

CHANDIGARH

Region

175

43,256

0

489

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

Power Supply Position in Northern Region For 01-Jun-2020

1. Regional Availability/Demand:

Date of Reporting:02-Jun-2020

Demand Met         Shortage         Requirement         Freq (Hz)         Demand Met         Shortage         Requirement         Freq (Hz)         Demand Met         Shortage           43,257         489         43,746         50.1         35,580         229         35,809         50.01         945         10.03		Evening Peak (20:00) MW			Off-Peak (03:00) MW				Day Energy(Net MU)		
43,257 489 43,746 50.1 35,580 229 35,809 50.01 945 10.03	Demand Met	Shortage	Requirement	Freq (Hz)		Shortage	Requirement	Freq (Hz)	Demand Met	Shortage	
	43,257	489	43,746	50.1	35,580	229	35,809	50.01	945	10.03	

			State's Contro	ol Area Gen	eration (No	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	9.72	16.75	0	3.6	0	3.32	33.38	102.41	101.56	-0.85	134.94	0	134.94
HARYANA	4.44	0.9	4	0.18	0	0.63	10.14	98.24	99.23	0.99	109.37	0	109.37
RAJASTHAN	95.7	0	1.65	18.18	18.94	4.26	138.72	61.52	58.66	-2.86	197.38	0	197.38
DELHI	0	0	11.13	0	0	0.79	11.91	64.74	62.66	-2.08	74.57	0	74.57
UTTAR PRADESH	128.94	13.77	0	0	0	4.8	147.51	183.43	183.51	0.08	331.24	0.22	331.02
UTTARAKHAND	0	17.88	0	0.81	0	0.11	18.79	11.58	10.65	-0.93	29.44	0	29.44
HIMACHAL PRADESH	0	12.62	0	0	0	11.65	24.26	-2.45	-1.52	0.93	22.74	0	22.74
J&K(UT) & Ladakh(UT)	0	23.04	0	0	0	0	23.04	18.62	18.23	-0.39	51.08	9.81	41.27
CHANDIGARH	0	0	0	0	0	0	0	4.14	3.91	-0.23	3.91	0	3.91
Region	238.8	84.96	16.78	22.77	18.94	25.56	407.75	542.23	536.89	-5.34	954.67	10.03	944.64

		Evening P	eak (20:00) MW			Off-Peak (03:00	) MW	
State	Demand Met	Shortage	UI	STOA/PX/RTM Transaction	Demand Met	Shortage	UI	STOA/PX/RTM Transaction
PUNJAB	6,106	0	-86	940	4,894	0	-32	742
HARYANA	5,074	0	164	187	3,777	0	175	193
RAJASTHAN	7,419	0	47	-219	6,899	0	156	-1,372
DELHI	3,042	0	76	545	2,832	0	23	620
UTTAR PRADESH	17,055	0	754	2,183	14,129	0	-124	2,512
UTTARAKHAND	1,480	0	30	-69	980	0	-165	-139
HIMACHAL PRADESH	948	0	178	-1,567	644	0	5	-1,387
J&K(UT) & Ladakh(UT)	1,957	489	141	-870	1,298	229	-24	-1,073

-100

1,030

127

35,580

-3

11

0

229

-80

16

-15

1,289

2(C)State's Dema	and Met in MWs	(Maximum D	emand Met and Maxin	num requirement of	f the day details)					
	Maximum De		onding shortage and re for the day	equirement details	Maximun	n requiremen	t, corresponding shortage	e and demand deta	ils for the d	ay
State	Maximum Demand Met of the day	Time	Shortage during at maximum demand	Requirement at the max demand met of the day	Maximum Requirement of the day	Time	Shortage during at maximum Requirement	Demand Met at maximum requiremnet	Min Demand Met	Time
PUNJAB	6,279	21:00	0	6,279	6,279	21:00	0	6,279	4,894	3:00
HARYANA	5,782	23:00	0	5,782	5,782	23:00	0	5,782	3,676	4:00
RAJASTHAN	9,815	11:00	0	9,815	9,815	11:00	0	9,815	6,401	5:00
DELHI	3,765	24:00	0	3,765	3,765	24:00	0	3,765	2,558	7:00
UP	17,818	22:00	0	17,818	17,818	22:00	0	17,818	10,803	7:00
UTTARAKHAND	1,480	20:00	0	1,480	1,480	20:00	0	1,480	945	4:00
HP	1,197	10:00	0	1,197	1,197	10:00	0	1,197	644	3:00
J&K(UT)&Ladak .	. 2,032	21:00	508	2,540	2,540	21:00	508	2,032	1,298	3:00
CHANDIGARH	190	16:00	0	190	190	16:00	0	190	127	3:00
NR	45,737	23:00	428	46,164	46,164	23:00	428	45,737	34,143	6:00

3(A) State Entities Generation:										
CHANDIGARH										
g	Inst. Capacity	N/A	N/A	Day Peal	ζ.	Day Energy				
Station/Constituents	(MW)	Peak MW	Off Peak MW	(MW)	Hrs	(MU)	AVG. MW			
NIL	NIL									
Total	0	0	0			0	0			
Total	0	0	0			0	0			

DELHI							
	Inst. Capacity	20:00	03:00 Day Peak		ζ.	Day Energy	
Station/Constituents	(MW)	Peak MW	Off Peak MW	(MW)	Hrs	(MU)	AVG. MW
BAWANA GPS( 2 * 253 + 4 * 216 )	1,370	277	267	294		6.66	278
DELHI GAS TURBINES( 3 * 34 + 6 * 30 )	282	38	38	38.46		0.91	38
PRAGATI GAS TURBINES( 1 * 121.2 + 2 * 104.6 )	452	144	151	151.9		3.57	149
RITHALA GPS(3 * 36)	108	0	0	0			
Total GAS/NAPTHA/DIESEL	2,212	459	456			11.14	465
WIND	0	0	0	0			
BIOMASS( 52 )	52	21	33	33.3		0.79	33
SOLAR(2)	2	0	0	0			
Total DELHI	2,266	480	489			11.93	498

HARIYANA							
	Inst. Capacity	20:00	03:00	Day Pea	nk	Day Energy	
Station/Constituents	(MW)	Peak MW	Off Peak MW	(MW)	Hrs	(MU)	AVG. MW
DCRTPP (YAMUNA NAGAR)( 2 * 300 )	600	172	175	278	22:00	4.44	185
JHAJJAR(CLP)( 2 * 660 )	1,320	0	0	0			
MAGNUM DIESEL (IPP)( 4 * 6.3 )	25	0	0	0			
PANIPAT TPS( 1 * 210 + 2 * 250 )	710	0	0	0			
RGTPP( KHEDAR)( 2 * 600 )	1,200	0	0	0			
Total THERMAL	3,855	172	175			4.44	185
FARIDABAD GPS( 1 * 156.07 + 2 * 137.75 )	432	165	163	196	00:00	4	167
Total GAS/NAPTHA/DIESEL	432	165	163			4	167
TOTAL HYDRO HARYANA(64.8)	65	26	23	32	06:00	0.9	38
Total HYDEL	65	26	23			0.9	38
WIND	0	0	0	0			
BIOMASS( 106 )	106	0	0	0		0.63	26
SOLAR(55.8)	56	0	0	0		0.18	8
Total HARYANA	4,514	363	361			10.15	424

HIMACHAL PRADESH							
	Inst. Capacity	20:00	03:00	Day Peak		Day Energy	
Station/Constituents	(MW)	Peak MW	Off Peak MW	(MW)	Hrs	(MU)	AVG. MW
BASPA (IPP) HPS( 3 * 100 )	300	205	212	246	05:00	4.72	197
MALANA (IPP) HPS( 2 * 43 )	86	38	46	85	23:45	1.13	47
OTHER HYDRO HP( 372 )	372	284	293	0		6.76	282
Total HYDEL	758	527	551			12.61	526
WIND	0	0	0	0			
BIOMASS	0	0	0	0			
SOLAR(1 * 18.9)	19	0	0	8.421	13:00	0	0
SMALL HYDRO( 486 )	486	466	462	0		11.65	485
Total SMALL HYDRO	486	466	462			11.65	485
Total HP	1,263	993	1,013			24.26	1,011

J&K(UT) & LADAKH(UT)							
	Inst. Capacity	20:00	03:00	Day Peak		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	883	883	883		21.19	883
OTHER HYDRO/IPP J&K( 308 )	308	111	53	138	18:00	1.85	77
Total HYDEL	1,208	994	936			23.04	960
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(UT)&Ladakh(UT)	1,496	994	936			23.04	960

PUNJAB							
	Inst. Capacity	20:00	03:00	Day Pe	eak	Day Energy	
Station/Constituents	(MW)	Peak MW	Off Peak MW	(MW)	Hrs	(MU)	AVG. MW
GOINDWAL(GVK)(2 * 270)	540	0	0	0			
GURU GOBIND SINGH TPS (ROPAR)( 4 * 210 )	840	0	0	0		0	0
GURU HARGOBIND SINGH TPS (LEHRA MOHABBAT)( 2 * 210 + 2 * 250 )	920	0	0	0		0	0
RAJPURA(NPL) TPS( 2 * 700 )	1,400	330	338	648		9.72	405
TALWANDI SABO TPS( 3 * 660 )	1,980	0	0	0			
Total THERMAL	5,680	330	338			9.72	405
ANANADPUR SAHIB HYDRO PLANT( 2 * 33.5 + 2 * 33.5 )	134	117	116	117		2.84	118
MUKERIAN HYDRO PLANT( 6 * 15 + 6 * 19.5 + 2 * 9 )	225	214	213	214		5.02	209
RANJIT SAGAR POWER PLANT (4 * 150)	600	120	120	120		2.95	123
SHANAN( 4 * 15 + 1 * 50 )	110	110	110	110		2.64	110
UBDC( 3 * 15 + 3 * 15.5 )	92	39	39	39		0.92	38
OTHER HYDRO PUNJAB	0	0	0	0		2.38	99
Total HYDEL	1,161	600	598			16.75	697
WIND	0	0	0	0			
BIOMASS( 303 )	303	0	0	0		3.32	138
SOLAR( 859 )	859	0	0	467		3.6	150
Total PUNJAB	8,003	930	936			33.39	1,390

RAJASTHAN							
	Inst. Capacity	20:00	03:00	Day Peal	k	Day Energy	
Station/Constituents	(MW)	Peak MW	Off Peak MW	(MW)	Hrs	(MU)	AVG. MW
BARSINGSAR (IPP) LTPS( 2 * 125 )	250	108	99	0		2.3	96
CHHABRA TPS( 2 * 660 + 4 * 250 )	2,320	1,757	1,533	0		39.82	1,659
GIRAL (IPP) LTPS( 2 * 125 )	250	0	0	0			
KALISINDH TPS( 2 * 600 )	1,200	392	384	0		9.26	386
KAWAI TPS( 2 * 660 )	1,320	952	854	0		21.97	915
KOTA TPS( 2 * 110 + 2 * 195 + 3 * 210 )	1,240	149	293	0		6.02	251
RAJWEST (IPP) LTPS( 8 * 135 )	1,080	678	557	0		15.07	628
SURATGARH TPS (6 * 250)	1,500	0	0	0			
VSLPP (IPP)( 1 * 135 )	135	-2	118	0		1.26	53
Total THERMAL	9,295	4,034	3,838			95.7	3,988
DHOLPUR GPS(3*110)	330	0	0	0			
RAMGARH GPS( 1 * 110 + 1 * 35.5 + 1 * 50 + 2 * 37.5 )	271	66	83	0		1.65	69
Total GAS/NAPTHA/DIESEL	601	66	83			1.65	69
RAPS-A(1 * 100 + 1 * 200)	300	162	164	0		3.8	158
Total NUCLEAR	300	162	164			3.8	158
TOTAL HYDRO RAJASTHAN( 550 )	550	0	0	0			
Total HYDEL	550	0	0			0	0
WIND	4,292	317	1,171	0		18.94	789
BIOMASS( 102 )	102	19	19	0		0.46	19
SOLAR( 3045 )	3,045	0	0	0		18.18	758
Total RAJASTHAN	18,185	4,598	5,275			138.73	5,781

UTTAR 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
ANPARA TPS(2 * 500 + 3 * 210)	1,630	1,370	1,366	0		32.57	1,357
ANPARA-C TPS(2 * 600)	1,200	1,087	1,008	0		20.21	842
ANPARA-D TPS(2 * 500)	1,000	468	468	0		9.4	392
BAJAJ ENERGY PVT LTD (IPP) TPS( 10 * 45 )	450	0	0	0			
BARA PPGCL TPS( 3 * 660 )	1,980	1,190	1,189	0		16.01	667
HARDUAGANJ TPS( 1 * 105 + 1 * 60 + 2 * 250 )	665	444	251	0		7.61	317
LALITPUR TPS( 3 * 660 )	1,980	0	0	0			
MEJA TPS( 1 * 660 )	660	340	0	0		9.32	388
OBRA TPS ( 2 * 94 + 5 * 200 )	1,188	494	475	0		8.34	348
PARICHA TPS(2 * 110 + 2 * 210 + 2 * 250)	1,380	385	184	0		7.29	304
ROSA TPS(4 * 300)	1,200	1,060	901	0		18.19	758
TANDA TPS( 4 * 110 )	440	0	0	0			
Total THERMAL	13,773	6,838	5,842			128.94	5,373
ALAKHANANDA HEP( 4 * 82.5 )	330	164	162	0		4.23	176
VISHNUPARYAG HPS(4*110)	440	247	218	0		5.32	222
OTHER HYDRO UP( 527 )	527	165	285	0		4.22	176
Total HYDEL	1,297	576	665			13.77	574
WIND	0	0	0	0			
BIOMASS( 26 )	26	0	0	0			
SOLAR( 798 )	798	0	0	0			
CO-GENERATION( 1360 )	1,360	200	200	0		4.8	200
Total OTHERs	1,360	200	200			4.8	200
Total UP	17,254	7,614	6,707			147.51	6,147

UTTARAKHAND							
	Inst. Capacity	20:00	03:00	Day Pe	ak	Day Energy	
Station/Constituents	(MW)	Peak MW	Off Peak MW	(MW)	Hrs	(MU)	AVG. MW
TOTAL GAS UK( 675 )	675	0	0	0			
Total GAS/NAPTHA/DIESEL	675	0	0			0	0
OTHER HYDRO UK( 1250 )	1,250	721	778	787	08:00	17.88	745
Total HYDEL	1,250	721	778			17.88	745
WIND	0	0	0	0			
BIOMASS( 127 )	127	2	8	10	12:00	0.11	5
SOLAR( 100 )	100	0	0	100	13:00	0.81	34
SMALL HYDRO( 180 )	180	0	0	0			
Total SMALL HYDRO	180	0	0			0	0
Total UTTARAKHAND	2,332	723	786			18.8	784

3(B) Regional Entities Genera										
Station/Constituents	Inst. Capacity	Declared Capacity	20:00	03:00	Day	Peak		y Energy	AVG. MW	UI
Station/Constituents	(MW)	(MW)	Peak MW	Off Peak MW	(MW)	Hrs	SCHD (MU)	ACT (MU)	AVG. MW	UI
Aravali Power Company Privat	e Ltd	I			l	l			1	
ISTPP (JHAJJAR)( 3 * 500 )	1,500	1,414	0	0	0	-	0	-	-	0
Sub-Total	1,500	1,414	0	0	-	-	0	0	0	0
ВВМВ					•			11		
BHAKRA HPS( 2 * 108 + 3 * 126 + 5 * 157 )	1,379	1,127	1,142	666	1,142	20:00	18.26	18.5	771	0.24
DEHAR HPS(6 * 165)	990	790	810	580	810	20:00	14.28	14.57	607	0.29
PONG HPS(6 * 66)	396	304	310	184	310	20:00	6.63	6.67	278	0.04
Sub-Total	2,765	2,221	2,262	1,430	-	-	39.17	39.74	1,656	0.57
NHPC					1	1		1	'	
BAIRASIUL HPS( 3 * 60 )	180	122	122	121	123	07:00	2.76	2.81	117	0.05
CHAMERA HPS( 3 * 180 )	540	555	534	359	540	14:30	10.28	10.33	430	0.05
CHAMERA II HPS( 3 * 100 )	300	100	101	99	101	20:00	2.36	2.38	99	0.02
CHAMERA III HPS( 3 * 77 )	231	240	231	231	237	08:00	5.48	5.5	229	0.02
DHAULIGANGA HPS(4 * 70)	280	292	274	141	282	23:00	4.18	4.23	176	0.05
DULHASTI HPS(3 * 130)	390	405	400	400	401	02:00	9.25	9.44	393	0.19
KISHANGANGA(3 * 110)	330	111	111	111	112	12:00	2.64	2.67	111	0.03
PARBATI III HEP(4*130)	520	520	513	0	524	06:45	2.04	2.07	86	0.03
PARBATI-II( 4 * 200 )(Infirm)	800	-	513	59	63	19:00	2.00	1.3	54	1.3
	690	683	706	706			16.47		702	0.38
SALAL HPS(6*115)					707	01:00		16.85		
SEWA-II HPS(3 * 40) TANAKPUR HPS(1 * 31.42 + 2 *	120	131	122	121	126	23:59	2.85	2.9	121	0.05
31.4)	94	50	52	47	98	11:00	1.36	1.64	68	0.28
URI HPS( 4 * 120 )	480	480	482	482	490	09:00	11.54	11.66	486	0.12
URI-II HPS( 4 * 60 )	240	237	246	246	247	12:00	5.73	5.86	244	0.13
Sub-Total	5,195	3,926	3,952	3,123	-	-	76.96	79.64	3,316	2.68
NPCL	l								T T	
NAPS( 2 * 220 )	440	362	411	418	425	01:00	8.69	9.09	379	0.4
RAPS-B( 2 * 220 )	440	353	403	403	406	06:00	8.47	8.56	357	0.09
RAPS-C( 2 * 220 )	440	418	439	445	446	15:00	10.03	9.68	403	-0.35
Sub-Total	1,320	1,133	1,253	1,266	-	-	27.19	27.33	1,139	0.14
NTPC	ı	Т			[	[				
ANTA GPS(1 * 153.2 + 3 * 88.71) AURAIYA GPS(2 * 109.3 + 4 *		395	0	0	0	-	0	0	0	0
111.19 ) DADRI GPS( 2 * 154.51 + 4 *	663	330	209	189	239	00:00	4.57	4.53	189	-0.04
130.19)	830	375	221	226	244	-	5.52	5.4	225	-0.12
DADRI SOLAR(5)	5	5	0	0	3	-	0.02	0.02	1	0
DADRI-I TPS( 4 * 210 )	840	769	0	0	0	-	2.62	2.44	102	-0.18
DADRI-II TPS( 2 * 490 )	980	924	0	0	0	-	6.1	5.82	243	-0.28
KOLDAM HPS( 4 * 200 )	800	872	772	788	873	23:00	11	10.98	458	-0.02
RIHAND-I STPS(2 * 500)	1,000	920	973	888	973	20:00	20.23	20.02	834	-0.21
RIHAND-II STPS(2*500)	1,000	938	1,008	1,006	1,008	20:00	21.07	21.23	885	0.16
RIHAND-III STPS( 2 * 500 )	1,000	938	1,006	717	1,006	20:00	20.43	20.56	857	0.13
SINGRAULI STPS( 2 * 500 + 5 * 200 )	2,000	1,650	1,812	1,436	1,812	20:00	37.45	37.59	1,566	0.14
SINGRAULI SOLAR( 15 )	15	15	0	0	0	-	0.07	0.08	3	0.01
TANDA TPS STAGE-II(1 * 660)	660	622	501	371	501	20:00	9.13	9	375	-0.13
	000	022	501					·		-0.01
UNCHAHAR I( 2 * 210 )	420	382	117	124	117	20:00	2.52	2.51	105	
	420	382	117	124						
UNCHAHAR II TPS( 2 * 210 )	420 420	382 382	117 248	124 233	248	20:00	5.05	5.02	209	-0.03
UNCHAHAR II TPS( 2 * 210 ) UNCHAHAR III TPS( 1 * 210 )	420 420 210	382 382 191	117 248 121	124 233 119	248 121	20:00	5.05	5.02 2.85	209	-0.03 0.33
UNCHAHAR II TPS( 2 * 210 )  UNCHAHAR III TPS( 1 * 210 )  UNCHAHAR IV TPS( 1 * 500 )	420 420 210 500	382 382 191 471	117 248 121 278	124 233 119 276	248 121 278	20:00 20:00 20:00	5.05 2.52 6.24	5.02 2.85 6.2	209 119 258	-0.03 0.33 -0.04
UNCHAHAR II TPS( 2 * 210 )  UNCHAHAR III TPS( 1 * 210 )  UNCHAHAR IV TPS( 1 * 500 )  UNCHAHAR SOLAR( 10 )	420 420 210 500	382 382 191 471	117 248 121 278 0	124 233 119 276 0	248 121 278 0	20:00 20:00 20:00	5.05 2.52 6.24 0.05	5.02 2.85 6.2 0.05	209 119 258 2	-0.03 0.33 -0.04
UNCHAHAR II TPS( 2 * 210 )  UNCHAHAR III TPS( 1 * 210 )  UNCHAHAR IV TPS( 1 * 500 )  UNCHAHAR SOLAR( 10 )  Sub-Total	420 420 210 500	382 382 191 471	117 248 121 278	124 233 119 276	248 121 278	20:00 20:00 20:00	5.05 2.52 6.24	5.02 2.85 6.2	209 119 258	-0.03 0.33 -0.04
UNCHAHAR II TPS( 2 * 210 )  UNCHAHAR III TPS( 1 * 210 )  UNCHAHAR IV TPS( 1 * 500 )  UNCHAHAR SOLAR( 10 )	420 420 210 500 10 11,772	382 382 191 471 10 10,189	117 248 121 278 0 7,266	124 233 119 276 0 6,373	248 121 278 0	20:00 20:00 20:00	5.05 2.52 6.24 0.05 154.59	5.02 2.85 6.2 0.05 154.3	209 119 258 2 6,431	-0.03 0.33 -0.04 0 -0.29
UNCHAHAR II TPS( 2 * 210 )  UNCHAHAR III TPS( 1 * 210 )  UNCHAHAR IV TPS( 1 * 500 )  UNCHAHAR SOLAR( 10 )  Sub-Total  SJVNL  NATHPA-JHAKRI HPS( 6 * 250 )	420 420 210 500 10 11,772	382 382 191 471 10 10,189	117 248 121 278 0 7,266	124 233 119 276 0 6,373	248 121 278 0 -	20:00 20:00 20:00 - - 21:00	5.05 2.52 6.24 0.05 154.59	5.02 2.85 6.2 0.05 154.3	209 119 258 2 6,431	-0.03 0.33 -0.04 0 -0.29
UNCHAHAR II TPS( 2 * 210 )  UNCHAHAR III TPS( 1 * 210 )  UNCHAHAR IV TPS( 1 * 500 )  UNCHAHAR SOLAR( 10 )  Sub-Total  SJVNL  NATHPA-JHAKRI HPS( 6 * 250 )  RAMPUR HEP( 6 * 68.67 )	420 420 210 500 10 11,772	382 382 191 471 10 10,189 1,605 442	117 248 121 278 0 7,266	124 233 119 276 0 6,373	248 121 278 0 - 1,500 434	20:00 20:00 20:00 - - 21:00 20:00	5.05 2.52 6.24 0.05 154.59 28.59 7.96	5.02 2.85 6.2 0.05 154.3 28.56 8.19	209 119 258 2 6,431 1,190 341	-0.03 0.33 -0.04 0 -0.29 -0.03 0.23
UNCHAHAR II TPS( 2 * 210 )  UNCHAHAR III TPS( 1 * 210 )  UNCHAHAR IV TPS( 1 * 500 )  UNCHAHAR SOLAR( 10 )  Sub-Total  SJVNL  NATHPA-JHAKRI HPS( 6 * 250 )  RAMPUR HEP( 6 * 68.67 )  Sub-Total	420 420 210 500 10 11,772	382 382 191 471 10 10,189	117 248 121 278 0 7,266	124 233 119 276 0 6,373	248 121 278 0 -	20:00 20:00 20:00 - - 21:00	5.05 2.52 6.24 0.05 154.59	5.02 2.85 6.2 0.05 154.3	209 119 258 2 6,431	-0.03 0.33 -0.04 0 -0.29
UNCHAHAR II TPS( 2 * 210 )  UNCHAHAR III TPS( 1 * 210 )  UNCHAHAR IV TPS( 1 * 500 )  UNCHAHAR SOLAR( 10 )  Sub-Total  SJVNL  NATHPA-JHAKRI HPS( 6 * 250 )  RAMPUR HEP( 6 * 68.67 )  Sub-Total  THDC	420 420 210 500 10 11,772 1,500 412 1,912	382 382 191 471 10 10,189 1,605 442 2,047	117 248 121 278 0 7,266  1,424 434 1,858	124 233 119 276 0 6,373 747 221 968	248 121 278 0 - 1,500 434	20:00 20:00 20:00 - - 21:00 20:00	5.05 2.52 6.24 0.05 154.59 28.59 7.96 36.55	5.02 2.85 6.2 0.05 154.3 28.56 8.19 36.75	209 119 258 2 6,431 1,190 341 1,531	-0.03 0.33 -0.04 0 -0.29 -0.03 0.23 0.2
UNCHAHAR II TPS( 2 * 210 )  UNCHAHAR III TPS( 1 * 210 )  UNCHAHAR IV TPS( 1 * 500 )  UNCHAHAR SOLAR( 10 )  Sub-Total  SJVNL  NATHPA-JHAKRI HPS( 6 * 250 )  RAMPUR HEP( 6 * 68.67 )  Sub-Total  THDC  KOTESHWAR HPS( 4 * 100 )	420 420 210 500 10 11,772 1,500 412 1,912	382 382 191 471 10 10,189 1,605 442 2,047	117 248 121 278 0 7,266  1,424 434 1,858	124 233 119 276 0 6,373 747 221 968	248 121 278 0 - 1,500 434 - 408	20:00 20:00 20:00 - - 21:00 20:00	5.05 2.52 6.24 0.05 154.59 28.59 7.96 36.55	5.02 2.85 6.2 0.05 154.3 28.56 8.19 36.75	209 119 258 2 6,431 1,190 341 1,531	-0.03 0.33 -0.04 0 -0.29 -0.03 0.23 0.2
UNCHAHAR II TPS( 2 * 210 )  UNCHAHAR III TPS( 1 * 210 )  UNCHAHAR IV TPS( 1 * 500 )  UNCHAHAR SOLAR( 10 )  Sub-Total  SJVNL  NATHPA-JHAKRI HPS( 6 * 250 )  RAMPUR HEP( 6 * 68.67 )  Sub-Total  THDC  KOTESHWAR HPS( 4 * 100 )  TEHRI HPS( 4 * 250 )	420 420 210 500 10 11,772 1,500 412 1,912 400 1,000	382 382 191 471 10 10,189 1,605 442 2,047 412 640	117 248 121 278 0 7,266  1,424 434 1,858  408 635	124 233 119 276 0 6,373 747 221 968	248 121 278 0 - 1,500 434 - 408 644	20:00 20:00 20:00 - - 21:00 20:00 - 20:00 20:00	5.05 2.52 6.24 0.05 154.59 28.59 7.96 36.55 4.98 10.92	5.02 2.85 6.2 0.05 154.3 28.56 8.19 36.75 4.94 10.83	209 119 258 2 6,431 1,190 341 1,531 206 451	-0.03 0.33 -0.04 0 -0.29 -0.03 0.23 0.2 -0.04 -0.09
UNCHAHAR II TPS( 2 * 210 )  UNCHAHAR III TPS( 1 * 210 )  UNCHAHAR IV TPS( 1 * 500 )  UNCHAHAR SOLAR( 10 )  Sub-Total  SJVNL  NATHPA-JHAKRI HPS( 6 * 250 )  RAMPUR HEP( 6 * 68.67 )  Sub-Total  THDC  KOTESHWAR HPS( 4 * 100 )	420 420 210 500 10 11,772 1,500 412 1,912	382 382 191 471 10 10,189 1,605 442 2,047	117 248 121 278 0 7,266  1,424 434 1,858	124 233 119 276 0 6,373 747 221 968	248 121 278 0 - 1,500 434 - 408	20:00 20:00 20:00 - - 21:00 20:00	5.05 2.52 6.24 0.05 154.59 28.59 7.96 36.55	5.02 2.85 6.2 0.05 154.3 28.56 8.19 36.75	209 119 258 2 6,431 1,190 341 1,531	-0.03 0.33 -0.04 0 -0.29 -0.03 0.23 0.2

IΡ	P	'n	V
	-,	•	•

Sub-Total NORTH\_EAST REGION

700

500

700

14.54

14.54

Station/Constitu	nents	Inst. Capacity	Declared C	apacity		20:00	03:00	Day	Peak		y Energy	AVG. MW	UI
Station/Constitu	ients	(MW)	(MW	)	P	eak MW	Off Peak MW	(MW)	Hrs	SCHD (MU)	ACT (MU)	AVG.MW	OI .
IPP													
ADHPL(IPP) HPS	5(2*96)	192	0			61	95	187	22:00	2.13	2.19	91	0.06
BUDHIL HPS (IPF	P)(2 * 35)	70	0			71	35	71	20:00	1.06	1.08	45	0.02
KARCHAM WANGT * 250 )	FOO HPS( 4	1,000	0			1,000	550	1,000	21:00	15.67	15.67	653	0
MALANA2(2	* 50 )	100	0			40	40	101	01:00	0	1.15	48	1.15
SAINJ HEP( 2	* 50 )	100	0			65	70	100	06:00	1.47	1.64	68	0.17
SHREE CEMENT (II	PP) TPS( 2 *	300	0			0	0	0	-	0	-	_	0
Sub-Total		1,762	0			1,237	790	-	-	20.33	21.73	905	1.4
SOLAR IPP		,											
ACME CHITTORGA ENERGY PVT LTI		250	250			0	0	211	12:00	1.45	1.64	68	0.19
ADANI RENEWABL	E ENERGY	200	200			0	0	215	12:45	1.47	1.66	69	0.19
RJ LIMITED (ARER								-					
AZURE POWER IN	0)	200	200			0	0	189	12:15	1.28	1.46	61	0.18
AZURE POWER THI PRIVATE LTD(	1 * 130)	130	130			0	0	128	12:00	0.92	1.07	45	0.15
CLEAN SOLAR I (BHADLA) PVT LT	D(1*300)	300	300			0	0	300	13:03	2.1	2.48	103	0.38
M/S KILAJ SO (MAHARASHTRA) LIMITED( 1 *	PRIVATE	50	50			0	0	50	12:45	0.32	0.39	16	0.07
RENEW SOLAR PO LTD( 50 )	)	50	50			0	0	50	12:01	0.38	0.43	18	0.05
RENEW SOLAR PO LTD. BIKANER(	OWER PVT	250	250			0	0	247	12:02	1.7	1.79	75	0.09
SB ENERGY FOUR * 100)		200	200			0	0	200	12:45	1.53	1.59	66	0.06
TATA POWER REN		150	150			0	0	155	13:41	1.08	1.24	52	0.16
Sub-Total	1 · 130 )	1,780	1,780	)		0	0	-	-	12.23	13.75	573	1.52
Total		3,542	1,780	)		1,237	790			32.56	35.48	1,478	2.92
Summary Section													
			Inst. Cap	acity		PEAK		OFF-PEAK		Da	y Energy	Day	y AVG.
Total State Control A			55,31	3		16,695		16,503			407.81	10	6,995
J. Net Inter Regional I (+ve)/Export (-ve)]	Exchange [Im	port				9,636		6,925			161.95	10	0,151
Total Regional Availa	bility(Gross)		84,71	9		45,202		38,125			958.77	4	3,354
Total Hydro Generati	on												
			Inst. Cap	acity		PEAK		OFF-PEAK		Da	y Energy	Day	y AVG.
Regional Entities Hyd			13,53	4		11,124		7,846			204.61		3,523
State Control Area Hy	,		6,289			3,444		3,551			84.95		3,540
Total Regional Hydro	-		19,82	3		14,568	<u> </u>	11,397			289.56	12	2,063
Total Renewable Gene	eration		<b>T</b> . G	. 1		DE LE	1	OFF PEAK					L VI C
Regional Entities Reno	ewahle		Inst. Cap 1,810			PEAK 0		OFF-PEAK 0		Da	13.9		y AVG. 579
State Control Area Re			10,65			825		1,693			58.67		2,445
Total Regional Renew	able		12,46	1		825		1,693			72.57		3,024
4(A) INTER-REGIO	ONAL EXC	CHANGES	(Import=(+ve)	Export =(-ve	e))			-,				3	,·
				20:0	**		-			I			<u>, , , , , , , , , , , , , , , , , , , </u>
SL.No.		12,1				03:00	N	Aaximum Inter	rchange (MW)		Impost to 3 ftv		
1		Element		(MW	V)	MW	Impor	Maximum Inter	rchange (MW) Export (I	MW)	Import in MU	Export in MU	NET
	122777 =			(MW	V) rt/Export be	MW tween EAST REGIO	Impor	Maximum Inter t (MW) TH REGION	Export (I			Export in MU	NET
	132KV-Garh	wa-Rihand		(MW Impor	V) rt/Export be	MW tween EAST REGIO 7	Impor	Maximum Interest (MW) FH REGION	Export (I		0	Export in MU	NET -0.3
2	132KV-Karn	wa-Rihand nnasa (PG)-S	Sahupuri(UP)	(MW Impor 16	V) rt/Export be	MW tween EAST REGIO 7 -	Impor	Maximum Inter t (MW) TH REGION	-25			Export in MU	NET
3	132KV-Karn 132KV-Riha	nwa-Rihand nnasa (PG)-S nd-Sonnagar	Sahupuri(UP)	(MW Impor 16	V) rt/Export be	MW tween EAST REGIO 7 -	Impor	Maximum Interest (MW) TH REGION	-25		0	Export in MU  0.3  0	-0.3 0
2 3 4	132KV-Karn 132KV-Riha 220KV-Pusa	nwa-Rihand nnasa (PG)-S nd-Sonnagar uli (PG)-Sahi	Sahupuri(UP) (PG) upuri(UP)	(MW Impor 16 - - 152	V) rt/Export be	MW tween EAST REGIO 7 143	Impor	Maximum Interest (MW) FH REGION 666	-25 - 0		0 0 - 2.81	Export in MU  0.3  0  - 0	-0.3 0 -
2 3 4 5	132KV-Karn 132KV-Riha 220KV-Pusa 400KV-Biha	wa-Rihand nnasa (PG)-S nd-Sonnagar uli (PG)-Sahu rsharif (PG)-	Sahupuri(UP) (PG) upuri(UP) Balia(PG)	(MW Important Im	v) rt/Export be	MW tween EAST REGIO 7 143 156	Impor	Maximum Interest (MW) TH REGION 666	-25 0 0		0 0 - 2.81 4.31	0.3 0 - 0	-0.3 0 - 2.81 4.31
2 3 4 5 6	132KV-Karn 132KV-Riha 220KV-Pusa 400KV-Biha	wa-Rihand nnasa (PG)-S nd-Sonnagar uli (PG)-Sahu rsharif (PG)-	Sahupuri(UP) (PG) upuri(UP)	(MW Impor 16 - - 152 217 38	V) rt/Export be	MW tween EAST REGIO 7 143 156 -19	Impor	Maximum Interest (MW) FH REGION 666 884	-25 - 0 0 140		0 0 - 2.81 4.31 0.58	Export in MU	-0.3 0 - 2.81 4.31 0.58
2 3 4 5 6	132KV-Karn 132KV-Riha 220KV-Pusa 400KV-Bihal 400KV-Moti	nwa-Rihand nnasa (PG)-S nd-Sonnagar uli (PG)-Sahi rsharif (PG)- rsharif (PG)- hari (DMT)-	Sahupuri(UP) (PG) upuri(UP) Balia(PG)	(MW Important Im	V) rt/Export be	MW tween EAST REGIO 7 143 156	Impor	Maximum Interest (MW) TH REGION 666	-25 0 0		0 0 - 2.81 4.31	0.3 0 - 0	-0.3 0 - 2.81 4.31
2 3 4 5 6	132KV-Karn 132KV-Riha 220KV-Pusa 400KV-Biha 400KV-Biha	nwa-Rihand mnasa (PG)-S nd-Sonnagar uli (PG)-Sahu rsharif (PG)- rsharif (PG)- hari (DMT)-0 affarpur	iahupuri(UP) (PG) upuri(UP) Balia(PG) Varanasi(PG)	(MW Impor 16 - - 152 217 38	y) rt/Export be	MW tween EAST REGIO 7 143 156 -19	Impor	Maximum Interest (MW) FH REGION 666 884	-25 - 0 0 140		0 0 - 2.81 4.31 0.58	Export in MU	-0.3 0 - 2.81 4.31 0.58
2 3 4 5 6 7 8	132KV-Karn 132KV-Riha 220KV-Pusa 400KV-Biha 400KV-Moti 400KV-Moti	nwa-Rihand nnasa (PG)-S nd-Sonnagar uli (PG)-Sahi rsharif (PG)- rsharif (PG)- hari (DMT)-t affarpur npur(UP)	iahupuri(UP) (PG) upuri(UP) Balia(PG) Varanasi(PG) Gorakhpur(UP)	(MW Importance of the content of the	v) rt/Export be	MW tween EAST REGIO 7 - 143 156 -19 239	Impor N and NORT	Maximum Inter- t (MW) TH REGION 666 884 90	-25 0 0 140 0		0 0 - 2.81 4.31 0.58 4.72	Export in MU	-0.3 0 - 2.81 4.31 0.58 4.72
2 3 4 5 6 7 8	132KV-Karn 132KV-Riha 220KV-Pusa 400KV-Biha 400KV-Moti 400KV-Moti 400KV-Muzz (PG)-Gorakl	nwa-Rihand nnasa (PG)-S nd-Sonnagar uli (PG)-Sahr rsharif (PG)- hari (DMT)-( affarpur npur(UP) a (PG)-Balia(	isahupuri(UP) (PG) upuri(UP) Balia(PG) Varanasi(PG) Gorakhpur(UP)	(MW Important Im	y) rt/Export be	MW tween EAST REGIO 7 143 156 -19 239 446	Impor N and NORT  1 2 2 6 8	Maximum Inter- t (MW) FH REGION 66 84 90 665	-25 - 0 0 140 0 0		0 0 - 2.81 4.31 0.58 4.72	0.3 0 0 0 0 0 0 0 0 0 0	NET  -0.3  0  -  2.81  4.31  0.58  4.72  10.94
2 3 4 5 6 7 8	132KV-Karn 132KV-Riha 220KV-Pusa 400KV-Biha 400KV-Moti 400KV-Moti 400KV-Muzz (PG)-Goraki 400KV-Patna	nwa-Rihand nnasa (PG)-S nd-Sonnagar uli (PG)-Sahu rsharif (PG)- rsharif (PG)- hari (DMT)-taffarpur npur(UP) a (PG)-Balia( ram-Allahaba	Sahupuri(UP)  (PG)  upuri(UP)  Balia(PG)  Varanasi(PG)  Gorakhpur(UP)  (PG)  ad (PG)	(MW Importance of the control of the	v) rt/Export be	MW tween EAST REGIO 7 143 156 -19 239 446 591	1 1 2 9 6 8 8 1 1	Maximum Inter- tr (MW) FH REGION	-25 0 0 140 0 0 0		0 0 - 2.81 4.31 0.58 4.72 10.94	Export in MU	NET  -0.3  0  -  2.81  4.31  0.58  4.72  10.94  13.55
2 3 4 5 6 7 8 9 10	132KV-Karn 132KV-Riha 220KV-Pusa 400KV-Biha 400KV-Moti 400KV-Muza (PG)-Gorakl 400KV-Patna 400KV-Sasar	awa-Rihand mnasa (PG)-S nd-Sonnagar uli (PG)-Sahu rsharif (PG)- rshari (DMT)-( affarpur npur(UP) a (PG)-Balia( ram-Allahabi ram-Varanas	Sahupuri(UP)  (PG)  upuri(UP)  Balia(PG)  Varanasi(PG)  Gorakhpur(UP)  (PG)  ad (PG)  si (PG)	(MW Important 16	rt/Export be	MW tween EAST REGIO 7 - 143 156 -19 239 446 591 60	1 1 2 2 5 6 8 8 1 1 2 2	Maximum Interest (MW) FH REGION	-25 - 0 0 140 0 0 0 0 0		0 0 - 2.81 4.31 0.58 4.72 10.94 13.55 1.47	Export in MU  0.3  0  - 0  0  0  0  0  0  0  0  0  0	NET  -0.3  0  -  2.81  4.31  0.58  4.72  10.94  13.55  1.47
2 3 4 5 6 7 8 9 10	132KV-Karn 132KV-Riha 220KV-Pusa 400KV-Biha 400KV-Moti 400KV-Muzi (PG)-Gorakl 400KV-Patna 400KV-Sasai	nwa-Rihand nnasa (PG)-S nd-Sonnagar uli (PG)-Sahu rsharif (PG)- rsharif (PG)- hari (DMT)-0 affarpur npur(UP) a (PG)-Balia( ram-Allahaba ram-Varanas	Sahupuri(UP)  (PG)  upuri(UP)  Balia(PG)  Varanasi(PG)  Gorakhpur(UP)  (PG)  ad (PG)  si (PG)  ssaram.	(MW Importance of the content of the	v) rt/Export be	MW tween EAST REGIO 7 143 156 -19 239 446 591 60 -181	1 1 2 9 6 8 8 1 1 2 2 1 1	Maximum Interct (MW) FH REGION	-25 0 0 140 0 0 0 0 0 0 0 0		0 0 - 2.81 4.31 0.58 4.72 10.94 13.55 1.47 4.4	Export in MU	NET  -0.3  0  -  2.81  4.31  0.58  4.72  10.94  13.55  1.47  4.4
2 3 4 5 6 7 8 9 10 11 12 13	132KV-Karn 132KV-Riha 220KV-Pusa 400KV-Biha 400KV-Moti 400KV-Muzz (PG)-Gorakl 400KV-Patn: 400KV-Sasar 400KV-Sasar 765KV-Fatel	nwa-Rihand nnasa (PG)-S nd-Sonnagar uli (PG)-Sahi rsharif (PG)- rsharif (PMT)-t affarpur npur(UP) a (PG)-Balia( ram-Allahabi ram-Varanas npur (PG)-Sa n (PG)-Balia(	isahupuri(UP) (PG) upuri(UP) Balia(PG) Varanasi(PG) Gorakhpur(UP)  (PG) ad (PG) asaram. PG)	(MW Important Im	v) rt/Export be	MW tween EAST REGIO 7 143 156 -19 239 446 591 60 -181 37	1 1 2 2 6 8 8 1 1 2 3 3	Maximum Inter- tr (MW) TH REGION	-25 0 0 140 0 0 0 0 158		0 0 - 2.81 4.31 0.58 4.72 10.94 13.55 1.47 4.4	Export in MU  0.3  0  0  0  0  0  0  0  0  0  0  0  0  0	NET  -0.3  0  -  2.81  4.31  0.58  4.72  10.94  13.55  1.47  4.4  0.34
2 3 4 5 6 7 8 9 10 11 12 13	132KV-Karn 132KV-Riha 220KV-Pusa 400KV-Biha 400KV-Moti 400KV-Moti 400KV-Muzz (PG)-Gorakl 400KV-Sasar 400KV-Sasar 765KV-Fatel 765KV-Gaya	nwa-Rihand nnasa (PG)-S nd-Sonnagar uli (PG)-Sahr rsharif (PG)- rsharif (PG)- hari (DMT)-0 affarpur npur(UP) a (PG)-Balia( ram-Allahab: ram-Varanas npur (PG)-Sa a (PG)-Balia( n (PG)-Varan	isahupuri(UP) (PG) upuri(UP) Balia(PG) Varanasi(PG) Gorakhpur(UP) (PG) ad (PG) si (PG) ssaram. PG) assi(PG)	(MW Importance of the content of the	V)  rt/Export be  2  7  0  0  8  8  8  0	MW tween EAST REGIO  7  -  143  156  -19  239  446  591  60  -181  37  212	1 1 2 2 3 4 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Maximum Inter- t (MW) FH REGION	-25 0 0 140 0 0 0 0 158 0 0		0 0 - 2.81 4.31 0.58 4.72 10.94 13.55 1.47 4.4 0.34 5.83	Export in MU  0.3  0  - 0  0  0  0  0  0  0  0  0  0  0	NET  -0.3  0  -  2.81  4.31  0.58  4.72  10.94  13.55  1.47  4.4  0.34  5.83
2 3 4 5 6 7 8 9 10 11 12 13 14 15	132KV-Karn 132KV-Riha 220KV-Pusa 400KV-Biha 400KV-Moti 400KV-Muzi (PG)-Gorakl 400KV-Patna 400KV-Sasar 400KV-Sasar 765KV-Gaya 765KV-Gaya	nwa-Rihand nnasa (PG)-S nd-Sonnagar uli (PG)-Sahi rsharif (PG)- rsharif (PG)- hari (DMT)-t affarpur npur(UP) a (PG)-Balia( ram-Allahaba ram-Varanas npur (PG)-Sa i (PG)-Balia( i (PG)-Varan V-Alipurduai	isahupuri(UP) (PG) upuri(UP) Balia(PG) Varanasi(PG) Gorakhpur(UP) (PG) ad (PG) si (PG) ssaram. PG) assi(PG)	(MW Importance of the content of the	V)  rt/Export be  2  7  0  0  8  8  0  0	MW tween EAST REGIO 7 - 143 156 -19 239 446 591 60 -181 37 212 -190	1 1 2 2 6 8 8 1 1 2 2 3 3 4 4 3 3	Maximum Inter- tr (MW) TH REGION	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		0 0 - 2.81 4.31 0.58 4.72 10.94 13.55 1.47 4.4 0.34 5.83 4.5	Export in MU  0.3  0  0  0  0  0  0  0  0  0  0  0  0  0	NET  -0.3  0  -  2.81  4.31  0.58  4.72  10.94  13.55  1.47  4.4  0.34  5.83  4.5
2 3 4 5 6 7 8 9 10 11 12 13 14 15	132KV-Karn 132KV-Riha 220KV-Pusa 400KV-Bihai 400KV-Moti 400KV-Muza (PG)-Gorakl 400KV-Sasai 400KV-Sasai 765KV-Fatel 765KV-Gaya 765KV-Gaya	nwa-Rihand nnasa (PG)-S nd-Sonnagar uli (PG)-Sahi rsharif (PG)- rsharif (PG)- hari (DMT)-t affarpur npur(UP) a (PG)-Balia( ram-Allahaba ram-Varanas npur (PG)-Sa i (PG)-Balia( i (PG)-Varan V-Alipurduai	isahupuri(UP) (PG) upuri(UP) Balia(PG) Varanasi(PG) Gorakhpur(UP) (PG) ad (PG) si (PG) ssaram. PG) assi(PG)	(MW Importance of MW Im	V)  rt/Export be  2  7  0  0  8  8  0  0  0  0  0  0  0  0  0	MW tween EAST REGIO  7  -  143  156  -19  239  446  591  60  -181  37  212  -190  225	1 1 2 2 9 6 8 8 1 1 3 3 4 4 3 3 3,	Maximum Interest (MW) FH REGION	Export (1  -25  -  0  0  140  0  0  158  0  0  273		0 0 - 2.81 4.31 0.58 4.72 10.94 13.55 1.47 4.4 0.34 5.83 4.5 6.66	Export in MU  0.3  0  0  0  0  0  0  0  0  0  0  0  0  0	NET  -0.3  0  -  2.81  4.31  0.58  4.72  10.94  13.55  1.47  4.4  0.34  5.83  4.5  6.66
2 3 4 5 6 7 8 9 10 11 12 13 14 15 Sub-	132KV-Karn 132KV-Riha 220KV-Pusa 400KV-Bihai 400KV-Moti 400KV-Muzi (PG)-Gorakl 400KV-Patn: 400KV-Sasar 400KV-Sasar 765KV-Fatel 765KV-Gaya HVDC800KV Total EAST	awa-Rihand annasa (PG)-S and-Sonnagar uli (PG)-Saha rsharif (PG)- rsharif (PG)- hari (DMT)-0 affarpur apur(UP) a (PG)-Balia( ram-Allahab ram-Varanas apur (PG)-Sa a (PG)-Balia( a (PG)-Varan V-Alipurdual C REGION	isahupuri(UP) (PG) upuri(UP) Balia(PG) Varanasi(PG) Gorakhpur(UP) (PG) ad (PG) si (PG) ssaram. PG) assi(PG)	(MW Importance of MW Im	v) rt/Export be  2 7 0 0 8 8 0 0 port between	MW tween EAST REGIO 7 143 156 -19 239 446 591 60 -181 37 212 -190 225 1,726	1 1 2 2 6 6 8 1 1 2 2 1 3 3 4 4 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	Maximum Interest (MW) FH REGION	Export (1  -25  -  0  0  140  0  0  158  0  0  273		0 0 - 2.81 4.31 0.58 4.72 10.94 13.55 1.47 4.4 0.34 5.83 4.5 6.66	Export in MU  0.3  0  0  0  0  0  0  0  0  0  0  0  0  0	NET  -0.3  0  -  2.81  4.31  0.58  4.72  10.94  13.55  1.47  4.4  0.34  5.83  4.5  6.66

		Import/Export be	etween WEST REGIO	ON and NORTH REGION				
1	220KV-Auraiya (NT)-Malanpur(PG)	-84	-98	-	136	0	2.31	-2.31
2	220KV-Bhanpur-Modak	53	4	83	-12	0.93	0	0.93
3	220KV-Ranpur-Bhanpur	31	22	47	-	0.73	0	0.73
4	400KV-RAPS C (NP)-Sujalpur	150	-170	218	235	0	0.49	-0.49
5	400KV-Vindhyachal (PG)-Rihand(NT)	943	672	-	952	0	20.56	-20.56
6	400KV-Zerda (PG)-Bhinmal(PG)	106	-240	0	287	0	1.19	-1.19
7	400KV-Zerda (PG)-Kankroli(RJ)	45	-224	48	250	0	3.18	-3.18
8	765KV-0rai-Gwalior (PG)	-280	-211	0	-383	0	7.32	-7.32
9	765KV-0rai-Jabalpur	1,069	712	1,475	0	23.05	0	23.05
10	765KV-0rai-Satna	856	716	979	0	18.92	0	18.92
11	765KV-Chittorgarh-Banaskata D/C	-436	447	648	774	0	4.67	-4.67
12	765KV-Gwalior (PG)-Agra(PG)	1,678	836	1,780	0	25.41	0	25.41
13	765KV-Phagi (RJ)-Gwalior(PG)	627	282	873	-	12.68	0	12.68
14	HVDC500KV-Mundra (JH)-Mohindergarh(JH)	998	1,001	1,002	0	24.25	0	24.25
15	HVDC500KV-Vindhyachal (PG)-Vindhaychal B/B	200	200	200	50	4.54	0.78	3.76
16	HVDC800KV-Champa (PG)-Kurukshetra(PG)(PG)	750	750	750	0	17.59	0	17.59
Su	b-Total WEST REGION	6,706	4,699	8,103	2,289	128.1	40.5	87.6
Γ	OTAL IR EXCHANGE	9,636	6,925	12,713	2,562	202.75	40.8	161.95
4(B) Inter Regio	nal Schedule & Actual Exchange (Import		in MU		170 (1 ) 1			

	ISGS/(LT+MT) Schedule	BILT Schedule	PX Schedule	RTM Schedule	Total IR Schedule	Total IR Actual	NET IR UI
NR-ER	46.21	6.18	-0.16	0.03	52,26	74.35	22.09
NR-WR	132.5	32.05	-31.84	-1.02	131.69	87.6	-44.09
Total	178.71	38.23	-32	-0.99	183.95	161.95	-22

5.Inter National Exchange with Nepal [Import (+ve)/Export(-ve)] [Linkwise]

Element	Peak	Off-Peak	Maximum Inte	rchange(MW)	Energy (MU)		Net Energy
	MW	MW	Import	Export	Import	Export	(MU)
132KV-Tanakpur(NH)-Mahendranagar(PG)	14	0		14		0.05	-0.05

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	3.1	27.8	68.8	22.7	5	.4	28.1
<>	•			•		-		•		

Freq Variation Freq Dev Index Standard Freq. in 15 mnt blk Maximum Minimum Average Max. Frequency Time Frequency Time Frequency Index Deviation Min. (% of Time) 50.22 06:04:30 50.02 0.035 50.14 49.9 49.81 22:15:10 0.055 31.2

6.Voltage Profile: 400kV

	M	aximum	Minim	um		Volta	ge (in %)		Voltage Deviation Index
					< 380	< 390	> 420	> 430	(% of time)
Abdullapur(PG) - 400KV	427	03:55	407	22:15	0	0	33.33	0	33.33
Amritsar(PG) - 400KV	423	03:55	406	22:15	0	0	15.28	0	15.28
Ballabgarh(PG) - 400KV	422	03:55	401	22:50	0	0	9.03	0	9.03
Bareilly II(PG) - 400KV	421	06:05	400	22:50	0	0	.69	0	.69
Bareilly(UP) - 400KV	422	06:00	401	22:50	0	0	1.04	0	1.04
Baspa(HP) - 400KV	418	03:30	405	19:45	0	0	0	0	0
Bassi(PG) - 400KV	423	18:00	402	09:20	0	0	12.5	0	12.5
Bawana(DTL) - 400KV	425	05:00	400	22:15	0	0	23.61	0	23.61
Dadri HVDC(PG). - 400KV	423	05:00	404	22:15	0	0	17.71	0	17.71
Gorakhpur(PG) - 400KV	418	06:00	396	22:50	0	0	0	0	0
Hisar(PG) - 400KV	424	03:55	404	22:15	0	0	21.53	0	21.53
Kanpur(PG) - 400KV	416	06:00	400	22:50	0	0	0	0	0
Kashipur(UT) - 400KV	421	06:05	411	22:15	0	0	11.11	0	11.11
Kishenpur(PG) - 400KV	417	03:55	409	22:10	0	0	0	0	0
Moga(PG) - 400KV	415	03:55	382	22:10	0	13.54	0	0	0
Nallagarh(PG) - 400KV	418	03:30	405	19:45	0	0	0	0	0
Rihand HVDC(PG) - 400KV	408	06:00	401	22:50	0	0	0	0	0

Rihand(NT) - 400KV	406	06:00	400	22:50	0	0	0	0	0
6.1 Voltage Profile: 7	765kV	,			4		•	,	
		aximum	Minimu	ım		Volta	ge (in %)		Voltage Deviation Index
					< 728	< 742	> 800	> 820	
Anta RS(RJ) - 765KV	785	17:35	767	09:15	0	0	0	0	0
Balia(PG) - 765KV	785	06:00	754	22:50	0	0	0	0	0
Bareilly II(PG) - 765KV	801	06:00	762	22:50	0	0	.69	0	.69
Bhiwani(PG) - 765KV	798	18:05	767	22:20	0	0	0	0	0
Fatehpur(PG) - 765KV	771	18:00	744	22:50	0	0	0	0	0
Jhatikara(PG) - 765KV	799	05:00	762	22:15	0	0	0	0	0
Lucknow II(PG) - 765KV	795	06:00	757	22:55	0	0	0	0	0
Meerut(PG) - 765KV	797	05:00	761	22:15	0	0	0	0	0
Moga(PG) - 765KV	783	05:00	753	22:15	0	0	0	0	0
Phagi(RJ) - 765KV	797	18:00	767	09:15	0	0	0	0	0
Unnao(UP) - 765KV	778	06:00	739	22:50	0	5.21	0	0	0
7(A). Short-Term Op	oen Access Details:	Off. Peak Hours (03:		1		Peak Hour	<u> </u>		

		0	ff- Peak Hours (03:0	0)				Peak Hours (20:00)		
State	Bilateral (MW)	IEX (MW)	IEX RTM (MW)	PXIL (MW)	PXI RTM (MW)	Bilateral (MW)	IEX (MW)	IEX RTM (MW)	PXIL (MW)	PXI RTM (MW)
PUNJAB	247.18	495.15	0	0	0	247.18	693.21	0	0	0
HARYANA	128.72	64.24	0	0	0	127.24	59.71	0	0	0
RAJASTHAN	-341.5	-928.56	0	-101.75	0	-242.8	23.7	0	0	0
DELHI	880.03	-260.31	0	0	0	669.4	-203.13	79.22	0	0
UTTAR PRADESH	2,568.22	-56.41	0	0	0	2,233.03	-49.75	0	0	0
UTTARAKHAND	2.45	-141.07	0	0	0	2.45	-74.6	2.94	0	0
HIMACHAL PRADESH	-1,077.61	-309.07	0	0	0	-941.21	-605.8	0	-20.25	0
J&K(UT) & LADAKH(UT)	-72.96	-997.18	-2.72	0	0	-74.14	-755.44	-40.29	0	0
CHANDIGARH	0	-80.38	0	0	0	0	-99.97	0	0	0
TOTAL	2,334.53	-2,213.59	-2.72	-101.75	0	2,021.15	-1,012.07	41.87	-20.25	0

			Day Energy (MU)		
State	ISGS/(LT+MT) Schedule	BILT Schedule	PX Schedule	RTM Schedule	Total (MU)
PUNJAB	79.65	5.93	16.84	0	102.41
HARYANA	93	3.5	1.74	0	98.24
RAJASTHAN	73.47	-7.51	-4.4	-0.02	61.52
DELHI	50.18	21.6	-6.94	-0.12	64.74
UTTAR PRADESH	151.15	37.54	-5.27	0	183.43
UTTARAKHAND	12.79	0.06	-1.3	0.03	11.58
HIMACHAL PRADESH	26.96	-21.35	-8.07	0	-2.45
J&K(UT) & LADAKH(UT)	39.72	-1.79	-19.28	-0.04	18.62
CHANDIGARH	5.6	0	-1.43	-0.03	4.14
TOTAL	532.52	37.98	-28.11	-0.18	542.23

7(B). Short-Term Open Access Details

	ISGS/(LT-	+MT) Schedule	Bilateral (MW)		IEX (MW)		PXIL (MW)	
State	Maximum	Minimum	Maximum	Minimum	Maximum	Minimum	Maximum	Minimum
PUNJAB	3,338.21	2,304.61	247.18	247.18	891.27	495.15	0	0
HARYANA	2,385.89	1,333.24	174.01	73.05	100.8	46.9	0	0
RAJASTHAN	3,185.28	1,649.19	-242.8	-342.53	25.75	-1,089.14	0	-101.75
DELHI	2,077.64	1,281.21	1,143.53	468.77	-71.45	-692.36	0	0
UTTAR PRADESH	5,464.78	3,463.05	2,620.18	757.11	53.92	-1,708.86	0	0
UTTARAKHAND	820.4	335.35	2.45	2.45	27.74	-166.55	0	0
HIMACHAL PRADESH	1,446.89	864.89	-701.71	-1,193.12	-123.52	-728.8	0	-50.62
J&K(UT) & Ladakh(UT)	2,064	1,429.93	-72.96	-76.98	-579.17	-1,001.41	0	0
CHANDIGARH	299.43	183.93	0	0	0	-99.97	0	0

	IEX RT	M (MW)	PXI RT	M (MW)
State	Maximum	Minimum	Maximum	Minimum
PUNJAB	0	0	0	0
HARYANA	0	0	0	0
RAJASTHAN	0	-48.84	0	0
DELHI	79.22	-105.5	0	0
UTTAR PRADESH	0	0	0	0
UTTARAKHAND	2.94	0	0	0
HIMACHAL PRADESH	0	0	0	0
J&K(UT) & LADAKH(UT)	0	-50.36	0	0
CHANDIGARH	0	-19.09	0	0

8.Major Reservoir Particulars

	Parameters			Present Parameters		LAST YEAR		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	475.8	368	491.59	788	632.03	633.39
Chamera-I	748.75	760	753.95	-	-	-	-	-	0
Gandhisagar	381	399.9	725	-	-	-	-	-	0
Jawahar Sagar	295.78	298.7	2.01	-	-	-	-	-	0
Koteshwar	598.5	612.5	610.73	610.9	5	610.22	5	344	326.06
Pong	384.05	426.72	1,084	409.49	474	406.97	398	204.65	434.8
RPS	343.81	352.8	175.66	-	-	-	-	-	0
RSD	487.91	527.91	390.3	513.7	259	516.4	277	328.98	107.59
Rihand	252.98	268.22	860.5	256.98	157	255.64	102	-	4,956.36
Tehri	740.04	829.79	1,291.49	758.64	110	744.22	20	170.4	344
TOTAL	-	-	-	-	1,373	-	1,590	1,680.06	6,802.2

#### 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

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

## 10. Zero Crossing Violations

State	No. of violations(Maximum 8 in a day)	Maximum number of continuous blocks without sign change
CHANDIGARH	3	22
DELHI	4	26
HARYANA	1	16
HIMACHAL PRADESH	2	22
J&K(UT) & Ladakh(UT)	1	19
PUNJAB	1	14
RAJASTHAN	2	15
UTTAR PRADESH	0	12
UTTARAKHAND	3	30

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 :

16. Tripping of lines in pooling stations:

17. Complete generation loss in a generating station :

#### 18.Remarks:

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**