



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

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

Date of Reporting:26-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
44,819	572	45,391	50.04	31,803	327	32,130	49.99	937	44.01

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	49.33	14.69	0	3.8	0	1.07	68.88	27.2	27.44	0.24	127.04	30.72	96.32
HARYANA	60.54	0.51	0	0.11	0	0.77	61.93	66.9	67.06	0.16	128.99	0	128.99
RAJASTHAN	136.71	4.3	1.77	15.61	8.22	3.92	170.52	66.76	68.16	1.4	238.68	0	238.68
DELHI	-0.01	0	15.82	0	0	0.9	16.71	48.11	48.12	0.01	64.83	0	64.83
UTTAR PRADESH	144.5	7.5	0	0.3	0	21.6	173.9	113.38	113.95	0.57	290.47	2.62	287.85
UTTARAKHAND	0	9.29	2.47	0.47	0	0.72	12.95	25.55	25.62	0.07	38.63	0.06	38.57
HIMACHAL PRADESH	0	3.49	0	0	0	2.27	5.76	22.96	23.67	0.71	29.43	0	29.43
JAMMU & KASHMIR	0	5.23	0	0	0	0	5.23	43.77	43.96	0.19	59.8	10.61	49.19
CHANDIGARH	0	0	0	0	0	0	0	2.92	3.41	0.49	3.41	0	3.41
Region	391.07	45.01	20.06	20.29	8.22	31.25	515.88	417.55	421.39	3.84	981.28	44.01	937.27

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	4,666	0	13	-1,692	3,413	0	96	-1,396
HARYANA	6,549	0	-125	-845	4,333	0	103	-861
RAJASTHAN	10,515	0	-50	-505	8,055	0	11	-395
DELHI	3,158	0	-11	-894	1,623	0	61	-1,461
UTTAR PRADESH	14,064	0	-46	72	10,322	0	-65	46
UTTARAKHAND	1,911	0	-61	647	1,285	0	23	510
HIMACHAL PRADESH	1,483	0	114	776	837	0	-27	436
JAMMU & KASHMIR	2,288	572	38	1,102	1,852	327	-42	707
CHANDIGARH	184	0	20	0	82	0	15	-51
Region	44,818	572	-108	-1,339	31,802	327	175	-2,465

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	4,666	19:00	0	4,666	4,666	19:00	0	4,666	3,393	4:00
HARYANA	6,549	19:00	0	6,549	6,549	19:00	0	6,549	4,262	2:00
RAJASTHAN	12,604	10:00	0	12,604	12,604	10:00	0	12,604	7,216	5:00
DELHI	3,927	11:00	0	3,927	3,927	11:00	0	3,927	1,526	4:00
UP	14,064	19:00	0	14,064	14,064	19:00	0	14,064	10,322	3:00
UTTARAKHAND	2,055	9:00	0	2,055	2,055	9:00	0	2,055	1,276	2:00
HP	1,585	10:00	0	1,585	1,585	10:00	0	1,585	826	4:00
J&K	2,423	8:00	606	3,029	3,029	8:00	606	2,423	1,596	6:00
CHANDIGARH	213	9:00	0	213	213	9:00	0	213	82	3:00
NR	44,819	19:00	572	45,391	45,391	19:00	572	44,819	31,479	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		-0.01	0
RAJGHAT TPS(2 * 67.5)	135	0	0	0			
Total THERMAL	840	0	0			-0.01	0
BAWANA GPS(2 * 253 + 4 * 216)	1,370	450	458	0		10.95	456
DELHI GAS TURBINES(3 * 34 + 6 * 30)	282	40	40	0		0.92	38
PRAGATI GAS TURBINES(1 * 121.2 + 2 * 104.6)	331	160	162	0		3.95	165
RITHALA GPS(3 * 36)	108	0	0	0			
Total GAS/NAPHTHA/DIESEL	2,091	650	660			15.82	659
WIND	0	0	0	0			
BIOMASS(1 * 16)	16	39	21	0		0.9	38
SOLAR(1 * 2)	2	0	0	0			
Total DELHI	2,949	689	681			16.71	697

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	565	491	569	11:00	12.24	510
JHAJJAR(CLP)(2 * 660)	1,320	1,182	739	1,222	10:00	24.34	1,014
MAGNUM DIESEL (IPP)(4 * 6.3)	25	0	0	0			
PANIPAT TPS(2 * 210 + 2 * 250)	920	631	580	631	19:00	14.26	594
RGTPP(KHEDAR)(2 * 600)	1,200	522	389	566	12:00	9.7	404
Total THERMAL	4,065	2,900	2,199			60.54	2,522
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	9	21	22	04:00	0.51	21
Total HYDEL	62	9	21			0.51	21
WIND	0	0	0	0			
BIOMASS(1 * 106)	106	0	0	0		0.77	32
SOLAR(1 * 50)	50	0	0	0		0.11	5
Total HARYANA	4,715	2,909	2,220			61.93	2,580

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	29	29	0		0.99	41
MALANA (IPP) HPS(2 * 43)	86	46	0	0		0.28	12
OTHER HYDRO HP(1 * 372)	372	186	34	0		2.22	93
Total HYDEL	758	261	63			3.49	146
WIND	0	0	0	0			
BIOMASS	0	0	0	0			
SOLAR	0	0	0	0			
SMALL HYDRO(1 * 486)	486	147	58	0		2.27	95
Total SMALL HYDRO	486	147	58			2.27	95
Total HP	1,244	408	121			5.76	241

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	105	107	0		1.68	70
Total HYDEL	1,208	253	255			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	253	255			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	491	290	491		9.2	383
GURU GOBIND SINGH TPS (ROPAR)(6 * 210)	1,260	0	0	0		-0.13	-5
GURU HARGOBIND SINGH TPS (LEHRA MOHABBAT)(2 * 210 + 2 * 250)	920	230	166	234		4.91	205
GURU NANAK DEV TPS (BHATINDA)(4 * 110)	460	0	0	0		-0.09	-4
RAJPURA(NPL) TPS(2 * 700)	1,400	1,320	785	1,320		26.52	1,105
TALWANDI SABO TPS(3 * 660)	1,980	425	924	924		8.91	371
Total THERMAL	6,560	2,466	2,165			49.32	2,055
TOTAL HYDRO PUNJAB(1 * 1000)	1,000	626	412	626		14.69	612
Total HYDEL	1,000	626	412			14.69	612
WIND	0	0	0	0			
BIOMASS(1 * 303)	303	0	0	0		1.07	45
SOLAR(1 * 859)	859	0	0	450		3.8	158
Total PUNJAB	8,722	3,092	2,577			68.88	2,870

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	222	223	0		5.29	220
CHHABRA TPS(1 * 660 + 4 * 250)	1,660	1,474	1,161	0		30.72	1,280
GIRAL (IPP) LTPS(2 * 125)	250	0	0	0			
KALISINDH TPS(2 * 600)	1,200	1,136	814	0		24.95	1,040
KAWAI TPS(2 * 660)	1,320	1,193	866	0		26.13	1,089
KOTA TPS(2 * 110 + 2 * 195 + 3 * 210)	1,240	1,100	910	0		24.65	1,027
RAJWEST (IPP) LTPS(8 * 135)	1,080	481	345	0		9.63	401
SURATGARH TPS(6 * 250)	1,500	668	534	0		12.85	535
VSLPP (IPP)(1 * 135)	135	104	105	0		2.49	104
Total THERMAL	8,635	6,378	4,958			136.71	5,696
DHOLPUR GPS(3 * 110)	330	0	0	0			
RAMGARH GPS(1 * 110 + 1 * 35.5 + 1 * 50 + 2 * 37.5)	271	72	73	0		1.77	74
Total GAS/NAPHTHA/DIESEL	601	72	73			1.77	74
RAPS-A(1 * 100 + 1 * 200)	300	162	162	0		3.58	149
Total NUCLEAR	300	162	162			3.58	149
TOTAL HYDRO RAJASTHAN(1 * 550)	550	220	198	0		4.3	179
Total HYDEL	550	220	198			4.3	179
WIND	4,292	256	198	0		8.22	343
BIOMASS(1 * 102)	102	14	14	0		0.34	14
SOLAR(1 * 1995)	1,995	41	0	0		15.61	650
Total RAJASTHAN	16,475	7,143	5,603			170.53	7,105

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	1,452	1,450	0		34.4	1,433
ANPARA-C TPS(2 * 600)	1,200	1,096	611	0		24.5	1,021
ANPARA-D TPS(2 * 500)	1,000	955	532	0		20.9	871
BAJAJ ENERGY PVT LTD (IPP) TPS(10 * 45)	450	0	0	0			
BARA PPGCL TPS(3 * 660)	1,980	1,008	712	0		23.1	963
HARDUAGANJ TPS(1 * 105 + 1 * 60 + 2 * 250)	665	447	268	0		8.8	367
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	503	327	0		11.1	463
PANKI TPS(2 * 105)	210	0	0	0			
PARICHA TPS(2 * 110 + 2 * 210 + 2 * 250)	1,160	587	348	0		12.9	538
ROSA TPS(4 * 300)	1,200	0	148	0		1.2	50
TANDA TPS(4 * 110)	440	340	243	0		7.6	317
Total THERMAL	13,763	6,388	4,639			144.5	6,023
ALAKHANDA HEP(4 * 82.5)	330	79	140	0		1.4	58
VISHNUPARYAG HPS(4 * 110)	440	83	78	0		2	83
OTHER HYDRO UP(1 * 527)	527	160	153	0		4.1	171
Total HYDEL	1,297	322	371			7.5	312
WIND	0	0	0	0			
BIOMASS(1 * 26)	26	0	0	0			
SOLAR(1 * 472)	472	0	0	0		0.3	13
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	7,610	5,910			173.9	7,248

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	102	106	106	02:00	2.47	103			
Total GAS/NAPHTHA/DIESEL	450	102	106			2.47	103			
OTHER HYDRO UK(1 * 1250)	1,250	592	201	657	20:00	9.29	387			
Total HYDEL	1,250	592	201			9.29	387			
WIND	0	0	0	0						
BIOMASS(1 * 127)	127	35	29	37	20:00	0.72	30			
SOLAR(1 * 100)	100	0	0	84	13:00	0.47	20			
SMALL HYDRO(1 * 180)	180	0	0	0						
Total SMALL HYDRO	180	0	0			0	0			
Total UTTARAKHAND	2,107	729	336			12.95	540			

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	648.3	1,092	416	1,092	19:00	15.56	15.69	654	0.13
DEHAR HPS(6 * 165)	990	142.08	495	0	495	19:00	3.41	3.52	147	0.11
PONG HPS(6 * 66)	396	260	264	264	264	19:00	6.24	6.31	263	0.07
Sub-Total	2,765	1,050.38	1,851	680	-	-	25.21	25.52	1,064	0.31
NHPC										
BAIRASIUL HPS(3 * 60)	180	0	0	0	0	-	0	-	-	0
CHAMERA HPS(3 * 180)	540	535.58	355	0	557	07:15	2.1	2.23	93	0.13
CHAMERA II HPS(3 * 100)	300	197.9	205	31	205	19:00	1.3	1.5	63	0.2
CHAMERA III HPS(3 * 77)	231	153	159	0	159	19:00	0.7	0.78	33	0.08
DHAULIGANGA HPS(4 * 70)	280	281.38	279	0	285	07:00	1.04	1.07	45	0.03
DULHASTI HPS(3 * 130)	390	386.9	385	0	393	18:00	3	3.12	130	0.12
KISHANGANGA(2 * 110)	220	43.19	218	22	218	07:00	1.04	1.07	45	0.03
PARBATI III HEP(4 * 130)	520	0	0	0	0	-	0	-	-	0
SALAL HPS(6 * 115)	690	102.6	351	50	351	19:00	2.46	2.96	123	0.5
SEWA-II HPS(3 * 40)	120	120.2	38	0	124	07:00	0.39	0.43	18	0.04
TANAKPUR HPS(1 * 31.42 + 2 * 31.4)	94	26.89	25	24	67	05:00	0.65	0.68	28	0.03
URI HPS(4 * 120)	480	125.62	360	80	361	21:00	3.02	3.58	149	0.56
URI-II HPS(4 * 60)	480	82.39	183	78	183	10:00	1.98	2.07	86	0.09
Sub-Total	4,525	2,055.65	2,558	285	-	-	17.68	19.49	813	1.81
NPCL										
NAPS(2 * 220)	440	414	451	452	451	19:00	9.94	9.97	415	0.03
RAPS-B(2 * 220)	440	179	205	205	207	02:00	4.3	4.29	179	-0.01
RAPS-C(2 * 220)	440	430	473	471	475	-	10.32	10.2	425	-0.12
Sub-Total	1,320	1,023	1,129	1,128	-	-	24.56	24.46	1,019	-0.1
NTPC										
ANTA GPS(1 * 153.2 + 3 * 88.71)	419	413.25	0	0	0	-	0	0	0	0
AURAIYA GPS(2 * 109.3 + 4 * 111.19)	663	646.5	0	0	0	-	0	-	-	0
DADRI GPS(2 * 154.51 + 4 * 130.19)	830	416.04	232	227	232	19:00	5.73	5.92	247	0.19
DADRI SOLAR(1 * 5)	5	0.68	0	0	0	-	0.02	0.02	1	0
DADRI-I TPS(4 * 210)	840	576.45	0	0	0	-	10.54	10.48	437	-0.06
DADRI-II TPS(2 * 490)	980	928.55	0	0	0	-	17.55	17.82	743	0.27
ISTPP (JHAJJAR)(3 * 500)	1,500	947.5	792	592	1,015	08:54	18.19	17.98	749	-0.21
KOLDAM HPS(4 * 200)	800	872	603	0	657	07:00	2.62	2.78	116	0.16
RIHAND-I STPS(2 * 500)	1,000	922.5	1,015	1,001	1,015	19:00	22.06	22.17	924	0.11
RIHAND-II STPS(2 * 500)	1,000	942.5	1,005	1,000	1,005	19:00	22.62	23.16	965	0.54
RIHAND-III STPS(2 * 500)	1,000	753.49	514	988	514	19:00	17.7	17.83	743	0.13
SINGRAULI STPS(2 * 500 + 5 * 200)	2,000	1,862.5	2,036	2,013	2,050	12:00	44.56	44.96	1,873	0.4
SINGRAULI SOLAR(1 * 15)	15	2.45	0	0	0	-	0.06	0.07	3	0.01
UNCHAHAH II TPS(2 * 210)	420	382.2	398	291	398	19:00	7.76	8.33	347	0.57
UNCHAHAH III TPS(1 * 210)	210	191.1	187	117	187	19:00	3.75	3.99	166	0.24
UNCHAHAH IV TPS(1 * 500)	500	400	396	287	396	19:00	8.18	8.28	345	0.1
UNCHAHAH SOLAR(1 * 10)	10	1.62	0	0	0	-	0.04	0.04	2	0
UNCHAHAH TPS(2 * 210)	420	382.2	402	338	402	19:00	8.22	8.74	364	0.52
Sub-Total	12,612	10,641.53	7,580	6,854	-	-	189.6	192.57	8,025	2.97
SJVNL										
NATHPA-JHAKRI HPS(6 * 250)	1,500	999.5	1,082	0	1,093	18:00	6.7	6.98	291	0.28
RAMPUR HEP(6 * 68.67)	412	278.12	297	0	297	19:00	1.86	1.94	81	0.08
Sub-Total	1,912	1,277.62	1,379	0	-	-	8.56	8.92	372	0.36
THDC										
KOTESHWAR HPS(4 * 100)	400	130	382	90	386	07:00	3.12	3.17	132	0.05
TEHRI HPS(4 * 250)	1,000	1,064	1,056	0	1,064	07:00	9.3	9.5	396	0.2
Sub-Total	1,400	1,194	1,438	90	-	-	12.42	12.67	528	0.25
Total	24,534	17,242.18	15,935	9,037			278.03	283.63	11,821	5.6

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	89	0	97	10:00	0.47	0.5	21	0.03
BUDHIL HPS (IPP)(2 * 35)	70	0	0	0	34	11:00	0.24	0.23	10	-0.01
KARCHAM WANGTOO HPS(4 * 250)	1,000	0	900	0	900	18:00	3.56	3.63	151	0.07
MALANA2(2 * 50)	100	0	0	0	90	10:00	0.25	0.27	11	0.02
SAINJ HEP(2 * 50)	50	0	100	0	100	00:00	0.4	0.42	18	0.02
SHREE CEMENT (IPP) TPS(2 * 150)	300	0	148	122	148	19:00	3.26	3.21	134	-0.05
Sub-Total	1,712	0	1,237	122	-	-	8.18	8.26	345	0.08
Total	1,712	0	1,237	122	-	-	8.18	8.26	345	0.08

Summary Section					
	Inst. Capacity	PEAK	OFF-PEAK	Day Energy	Day AVG.
Total State Control Area Generation	54,626	22,833	17,703	515.89	21,495
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]		8,642	7,800	145.47	8,539
Total Regional Availability(Gross)	80,872	48,647	34,662	953.25	42,196

Total Hydro Generation					
	Inst. Capacity	PEAK	OFF-PEAK	Day Energy	Day AVG.
Regional Entities Hydro	12,814	8,918	1,055	74.43	3,101
State Control Area Hydro	6,125	2,283	1,521	45.01	1,875
Total Regional Hydro	18,939	11,201	2,576	119.44	4,976

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	532	320	34.58	1,441
Total Regional Renewable	9,244	532	320	34.71	1,446

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	100	75	-	140	0	2.19	-2.19
2	132KV-Karmnasa(PG)-Sahupuri(U ..	-	-	-	-	-	-	-
3	132KV-Rihand-Sonnagar(PG)	-	-	-	-	-	-	-
4	220KV-Pusauli(PG)-Sahupuri(UP)	109	13	121	0	2.55	0	2.55
5	400KV-Biharsharif(PG)-Baliala(PG)	123	105	236	0	3.95	0	3.95
6	400KV-Biharsharif(PG)-Varanasi(P..	56	-18	-106	0	0.92	0	0.92
7	400KV-Fatehpur(UP)-Sasaram	-	-	-	-	-	-	-
8	400KV-Motihari(DMT)-Gorakhpur ..	240	258	410	0	6.81	0	6.81
9	400KV-Muzaffarpur(PG)-Gorakhp ..	186	232	408	0	6.94	0	6.94
10	400KV-Patna(PG)-Baliala(PG)	658	664	865	0	17.42	0	17.42
11	400KV-Sasaram-Allahabad(PG)	13	32	46	0	0.68	0	0.68
12	400KV-Sasaram-Varanasi(PG)	128	109	128	0	4.18	0	4.18
13	765KV-Fatehpur(PG)-Sasaram.	4	55	233	0	2.71	0	2.71
14	765KV-Gaya(PG)-Baliala(PG)	202	102	263	0	3.95	0	3.95
15	765KV-Gaya(PG)-Varanasi(PG)	118	166	510	0	6.76	0	6.76
16	HVDC800KV-Alipurduar-Agra(PG)	-	-	-	-	-	-	-
Sub-Total EAST REGION		1,937	1,793	3,114	140	56.87	2.19	54.68
Import/Export between NORTH_EAST REGION and NORTH REGION								
1	HVDC800KV-BiswanathCharialli- ..	500	500	0	500	0	12.18	-12.18
Sub-Total NORTH_EAST REGION		500	500	0	500	0	12.18	-12.18
Import/Export between WEST REGION and NORTH REGION								
1	220KV-Auraiya(NT)-Malanpur(PG)	-35	-59	-	142	0	1.87	-1.87
2	220KV-Badod(MP)-Kota(PG)	10	-50	107	-64	0.38	0	0.38
3	220KV-Badod(MP)-Modak(RJ)	-	-	-	-	-	-	-
4	400KV-RAPS C(NP)-Sujalpur	-122	-302	0	308	0	4.01	-4.01
5	400KV-Vindhyachal(PG)-Rihand(N ..	969	944	-	980	0	21.14	-21.14
6	400KV-Zerda(PG)-Bhinmal(PG)	153	75	404	0	4.4	0	4.4
7	400KV-Zerda(PG)-Kankroli(RJ)	16	-51	201	51	1	0	1
8	765KV-0rai-Gwalior(PG)	-410	-377	0	668	0	11.39	-11.39
9	765KV-0rai-Jabalpur	197	234	843	-2	9.37	0	9.37
10	765KV-0rai-Satna	1,423	1,480	1,666	0	36.36	0	36.36
11	765KV-Gwalior(PG)-Agra(PG)	1,893	1,388	2,068	0	37.94	0	37.94
12	765KV-Phagi(RJ)-Gwalior(PG)	660	774	1,405	-	17.63	0	17.63
13	HVDC500KV-Mundra(JH)-Mohind..	1,001	1,001	1,004	0	24.24	0	24.24
14	HVDC500KV-Vindhyachal(PG)-Vindhaychal B/B	-250	-250	0	250	0	6.04	-6.04
15	HVDC800KV-Champa(PG)-Kuruku..	700	700	700	0	16.1	0	16.1
Sub-Total WEST REGION		6,205	5,507	8,398	2,333	147.42	44.45	102.97
TOTAL IR EXCHANGE		8,642	7,800	11,512	2,973	204.29	58.82	145.47

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	46.47	-15.87	3.26	33.86	54.68	20.82

NR-WR	159.72	-35.41	-1.15	123.16	102.97	-20.19
Total	206.19	-51.28	2.11	157.02	145.47	-11.55

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)	-27.54	-23.62		28		0.58	-0.58

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	.6	19.4	73.1	72	7.3	1.3	0	8.6

<-----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.	
50.17	22:00:10	49.76	17:55:10	49.96	0.063	0.067	50.12	49.84	28

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	02:00	411	10:35	0	0	56.25	0	56.25
Amritsar(PG) - 400KV	426	02:00	411	10:35	0	0	52.78	0	52.78
Ballabgarh(PG) - 400KV	425	04:00	399	09:35	0	0	21.53	0	21.53
Bareilly II(PG) - 400KV	417	04:00	397	10:35	0	0	0	0	0
Bareilly(UP) - 400KV	418	04:00	398	10:40	0	0	0	0	0
Baspa(HP) - 400KV	431	02:05	415	17:55	0	0	69.44	1.74	69.44
Bassi(PG) - 400KV	420	04:00	386	09:35	0	3.13	0	0	0
Bawana(DTL) - 400KV	428	04:00	408	10:35	0	0	50.69	0	50.69
Dadri HVDC(PG) - 400KV	423	04:00	423	04:00	5.9	5.9	19.44	0	25.34
Gorakhpur(PG) - 400KV	415	04:00	400	17:55	0	0	0	0	0
Hisar(PG) - 400KV	423	20:45	403	10:35	0	0	20.83	0	20.83
Kanpur(PG) - 400KV	421	04:00	402	09:35	0	0	1.74	0	1.74
Kashipur(UT) - 400KV	402	00:00	402	00:00	0	0	0	0	0
Kishenpur(PG) - 400KV	420	23:45	406	10:35	0	0	1.04	0	1.04
Moga(PG) - 400KV	421	20:00	402	10:35	0	0	1.04	0	1.04
Nallagarh(PG) - 400KV	431	02:05	415	17:55	0	0	69.44	1.74	69.44
Rihand HVDC(PG) - 400KV	406	04:00	406	04:00	6.25	6.25	0	0	6.25
Rihand(NT) - 400KV	405	04:00	405	04:00	5.56	5.56	0	0	5.56

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	04:00	765	09:15	0	0	0	0	0
Balia(PG) - 765KV	782	04:00	755	09:35	0	0	0	0	0
Bareilly II(PG) - 765KV	795	04:00	757	10:40	0	0	0	0	0
Bhiwani(PG) - 765KV	806	20:50	159	06:25	21.18	21.53	5.21	0	26.39
Fatehpur(PG) - 765KV	782	19:55	741	09:35	0	1.74	0	0	0
Jhatikara(PG) - 765KV	803	04:00	758	09:35	0	0	2.08	0	2.08
Lucknow II(PG) - 765KV	792	04:05	757	09:50	0	0	0	0	0
Meerut(PG) - 765KV	806	20:40	755	10:35	0	0	3.47	0	3.47
Moga(PG) - 765KV	798	20:00	749	10:35	0	0	0	0	0
Phagi(RJ) - 765KV	800	04:00	753	09:35	0	0	.35	0	.35
Unnao(UP) - 765KV	775	02:00	740	09:45	0	3.47	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	-1,692.21	295.77	0	-1,692.21	0	0	63.72	-40.61	4.09	27.2
HARYANA	-1,046.49	185.9	0	-987.54	142.27	0	90.82	-26.74	2.82	66.9
RAJASTHAN	-107.24	-287.7	0	-107.24	-398.25	0	68.79	1.99	-4.02	66.76
DELHI	-772.05	-688.71	0	-622.81	-270.82	0	71.39	-18.34	-4.95	48.11
UTTAR PRADESH	19.43	26.28	0	9.5	62.3	0	118.61	-6.7	1.47	113.38
UTTARAKHAND	636.12	-126.58	0	529.05	118.17	0	11.96	13.75	-0.16	25.55
HIMACHAL PRADESH	444.01	-8.1	0	265.78	509.73	0	11.89	11.21	-0.14	22.96
JAMMU & KASHMIR	608.59	98.59	0	608.59	492.95	0	24.7	14.6	4.47	43.77
CHANDIGARH	0	-50.72	0	0	0	0	3.84	0	-0.92	2.92
TOTAL	-1,909.84	-555.27	0	-1,996.88	656.35	0	465.72	-50.84	2.66	417.55

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	3,488.2	2,236.5	-1,692.21	-1,692.21	640.84	-101.43	0	0
HARYANA	4,769.29	2,871.02	-987.54	-1,380.47	187.66	7.83	0	0
RAJASTHAN	4,077.07	2,041	737.93	-107.24	823.43	-1,081.67	0	0
DELHI	3,618.44	2,295.46	-592.22	-905.1	672.38	-728.27	0	0
UTTAR PRADESH	6,366	4,108.33	23.9	-850.79	144.06	-374.18	0	0
UTTARAKHAND	825.38	277.33	636.12	529.05	181.25	-194.99	0	0
HIMACHAL PRADESH	1,123.5	214.69	644.43	265.78	518.45	-546.98	0	0
JAMMU & KASHMIR	1,595.69	758.85	608.59	608.59	542.24	-253.58	0	0
CHANDIGARH	267.47	117.61	0	0	0	-99.91	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	505.64	1,339	500.2	1,101	165.4	418.44
Chamera-I	748.75	760	-	-	-	-	-	0
Gandhisagar	295.78	295.78	-	-	-	-	-	0
Jawahar Sagar	295.78	298.7	-	-	-	-	-	0
Koteshwar	598.5	612.5	610.73	5	610.5	5	216	209.29
Pong	384.05	426.72	416.12	718	411.09	535	72.8	377.86
RPS	343.81	352.8	-	-	-	-	-	0
RSD	487.91	527.91	517.18	5	505.6	4	55.98	144.36
Rihand	252.98	268.22	-	-	-	-	-	0
Tehri	740.04	829.79	815.35	909	812.2	846	49.3	216
TOTAL	-	-	-	2,976	-	2,491	559.48	1,365.95

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	5	37
DELHI	0	11
HARYANA	1	17
HIMACHAL PRADESH	0	11
JAMMU & KASHMIR	2	30
PUNJAB	0	12
RAJASTHAN	1	22
UTTAR PRADESH	0	10
UTTARAKHAND	2	22

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