:00	0	12,757	12,757	10:00	0	12,757	7,168	5:00
DELHI	4,183	11:00	0	4,183	4,183	11:00	0	4,183	1,493	4:00
UP	13,929	19:00	100	14,029	14,029	19:00	100	13,929	9,986	3:00
UTTARAKHAND	2,088	9:00	0	2,088	2,088	9:00	0	2,088	1,220	2:00
HP	1,680	11:00	0	1,680	1,680	11:00	0	1,680	774	4:00
J&K	2,250	20:00	563	2,813	2,813	20:00	563	2,250	1,552	4:00
CHANDIGARH	238	9:00	0	238	238	9:00	0	238	84	3:00
NR	45,781	19:00	704	46,485	46,485	19:00	704	45,781	30,051	4:00

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		-0.02	-1
RAJGHAT TPS( 2 * 67.5 )	135	0	0	0			
Total THERMAL	840	0	0			-0.02	-1
BAWANA GPS( 2 * 253 + 4 * 216 )	1,370	480	453	0		11.22	468
DELHI GAS TURBINES( 3 * 34 + 6 * 30 )	282	107	41	0		2.17	90
PRAGATI GAS TURBINES( 1 * 121.2 + 2 * 104.6 )	331	161	164	0		3.94	164
RITHALA GPS( 3 * 36 )	108	0	0	0			
Total GAS/NAPTHA/DIESEL	2,091	748	658			17.33	722
WIND	0	0	0	0			
BIOMASS( 1 * 16 )	16	44	39	0		1.13	47
SOLAR( 1 * 2 )	2	0	0	0			
Total DELHI	2,949	792	697			18.44	768

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	552	489	0		12.15	506
JHAJJAR(CLP)( 2 * 660 )	1,320	1,118	739	0		22.52	938
MAGNUM DIESEL (IPP)( 4 * 6.3 )	25	0	0	0			
PANIPAT TPS( 2 * 210 + 2 * 250 )	920	808	762	0		18.57	774
RGTPP( KHEDAR)( 2 * 600 )	1,200	432	382	0		10.15	423
Total THERMAL	4,065	2,910	2,372			63.39	2,641
FARIDABAD GPS( 1 * 156.07 + 2 * 137.75 )	432	158	166	0		3.91	163
Total GAS/NAPTHA/DIESEL	432	158	166			3.91	163
TOTAL HYDRO HARYANA( 1 * 62 )	62	10	12	0		0.43	18
Total HYDEL	62	10	12			0.43	18
WIND	0	0	0	0			
BIOMASS( 1 * 106 )	106	0	0	0		0.89	37
SOLAR( 1 * 50 )	50	0	0	0		0.1	4
Total HARYANA	4,715	3,078	2,550			68.72	2,863

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	30	0	214	08:00	1.21	50
MALANA (IPP) HPS( 2 * 43 )	86	40	0	47	09:00	0.25	10
OTHER HYDRO HP( 1 * 372 )	372	104	40	110	19:00	2.12	88
Total HYDEL	758	174	40			3.58	148
WIND	0	0	0	0			
BIOMASS	0	0	0	0			
SOLAR	0	0	0	0			
SMALL HYDRO( 1 * 486 )	486	147	49	150	19:00	2.01	84
Total SMALL HYDRO	486	147	49			2.01	84
Total HP	1,244	321	89			5.59	232

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	138	137	0		3.29	137
OTHER HYDRO/IPP J&K( 1 * 308 )	308	96	39	0		1.46	61
Total HYDEL	1,208	234	176			4.75	198
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	234	176			4.75	198

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	290	290	458		7.71	321
GURU GOBIND SINGH TPS (ROPAR)( 6 * 210 )	1,260	0	0	0		-0.11	-5
GURU HARGOBIND SINGH TPS (LEHRA MOHABBAT)( 2 * 210 + 2 * 250 )	920	0	0	0		-0.12	-5
GURU NANAK DEV TPS (BHATINDA)( 4 * 110 )	460	0	0	0		-0.01	0
RAJPURA(NPL) TPS( 2 * 700 )	1,400	1,320	660	1,320		24.3	1,013
TALWANDI SABO TPS( 3 * 660 )	1,980	1,630	924	1,841		30.85	1,285
Total THERMAL	6,560	3,240	1,874			62.62	2,609
TOTAL HYDRO PUNJAB( 1 * 1000 )	1,000	430	417	469		11.29	470
Total HYDEL	1,000	430	417			11.29	470
WIND	0	0	0	0			
BIOMASS( 1 * 303 )	303	0	0	0		1.02	43
SOLAR( 1 * 859 )	859	0	0	370		3.8	158
Total PUNJAB	8,722	3,670	2,291			78.73	3,280

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	106	110	0		2.43	101
CHHABRA TPS( 1 * 660 + 4 * 250 )	1,660	1,551	1,587	0		37.13	1,547
GIRAL (IPP) LTPS( 2 * 125 )	250	0	0	0			
KALISINDH TPS( 2 * 600 )	1,200	1,137	792	0		24.24	1,010
KAWAI TPS( 2 * 660 )	1,320	1,225	864	0		26	1,083
KOTA TPS( 2 * 110 + 2 * 195 + 3 * 210 )	1,240	1,061	854	0		22.23	926
RAJWEST (IPP) LTPS( 8 * 135 )	1,080	808	506	0		18.83	785
SURATGARH TPS ( 6 * 250 )	1,500	907	220	0		19.54	814
VSLPP (IPP)( 1 * 135 )	135	58	58	0		1.37	57
Total THERMAL	8,635	6,853	4,991			151.77	6,323
DHOLPUR GPS( 3 * 110 )	330	0	0	0			
RAMGARH GPS( 1 * 110 + 1 * 35.5 + 1 * 50 + 2 * 37.5 )	271	59	58	0		1.46	61
Total GAS/NAPTHA/DIESEL	601	59	58			1.46	61
RAPS-A( 1 * 100 + 1 * 200 )	300	128	127	0		2.92	122
Total NUCLEAR	300	128	127			2.92	122
TOTAL HYDRO RAJASTHAN( 1 * 550 )	550	122	106	0		3.26	136
Total HYDEL	550	122	106			3.26	136
WIND	4,292	253	202	0		7	292
BIOMASS( 1 * 102 )	102	11	11	0		0.27	11
SOLAR( 1 * 1995 )	1,995	0	0	0		12.58	524
Total RAJASTHAN	16,475	7,426	5,495			179.26	7,469

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	702	1,244	0		17.17	715
ANPARA-C TPS( 2 * 600 )	1,200	1,078	578	0		22.15	923
ANPARA-D TPS( 2 * 500 )	1,000	938	944	0		21.07	878
BAJAJ ENERGY PVT LTD (IPP) TPS( 10 * 45 )	450	0	0	0			
BARA PPGCL TPS( 3 * 660 )	1,980	1,336	671	0		22.39	933
HARDUAGANJ TPS( 1 * 105 + 1 * 60 + 2 * 250 )	665	445	249	0		9.31	388
LALITPUR TPS( 3 * 660 )	1,980	617	345	0		12.71	530
MEJA TPS( 1 * 660 )	660	0	0	0			
OBRA TPS ( 2 * 94 + 5 * 200 )	1,188	526	293	0		11.26	469
PANKI TPS( 2 * 105 )	210	0	0	0			
PARICHA TPS( 2 * 110 + 2 * 210 + 2 * 250 )	1,160	592	339	0		12.52	522
ROSA TPS( 4 * 300 )	1,200	0	0	0			
TANDA TPS( 4 * 110 )	440	388	220	0		8.18	341
Total THERMAL	13,763	6,622	4,883			136.76	5,699
ALAKHANDA HEP( 4 * 82.5 )	330	83	82	0		1.31	55
VISHNUPARYAG HPS( 4 * 110 )	440	78	73	0		1.86	78
OTHER HYDRO UP( 1 * 527 )	527	150	155	0		4.25	177
Total HYDEL	1,297	311	310			7.42	310
WIND	0	0	0	0			
BIOMASS( 1 * 26 )	26	0	0	0			
SOLAR( 1 * 472 )	472	0	0	0		2.51	105
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	7,833	6,093			168.29	7,014

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	204	198	210	08:00	4.92	205
Total GAS/NAPTHA/DIESEL	450	204	198			4.92	205
OTHER HYDRO UK( 1 * 1250 )	1,250	570	448	631	20:00	8.71	363
Total HYDEL	1,250	570	448			8.71	363
WIND	0	0	0	0			
BIOMASS( 1 * 127 )	127	34	37	37	02:00	0.83	35
SOLAR( 1 * 100 )	100	0	0	80	12:00	0.46	19
SMALL HYDRO( 1 * 180 )	180	0	0	0			
Total SMALL HYDRO	180	0	0			0	0
Total UTTARAKHAND	2,107	808	683			14.92	622

### 3(B) Regional Entities Generation

Station/Constituents	Inst. Capacity	Declared Capacity	19:00	03:00	Day Peak		Day Energy		AVG. MW	UI
	(MW)		Peak MW	Off Peak MW	(MW)	Hrs	SCHD (MU)	ACT (MU)		
BBMB										
BHAKRA HPS( 2 * 108 + 3 * 126 + 5 * 157 )	1,379	685.77	1,091	543	1,091	19:00	16.46	16.4	683	-0.06
DEHAR HPS( 6 * 165 )	990	130.73	495	0	495	19:00	3.14	3.23	135	0.09
PONG HPS( 6 * 66 )	396	243.75	264	198	264	19:00	5.85	5.83	243	-0.02
Sub-Total	2,765	1,060.25	1,850	741	-	-	25.45	25.46	1,061	0.01
NHPC										
BAIRASIUL HPS( 3 * 60 )	180	0	0	0	0	-	0	-	-	0
CHAMERA HPS( 3 * 180 )	540	535.58	357	0	546	18:15	1.8	1.86	78	0.06
CHAMERA II HPS( 3 * 100 )	300	166.45	99	30	202	08:00	1.36	1.46	61	0.1
CHAMERA III HPS( 3 * 77 )	231	153	150	0	150	19:00	0.68	0.71	30	0.03
DHAULIGANGA HPS( 4 * 70 )	280	281.38	282	0	283	07:00	1.03	1.09	45	0.06
DULHASTI HPS( 3 * 130 )	390	180	0	123	386	06:00	2.8	2.84	118	0.04
KISHANGANGA( 2 * 110 )	220	29.44	218	0	218	06:00	0.71	0.71	30	0
PARBATI III HEP( 4 * 130 )	520	0	0	0	0	-	0	-	-	0
SALAL HPS( 6 * 115 )	690	111.25	348	30	348	19:00	2.67	2.82	118	0.15
SEWA-II HPS( 3 * 40 )	120	120.2	40	0	124	07:00	0.39	0.39	16	0
TANAKPUR HPS( 1 * 31.42 + 2 * 31.4 )	94	26.54	26	61	65	11:00	0.64	0.63	26	-0.01
URI HPS( 4 * 120 )	480	118.54	339	35	342	09:00	2.84	2.94	123	0.1
URI-II HPS( 4 * 60 )	480	72.43	40	78	182	20:00	1.74	1.76	73	0.02
Sub-Total	4,525	1,794.81	1,899	357	-	-	16.66	17.21	718	0.55
NPCL										
NAPS( 2 * 220 )	440	204	222	228	228	01:00	4.9	4.87	203	-0.03
RAPS-B( 2 * 220 )	440	384	427	427	428	02:00	9.22	9.21	384	-0.01
RAPS-C( 2 * 220 )	440	429	475	476	476	01:00	10.3	10.24	427	-0.06
Sub-Total	1,320	1,017	1,124	1,131	-	-	24.42	24.32	1,014	-0.1
NTPC										
ANTA GPS( 1 * 153.2 + 3 * 88.71 )	419	418.17	0	0	0	-	0	-	-	0
AURAIYA GPS( 2 * 109.3 + 4 * 111.19 )	663	646.59	0	0	0	-	0	-	-	0
DADRI GPS( 2 * 154.51 + 4 * 130.19 )	830	408.96	229	225	418	-	6.76	6.65	277	-0.11
DADRI SOLAR( 1 * 5 )	5	0.65	0	0	3	12:17	0.02	0.01	0	-0.01
DADRI-I TPS( 4 * 210 )	840	576.45	570	314	570	19:00	11.22	11.05	460	-0.17
DADRI-II TPS( 2 * 490 )	980	928.55	930	533	930	19:00	18.29	18.88	787	0.59
ISTPP (JHAJJAR)( 3 * 500 )	1,500	947.5	980	580	1,030	10:25	19.51	19.37	807	-0.14
KOLDAM HPS( 4 * 200 )	800	872	389	0	811	18:00	2.62	2.62	109	0
RIHAND-I STPS( 2 * 500 )	1,000	922.5	980	903	980	19:00	21.76	21.91	913	0.15
RIHAND-II STPS( 2 * 500 )	1,000	878.93	981	946	981	19:00	20.85	20.36	848	-0.49
RIHAND-III STPS( 2 * 500 )	1,000	942.5	998	765	998	19:00	21.47	21.9	913	0.43
SINGRAULI STPS( 2 * 500 + 5 * 200 )	2,000	1,385	1,528	1,383	1,532	10:00	32.62	32.62	1,359	0
SINGRAULI SOLAR( 1 * 15 )	15	2.45	0	0	0	-	0.06	0.06	3	0
UNCHAHAH II TPS( 2 * 210 )	420	318.11	291	234	291	19:00	6.36	6.23	260	-0.13
UNCHAHAH III TPS( 1 * 210 )	210	191.1	210	116	210	19:00	3.86	3.8	158	-0.06
UNCHAHAH IV TPS( 1 * 500 )	500	471.25	460	287	460	19:00	9.45	9.2	383	-0.25
UNCHAHAH SOLAR( 1 * 10 )	10	1.65	0	0	0	-	0.04	0.03	1	-0.01
UNCHAHAH TPS( 2 * 210 )	420	382.2	417	242	417	19:00	7.78	7.66	319	-0.12
Sub-Total	12,612	10,294.56	8,963	6,528	-	-	182.67	182.35	7,597	-0.32
SJVN										
NATHPA-JHAKRI HPS( 6 * 250 )	1,500	1,249.38	1,225	0	1,325	07:00	7	7.15	298	0.15
RAMPUR HEP( 6 * 68.67 )	412	344.38	301	0	370	18:00	1.95	2.04	85	0.09
Sub-Total	1,912	1,593.76	1,526	0	-	-	8.95	9.19	383	0.24
THDC										
KOTESHWAR HPS( 4 * 100 )	400	150.31	401	0	402	18:00	3.18	3.2	133	0.02
TEHRI HPS( 4 * 250 )	1,000	1,064	992	0	1,020	17:00	9.33	9.43	393	0.1
Sub-Total	1,400	1,214.31	1,393	0	-	-	12.51	12.63	526	0.12
Total	24,534	16,974.69	16,755	8,757			270.66	271.16	11,299	0.5

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	79	0	96	10:00	0.44	0.46	19	0.02
BUDHIL HPS (IPP)( 2 * 35 )	70	0	0	0	35	12:00	0.24	0.21	9	-0.03
KARCHAM WANGTOO HPS( 4 * 250 )	1,000	0	825	0	825	19:00	3.79	3.87	161	0.08
MALANA2( 2 * 50 )	100	0	0	0	84	10:00	0.24	0.25	10	0.01
SAINJ HEP( 2 * 50 )	50	0	100	0	100	-	0.38	0.39	16	0.01
SHREE CEMENT (IPP) TPS( 2 * 150 )	300	0	144	70	145	21:00	2.92	2.9	121	-0.02
Sub-Total	1,712	0	1,148	70	-	-	8.01	8.08	336	0.07
Total	1,712	0	1,148	70			8.01	8.08	336	0.07

Summary Section					
	Inst. Capacity	PEAK	OFF-PEAK	Day Energy	Day AVG.
Total State Control Area Generation	54,626	24,162	18,074	538.7	22,446
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]		6,943	6,048	158.27	9,104
Total Regional Availability(Gross)	80,872	49,008	32,949	976.21	43,185

Total Hydro Generation					
	Inst. Capacity	PEAK	OFF-PEAK	Day Energy	Day AVG.
Regional Entities Hydro	12,814	8,061	1,098	72.29	3,012
State Control Area Hydro	6,125	1,851	1,509	39.44	1,643
Total Regional Hydro	18,939	9,912	2,607	111.73	4,655

Total Renewable Generation					
	Inst. Capacity	PEAK	OFF-PEAK	Day Energy	Day AVG.
Regional Entities Renewable	30	0	0	0.1	4
State Control Area Renewable	9,214	489	338	32.6	1,358
Total Regional Renewable	9,244	489	338	32.7	1,362

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 ..	-	-	-	-	0.48	0	0.48
3	132KV-Rihand-Sonnagar(PG)	12	31	-	34	0	0.65	-0.65
4	220KV-Pusauli(PG)-Sahupuri(UP)	120	80	126	0	2.42	0	2.42
5	400KV-Biharsharif(PG)-Baliala(PG)	398	240	595	0	9.89	0	9.89
6	400KV-Biharsharif(PG)-Varanasi(P..	16	50	216	50	1.72	0	1.72
7	400KV-Fatehpur(UP)-Sasaram	-	-	-	-	-	-	-
8	400KV-Motihari(DMT)-Gorakhpur ..	238	226	338	0	5.63	0	5.63
9	400KV-Muzaffarpur(PG)-Gorakhp ..	344	80	472	0	7.01	0	7.01
10	400KV-Patna(PG)-Baliala(PG)	921	725	1,180	0	23.37	0	23.37
11	400KV-Sasaram-Allahabad(PG)	84	30	52	0	0.48	0	0.48
12	400KV-Sasaram-Varanasi(PG)	112	113	151	0	2.82	0	2.82
13	765KV-Fatehpur(PG)-Sasaram.	-49	-35	139	68	0.8	0	0.8
14	765KV-Gaya(PG)-Baliala(PG)	385	277	545	0	9.39	0	9.39
15	765KV-Gaya(PG)-Varanasi(PG)	218	117	547	0	7.53	0	7.53
16	HVDC800KV-Alipurduar-Agra(PG)	-	-	-	-	-	-	-
Sub-Total EAST REGION		2,799	1,934	4,361	152	71.54	0.65	70.89
Import/Export between NORTH_EAST REGION and NORTH REGION								
1	HVDC800KV-BiswanathCharialli- ..	500	500	0	500	0	12.1	-12.1
Sub-Total NORTH_EAST REGION		500	500	0	500	0	12.1	-12.1
Import/Export between WEST REGION and NORTH REGION								
1	220KV-Auraiya(NT)-Malanpur(PG)	-33	-37	-	39	0	0.62	-0.62
2	220KV-Badod(MP)-Kota(PG)	28	-16	132	65	0.78	0	0.78
3	220KV-Badod(MP)-Modak(RJ)	-	-	-	-	-	-	-
4	400KV-RAPS C(NP)-Sujalpur	-256	-193	344	0	0	2.6	-2.6
5	400KV-Vindhyachal(PG)-Rihand(N ..	-947	-724	-	974	0	21.9	-21.9
6	400KV-Zerda(PG)-Bhinmal(PG)	40	12	280	80	2.58	0	2.58
7	400KV-Zerda(PG)-Kankroli(RJ)	-85	-141	161	141	0	0.81	-0.81
8	765KV-0rai-Gwalior(PG)	-377	-328	0	551	0	9.57	-9.57
9	765KV-0rai-Jabalpur	703	815	1,255	0	21.79	0	21.79
10	765KV-0rai-Satna	1,031	991	1,181	0	25.93	0	25.93
11	765KV-Gwalior(PG)-Agra(PG)	1,903	1,481	2,048	0	39.45	0	39.45
12	765KV-Phagi(RJ)-Gwalior(PG)	85	353	289	-	8.47	0	8.47
13	HVDC500KV-Mundra(JH)-Mohind..	1,202	801	1,205	0	25.73	0	25.73
14	HVDC500KV-Vindhyachal(PG)-Vindhaychal B/B	-250	0	0	250	0	3.25	-3.25
15	HVDC800KV-Champa(PG)-Kuruku..	600	600	600	0	13.5	0	13.5
Sub-Total WEST REGION		3,644	3,614	7,495	2,100	138.23	38.75	99.48
TOTAL IR EXCHANGE		6,943	6,048	11,856	2,752	209.77	51.5	158.27

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	50.83	-16.16	7.28	41.95	70.89	28.94

NR-WR	142.02	-21.73	-6.97	113.32	99.48	-13.84
Total	192.85	-37.89	0.31	155.27	158.27	3

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)	-27.7	-30.05		31		0.6759	-0.6759

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	.2	15.8	73.4	78	5.1	.6	0	5.7

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

Maximum		Minimum		Average	Freq Variation	Standard	Freq. in 15 mnt blk		Freq Dev Index
Frequency	Time	Frequency	Time				Max.	Min.	
50.13	12:03:40	49.78	21:10:50	49.96	0.05	0.058	50.07	49.85	22

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	429	02:55	414	08:40	0	0	64.58	0	64.58
Amritsar(PG) - 400KV	427	04:00	412	07:45	0	0	52.08	0	52.08
Ballabgarh(PG) - 400KV	426	04:00	408	10:20	0	0	28.13	0	28.13
Bareilly II(PG) - 400KV	421	03:15	403	08:35	0	0	3.47	0	3.47
Bareilly(UP) - 400KV	422	04:00	404	08:35	0	0	11.46	0	11.46
Baspa(HP) - 400KV	434	04:05	416	07:25	0	0	71.18	13.89	71.18
Bassi(PG) - 400KV	421	04:00	385	08:35	0	6.6	.35	0	.35
Bawana(DTL) - 400KV	429	04:00	413	10:20	0	0	66.67	0	66.67
Dadri HVDC(PG). - 400KV	428	04:00	428	04:00	1.04	1.04	49.31	0	50.35
Gorakhpur(PG) - 400KV	420	04:00	404	17:55	0	0	0	0	0
Hisar(PG) - 400KV	425	04:00	409	08:40	0	0	31.94	0	31.94
Kanpur(PG) - 400KV	424	04:00	410	08:35	0	0	28.13	0	28.13
Kashipur(UT) - 400KV	402	00:00	402	00:00	0	0	0	0	0
Kishenpur(PG) - 400KV	421	04:00	408	11:50	0	0	8.68	0	8.68
Moga(PG) - 400KV	418	23:55	399	10:15	0	0	0	0	0
Nallagarh(PG) - 400KV	434	04:05	416	07:25	0	0	71.18	13.89	71.18
Rihand HVDC(PG) - 400KV	408	03:35	408	03:35	7.99	7.99	0	0	7.99
Rihand(NT) - 400KV	407	04:00	401	17:50	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	793	04:05	764	08:30	0	0	0	0	0
Balia(PG) - 765KV	788	04:00	764	08:20	0	0	0	0	0
Bareilly II(PG) - 765KV	802	04:00	769	08:35	0	0	7.99	0	7.99
Bhiwani(PG) - 765KV	803	17:00	774	08:35	0	0	13.54	0	13.54
Fatehpur(PG) - 765KV	790	17:00	754	08:35	0	0	0	0	0
Jhatikara(PG) - 765KV	805	04:00	773	08:40	0	0	10.76	0	10.76
Lucknow II(PG) - 765KV	799	04:00	768	08:35	0	0	0	0	0
Meerut(PG) - 765KV	804	17:00	774	06:10	0	0	9.38	0	9.38
Moga(PG) - 765KV	795	17:00	768	20:20	0	0	0	0	0
Phagi(RJ) - 765KV	799	03:10	766	09:50	0	0	0	0	0
Unnao(UP) - 765KV	780	04:00	732	08:35	0	.69	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	-1,453.07	49.42	0	-1,453.07	0	0	65.45	-34.96	-0.48	30.02
HARYANA	-943.57	136.14	0	-966.4	154.77	0	78.61	-24.75	2.18	56.04
RAJASTHAN	-52.92	109.32	0	-52.92	-930.3	0	61.2	-0.13	0.11	61.19
DELHI	-706.35	-594.96	0	-558	-240.82	0	70.97	-16.2	-3.26	51.52
UTTAR PRADESH	25.94	0	0	66.74	28.3	0	120.89	-3.71	0	117.19
UTTARAKHAND	571.44	-107.56	0	439.71	47.15	0	11.41	11.64	0.22	23.27
HIMACHAL PRADESH	564.57	1.58	0	385.85	334.87	0	11.53	14.46	-1.26	24.73
JAMMU & KASHMIR	611.51	98.83	0	611.51	543.56	0	25.78	14.68	5.2	45.65
CHANDIGARH	0	-15.18	0	0	0	0	3.84	0	-0.43	3.41
TOTAL	-1,382.45	-322.41	0	-1,526.58	-62.47	0	449.68	-38.97	2.28	413.02

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	3,596.15	2,273.2	-1,453.07	-1,782.93	197.66	-404.74	0	0
HARYANA	4,346.66	2,150.78	-756.53	-1,276.86	159.58	-507.95	0	0
RAJASTHAN	3,845.47	1,420.59	237.57	-222.29	1,106.68	-1,539.81	0	0
DELHI	3,693.02	2,070.11	-406.12	-823.72	722.43	-715.37	0	0
UTTAR PRADESH	6,459.48	3,743.44	456.08	-754.67	72.21	-606.87	0	0
UTTARAKHAND	828.38	245.59	571.44	439.71	248.44	-231.55	0	0
HIMACHAL PRADESH	1,219.16	112.69	847.82	385.56	334.87	-718.49	0	0
JAMMU & KASHMIR	1,690.15	737.2	611.51	611.51	543.56	-144.9	0	0
CHANDIGARH	278.47	102.66	0	0	19.57	-91.07	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	504.29	1,272	498.36	1,030	165.68	438.97
Chamera-I	748.75	760	755.35	-	-	-	54.51	50.11
Gandhisagar	295.78	295.78	-	-	-	-	-	0
Jawahar Sagar	295.78	298.7	-	-	-	-	-	0
Koteshwar	598.5	612.5	611.23	5	610.21	5	217	210.89
Pong	384.05	426.72	415.1	681	409.75	484	59.69	357.27
RPS	343.81	352.8	-	-	-	-	-	0
RSD	487.91	527.91	516.25	3	503.85	3	62.45	133.3
Rihand	252.98	268.22	260.73	245	261.06	364	0	11,693.72
Tehri	740.04	829.79	812.16	845	808.6	775	49.17	217
TOTAL	-	-	-	3,051	-	2,661	608.5	13,101.26

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	11	45
DELHI	8	27
HARYANA	1	7
HIMACHAL PRADESH	5	13
JAMMU & KASHMIR	5	14
PUNJAB	3	11
RAJASTHAN	3	12
UTTAR PRADESH	0	6
UTTARAKHAND	7	18

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 :

500 MVA ICT-I at Azamgarh first time charged at 13:36 hrs on no load
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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