

JAMMU & KASHMIR

CHANDIGARH

Region

Region

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

25.08

734.93

21.08

7.95

761.37

4,645

19.29

7.19

758.23

61,670

-1.79

-0.76

-3.14

54.89

7.19

1,507.3

622

10.52

14.14

-303

44.37

7.19

1,493.16

6,049

Power Supply Position in Northern Region For 01-Jul-2019

0

0

512.29

25.08

0

110.77

60,969

0

28.08

1. Regional Availability/Demand:

Date of Reporting:02-Jul-2019

	3 () 1 () 1			Off-Peak (03:00) MW				Day Energy(Net MU)		
De	emand Met	Shortage(-)/Surplus(+)	Requirement	Freq (Hz)	Demand Met	Shortage(-)/ Surplus(+)	Requirement	Freq (Hz)	Demand Met	Shortage
	60,971	1,203	62,173	0	61,670	622	62,292	0	1,493	14.14

2(A)State's Load D	eails (At Sta	ate Periphe	ry) in MU:										
			State's Contr	ol Area Ger	eration (N	et MU)		Drawal Sch	Act Drawal	UI	Requirement	Shortage	Consumption
State	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	120.43	21.75	0	4.7	0	1.92	148.81	143.16	141.25	-1.91	290.06	0	290.06
HARYANA	64.38	0.99	0	0.12	0	0.47	65.97	162.31	162.12	-0.19	228.09	0	228.09
RAJASTHAN	119.26	0	1.92	17.38	36.26	4.57	179.4	70.6	68.51	-2.09	247.91	0	247.91
DELHI	0	0	21.42	0	0	0.87	22.29	122.04	122.9	0.86	145.27	0.08	145.19
UTTAR PRADESH	208.22	22.48	0	4.39	0	2.4	237.49	214.29	216.77	2.48	457.79	3.53	454.26
UTTARAKHAND	0	21.69	4.74	0.64	0	0	27.07	18.54	19.39	0.85	46.46	0	46.46
HIMACHAL PRADESH	0	18.78	0	0	0	10.04	28.82	1.4	0.81	-0.59	29.64	0.01	29.63

0

20.27

0

0

36.26

0

27.23

2(B)State Demand Met (Peak and off-peak Hrs) Evening Peak (20:00) MW Off-Peak (03:00) MW STOA/PX Transaction STOA/PX Transaction Shortage(-) /Surplus(+) State **Demand Met** Shortage(-)/Surplus(+)**Demand Met** $\mathbf{U}\mathbf{I}$ PUNJAB 10,460 -400 1,838 12,016 0 40 2,210 HARYANA 9,451 0 2,165 9,586 0 16 -165 2,614 8,812 9,635 RAJASTHAN 0 -71 -59 0 -186 -99 797 1,232 DELHI 5,885 0 226 6,069 0 39 UTTAR PRADESH 20,906 710 252 1,921 19,728 360 53 2,357 UTTARAKHAND 83 2,122 78 1,843 -101 0 12 0 HIMACHAL PRADESH 4 -1,488 1,089 -160 1,039 $\mathbf{0}$ **10** -1,657 JAMMU & KASHMIR 1,956 489 225 -541 1,484 262 -113 -527 288 270 CHANDIGARH 0 -45 0 0 -64 20

121

2(C)State's Demand Met in MWs (Maximum Demand Met and Maximum requirement of the day details)

1,203

2(C)State's Dema		`	emand Met and Maxim		the day details)					
	Maximum Der	nand, corresp	onding shortage and re for the day	quirement details	Maximum	requiremen	t, corresponding shortage	e and demand deta	Min Demand Met 10,254 8,460 8,506 4,826 17,542 1,771 1,024 1,403 221	ay
State	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	Demand	Time
PUNJAB	13,027	15:00	0	13,027	13,027	15:00	0	13,027	10,254	24:00
HARYANA	10,699	15:00	0	10,699	10,699	15:00	0	10,699	8,460	19:00
RAJASTHAN	11,399	15:00	0	11,399	11,399	15:00	0	11,399	8,506	19:00
DELHI	7,135	16:00	0	7,135	7,135	16:00	0	7,135	4,826	9:00
UP	21,165	24:00	410	21,575	21,575	24:00	410	21,165	17,542	6:00
UTTARAKHAND	2,158	21:00	0	2,158	2,158	21:00	0	2,158	1,771	7:00
HP	1,444	16:00	12	1,456	1,456	16:00	12	1,444	1,024	5:00
J&K	2,150	21:00	538	2,688	2,688	21:00	538	2,150	1,403	18:00
CHANDIGARH	376	15:00	0	376	376	15:00	0	376	221	7:00
NR	65,602	16:00	538	66,140	66,140	16:00	538	65,602	58,380	7:00

3(A) State Entities Generation:

CHANDIGARH										
Station/Constituents	Inst. Capacity	N/A	N/A	Day Peak		Day Energy				
Station/Constituents	(MW)	Peak MW	Off Peak MW	(MW) Hrs		(MU)	AVG. MW			
NIL			•							
Total	0	0	0			0	0			
Total	0	0	0			0	0			

DELHI							
	Inst. Capacity	20:00	03:00	Day Peal	k	Day Energy	
Station/Constituents	(MW)	Peak MW	Off Peak MW	(MW)	Hrs	(MU)	AVG. MW
BADARPUR TPS(2 * 210 + 3 * 100)	1,005	0	0	0			
RAJGHAT TPS(2 * 67.5)	135	0	0	0			
Total THERMAL	1,140	0	0			0	0
BAWANA GPS(2 * 253 + 4 * 216)	1,370	504	467	591		11.95	498
DELHI GAS TURBINES (3 * 34 + 6 * 30)	282	156	104	158		3.05	127
PRAGATI GAS TURBINES(1 * 121.2 + 2 * 104.6)	452	264	260	279.11		6.42	268
RITHALA GPS(3*36)	108	0	0	0			
Total GAS/NAPTHA/DIESEL	2,212	924	831			21.42	893
WIND	0	0	0	0			
BIOMASS(16)	16	31	31	36.01		0.87	36
SOLAR(2)	2	0	0	0			
Total DELHI	3,370	955	862			22.29	929

HARIYANA							
	Inst. Capacity	20:00	03:00	Day Pea	k	Day Energy	
Station/Constituents	(MW)	Peak MW	Off Peak MW	(MW)	Hrs	(MU)	AVG. MW
DCRTPP (YAMUNA NAGAR)(2 * 300)	600	512	542	572	22:00	12.33	514
JHAJJAR(CLP)(2 * 660)	1,320	740	929	1,231	23:00	22.45	935
MAGNUM DIESEL (IPP)(4 * 6.3)	25	0	0	0			
PANIPAT TPS(2 * 210 + 2 * 250)	920	395	394	455	22:00	9.93	414
RGTPP(KHEDAR)(2 * 600)	1,200	761	756	1,146	16:00	19.68	820
Total THERMAL	4,065	2,408	2,621			64.39	2,683
FARIDABAD GPS(1 * 156.07 + 2 * 137.75)	432	0	0	0			
Total GAS/NAPTHA/DIESEL	432	0	0			0	0
TOTAL HYDRO HARYANA(64.8)	65	34	37	40	06:00	0.99	41
Total HYDEL	65	34	37			0.99	41
WIND	0	0	0	0			
BIOMASS(106)	106	0	0	0		0.47	20
SOLAR(55.8)	56	0	0	0		0.12	5
Total HARYANA	4,724	2,442	2,658			65.97	2,749

HIMACHAL PRADESH							
	Inst. Capacity	20:00	03:00	Day Peal	k	Day Energy	
Station/Constituents	(MW)	Peak MW	Off Peak MW	(MW)	Hrs	(MU)	AVG. MW
BASPA (IPP) HPS(3 * 100)	300	330	330	330	01:00	7.92	330
MALANA (IPP) HPS(2 * 43)	86	86	77	87	21:00	1.78	74
OTHER HYDRO HP(372)	372	387	382	0		9.08	378
Total HYDEL	758	803	789			18.78	782
WIND	0	0	0	0			
BIOMASS	0	0	0	0			
SOLAR	0	0	0	0			
SMALL HYDRO(486)	486	471	421	0		10.04	418
Total SMALL HYDRO	486	471	421			10.04	418
Total HP	1,244	1,274	1,210			28.82	1,200

JAMMU & KASHMIR							
	Inst. Capacity	20:00	03:00	Day Peal	k	Day Energy	
Station/Constituents	(MW)	Peak MW	Off Peak MW	(MW)	Hrs	(MU)	AVG. MW
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	882	882	0		21.18	883
OTHER HYDRO/IPP J&K(308)	308	175	154	0		3.91	163
Total HYDEL	1,208	1,057	1,036			25.09	1,046
WIND	0	0	0	0			
BIOMASS	0	0	0	0			
SOLAR	0	0	0	0			
SMALL HYDRO(98)	98	0	0	0			
Total SMALL HYDRO	98	0	0			0	0
Total J&K	1,496	1,057	1,036			25.09	1,046

PUNJAB							
	Inst. Capacity	20:00	03:00	Day Peal	k	Day Energy	
Station/Constituents	(MW)	Peak MW	Off Peak MW	(MW)	Hrs	(MU)	AVG. MW
GOINDWAL(GVK)(2 * 270)	540	297	491	491		10.92	455
GURU GOBIND SINGH TPS (ROPAR)(6 * 210)	1,260	677	769	769		17.41	725
GURU HARGOBIND SINGH TPS (LEHRA MOHABBAT)(2 * 210 + 2 * 250)	920	655	854	861		19.06	794
GURU NANAK DEV TPS (BHATINDA)(4 * 110)	440	0	0	0		0.01	0
RAJPURA(NPL) TPS(2 * 700)	1,400	1,055	1,320	1,320		31.27	1,303
TALWANDI SABO TPS(3 * 660)	1,980	1,288	1,841	1,841		41.76	1,740
Total THERMAL	6,540	3,972	5,275			120.43	5,017
ANANADPUR SAHIB HYDRO PLANT(2 * 33.5 + 2 * 33.5)	134	0	0	0			
MUKERIAN HYDRO PLANT(6 * 15 + 6 * 19.5 + 2 * 9)	225	0	0	0			
RANJIT SAGAR POWER PLANT (4 * 150)	600	0	0	0			
SHANAN(4 * 15 + 1 * 50)	110	0	0	0			
UBDC(3 * 15 + 3 * 15.5)	92	0	0	0			
OTHER HYDRO PUNJAB	0	744	961	1,094		21.75	906
Total HYDEL	1,161	744	961			21.75	906
WIND	0	0	0	0			
BIOMASS(303)	303	0	0	0		1.92	80
SOLAR(859)	859	0	0	511		4.7	196
Total PUNJAB	8,863	4,716	6,236			148.8	6,199

RAJASTHAN							
	Inst. Capacity	20:00	03:00	Day Pea	ak	Day Energy	
Station/Constituents	(MW)	Peak MW	Off Peak MW	(MW)	Hrs	(MU)	AVG. MW
BARSINGSAR (IPP) LTPS(2 * 125)	250	130	112	0		2.94	123
CHHABRA TPS(1 * 660 + 4 * 250)	1,660	1,026	1,134	0		26.03	1,085
GIRAL (IPP) LTPS(2 * 125)	250	0	0	0			
KALISINDH TPS(2 * 600)	1,200	872	871	0		21.94	914
KAWAI TPS(2 * 660)	1,320	446	440	0		11.81	492
KOTA TPS(2 * 110 + 2 * 195 + 3 * 210)	1,240	899	887	0		21.85	910
RAJWEST (IPP) LTPS(8 * 135)	1,080	413	436	0		12.72	530
SURATGARH TPS (6 * 250)	1,500	901	755	0		20.84	868
VSLPP (IPP)(1 * 135)	135	49	47	0		1.13	47
Total THERMAL	8,635	4,736	4,682			119.26	4,969
DHOLPUR GPS(3*110)	330	0	0	0			
RAMGARH GPS(1 * 110 + 1 * 35.5 + 1 * 50 + 2 * 37.5)	271	79	80	0		1.92	80
Total GAS/NAPTHA/DIESEL	601	79	80			1.92	80
RAPS-A(1 * 100 + 1 * 200)	300	170	168	0		3.96	165
Total NUCLEAR	300	170	168			3.96	165
TOTAL HYDRO RAJASTHAN(550)	550	0	0	0			
Total HYDEL	550	0	0			0	0
WIND	4,292	1,079	2,008	0		36.26	1,511
BIOMASS(102)	102	26	26	0		0.62	26
SOLAR(3045)	3,045	20	0	0		17.38	724
Total RAJASTHAN	17,525	6,110	6,964			179.4	7,475

UTTAR PRADESH							
	Inst. Capacity	20:00	03:00	Day Pea	k	Day Energy	
Station/Constituents	(MW)	Peak MW	Off Peak MW	(MW)	Hrs	(MU)	AVG. MW
ANPARA TPS(2 * 500 + 3 * 210)	1,630	1,375	1,347	0		32.79	1,366
ANPARA-C TPS(2 * 600)	1,200	1,064	1,073	0		25.66	1,069
ANPARA-D TPS(2 * 500)	1,000	462	462	0		10.65	444
BAJAJ ENERGY PVT LTD (IPP) TPS(10 * 45)	450	0	0	0			
BARA PPGCL TPS(3 * 660)	1,980	483	1,320	0		32.42	1,351
HARDUAGANJ TPS(1 * 105 + 1 * 60 + 2 * 250)	665	207	211	0		5.05	210
LALITPUR TPS(3 * 660)	1,980	1,855	1,213	0		30.8	1,283
MEJA TPS(1 * 660)	660	417	416	0		10.02	418
OBRA TPS (2 * 94 + 5 * 200)	1,188	471	475	0		11.42	476
PANKI TPS(2 * 105)	210	0	0	0			
PARICHA TPS(2 * 110 + 2 * 210 + 2 * 250)	1,380	666	647	0		15.7	654
ROSA TPS(4 * 300)	1,200	1,092	1,078	0		25.6	1,067
TANDA TPS(4 * 110)	440	265	384	0		8.11	338
TANDA TPS STAGE-II(1 * 660)	660	0	0	0			
Total THERMAL	14,643	8,357	8,626			208.22	8,676
ALAKHANANDA HEP(4 * 82.5)	330	299	330	0		7.71	321
VISHNUPARYAG HPS(4*110)	440	436	436	0		10.44	435
OTHER HYDRO UP(527)	527	209	198	0		4.33	180
Total HYDEL	1,297	944	964			22.48	936
WIND	0	0	0	0			
BIOMASS(26)	26	0	0	0			
SOLAR(798)	798	0	0	0		4.39	183
CO-GENERATION(1360)	1,360	100	100	0		2.4	100
Total OTHERs	1,360	100	100			2.4	100
Total UP	18,124	9,401	9,690			237.49	9,895

UTTARAKHAND							
	Inst. Capacity	20:00	03:00	Day Pea	eak Day Energy		
Station/Constituents	(MW)	Peak MW	Off Peak MW	(MW)	Hrs	(MU)	AVG. MW
TOTAL GAS UK(450)	450	245	180	270	22:00	4.74	198
Total GAS/NAPTHA/DIESEL	450	245	180			4.74	198
OTHER HYDRO UK(1250)	1,250	913	871	938	15:00	21.69	904
Total HYDEL	1,250	913	871			21.69	904
WIND	0	0	0	0			
BIOMASS(127)	127	0	0	0			
SOLAR(100)	100	0	0	94	13:00	0.64	27
SMALL HYDRO(180)	180	0	0	0			
Total SMALL HYDRO	180	0	0			0	0
Total UTTARAKHAND	2,107	1,158	1,051			27.07	1,129

	Inst. Capacity	Declared Capacity	20:00	03:00	Day	Peak	Da	y Energy		
Station/Constituents	(MW)	(MW)	Peak MW	Off Peak MW	(MW)	Hrs	SCHD (MU)	ACT (MU)	AVG. MW	UI
ravali Power Company Private	e Ltd									
ISTPP (JHAJJAR)(3 * 500)	1,500	1,413.75	1,487	835	1,507	20:34	24.45	24.8	1,033	0.35
Sub-Total	1,500	1,413.75	1,487	835	-	-	24.45	24.8	1,033	0.35
BBMB					1	1		-		
BHAKRA HPS(2 * 108 + 3 * 126 + 5 * 157)	1,379	1,350	1,366	981	1,366	20:00	28.04	28.15	1,173	0.11
DEHAR HPS (6 * 165)	990	625	700	605	700	20:00	14.19	14.49	604	0.3
PONG HPS(6 * 66)	396	308	320	65	320	20:00	4.69	4.68	195	-0.01
Sub-Total	2,765	2,283	2,386	1,651	-	-	46.92	47.32	1,972	0.4
HPC										
BAIRASIUL HPS(3 * 60)	180	0	0	0	0	-	0	-	-	0
CHAMERA HPS(3 * 180)	540	555	542	542	545	06:30	12.8	12.88	537	0.08
CHAMERA II HPS(3 * 100)	300	303	304	304	307	10:00	7.2	7.26	303	0.06
CHAMERA III HPS(3 * 77)	231	237	238	234	238	01:00	5.56	5.57	232	0.01
DHAULIGANGA HPS(4*70)	280	291	289	284	290	21:00	6.64	6.72	280	0.08
DULHASTI HPS(3*130)	390	328	331	327	331	20:00	7.7	7.71	321	0.01
KISHANGANGA(3*110)	330	218	220	219	221	13:00	5.2	5.2	217	0
PARBATI III HEP(4 * 130)	520	150	507	16	507	20:00	3.42	3.44	143	0.02
SALAL HPS(6 * 115)	690	690	730	720	730	13:00	16.19	16.73	697	0.02
SEWA-II HPS(3 * 40)	120	130	124	122	124	20:00	1.8	1.82	76	0.54
SEWA-II HPS(3 * 40) TANAKPUR HPS(1 * 31.42 + 2 *										
31.4)	94	90	96	94	97	19:00	2.14	2.2	92	0.06
URI HPS(4 * 120)	480	489	480	480	484	00:00	11.43	11.51	480	0.08
URI-II HPS(4 * 60)	240	240	246	244	246	20:00	5.78	5.82	243	0.04
Sub-Total	4,395	3,721	4,107	3,586	-	-	85.86	86.86	3,621	1
NPCL		Γ	Г		1				1 1	
NAPS(2 * 220)	440	371	398	412	417	04:00	8.9	8.9	371	0
RAPS-B(2 * 220)	440	343	388	390	391	07:00	8.23	8.29	345	0.06
RAPS-C(2 * 220)	440	412	457	457	458	19:00	9.89	9.89	412	0
Sub-Total	1,320	1,126	1,243	1,259	-	-	27.02	27.08	1,128	0.06
VTPC			I			1		Γ	т т	
ANTA GPS(1 * 153.2 + 3 * 88.71)	419	341	45	0	85	23:40	0.18	0.16	7	-0.02
AURAIYA GPS(2 * 109.3 + 4 * 111.19)	663	525	0	0	0	-	0	-	-	0
DADRI GPS(2 * 154.51 + 4 * 130.19)	830	220	109	113	249	-	3.01	2.98	124	-0.03
DADRI SOLAR(5)	5	0	0	0	3	13:02	0.02	0.02	1	0
DADRI-I TPS(4 * 210)	840	768.6	0	0	0	-	12.04	11.63	485	-0.41
DADRI-II TPS(2 * 490)	980	928.55	0	0	0	-	17.7	17.31	721	-0.39
KOLDAM HPS(4 * 200)	800	872	875	858	875	09:00	20.93	21	875	0.07
RIHAND-I STPS(2 * 500)	1,000	280	298	322	298	20:00	6.99	6.64	277	-0.35
RIHAND-II STPS(2 * 500)	1,000	471.25	506	489	506	20:00	11.31	11.23	468	-0.08
RIHAND-III STPS(2 * 500)	1,000	942.5	1,000	1,024	1,000	20:00	22.62	22.75	948	0.13
SINGRAULI STPS(2 * 500 + 5 *	2,000	1,720	1,859	1,883	1,859	20:00	41.38	40.83	1,701	-0.55
200) SINGRAULI SOLAR(15)	15	0	0	0	0	-	0.05	0.06	3	0.01
UNCHAHAR I(2 * 210)	420	300	318	342	318	20:00	7.38	7.01	292	-0.37
. , ,						-				
UNCHAHAR II TPS(2 * 210)	420	191.1	208	190	208	20:00	3.88	3.91	163	0.03
UNCHAHAR III TPS(1 * 210)	210	191.1	205	209	205	20:00	3.92	3.96	165	0.04
UNCHAHAR IV TPS(1 * 500)	500	471.25	483	452	483	20:00	10.3	10.16	423	-0.14
UNCHAHAR SOLAR(10)	10	0	0	0	0	-	0.05	0.05	2	0
Sub-Total	11,112	8,222.35	5,906	5,882	-	-	161.76	159.7	6,655	-2.06
JVNL NATHPA-JHAKRI HPS(6 * 250		Γ	Γ		ı	1				
131111 A-311AKKI HF3(0 * 250	1,500	1,605	1,620	1,605	1,630	15:00	38.52	38.4	1,600	-0.12
)	412	442	444	436	447	15:00	10.61	10.59	441	-0.02
RAMPUR HEP(6 * 68.67)			2,064	2,041	-	-	49.13	48.99	2,041	-0.14
Sub-Total	1,912	2,047	2,004							
Sub-Total PHDC	1,912	,	,			T				
Sub-Total	1,912	2,047	404	188	407	19:00	4.41	4.45	185	0.04
Sub-Total PHDC	,	,	,	188 493	407 504	19:00 20:00	4.41 8.34	4.45 8.37	185 349	0.04

		Inst. Capacity	Declared Ca	apacity	20:00	03:00	Day	Peak	Da	ny Energy		
Station/Constit	tuents	(MW)	(MW)	Peak MW	Off Peak MW	(MW)	Hrs	SCHD (MU)	ACT (MU)	AVG. MW	UI
IPP						141 44			(MC)			
						100				1.5	405	
ADHPL(IPP) HP	` ′	192	0		224	199	226	22:00	4.44	4.61	192	0.17
BUDHIL HPS (IP		70	0		38	38	38	19:00	0.9	0.91	38	0.01
KARCHAM WANG * 250)	TOO HPS(4	1,000	0		1,100	1,100	1,100	20:00	26.08	26.29	1,095	0.21
MALANA2(2	2 * 50)	100	0		100	80	105	21:00	1.98	2.1	88	0.12
SAINJ HEP(2	2 * 50)	100	0		108	102	108	08:00	2.44	2.46	103	0.02
SHREE CEMENT (I	· · ·											
150)	,(300	0		131	80	147	21:00	2.34	2.28	95	-0.06
Sub-Total		1,762	0		1,701	1,599	•	-	38.18	38.65	1,611	0.47
SOLAR IPP	INDIA DVT		ı			1		1		1	1	
AZURE POWER I LTD.(4 * 5	50)	200	0		0	0	74	13:15	0.73	0.67	28	-0.06
RENEW SOLAR PO LTD(50		50	0		0	0	25	12:36	0.16	0.19	8	0.03
SB ENERGY FOUR * 100)	R PVT LTD(2	200	0		0	0	101	12:25	0.74	0.76	32	0.02
Sub-Total		450	0		0	0	-	-	1.63	1.62	68	-0.01
Total		2,212	0		1,701	1,599			39.81	40.27	1,679	0.46
Summary Section												
Summary Section			Inst. Cap	acity	PEAK		OFF-PEAK		Da	ny Energy	Day	y AVG.
Total State Control A	Area Generatio	on .	57,45	·	27,113		29,707			734.93		0,622
J. Net Inter Regional					13,371		13,990			336.89		6,523
(+ve)/Export (-ve)]					·							
Total Regional Availa	ability(Gross)		84,06	9	60,286		61,231			1,519.66	6	5,805
Total Hydro Generat	tion											
			Inst. Cap	•	PEAK		OFF-PEAK			ny Energy		y AVG.
Regional Entities Hyo			12,73		11,910		10,336			253.36		0,557
State Control Area H	•		6,289		4,495		4,658			110.78		,616
Total Regional Hydro	0		19,02	3	16,405		14,994			364.14	1	5,173
Total Renewable Gen	neration											
			Inst. Cap	acity	PEAK		OFF-PEAK		Da	ny Energy	Day	y AVG.
Regional Entities Ren			480		0		0			1.75		73
State Control Area R			10,59		1,627		2,486			77.41		3,225
Total Regional Renev	wable		11,07	6	1,627		2,486			79.16	3	3,298
4(A) INTER-REGI	IONAL EXC	CHANGES	(Import=(+ve) /		02.00			1 0 000		1		
SL.No.		Element	:	20:00 (MW)	03:00 MW		Maximum Inter	Export (1	ATS ()	Import in MU	Export in	NET
				` ′	between EAST REGIO	•	rt (MW)	Export (1	vi vv)		MU	
1	132KV-Garh	uvo Dihand		-	- LAST KEGIC	1				_		
	132KV-Garn	iwa-Kinana			-		-	-			-	•
2			Sahunuri(UP)	-	-		-	-		0.48	0	0.48
	132KV-Karn	nnasa (PG)-S	,unupuri(er)									-0.54
3	132KV-Karn 132KV-Rihar			-29	-25		-	32		0	0.54	-0.54
3 4		nd-Sonnagar	· (PG)	-29 199	-25 165		99	32		3.67	0.54	3.67
	132KV-Riha	nd-Sonnagar uli (PG)-Sah	· (PG) upuri(UP)			1				-		
4	132KV-Rihan 220KV-Pusan 400KV-Bihan	nd-Sonnagar uli (PG)-Sah rsharif (PG)-	· (PG) upuri(UP)	199	165	1	99	0		3.67	0	3.67
5 6	132KV-Rihai 220KV-Pusai 400KV-Bihai	nd-Sonnagar uli (PG)-Sah rsharif (PG)- rsharif (PG)-	upuri(UP) Balia(PG) Varanasi(PG)	199 356 -94	165 373 -101	4	99	0 0 127		3.67 8.78	0 0 1.43	3.67 8.78 -1.43
4 5 6 7	132KV-Rihai 220KV-Pusai 400KV-Bihai 400KV-Bihai 400KV-Motil	nd-Sonnagar uli (PG)-Sah rsharif (PG)- rsharif (PG)- hari (DMT)-	(PG) upuri(UP) Balia(PG)	199 356 -94 -278	165 373 -101 -314	4	99 109 12	0 0 127 352		3.67 8.78 0	0 0 1.43 6.18	3.67 8.78 -1.43 -6.18
5 6	132KV-Rihai 220KV-Pusai 400KV-Bihai	nd-Sonnagar uli (PG)-Sah rsharif (PG)- rsharif (PG)- hari (DMT)- affarpur	upuri(UP) Balia(PG) Varanasi(PG)	199 356 -94	165 373 -101	4	99 109 12	0 0 127		3.67 8.78 0	0 0 1.43	3.67 8.78 -1.43
4 5 6 7	132KV-Rihai 220KV-Pusai 400KV-Bihai 400KV-Bihai 400KV-Motil	nd-Sonnagar uli (PG)-Sah rsharif (PG)- rsharif (PG)- hari (DMT)- affarpur npur(UP)	e (PG) upuri(UP) Balia(PG) Varanasi(PG) Gorakhpur(UP)	199 356 -94 -278	165 373 -101 -314	1 4	99 109 12	0 0 127 352		3.67 8.78 0	0 0 1.43 6.18	3.67 8.78 -1.43 -6.18
4 5 6 7 8	132KV-Rihai 220KV-Pusai 400KV-Bihai 400KV-Motil 400KV-Muzi (PG)-Goraki	nd-Sonnagar uli (PG)-Sah rsharif (PG)- rshari (DMT)- affarpur apur(UP) a (PG)-Balia	r (PG) upuri(UP) Balia(PG) Varanasi(PG) Gorakhpur(UP)	199 356 -94 -278 296	165 373 -101 -314 298	5 1,	99 109 12 0	0 0 127 352		3.67 8.78 0 0 10.14	0 0 1.43 6.18	3.67 8.78 -1.43 -6.18 10.14
4 5 6 7 8 9	132KV-Rihai 220KV-Pusai 400KV-Bihai 400KV-Motil 400KV-Muza (PG)-Gorakh 400KV-Patna	nd-Sonnagar uli (PG)-Sah rsharif (PG)- rsharif (DMT)- affarpur affarpur tpur(UP) a (PG)-Baliac ram-Allahab	r (PG) upuri(UP) Balia(PG) Varanasi(PG) Gorakhpur(UP) (PG) ad (PG)	199 356 -94 -278 296 918	165 373 -101 -314 298 968	5 1,	99 009 112 0 660	0 0 127 352 0		3.67 8.78 0 0 10.14 23.73	0 0 1.43 6.18 0	3.67 8.78 -1.43 -6.18 10.14 23.73
4 5 6 7 8 9 10	132KV-Rihai 220KV-Pusai 400KV-Bihai 400KV-Motil 400KV-Muza (PG)-Goraki 400KV-Patna 400KV-Sasai	nd-Sonnagar uli (PG)-Sah rsharif (PG)- rshari (DMT)- affarpur apur(UP) a (PG)-Baliar ram-Allahab	r (PG) upuri(UP) Balia(PG) Varanasi(PG) Gorakhpur(UP) (PG) ad (PG) si (PG)	199 356 -94 -278 296 918 76 265	165 373 -101 -314 298 968 78 261	5 1,	99 009 112 0 660 109 20	0 0 127 352 0 0 0		3.67 8.78 0 0 10.14 23.73 1.95 6.13	0 0 1.43 6.18 0 0	3.67 8.78 -1.43 -6.18 10.14 23.73 1.95 6.13
4 5 6 7 8 9 10 11	132KV-Rihan 220KV-Pusan 400KV-Bihan 400KV-Motil 400KV-Motil 400KV-Muza (PG)-Gorakh 400KV-Sasan 400KV-Sasan 765KV-Fatel	nd-Sonnagar uli (PG)-Sah rsharif (PG)- rsharif (PG)- hari (DMT)- affarpur upur(UP) a (PG)-Baliar ram-Allahab ram-Varanas	r (PG) upuri(UP) Balia(PG) Varanasi(PG) Gorakhpur(UP) (PG) ad (PG) si (PG)	199 356 -94 -278 296 918 76 265 -207	165 373 -101 -314 298 968 78 261 -110	55 1,	99 109 112 0 660 1109 20 669	0 0 127 352 0 0 0 0 270		3.67 8.78 0 0 10.14 23.73 1.95 6.13 0	0 0 1.43 6.18 0 0 0 2.16	3.67 8.78 -1.43 -6.18 10.14 23.73 1.95 6.13 -2.16
4 5 6 7 8 9 10 11 12	132KV-Rihai 220KV-Pusai 400KV-Bihai 400KV-Motil 400KV-Muzi (PG)-Gorakh 400KV-Patna 400KV-Sasai 400KV-Sasai 765KV-Fatel	nd-Sonnagar uli (PG)-Sah rsharif (PG)- rshari (DMT)- affarpur npur(UP) a (PG)-Balia ram-Allahab ram-Varanas npur (PG)-Sa a (PG)-Balia((PG) upuri(UP) Balia(PG) Varanasi(PG) Gorakhpur(UP) (PG) ad (PG) si (PG) asaram. PG)	199 356 -94 -278 296 918 76 265 -207 529	165 373 -101 -314 298 968 78 261 -110 562	5 1, 1, 2	99 109 112 0 160 109 20 20 269 59	0 0 127 352 0 0 0 0 270		3.67 8.78 0 0 10.14 23.73 1.95 6.13 0 11.98	0 0 1.43 6.18 0 0 0 0 2.16	3.67 8.78 -1.43 -6.18 10.14 23.73 1.95 6.13 -2.16 11.98
4 5 6 7 8 9 10 11 12 13	132KV-Rihai 220KV-Pusai 400KV-Bihai 400KV-Motil 400KV-Muza (PG)-Goraki 400KV-Patna 400KV-Sasai 400KV-Sasai 765KV-Fatel 765KV-Gaya	nd-Sonnagar uli (PG)-Sah rsharif (PG)- rshari (DMT)- affarpur upur(UP) a (PG)-Baliauram-Allahab ram-Varanas upur (PG)-Sa a (PG)-Baliauram-QG-Sa a (PG)-Baliauram-QG-Sa	P(PG) upuri(UP) Balia(PG) Varanasi(PG) Gorakhpur(UP) (PG) ad (PG) si (PG) asaram. PG) assi(PG)	199 356 -94 -278 296 918 76 265 -207 529 -306	165 373 -101 -314 298 968 78 261 -110 562 -263	1 4 4 5 5 1, 1 1 2 2 5 5 3 3	99 109 112 0 160 109 20 269 59 662	0 0 127 352 0 0 0 270 0		3.67 8.78 0 0 10.14 23.73 1.95 6.13 0 11.98 7.38	0 0 1.43 6.18 0 0 0 2.16 0	3.67 8.78 -1.43 -6.18 10.14 23.73 1.95 6.13 -2.16 11.98 7.38
4 5 6 7 8 9 10 11 12	132KV-Rihai 220KV-Pusai 400KV-Bihai 400KV-Motil 400KV-Muzi (PG)-Gorakh 400KV-Patna 400KV-Sasai 400KV-Sasai 765KV-Fatel	nd-Sonnagar uli (PG)-Sah rsharif (PG)- rshari (DMT)- affarpur upur(UP) a (PG)-Baliauram-Allahab ram-Varanas upur (PG)-Sa a (PG)-Baliauram-QG-Sa a (PG)-Baliauram-QG-Sa	P(PG) upuri(UP) Balia(PG) Varanasi(PG) Gorakhpur(UP) (PG) ad (PG) si (PG) asaram. PG) assi(PG)	199 356 -94 -278 296 918 76 265 -207 529	165 373 -101 -314 298 968 78 261 -110 562	1 4 4 5 5 1, 1 1 2 2 5 5 3 3	99 109 112 0 160 109 20 20 269 59	0 0 127 352 0 0 0 0 270		3.67 8.78 0 0 10.14 23.73 1.95 6.13 0 11.98	0 0 1.43 6.18 0 0 0 0 2.16	3.67 8.78 -1.43 -6.18 10.14 23.73 1.95 6.13 -2.16 11.98
4 5 6 7 8 9 10 11 12 13 14	132KV-Rihai 220KV-Pusai 400KV-Bihai 400KV-Motil 400KV-Muza (PG)-Goraki 400KV-Patna 400KV-Sasai 400KV-Sasai 765KV-Fatel 765KV-Gaya	nd-Sonnagar uli (PG)-Sah rsharif (PG)- rsharif (DMT)- affarpur npur (UP) a (PG)-Baliac ram-Allahab ram-Varanas npur (PG)-Sa i (PG)-Baliac a (PG)-Varan	P(PG) upuri(UP) Balia(PG) Varanasi(PG) Gorakhpur(UP) (PG) ad (PG) si (PG) asaram. PG) assi(PG)	199 356 -94 -278 296 918 76 265 -207 529 -306	165 373 -101 -314 298 968 78 261 -110 562 -263	5 1, 1, 2 5 3 1,	99 109 112 0 160 109 20 269 59 662	0 0 127 352 0 0 0 270 0		3.67 8.78 0 0 10.14 23.73 1.95 6.13 0 11.98 7.38	0 0 1.43 6.18 0 0 0 2.16 0	3.67 8.78 -1.43 -6.18 10.14 23.73 1.95 6.13 -2.16 11.98 7.38
4 5 6 7 8 9 10 11 12 13 14 15	132KV-Rihan 220KV-Pusan 400KV-Bihan 400KV-Motil 400KV-Muzz (PG)-Gorakh 400KV-Sasan 400KV-Sasan 765KV-Fateh 765KV-Gaya 765KV-Gaya	nd-Sonnagar uli (PG)-Sah rsharif (PG)- rsharif (DMT)- affarpur npur (UP) a (PG)-Baliac ram-Allahab ram-Varanas npur (PG)-Sa i (PG)-Baliac a (PG)-Varan	P(PG) upuri(UP) Balia(PG) Varanasi(PG) Gorakhpur(UP) (PG) ad (PG) si (PG) asaram. PG) assi(PG)	199 356 -94 -278 296 918 76 265 -207 529 -306 1,400 3,125	165 373 -101 -314 298 968 78 261 -110 562 -263 1,000	1 4 4 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	99 109 112 0 109 20 169 169 162 1997 400 1096	0 0 127 352 0 0 0 270 0 0 0		3.67 8.78 0 0 10.14 23.73 1.95 6.13 0 11.98 7.38 27.72	0 0 1.43 6.18 0 0 0 2.16 0	3.67 8.78 -1.43 -6.18 10.14 23.73 1.95 6.13 -2.16 11.98 7.38 27.72
4 5 6 7 8 9 10 11 12 13 14	132KV-Rihai 220KV-Pusai 400KV-Bihai 400KV-Bihai 400KV-Muzi (PG)-Goraki 400KV-Patni 400KV-Sasai 400KV-Sasai 765KV-Gayai 765KV-Gayai HVDC800KV -Total EAST	nd-Sonnagar uli (PG)-Sah rsharif (PG)- rshari (DMT)- affarpur upur(UP) a (PG)-Baliar ram-Allahab ram-Varanas npur (PG)-Sa i (PG)-Balia(n (PG)-Varan V-Alipurdua	P(PG) upuri(UP) Balia(PG) Varanasi(PG) Gorakhpur(UP) (PG) ad (PG) si (PG) asaram. PG) assi(PG)	199 356 -94 -278 296 918 76 265 -207 529 -306 1,400 3,125	165 373 -101 -314 298 968 78 261 -110 562 -263 1,000 2,892	5 5 1, 1 1 2 2 5 5 3 3 1, 5 5, EGION and M	99 109 112 0 109 20 169 169 162 1997 400 1096	0 0 127 352 0 0 0 270 0 0 0		3.67 8.78 0 0 10.14 23.73 1.95 6.13 0 11.98 7.38 27.72	0 0 1.43 6.18 0 0 0 2.16 0	3.67 8.78 -1.43 -6.18 10.14 23.73 1.95 6.13 -2.16 11.98 7.38 27.72
4 5 6 7 8 9 10 11 12 13 14 15 Sub-	132KV-Rihai 220KV-Pusai 400KV-Bihai 400KV-Bihai 400KV-Motil 400KV-Muzi (PG)-Goraki 400KV-Patna 400KV-Sasai 400KV-Sasai 765KV-Gaya 765KV-Gaya HVDC800KV -Total EAST	nd-Sonnagar uli (PG)-Sah rsharif (PG)- rsharif (PG)- hari (DMT)- affarpur npur(UP) a (PG)-Baliar ram-Allahab ram-Varanas npur (PG)-Sa i (PG)-Balia(i (PG)-Varan V-Alipurdua r REGION V-Biswanath	r (PG) upuri(UP) Balia(PG) Varanasi(PG) Gorakhpur(UP) (PG) ad (PG) si (PG) asaram. PG) hasi(PG) r-Agra (PG) Charialli-Agra	199 356 -94 -278 296 918 76 265 -207 529 -306 1,400 3,125 Import/Export betw	165 373 -101 -314 298 968 78 261 -110 562 -263 1,000 2,892 een NORTH_EAST RI 600	5 5 1, 1 2 2 5 5 3 1, 5 5, EGION and N	99 109 112 0 160 109 20 169 169 162 197 400 109 109 109 109 109 109 109 1	0 0 127 352 0 0 0 270 0 0 781		3.67 8.78 0 0 10.14 23.73 1.95 6.13 0 11.98 7.38 27.72 101.96	0 0 1.43 6.18 0 0 0 2.16 0 0 10.31	3.67 8.78 -1.43 -6.18 10.14 23.73 1.95 6.13 -2.16 11.98 7.38 27.72 91.65
4 5 6 7 8 9 10 11 12 13 14 15 Sub-	132KV-Rihai 220KV-Pusai 400KV-Bihai 400KV-Bihai 400KV-Muzi (PG)-Goraki 400KV-Patni 400KV-Sasai 400KV-Sasai 765KV-Gayai 765KV-Gayai HVDC800KV -Total EAST	nd-Sonnagar uli (PG)-Sah rsharif (PG)- rsharif (PG)- hari (DMT)- affarpur npur(UP) a (PG)-Baliar ram-Allahab ram-Varanas npur (PG)-Sa i (PG)-Balia(i (PG)-Varan V-Alipurdua r REGION V-Biswanath	r (PG) upuri(UP) Balia(PG) Varanasi(PG) Gorakhpur(UP) (PG) ad (PG) si (PG) asaram. PG) hasi(PG) r-Agra (PG) Charialli-Agra	199 356 -94 -278 296 918 76 265 -207 529 -306 1,400 3,125 Import/Export betw	165 373 -101 -314 298 968 78 261 -110 562 -263 1,000 2,892 een NORTH_EAST RI 600 600	1 4 4 5 5 5 1, 1 1 5 5, EGION and M	99 109 112 0 160 109 20 20 269 59 662 997 400 096 GORTH REGIO	0 0 127 352 0 0 0 270 0 0 0 781		3.67 8.78 0 0 10.14 23.73 1.95 6.13 0 11.98 7.38 27.72 101.96	0 0 1.43 6.18 0 0 0 2.16 0 0 10.31	3.67 8.78 -1.43 -6.18 10.14 23.73 1.95 6.13 -2.16 11.98 7.38 27.72 91.65
4 5 6 7 8 9 10 11 12 13 14 15 Sub-Tota	132KV-Rihan 220KV-Pusan 400KV-Bihan 400KV-Bihan 400KV-Muzan (PG)-Gorakh 400KV-Patna 400KV-Sasan 400KV-Sasan 765KV-Gayan 765KV-Gayan HVDC800KV -Total EAST HVDC800KV (PG)	nd-Sonnagar uli (PG)-Sah rsharif (PG)- rsharif (PG)- hari (DMT)- affarpur npur(UP) a (PG)-Baliar ram-Allahab ram-Varanas npur (PG)-Sa a (PG)-Balia(a (PG)-Varan V-Alipurdua F REGION V-Biswanath	r (PG) upuri(UP) Balia(PG) Varanasi(PG) Gorakhpur(UP) (PG) ad (PG) si (PG) asaram. PG) assi(PG) r-Agra (PG) Charialli-Agra	199 356 -94 -278 296 918 76 265 -207 529 -306 1,400 3,125 Import/Export betw 500 Import/Export	165 373 -101 -314 298 968 78 261 -110 562 -263 1,000 2,892 een NORTH_EAST RI 600 600 between WEST REGIO	1 4 4 5 5 5 1, 1 1 2 2 5 5 5 5 5 7 7 7 7 1 1 1 1 1 1 1 1 1 1 1	99 109 112 0 160 109 20 169 59 162 197 400 096 GORTH REGIO	0 0 127 352 0 0 0 270 0 0 0 781		3.67 8.78 0 0 10.14 23.73 1.95 6.13 0 11.98 7.38 27.72 101.96	0 0 1.43 6.18 0 0 0 2.16 0 0 10.31	3.67 8.78 -1.43 -6.18 10.14 23.73 1.95 6.13 -2.16 11.98 7.38 27.72 91.65
4 5 6 7 8 9 10 11 12 13 14 15 Sub-Tota	132KV-Rihai 220KV-Pusai 400KV-Bihai 400KV-Bihai 400KV-Motil 400KV-Muzi (PG)-Goraki 400KV-Patna 400KV-Sasai 400KV-Sasai 765KV-Gaya 765KV-Gaya HVDC800KV -Total EAST	nd-Sonnagar uli (PG)-Sah rsharif (PG)- rsharif (PG)- hari (DMT)- affarpur npur(UP) a (PG)-Baliar ram-Allahab ram-Varanas npur (PG)-Sa a (PG)-Balia(a (PG)-Varan V-Alipurdua F REGION V-Biswanath	r (PG) upuri(UP) Balia(PG) Varanasi(PG) Gorakhpur(UP) (PG) ad (PG) si (PG) asaram. PG) assi(PG) r-Agra (PG) Charialli-Agra	199 356 -94 -278 296 918 76 265 -207 529 -306 1,400 3,125 Import/Export betw	165 373 -101 -314 298 968 78 261 -110 562 -263 1,000 2,892 een NORTH_EAST RI 600 600 between WEST REGIO	1 4 4 5 5 5 1, 1 1 2 2 5 5 5 5 5 7 7 7 7 1 1 1 1 1 1 1 1 1 1 1	99 109 112 0 160 109 20 20 269 59 662 997 400 096 GORTH REGIO	0 0 127 352 0 0 0 270 0 0 781		3.67 8.78 0 0 10.14 23.73 1.95 6.13 0 11.98 7.38 27.72 101.96	0 0 1.43 6.18 0 0 0 2.16 0 0 10.31	3.67 8.78 -1.43 -6.18 10.14 23.73 1.95 6.13 -2.16 11.98 7.38 27.72 91.65 14.29 0.68
4 5 6 7 8 9 10 11 12 13 14 15 Sub-Tota	132KV-Rihan 220KV-Pusan 400KV-Bihan 400KV-Bihan 400KV-Muzan (PG)-Gorakh 400KV-Patna 400KV-Sasan 400KV-Sasan 765KV-Gayan 765KV-Gayan HVDC800KV -Total EAST HVDC800KV (PG)	nd-Sonnagar uli (PG)-Sah rsharif (PG)- rsharif (PG)- hari (DMT)- affarpur npur(UP) a (PG)-Baliar ram-Allahab ram-Varanas npur (PG)-Sa i (PG)-Balia(a (PG)-Varan V-Alipurdua V-Alipurdua V-Biswanath EAST REG	r (PG) upuri(UP) Balia(PG) Varanasi(PG) Gorakhpur(UP) (PG) ad (PG) si (PG) asaram. PG) assi(PG) r-Agra (PG) Charialli-Agra	199 356 -94 -278 296 918 76 265 -207 529 -306 1,400 3,125 Import/Export betw 500 Import/Export	165 373 -101 -314 298 968 78 261 -110 562 -263 1,000 2,892 een NORTH_EAST RI 600 600 between WEST REGIO	1 4 4 5 5 1, 1 1 2 2 5 5 3 3 1, 5 5, EGION and NOR	99 109 112 0 160 109 20 169 59 162 197 400 096 GORTH REGIO	0 0 127 352 0 0 0 270 0 0 0 781		3.67 8.78 0 0 10.14 23.73 1.95 6.13 0 11.98 7.38 27.72 101.96	0 0 1.43 6.18 0 0 0 2.16 0 0 10.31	3.67 8.78 -1.43 -6.18 10.14 23.73 1.95 6.13 -2.16 11.98 7.38 27.72 91.65
4 5 6 7 8 9 10 11 12 13 14 15 Sub-Tota	132KV-Rihai 220KV-Pusai 400KV-Bihai 400KV-Bihai 400KV-Motil 400KV-Muzai (PG)-Goraki 400KV-Sasai 400KV-Sasai 400KV-Sasai 765KV-Gaya 765KV-Gaya HVDC800KV -Total EAST HVDC800KV (PG) al NORTH_E	nd-Sonnagar uli (PG)-Sah rsharif (PG)- rsharif (PG)- hari (DMT)- affarpur npur(UP) a (PG)-Baliar ram-Allahab ram-Varanas npur (PG)-Sa a (PG)-Balia(a (PG)-Balia(a (PG)-Balia(a (PG)-Balia(a (PG)-Varan V-Alipurdua F REGION V-Biswanath EAST REG iya (NT)-Ma	r (PG) upuri(UP) Balia(PG) Varanasi(PG) Gorakhpur(UP) (PG) ad (PG) si (PG) asaram. PG) asaram. PG) Charialli-Agra ION	199 356 -94 -278 296 918 76 265 -207 529 -306 1,400 3,125 Import/Export betw 500 Import/Export	165 373 -101 -314 298 968 78 261 -110 562 -263 1,000 2,892 een NORTH_EAST RI 600 600 between WEST REGIO	1 4 4 5 5 1, 1 1 2 2 5 5 3 3 1, 5 5, EGION and NOR 5 7 7 7 N and NOR 5 6 5 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	99 109 112 0 160 109 20 169 169 169 169 160 160 160 160 17 17 18 18 18 18 18 18 18 18 18 18 18 18 18	0 0 127 352 0 0 0 270 0 0 781		3.67 8.78 0 0 10.14 23.73 1.95 6.13 0 11.98 7.38 27.72 101.96 14.29 0.68	0 0 1.43 6.18 0 0 0 2.16 0 0 10.31	3.67 8.78 -1.43 -6.18 10.14 23.73 1.95 6.13 -2.16 11.98 7.38 27.72 91.65 14.29 0.68
4 5 6 7 8 9 10 11 12 13 14 15 Sub-Tota	132KV-Rihan 220KV-Pusan 400KV-Bihan 400KV-Bihan 400KV-Muzz (PG)-Gorakh 400KV-Patna 400KV-Sasan 400KV-Sasan 765KV-Gaya HVDC800KV -Total EAST HVDC800KV (PG) al NORTH_E	nd-Sonnagar uli (PG)-Sah rsharif (PG)- rsharif (PG)- hari (DMT)- affarpur npur(UP) a (PG)-Baliar ram-Allahab ram-Varanas npur (PG)-Sa a (PG)-Baliar a (PG)-Baliar b (PG)-Varan	r (PG) upuri(UP) Balia(PG) Varanasi(PG) Gorakhpur(UP) (PG) ad (PG) si (PG) sisaram. PG) nasi(PG) r-Agra (PG) Charialli-Agra ION	199 356 -94 -278 296 918 76 265 -207 529 -306 1,400 3,125 Import/Export betw 500 Import/Export	165 373 -101 -314 298 968 78 261 -110 562 -263 1,000 2,892 een NORTH_EAST RI 600 600 between WEST REGIO 73 55	1 4 4 5 5 5 1, 1 1 2 2 5 5 3 3 1, 5 5, CGION and MOR	99 109 112 0 160 109 20 169 59 162 197 400 096 100 100 100 100 100 100 100 100 100 10	0 0 127 352 0 0 0 0 0 0 270 0 0 781 0 0 34		3.67 8.78 0 0 10.14 23.73 1.95 6.13 0 11.98 7.38 27.72 101.96 14.29 14.29 0.68 1.26	0 0 1.43 6.18 0 0 0 2.16 0 0 10.31	3.67 8.78 -1.43 -6.18 10.14 23.73 1.95 6.13 -2.16 11.98 7.38 27.72 91.65 14.29 0.68 1.26
4 5 6 7 8 9 10 11 12 13 14 15 Sub-Tota 1 2 3	132KV-Rihai 220KV-Pusai 400KV-Bihai 400KV-Bihai 400KV-Motil 400KV-Muzai (PG)-Goraki 400KV-Sasai 400KV-Sasai 400KV-Sasai 765KV-Gayai HVDC800KV -Total EAST HVDC800KV (PG) 1 NORTH_F	nd-Sonnagar uli (PG)-Sah rsharif (PG)- rsharif (PG)- hari (DMT)- affarpur upur(UP) a (PG)-Baliau ram-Allahab ram-Varanas upur (PG)-Sa i (PG)-Baliau r (PG)-Varan v-Alipurdua r REGION v-Biswanath EAST REG iiya (NT)-Ma upur-Modak uur-Bhanpur S C (NP)-Suj	r (PG) upuri(UP) Balia(PG) Varanasi(PG) Gorakhpur(UP) (PG) ad (PG) si (PG) sisaram. PG) nasi(PG) r-Agra (PG) Charialli-Agra ION	199 356 -94 -278 296 918 76 265 -207 529 -306 1,400 3,125 Import/Export betw 500 Import/Export 28 22 -3	165 373 -101 -314 298 968 78 261 -110 562 -263 1,000 2,892 een NORTH_EAST RI 600 600 between WEST REGIO 73 55 34	1 4 4 5 5 5 1, 1 1 2 2 5 5 3 3 1, 5 5, EGION and NOR:	99 109 112 0 160 109 20 169 59 162 197 400 096 FORTH REGION - 83	0 0 127 352 0 0 0 0 270 0 0 781 0 0 34 - 18		3.67 8.78 0 0 10.14 23.73 1.95 6.13 0 11.98 7.38 27.72 101.96 14.29 0.68 1.26 0.73	0 0 1.43 6.18 0 0 0 2.16 0 0 10.31	3.67 8.78 -1.43 -6.18 10.14 23.73 1.95 6.13 -2.16 11.98 7.38 27.72 91.65 14.29 0.68 1.26 0.73
4 5 6 7 8 9 10 11 12 13 14 15 Sub-Tota 1 2 3 4 5	132KV-Rihan 220KV-Pusan 400KV-Bihan 400KV-Bihan 400KV-Muzi (PG)-Gorakh 400KV-Patna 400KV-Sasan 400KV-Sasan 765KV-Gayan 765KV-Gayan HVDC800KV -Total EAST HVDC800KV (PG) 11 NORTH_F 220KV-Aura 220KV-Bhan 220KV-Rapp 400KV-Vind	nd-Sonnagar uli (PG)-Sah rsharif (PG)- rsharif (PG)- hari (DMT)- affarpur apur(UP) a (PG)-Balia ram-Allahab ram-Varanas npur (PG)-Sa a (PG)-Balia(a (PG)-Balia(a (PG)-Balia(a (PG)-Varan V-Alipurdua V-Alipurdua V-Biswanath EAST REG aiya (NT)-Ma apur-Modak pur-Bhanpur S C (NP)-Suj hyachal (PG)	r (PG) upuri(UP) Balia(PG) Varanasi(PG) Gorakhpur(UP) (PG) ad (PG) si (PG) usaram. PG) usaram. PG) Charialli-Agra ION United State of the state of	199 356 -94 -278 296 918 76 265 -207 529 -306 1,400 3,125 Import/Export betw 500 Import/Export 28 22 -3 156 -949	165 373 -101 -314 298 968 78 261 -110 562 -263 1,000 2,892 een NORTH_EAST RI 600 600 between WEST REGIO 73 55 34 282 -958	1 4 4 5 5 5 1, 1 1 2 2 5 5 5 5 5 7 7 7 7 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1	99 109 112 0 160 109 20 169 59 662 197 400 096 600 6TH REGION - 83 72	0 0 127 352 0 0 0 0 270 0 0 781 0 0 0 34 -		3.67 8.78 0 0 10.14 23.73 1.95 6.13 0 11.98 7.38 27.72 101.96 14.29 0.68 1.26 0.73 4.12 0	0 0 1.43 6.18 0 0 0 2.16 0 0 10.31	3.67 8.78 -1.43 -6.18 10.14 23.73 1.95 6.13 -2.16 11.98 7.38 27.72 91.65 14.29 0.68 1.26 0.73 4.12 -22.75
4 5 6 7 8 9 10 11 12 13 14 15 Sub-Tota 1 2 3 4	132KV-Rihai 220KV-Pusai 400KV-Bihai 400KV-Bihai 400KV-Motil 400KV-Muzai (PG)-Goraki 400KV-Sasai 400KV-Sasai 400KV-Sasai 765KV-Gayai HVDC800KV -Total EAST HVDC800KV (PG) 1 NORTH_F	nd-Sonnagar uli (PG)-Sah rsharif (PG)- rsharif (PG)- hari (DMT)- affarpur npur(UP) a (PG)-Baliar ram-Allahab ram-Varanas npur (PG)-Sa a (PG)-Baliar a (PG)-Varan V-Alipurdua b REGION V-Biswanath EAST REG iya (NT)-Ma npur-Modak	r (PG) upuri(UP) Balia(PG) Varanasi(PG) Gorakhpur(UP) (PG) ad (PG) si (PG) asaram. PG) hasi(PG) r-Agra (PG) Charialli-Agra ION dlanpur(PG)	199 356 -94 -278 296 918 76 265 -207 529 -306 1,400 3,125 Import/Export betw 500 Import/Export 28 22 -3 156	165 373 -101 -314 298 968 78 261 -110 562 -263 1,000 2,892 een NORTH_EAST RI 600 600 between WEST REGIO 73 55 34 282	1 4 4 5 5 5 1, 1 1 2 2 5 5 3 3 1, 5 5, EGION and NOR 5 7 7 2 9 N and NOR 5 7 2 2 2 5 6 7 7 9 N and NOR 5 9 N	99 109 112 0 160 109 20 169 59 662 997 400 096 GORTH REGION - 83 72	0 0 127 352 0 0 0 270 0 0 781 0 0 34 -		3.67 8.78 0 0 10.14 23.73 1.95 6.13 0 11.98 7.38 27.72 101.96 14.29 14.29 0.68 1.26 0.73 4.12	0 0 1.43 6.18 0 0 0 2.16 0 0 10.31	3.67 8.78 -1.43 -6.18 10.14 23.73 1.95 6.13 -2.16 11.98 7.38 27.72 91.65 14.29 0.68 1.26 0.73 4.12

		Import/Export be	tween WEST REGIO	ON and NORTH REGION				
8	765KV-0rai-Gwalior (PG)	-319	-341	0	399	0	8.31	-8.31
9	765KV-0rai-Jabalpur	1,738	1,972	1,972	0	39.71	0	39.71
10	765KV-0rai-Satna	1,333	1,372	1,372	0	30.71	0	30.71
11	765KV-Chittorgarh-Banaskata D/C	-59	-235	402	293	2.59	0	2.59
12	765KV-Gwalior (PG)-Agra(PG)	2,280	2,550	2,550	0	50.85	0	50.85
13	765KV-Phagi (RJ)-Gwalior(PG)	703	1,049	1,049	-	21.04	0	21.04
14	HVDC500KV-Mundra (JH)-Mohindergarh(JH)	1,701	2,001	2,003	0	44.66	0	44.66
15	HVDC500KV-Vindhyachal (PG)-Vindhaychal B/B	200	250	500	0	6.34	0	6.34
16	HVDC800KV-Champa (PG)-Kurukshetra(PG)(PG)	3,000	2,500	3,000	0	63.47	0	63.47
Sul	o-Total WEST REGION	9,746	10,498	13,390	1,882	266.16	35.21	230.95
TO	OTAL IR EXCHANGE	13,371	13,990	19,186	2,663	382.41	45.52	336.89
4(B) Inter Region	al Schedule & Actual Exchange (Impor	t=(+ve) /Export =(-ve))	in MU	•		!	I .	
	ISGS/(LT+MT) Schedule	BILT Sch	edule	PX Schedule	Total IR Schedule	Total IR Actual	NE'	Γ IR UI
NR-ER	62.86	11.84	4	2.28	76.98	91.65	14.67	
NR-WR	169.96	88.03	3	1.43	259.42	230.95	-	28.47
Total	232.82	99.8	7	3.71	336.4	336.89		0.49
5.Inter National I	Exchange with Nepal [Import (+ve)/Exp	ort(-ve)] [Linkwise]		•	•	1	•	
	Element	Peak	Off-Peak	Maximum Inte	erchange(MW)	Energy	MID	Net Energy

5.Intel National Exchange with Nepal [Import (+ve)/Expo	or ((-ve)] [Linkwise]							
Element	Peak	Off-Peak	Maximum Inter	rchange(MW)	Energy	(MU)	Net Energy	ĺ
	MW	MW	Import	Export	Import	Export	(MU)	ĺ
132KV-Tanakpur(NH)-Mahendranagar(PG)	-26.78	-23.95		27		0.4883	-0.4883	ĺ

< 49.9

7.3

%

RANGE(Hz)

< 49.2

0

< 49.7

< 49.8

0

<frequency< th=""><th>y (Hz)></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th></frequency<>	y (Hz)>								
Max	ximum	Minimum Average Freq Variation Standard Freq. in 15 mnt blk		nnt blk	Freq Dev Index				
Frequency	Time	Frequency	Time	Frequency	Index	Deviation	Max.	Min.	(% of Time)
50.21	21:54:30	49.8	14:13:40	50	0.037	0.061	50.15	49.86	26.5

>= 49.9 - <= 50.05

73.5

> 50.05 - <= 50.1

15.6

< 50.0

41.2

> 50.1 - <= 50.2

3.4

> 50.2

.1

> 50.05

19.2

6.Voltage Profile: 400kV

5.Frequency Profile

6.Voltage Profile: 40	0kV				_				Voltage
	Ma	aximum	Minim	um		Volta	ge (in %)		Deviation Index
					< 380	< 390	> 420	> 430	(% of time)
Ballabgarh(PG) - 400KV	413	18:45	389	13:50	0	.69	0	0	0
Bareilly II(PG) - 400KV	416	05:20	397	00:05	0	0	0	0	0
Bareilly(UP) - 400KV	417	05:15	398	00:05	0	0	0	0	0
Abdullapur(PG) - 400KV	403	06:55	392	12:45	0	0	0	0	0
Bassi(PG) - 400KV	418	18:40	395	00:05	0	0	0	0	0
Bawana(DTL) - 400KV	409	18:45	394	14:50	0	0	0	0	0
Hisar(PG) - 400KV	408	18:40	392	13:45	0	0	0	0	0
Rihand(NT) - 400KV	408	05:15	401	22:10	0	0	0	0	0
Moga(PG) - 400KV	407	18:45	396	14:50	0	0	0	0	0
Gorakhpur(PG) - 400KV	415	05:15	392	22:40	0	0	0	0	0
Nallagarh(PG) - 400KV	406	05:05	396	12:30	0	0	0	0	0
Kanpur(PG) - 400KV	415	05:15	401	00:05	0	0	0	0	0
Kashipur(UT) - 400KV					0	0	0	0	0
Amritsar(PG) - 400KV	402	00:00	389	14:45	0	4.86	0	0	0
Baspa(HP) - 400KV	401	17:05	396	12:30	0	0	0	0	0
Kishenpur(PG) - 400KV	403	18:45	390	14:45	0	0	0	0	0
Rihand HVDC(PG) - 400KV	410	05:15	410	05:15	1.04	1.04	0	0	1.04
Dadri HVDC(PG). - 400KV	418	05:20	418	05:20	1.04	1.04	0	0	1.04

6.1 Voltage Profile: 765kV

	Maximum		Minim	Voltage (in %)				Voltage Deviation Index	
					< 728	< 742	> 800	> 820]
Anta RS(RJ) - 765KV	791	18:35	768	00:00	0	0	0	0	0
Balia(PG) - 765KV	785	05:15	759	759 00:05 0 0 0				0	0

Bareilly II(PG) - 765KV	801	05:15	765	00:05	0	0	.69	0	.69
Bhiwani(PG) - 765KV	798	18:35	765	14:55	0	0	0	0	0
Fatehpur(PG) - 765KV	790	17:15	748	00:05	0	0	0	0	0
Jhatikara(PG) - 765KV	797	18:40	753	00:05	0	0	0	0	0
Lucknow II(PG) - 765KV	792	05:15	758	00:05	0	0	0	0	0
Meerut(PG) - 765KV	801	18:45	762	12:25	0	0	.69	0	.69
Moga(PG) - 765KV	788	18:45	760	13:40	0	0	0	0	0
Phagi(RJ) - 765KV	797	18:35	767	00:00	0	0	0	0	0
Unnao(UP) -	776	05:15	747	00:05	0	0	0	0	0

7(A). Short-Term Open Access Details:

	Off- Peak Hours (03:00)			Peak Hours (20:00)			Day Energy (MU)			
State	Bilateral (MW)	IEX (MW)	PXIL (MW)	Bilateral (MW)	IEX (MW)	PXIL (MW)	ISGS /(LT+MT) Schedule	BILT Schedule	PX Schedule	Total (MU)
PUNJAB	2,210.14	0	0	1,837.83	0	0	89.04	54.12	0	143.16
HARYANA	2,496.65	117.58	0	2,061.8	103.39	0	110.53	49.31	2.47	162.31
RAJASTHAN	-178.05	79.48	0	-59.96	1.14	0	70.03	-2.15	2.71	70.6
DELHI	1,246.75	-15.1	0	1,181.24	-384.65	0	90.51	28.67	2.86	122.04
UTTAR PRADESH	1,025.07	1,332.17	0	553.84	1,367.02	0	191.6	9.52	13.17	214.29
UTTARAKHAND	-101.47	0.1	0	-101.47	113.46	0	18.95	-2.4	1.99	18.54
HIMACHAL PRADESH	-1,172.16	-484.79	0	-1,071.15	-417.15	0	36.12	-25.88	-8.85	1.4
JAMMU & KASHMIR	-526.54	0	0	-527.55	-13.36	0	33.87	-12.65	-0.13	21.08
CHANDIGARH	0	19.56	0	0	0	0	7.05	0	0.9	7.95
TOTAL	5,000.39	1,049	0	3,874.58	769.85	0	647.7	98.54	15.12	761.37

7(B). Short-Term Open Access Details

	ISGS/(LT-	+MT) Schedule	Bilateral (I	MW)	IEX (MV	PXIL (MW)		
State	Maximum	Minimum	Maximum	Minimum	Maximum	Minimum	Maximum	Minimum
PUNJAB	3,931.08	3,594.78	2,515.49	1,246.75	0	0	0	0
HARYANA	5,350.21	3,750.47	2,503.52	1,234.15	152.37	-250.24	0	0
RAJASTHAN	3,570.45	2,057.15	-59.96	-178.05	755.28	-483.38	0	0
DELHI	4,349.2	2,868.11	1,471.17	897.73	574.09	-384.65	0	0
UTTAR PRADESH	9,318.29	6,910.39	1,118.94	128.75	2,042.81	-156.85	0	0
UTTARAKHAND	897.91	667.27	-97.65	-101.47	191.51	0.1	0	0
HIMACHAL PRADESH	1,583.08	1,406.05	-865.77	-1,274.59	-86.11	-521.08	0	0
JAMMU & KASHMIR	1,675.61	1,084.58	-526.53	-527.55	0	-13.36	0	0
CHANDIGARH	350.8	250.47	0	0	94.88	-10.07	0	0

8.Major Reservoir Particulars

		Parameters			Present Parameters		EAR	LAST DAY	
RESERVOIR	MDDL (Mts)	FRL (Mts)	Energy Content at FRL	Level (Mts)	Energy (MU)	Level (Mts)	Energy (MU)	Inflow (m3/s)	Usage (m3/s)
Bhakra	445.62	513.59	1,728.8	489.14	710	455.57	86	996.89	949.55
Chamera-I	748.75	760	753.95	753.38	-	-	-	330.11	349.46
Gandhisagar	381	399.9	725	-	-	-	-	-	0
Jawahar Sagar	295.78	298.7	2.01	-	-	-	-	-	0
Koteshwar	598.5	612.5	610.73	610.5	5	610.1	5	302	294.39
Pong	384.05	426.72	1,084	404.59	328	391.23	72	194.51	333.91
RPS	343.81	352.8	175.66	-	-	-	-	-	0
RSD	487.91	527.91	390.3	510.36	9	504.94	6	287.99	364.13
Rihand	252.98	268.22	860.5	-	-	-	-	-	0
Tehri	740.04	829.79	1,291.49	743.77	18	747.3	36	358.35	302
TOTAL	-	-	-	-	1,070	-	205	2,469.85	2,593.44

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

(i)%age of tin	N. 4.	 		

WR	0
ER	0
Simultaneous	0

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

WR	0
ER	0
Simultaneous	3.13

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

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	2	27
HARYANA	0	12
HIMACHAL PRADESH	2	26
JAMMU & KASHMIR	1	23
PUNJAB	0	12
RAJASTHAN	1	17
UTTAR PRADESH	0	9
UTTARAKHAND	3	15

11. Significant events (If any):

 ${\bf 12. Grid\ Disturbance\ /\ Any\ Other\ Significant\ Event:}$

13. Weather Conditions:

 ${\bf 14. Synchronisation\ of\ new\ generating\ units:}$

15.Synchronisation of new 220 / 400 / 765 KV lines and energising of bus / /substation: 1. 400kV Bikaner(PG)-Bikaner(Raj) line first time charged at 17:28Hrs. 2. 400kV Bus-2 at 765/400kV Bikaner(PG) SS first time charged at 17:43Hrs. 3. 500MVA ICT-4 at Akal first time charged at 21:10Hrs.

16. Tripping of lines in pooling stations :

 ${\bf 17. Complete\ generation\ loss\ in\ a\ generating\ station:}$

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