



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

Power Supply Position in Northern Region For 25-Nov-2018

Date of Reporting:26-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
39,396	481	39,877	49.98	31,155	270	31,425	50.03	870	9.64

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	70.06	9.2	0	2.8	0	7.99	90.05	26.4	26.1	-0.3	116.15	0	116.15
HARYANA	46	0.51	0	0.14	0	0.83	47.47	59.27	60.9	1.63	108.37	0	108.37
RAJASTHAN	129.36	2.95	1.82	13.87	1.9	4.45	154.35	68.1	71.18	3.08	225.53	0	225.53
DELHI	0	0	15.09	0	0	0.97	16.06	42.98	42.22	-0.76	58.29	0.01	58.28
UTTAR PRADESH	124.4	5.6	0	2.7	0	16.8	149.5	109.09	109.78	0.69	259.28	0	259.28
UTTARAKHAND	0	8.45	2.41	0.58	0	0	11.44	21.16	21.4	0.24	32.84	0	32.84
HIMACHAL PRADESH	0	4.89	0	0	0	3.57	8.46	17.02	17.28	0.26	25.74	0	25.74
JAMMU & KASHMIR	0	8.15	0	0	0	0	8.15	37.71	32.75	-4.96	50.53	9.63	40.9
CHANDIGARH	0	0	0	0	0	0	0	2.55	2.85	0.3	2.85	0	2.85
Region	369.82	39.75	19.32	20.09	1.9	34.61	485.48	384.28	384.46	0.18	879.58	9.64	869.94

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	5,004	0	-18	-1,579	3,685	0	-27	-1,483
HARYANA	5,378	0	-21	-843	3,934	0	57	-702
RAJASTHAN	9,322	0	-15	-1,045	8,355	0	360	130
DELHI	2,920	0	-16	-1,283	1,552	0	-51	-1,579
UTTAR PRADESH	11,917	0	-430	64	10,015	0	-7	99
UTTARAKHAND	1,610	0	-55	195	1,178	0	-35	432
HIMACHAL PRADESH	1,229	15	-46	-105	830	0	-26	323
JAMMU & KASHMIR	1,864	466	-230	495	1,528	270	-182	642
CHANDIGARH	152	0	6	-56	78	0	7	-30
Region	39,396	481	-825	-4,157	31,155	270	96	-2,168

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	5,264	8:00	0	5,264	5,264	8:00	0	5,264	3,685	3:00
HARYANA	5,378	19:00	0	5,378	5,378	19:00	0	5,378	3,663	24:00
RAJASTHAN	11,396	10:00	0	11,396	11,396	10:00	0	11,396	7,731	22:00
DELHI	3,302	12:00	0	3,302	3,302	12:00	0	3,302	1,496	4:00
UP	12,408	20:00	0	12,408	12,408	20:00	0	12,408	10,003	4:00
UTTARAKHAND	1,765	8:00	0	1,765	1,765	8:00	0	1,765	1,075	24:00
HP	1,447	9:00	15	1,462	1,462	9:00	15	1,447	776	24:00
J&K	1,988	21:00	497	2,485	2,485	21:00	497	1,988	1,520	13:00
CHANDIGARH	168	9:00	0	168	168	9:00	0	168	78	3:00
NR	40,879	10:00	562	41,440	41,440	10:00	562	40,879	30,985	4:00

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	430	427	432		10.33	430
DELHI GAS TURBINES(3 * 34 + 6 * 30)	282	40	39	40.6		0.9	38
PRAGATI GAS TURBINES(1 * 121.2 + 2 * 104.6)	331	159	156	159.72		3.86	161
RITHALA GPS(3 * 36)	108	0	0	0			
Total GAS/NAPHTHA/DIESEL	2,091	629	622			15.09	629
WIND	0	0	0	0			
BIOMASS(1 * 16)	16	37	36	38.17		0.97	40
SOLAR(1 * 2)	2	0	0	0			
Total DELHI	2,949	666	658			16.06	669

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	271	248	288	12:00	5.81	242
JHAJJAR(CLP)(2 * 660)	1,320	538	372	614	11:00	10.73	447
MAGNUM DIESEL (IPP)(4 * 6.3)	25	0	0	0			
PANIPAT TPS(2 * 210 + 2 * 250)	920	433	407	462	10:00	10.18	424
RGTPP(KHEDAR)(2 * 600)	1,200	828	775	1,042	10:00	19.27	803
Total THERMAL	4,065	2,070	1,802			45.99	1,916
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	4	13	23	01:00	0.51	21
Total HYDEL	62	4	13			0.51	21
WIND	0	0	0	0			
BIOMASS(1 * 106)	106	0	0	0		0.83	35
SOLAR(1 * 50)	50	0	0	0		0.14	6
Total HARYANA	4,715	2,074	1,815			47.47	1,978

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	39	39	0		1.43	60
MALANA (IPP) HPS(2 * 43)	86	50	0	0		0.39	16
OTHER HYDRO HP(1 * 372)	372	157	105	0		3.07	128
Total HYDEL	758	246	144			4.89	204
WIND	0	0	0	0			
BIOMASS	0	0	0	0			
SOLAR	0	0	0	0			
SMALL HYDRO(1 * 486)	486	178	140	0		3.57	149
Total SMALL HYDRO	486	178	140			3.57	149
Total HP	1,244	424	284			8.46	353

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	238	237	0		5.69	237
OTHER HYDRO/IPP J&K(1 * 308)	308	125	72	0		2.46	103
Total HYDEL	1,208	363	309			8.15	340
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	363	309			8.15	340

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	440	440	440		10.53	439
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	650	651	785		16.44	685
GURU NANAK DEV TPS (BHATINDA)(4 * 110)	460	0	0	0		-0.01	0
RAJPURA(NPL) TPS(2 * 700)	1,400	660	660	660		15.75	656
TALWANDI SABO TPS(3 * 660)	1,980	1,026	927	1,228		27.46	1,144
Total THERMAL	6,560	2,776	2,678			70.07	2,920
TOTAL HYDRO PUNJAB(1 * 1000)	1,000	443	285	552		9.2	383
Total HYDEL	1,000	443	285			9.2	383
WIND	0	0	0	0			
BIOMASS(1 * 303)	303	0	0	0		7.99	333
SOLAR(1 * 859)	859	0	0	333		2.8	117
Total PUNJAB	8,722	3,219	2,963			90.06	3,753

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	223	222	0		5.23	218
CHHABRA TPS(1 * 660 + 4 * 250)	1,660	1,496	1,465	0		35.4	1,475
GIRAL (IPP) LTPS(2 * 125)	250	0	0	0			
KALISINDH TPS(2 * 600)	1,200	554	406	0		12.6	525
KAWAI TPS(2 * 660)	1,320	601	866	0		18.99	791
KOTA TPS(2 * 110 + 2 * 195 + 3 * 210)	1,240	1,029	819	0		23.13	964
RAJWEST (IPP) LTPS(8 * 135)	1,080	707	437	0		15.76	657
SURATGARH TPS(6 * 250)	1,500	818	702	0		18.27	761
VSLPP (IPP)(1 * 135)	135	0	0	0			
Total THERMAL	8,635	5,428	4,917			129.38	5,391
DHOLPUR GPS(3 * 110)	330	0	0	0			
RAMGARH GPS(1 * 110 + 1 * 35.5 + 1 * 50 + 2 * 37.5)	271	72	75	0		1.82	76
Total GAS/NAPHTHA/DIESEL	601	72	75			1.82	76
RAPS-A(1 * 100 + 1 * 200)	300	159	159	0		3.71	155
Total NUCLEAR	300	159	159			3.71	155
TOTAL HYDRO RAJASTHAN(1 * 550)	550	123	174	0		2.95	123
Total HYDEL	550	123	174			2.95	123
WIND	4,292	43	53	0		1.9	79
BIOMASS(1 * 102)	102	31	31	0		0.74	31
SOLAR(1 * 1995)	1,995	10	0	0		13.87	578
Total RAJASTHAN	16,475	5,866	5,409			154.37	6,433

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	1,350	1,360	0		34.3	1,429
ANPARA-C TPS(2 * 600)	1,200	680	546	0		14.8	617
ANPARA-D TPS(2 * 500)	1,000	959	946	0		21.8	908
BAJAJ ENERGY PVT LTD (IPP) TPS(10 * 45)	450	0	0	0			
BARA PPGCL TPS(3 * 660)	1,980	952	900	0		21.4	892
HARDUAGANJ TPS(1 * 105 + 1 * 60 + 2 * 250)	665	444	251	0		9.1	379
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	328	214	0		7.1	296
PANKI TPS(2 * 105)	210	0	0	0			
PARICHA TPS(2 * 110 + 2 * 210 + 2 * 250)	1,160	450	257	0		8.4	350
ROSA TPS(4 * 300)	1,200	0	0	0			
TANDA TPS(4 * 110)	440	396	216	0		7.5	313
Total THERMAL	13,763	5,559	4,690			124.4	5,184
ALAKHANDA HEP(4 * 82.5)	330	82	81	0		1.9	79
VISHNUPARYAG HPS(4 * 110)	440	103	103	0		2.5	104
OTHER HYDRO UP(1 * 527)	527	74	35	0		1.2	50
Total HYDEL	1,297	259	219			5.6	233
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	700	700	0		16.8	700
Total OTHERs	1,360	700	700			16.8	700
Total UP	16,918	6,518	5,609			149.5	6,230

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	96	95	96	19:00	2.41	100			
Total GAS/NAPTHA/DIESEL	450	96	95			2.41	100			
OTHER HYDRO UK(1 * 1250)	1,250	447	246	606	10:00	8.45	352			
Total HYDEL	1,250	447	246			8.45	352			
WIND	0	0	0	0						
BIOMASS(1 * 127)	127	0	0	0						
SOLAR(1 * 100)	100	0	0	85	12:00	0.58	24			
SMALL HYDRO(1 * 180)	180	0	0	0						
Total SMALL HYDRO	180	0	0			0	0			
Total UTTARAKHAND	2,107	543	341			11.44	476			

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	378.49	491	334	491	19:00	9.08	9.13	380	0.05
DEHAR HPS(6 * 165)	990	166.67	495	0	495	19:00	4	4.11	171	0.11
PONG HPS(6 * 66)	396	285.73	330	198	330	19:00	6.86	6.89	287	0.03
Sub-Total	2,765	830.89	1,316	532	-	-	19.94	20.13	838	0.19
NHPC										
BAIRASIUL HPS(3 * 60)	180	0	0	0	0	-	0	-	-	0
CHAMERA HPS(3 * 180)	540	535.58	0	0	0	-	2.8	-	-	-2.8
CHAMERA II HPS(3 * 100)	300	163.13	206	0	206	19:00	1.99	2.17	90	0.18
CHAMERA III HPS(3 * 77)	231	153	162	0	162	19:00	1.3	1.41	59	0.11
DHAULIGANGA HPS(4 * 70)	280	67.59	144	73	209	07:00	1.59	1.55	65	-0.04
DULHASTI HPS(3 * 130)	390	386.9	394	0	397	07:00	4.12	4.21	175	0.09
KISHANGANGA(2 * 110)	220	0	0	0	0	-	0	-	-	0
PARBATI III HEP(4 * 130)	520	25.34	260	0	263	03:00	0.61	0.6	25	-0.01
SALAL HPS(6 * 115)	690	163.12	380	100	380	06:00	3.92	4.31	180	0.39
SEWA-II HPS(3 * 40)	120	80.09	80	0	84	20:00	0.45	0.47	20	0.02
TANAKPUR HPS(1 * 31.42 + 2 * 31.4)	94	36.81	41	35	65	01:00	0.88	0.95	40	0.07
URI HPS(4 * 120)	480	196.15	360	154	360	19:00	4.71	5.38	224	0.67
URI-II HPS(4 * 60)	480	120.62	113	121	182	09:00	2.9	3	125	0.1
Sub-Total	4,525	1,928.33	2,140	483	-	-	25.27	24.05	1,003	-1.22
NPCL										
NAPS(2 * 220)	440	404	444	449	444	19:00	9.7	9.79	408	0.09
RAPS-B(2 * 220)	440	193	220	219	221	08:00	4.63	4.68	195	0.05
RAPS-C(2 * 220)	440	420	472	473	474	11:00	10.08	10.29	429	0.21
Sub-Total	1,320	1,017	1,136	1,141	-	-	24.41	24.76	1,032	0.35
NTPC										
ANTA GPS(1 * 153.2 + 3 * 88.71)	419	132.97	162	150	276	07:49	4.53	4.51	188	-0.02
AURAIYA GPS(2 * 109.3 + 4 * 111.19)	663	642.6	0	0	0	-	0	-	-	0
DADRI GPS(2 * 154.51 + 4 * 130.19)	830	412.71	265	231	401	-	6.17	6.28	262	0.11
DADRI SOLAR(1 * 5)	5	0.86	0	0	0	-	0.02	0	0	-0.02
DADRI-I TPS(4 * 210)	840	760.22	380	441	380	19:00	10.31	10.23	426	-0.08
DADRI-II TPS(2 * 490)	980	928.55	878	555	878	19:00	16.17	17.03	710	0.86
ISTPP (JHAJJAR)(3 * 500)	1,500	947.5	984	553	1,001	11:14	17.89	17.58	733	-0.31
KOLDAM HPS(4 * 200)	800	872	701	0	871	07:00	3.21	3.22	134	0.01
RIHAND-I STPS(2 * 500)	1,000	461.25	490	501	490	19:00	11.06	11.36	473	0.3
RIHAND-II STPS(2 * 500)	1,000	663.05	879	499	879	19:00	15.86	15.95	665	0.09
RIHAND-III STPS(2 * 500)	1,000	942.5	1,004	1,015	1,004	19:00	22.5	22.78	949	0.28
SINGRAULI STPS(2 * 500 + 5 * 200)	2,000	1,862.5	2,052	2,021	2,052	19:00	44.7	45.22	1,884	0.52
SINGRAULI SOLAR(1 * 15)	15	2.56	0	0	0	-	0.06	0.07	3	0.01
UNCHAHAH II TPS(2 * 210)	420	382.2	366	259	366	19:00	7.06	6.99	291	-0.07
UNCHAHAH III TPS(1 * 210)	210	191.1	134	120	134	19:00	3.5	3.39	141	-0.11
UNCHAHAH IV TPS(1 * 500)	500	0	0	0	0	-	0	-	-	0
UNCHAHAH SOLAR(1 * 10)	10	1.64	0	0	0	-	0.04	0.04	2	0
UNCHAHAH TPS(2 * 210)	420	382.2	314	240	314	19:00	6.42	6.52	272	0.1
Sub-Total	12,612	9,586.41	8,609	6,585	-	-	169.5	171.17	7,133	1.67
SJVNL										
NATHPA-JHAKRI HPS(6 * 250)	1,500	1,249.38	1,258	0	1,258	19:00	8.8	8.88	370	0.08
RAMPUR HEP(6 * 68.67)	412	344.48	344	0	368	18:00	2.46	2.55	106	0.09
Sub-Total	1,912	1,593.86	1,602	0	-	-	11.26	11.43	476	0.17
THDC										
KOTESHWAR HPS(4 * 100)	400	91.25	99	91	100	07:00	2.19	2.2	92	0.01
TEHRI HPS(4 * 250)	1,000	1,064	1,009	0	1,011	07:00	6.84	6.92	288	0.08
Sub-Total	1,400	1,155.25	1,108	91	-	-	9.03	9.12	380	0.09
Total	24,534	16,111.74	15,911	8,832			259.41	260.66	10,862	1.25

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	0	0
BUDHIL HPS (IPP)(2 * 35)	70	0	69	0	69	18:00	0.31	0.31	13	0
KARCHAM WANGTOO HPS(4 * 250)	1,000	0	1,000	0	1,000	18:00	4.62	4.59	191	-0.03
MALANA2(2 * 50)	100	0	0	0	0	-	0	-	-	0
SAINJ HEP(2 * 50)	50	0	100	0	100	05:00	0.59	0.66	28	0.07
SHREE CEMENT (IPP) TPS(2 * 150)	300	0	143	82	146	10:00	2.55	2.46	103	-0.09
Sub-Total	1,712	0	1,312	82	-	-	8.07	8.02	335	-0.05
Total	1,712	0	1,312	82	-	-	8.07	8.02	335	-0.05

Summary Section					
	Inst. Capacity	PEAK	OFF-PEAK	Day Energy	Day AVG.
Total State Control Area Generation	54,626	19,673	17,388	485.51	20,230
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]		4,484	5,895	128.45	6,520
Total Regional Availability(Gross)	80,872	41,380	32,197	882.64	37,945

Total Hydro Generation					
	Inst. Capacity	PEAK	OFF-PEAK	Day Energy	Day AVG.
Regional Entities Hydro	12,814	8,036	1,106	73.51	3,063
State Control Area Hydro	6,125	1,885	1,390	39.75	1,656
Total Regional Hydro	18,939	9,921	2,496	113.26	4,719

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	299	260	36.09	1,504
Total Regional Renewable	9,244	299	260	36.2	1,509

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 ..	-	-	-	-	-	-	-
3	132KV-Rihand-Sonnagar(PG)	-	-	-	-	-	-	-
4	220KV-Pusauli(PG)-Sahupuri(UP)	80	80	107	0	2.1	0	2.1
5	400KV-Biharsharif(PG)-Balua(PG)	85	11	143	90	0.27	0	0.27
6	400KV-Biharsharif(PG)-Varanasi(P..	-190	45	42	253	0	2.37	-2.37
7	400KV-Fatehpur(UP)-Sasaram	-	-	-	-	-	-	-
8	400KV-Motihari(DMT)-Gorakhpur ..	210	304	346	0	6.49	0	6.49
9	400KV-Muzaffarpur(PG)-Gorakhp ..	-124	-82	236	212	0	0.34	-0.34
10	400KV-Patna(PG)-Balua(PG)	378	516	623	0	12.19	0	12.19
11	400KV-Sasaram-Allahabad(PG)	109	123	143	0	2.85	0	2.85
12	400KV-Sasaram-Varanasi(PG)	230	218	247	0	5.49	0	5.49
13	765KV-Fatehpur(PG)-Sasaram.	-235	-77	62	266	0	1.98	-1.98
14	765KV-Gaya(PG)-Balua(PG)	40	104	200	0	2.69	0	2.69
15	765KV-Gaya(PG)-Varanasi(PG)	75	-120	331	129	2.21	0	2.21
16	HVDC800KV-Alipurduar-Agra(PG)	400	300	400	0	8.2	0	8.2
Sub-Total EAST REGION		1,058	1,422	2,880	950	42.49	4.69	37.8
Import/Export between NORTH_EAST REGION and NORTH REGION								
1	HVDC800KV-BiswanathCharialli- ..	700	500	700	0	12.31	0	12.31
Sub-Total NORTH_EAST REGION		700	500	700	0	12.31	0	12.31
Import/Export between WEST REGION and NORTH REGION								
1	220KV-Auraiya(NT)-Malanpur(PG)	-67	-80	-	147	0	2.21	-2.21
2	220KV-Badod(MP)-Kota(PG)	-103	-100	-	11	0	3.31	-3.31
3	220KV-Badod(MP)-Modak(RJ)	-	-	-	-	-	-	-
4	400KV-RAPS C(NP)-Sujalpur	19	3	0	350	0	4.57	-4.57
5	400KV-Vindhyachal(PG)-Rihand(N ..	-937	-971	-	982	0	22.86	-22.86
6	400KV-Zerda(PG)-Bhinmal(PG)	-161	-42	108	225	0	1.78	-1.78
7	400KV-Zerda(PG)-Kankroli(RJ)	-282	-214	0	331	0	5.81	-5.81
8	765KV-0rai-Gwalior(PG)	-324	-344	0	501	0	9.68	-9.68
9	765KV-0rai-Jabalpur	-15	294	592	139	5.75	0	5.75
10	765KV-0rai-Satna	1,327	1,602	1,602	0	35.53	0	35.53
11	765KV-Gwalior(PG)-Agra(PG)	857	1,273	1,464	0	26.4	0	26.4
12	765KV-Phagi(RJ)-Gwalior(PG)	762	902	1,157	-	21.21	0	21.21
13	HVDC500KV-Mundra(JH)-Mohind..	1,000	1,000	1,003	0	24.25	0	24.25
14	HVDC500KV-Vindhyachal(PG)-Vindhaychal B/B	-250	-250	0	250	0	6.04	-6.04
15	HVDC800KV-Champa(PG)-Kuruku..	900	900	900	-	21.46	0	21.46
Sub-Total WEST REGION		2,726	3,973	6,826	2,936	134.6	56.26	78.34
TOTAL IR EXCHANGE		4,484	5,895	10,406	3,886	189.4	60.95	128.45

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	51.44	-22.45	6.95	35.94	37.8	1.86

NR-WR	152.41	-37.03	-13.64	101.74	78.34	-23.4
Total	203.85	-59.48	-6.69	137.68	128.45	-9.23

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)	-22.88	0	0	25	0	0.2528	-0.2528

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	3.5	55.4	87.7	7.5	1.3	0	8.8

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

Maximum		Minimum		Average	Freq Variation	Standard	Freq. in 15 mnt blk		Freq Dev Index
Frequency	Time	Frequency	Time				Frequency	Index	
50.16	12:03:10	49.82	17:42:00	49.99	0.023	0.047	50.06	49.91	12.3

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	428	04:00	412	17:50	0	0	59.38	0	59.38
Amritsar(PG) - 400KV	428	04:00	413	11:15	0	0	44.79	0	44.79
Ballabgarh(PG) - 400KV	426	20:45	409	09:35	0	0	37.5	0	37.5
Bareilly II(PG) - 400KV	419	20:45	406	17:40	0	0	0	0	0
Bareilly(UP) - 400KV	421	20:45	407	17:40	0	0	2.43	0	2.43
Baspa(HP) - 400KV	430	04:05	412	18:20	0	0	61.46	1.04	61.46
Bassi(PG) - 400KV	418	20:45	394	07:20	0	0	0	0	0
Bawana(DTL) - 400KV	426	04:00	413	10:50	0	0	57.99	0	57.99
Dadri HVDC(PG) - 400KV	427	20:45	415	11:10	0	0	64.24	0	64.24
Gorakhpur(PG) - 400KV	419	04:00	408	17:40	0	0	0	0	0
Hisar(PG) - 400KV	423	20:45	408	07:15	0	0	10.42	0	10.42
Kanpur(PG) - 400KV	424	04:00	412	09:50	0	0	29.51	0	29.51
Kashipur(UT) - 400KV	402	00:00	402	00:00	0	0	0	0	0
Kishenpur(PG) - 400KV	420	04:00	405	18:20	0	0	.69	0	.69
Moga(PG) - 400KV	420	04:00	406	17:40	0	0	.35	0	.35
Nallagarh(PG) - 400KV	430	04:05	412	18:20	0	0	61.46	1.04	61.46
Rihand HVDC(PG) - 400KV	407	04:00	403	17:40	0	0	0	0	0
Rihand(NT) - 400KV	406	04:00	402	17:40	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	792	20:25	768	09:55	0	0	0	0	0
Balia(PG) - 765KV	785	04:00	767	17:40	0	0	0	0	0
Bareilly II(PG) - 765KV	799	04:00	776	17:40	0	0	0	0	0
Bhiwani(PG) - 765KV	805	20:45	776	09:10	0	0	19.44	0	19.44
Fatehpur(PG) - 765KV	775	04:00	755	10:50	0	0	0	0	0
Jhatikara(PG) - 765KV	804	20:45	776	09:30	0	0	4.86	0	4.86
Lucknow II(PG) - 765KV	795	04:00	773	17:40	0	0	0	0	0
Meerut(PG) - 765KV	805	16:00	775	08:40	0	0	10.76	0	10.76
Moga(PG) - 765KV	796	14:00	762	17:40	0	0	0	0	0
Phagi(RJ) - 765KV	799	20:45	762	16:40	30.56	30.56	0	0	30.56
Unnao(UP) - 765KV	776	04:00	757	09:50	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	-1,680.35	197.02	0	-1,579.09	0	0	61.11	-38.71	3.99	26.4
HARYANA	-843.66	141.56	0	-802.36	-40.22	0	79.58	-20.93	0.64	59.27
RAJASTHAN	-8.2	138.43	0	-8.2	-1,036.57	0	66.2	0.29	1.61	68.1
DELHI	-1,000.04	-578.63	0	-1,011.77	-271.53	0	75.83	-25.5	-7.34	42.98
UTTAR PRADESH	99.12	0	0	64.37	0	0	114.49	-4.34	-1.06	109.09
UTTARAKHAND	427.06	5	0	369.14	-173.82	0	12.45	9.3	-0.58	21.16
HIMACHAL PRADESH	324.56	-1.13	0	144.26	-249.56	0	13.36	7.33	-3.66	17.02
JAMMU & KASHMIR	494.51	147.76	0	494.51	0	0	23.79	11.87	2.05	37.71
CHANDIGARH	0	-30.3	0	0	-55.55	0	3.57	0	-1.03	2.55
TOTAL	-2,187	19.71	0	-2,329.14	-1,827.25	0	450.38	-60.69	-5.38	384.28

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	3,239.04	2,226.37	-1,579.09	-1,680.35	689.57	0	0	0
HARYANA	4,330.66	2,552.88	-719.49	-1,002.37	141.56	-400.38	0	0
RAJASTHAN	3,470.64	2,208.63	88.81	-8.2	1,217.62	-1,226.54	0	0
DELHI	3,792.34	2,459.43	-868.11	-1,178.71	178.69	-895.77	0	0
UTTAR PRADESH	6,238.78	4,082.64	104.01	-471.54	0	-506.07	0	0
UTTARAKHAND	832.79	383.12	456.27	310.73	101.73	-253.78	0	0
HIMACHAL PRADESH	1,216.11	216.04	413.37	144.26	4.53	-598.2	0	0
JAMMU & KASHMIR	1,511.71	718.82	494.51	494.51	295.53	-203.54	0	0
CHANDIGARH	252.02	101.48	0	0	0	-99.99	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	508.04	1,456	504.94	1,312	221.55	243.61
Chamera-I	748.75	760	-	-	-	-	-	0
Gandhisagar	295.78	295.78	-	-	-	-	-	0
Jawahar Sagar	295.78	298.7	-	-	-	-	-	0
Koteshwar	598.5	612.5	609.78	4	610.64	5	153	144.93
Pong	384.05	426.72	419.83	876	414.87	669	92.06	397.62
RPS	343.81	352.8	-	-	-	-	-	0
RSD	487.91	527.91	521.81	2	509.77	4	105.07	176.87
Rihand	252.98	268.22	262.01	419	262.31	436	-	0
Tehri	740.04	829.79	822.8	1,061	819.35	989	116.98	153
TOTAL	-	-	-	3,818	-	3,415	688.66	1,116.03

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	3	20
DELHI	4	32
HARYANA	2	20
HIMACHAL PRADESH	3	27
JAMMU & KASHMIR	3	21
PUNJAB	0	11
RAJASTHAN	3	23
UTTAR PRADESH	1	19
UTTARAKHAND	6	76

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