

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

455.32

460.06

460.37

0.31

927.68

915.69

11.99

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

1. Regional Availability/Demand:

Date of Reporting:02-Mar-2019

| | | Evening Peak (19:00) | Evening Peak (19:00) MW Demand Met Shortage(-)/Surplus(+) Peguirement Free (H | | | Off-Pea | nk (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 |
| | 43,710 | 1,109 | 44,819 | 50.08 | 30,056 | 349 | 30,405 | 50.09 | 916 | 11.99 |

| | | | State's Contro | ol Area Ger | neration (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 | 50.37 | 11.05 | 0 | 3.89 | 0 | 2.51 | 67.82 | 39.85 | 38.99 | -0.86 | 106.81 | 0 | 106.81 |
| HARYANA | 31.53 | 0.74 | 4.08 | 0.18 | 0 | 1.1 | 37.63 | 85.45 | 86.1 | 0.65 | 123.73 | 0 | 123.73 |
| RAJASTHAN | 125.2 | 4.52 | 1.85 | 13.39 | 18.21 | 0.49 | 163.66 | 66.91 | 67.68 | 0.77 | 231.34 | 0 | 231.34 |
| DELHI | -0.02 | 0 | 4.75 | 0 | 0 | 0.48 | 5.21 | 60.66 | 60.2 | -0.46 | 65.48 | 0.07 | 65.41 |
| UTTAR PRADESH | 118.15 | 7.82 | 0 | 3.4 | 0 | 21.6 | 150.97 | 116.07 | 117 | 0.93 | 267.97 | 0 | 267.97 |
| UTTARAKHAND | 0 | 9.1 | 4.44 | 0.88 | 0 | 0.7 | 15.11 | 21.91 | 21.87 | -0.04 | 36.98 | 0 | 36.98 |
| HIMACHAL PRADESH | 0 | 3.88 | 0 | 0 | 0 | 3.12 | 7 | 22.53 | 22.51 | -0.02 | 29.51 | 0 | 29.51 |
| JAMMU & KASHMIR | 0 | 7.92 | 0 | 0 | 0 | 0 | 7.92 | 42.97 | 42.58 | -0.39 | 62.42 | 11.92 | 50.5 |
| CHANDIGARH | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3.71 | 3.44 | -0.27 | 3.44 | 0 | 3.44 |

30

2(B)State Demand Met (Peak and off-peak Hrs)

325.23

Region

45.03

| | | Evening Pe | ak (19:00) MW | | | Off-Peak (03:00) | MW | |
|---------------------|------------|------------------------|---------------|------------------------|------------|------------------|-----|------------------------|
| State | Demand Met | Shortage(-)/Surplus(+) | UI | STOA/PX Transaction | Demand Met | Shortage(-)/Sur | UI | STOA/PX Transaction |
| PUNJAB | 5,077 | 0 | -149 | -1,594 | 3,143 | 0 | -23 | -1,191 |
| HARYANA | 6,006 | 0 | 16 | -646 | 3,943 | 0 | 46 | -586 |
| RAJASTHAN | 9,653 | 0 | 17 | -354 | 7,705 | 0 | 178 | -386 |
| DELHI | 3,093 | 0 | -131 | -954 | 1,521 | 0 | 6 | -1,423 |
| UTTAR PRADESH | 14,190 | 540 | 572 | 454 | 9,551 | 0 | 64 | -326 |
| UTTARAKHAND | 1,824 | 0 | 91 | 446 | 1,245 | 0 | 43 | 306 |
| HIMACHAL PRADESH | 1,416 | 0 | 48 | 555 | 888 | 0 | -25 | 355 |
| JAMMU & KASHMIR | 2,274 | 569 | 21 | 446 | 1,976 | 349 | 135 | 384 |
| CHANDIGARH | 178 | 0 | -27 | 0 | 84 | 0 | -6 | -30 |
| Region | 43,711 | 1,109 | 458 | -1,647 | 30,056 | 349 | 418 | -2,897 |

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

21.74

18.21

15.12

| | Maximum Dei | | onding shortage and re for the day | quirement details | Maximum | requiremen | t, corresponding shortage | e and demand deta | ils for the da | ny |
|-------------|-------------------------------------|-------|--|--|--------------------------------------|------------|---|---|----------------------|-------|
| 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 | Min Demand Met | Time |
| PUNJAB | 5,356 | 8:00 | 0 | 5,356 | 5,356 | 8:00 | 0 | 5,356 | 3,133 | 2:00 |
| HARYANA | 6,080 | 20:00 | 0 | 6,080 | 6,080 | 20:00 | 0 | 6,080 | 3,864 | 2:00 |
| RAJASTHAN | 11,428 | 12:00 | 0 | 11,428 | 11,428 | 12:00 | 0 | 11,428 | 7,009 | 5:00 |
| DELHI | 3,952 | 11:00 | 0 | 3,952 | 3,952 | 11:00 | 0 | 3,952 | 1,478 | 4:00 |
| UP | 14,458 | 20:00 | 370 | 14,828 | 14,828 | 20:00 | 370 | 14,458 | 9,154 | 17:00 |
| UTTARAKHAND | 2,002 | 8:00 | 0 | 2,002 | 2,002 | 8:00 | 0 | 2,002 | 1,237 | 4:00 |
| HP | 1,683 | 9:00 | 0 | 1,683 | 1,683 | 9:00 | 0 | 1,683 | 871 | 4:00 |
| J&K | 2,533 | 20:00 | 633 | 3,167 | 3,167 | 20:00 | 633 | 2,533 | 1,778 | 6:00 |
| CHANDIGARH | 223 | 8:00 | 0 | 223 | 223 | 8:00 | 0 | 223 | 84 | 3:00 |
| NR | 44,551 | 20:00 | 1,003 | 45,554 | 45,554 | 20:00 | 1,003 | 44,551 | 29,760 | 4:00 |

3(A) State Entities Generation:

| CHANDICA DI | | | | | | | |
|----------------------|----------------|---------|-------------|----------|----|------------|---------|
| CHANDIGARH | | | | - | | | |
| Station/Constituents | 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 | • | | • | • | • | | |
| Total | 0 | 0 | 0 | | | 0 | 0 |
| Total | 0 | 0 | 0 | | | 0 | 0 |

| DELHI | | | | | | | |
|---|----------------|---------|-------------|----------|-----|------------|---------|
| | Inst. Capacity | 19:00 | 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) | 705 | 0 | 0 | 0 | | -0.02 | -1 |
| RAJGHAT TPS(2 * 67.5) | 135 | 0 | 0 | 0 | | | |
| Total THERMAL | 840 | 0 | 0 | | | -0.02 | -1 |
| BAWANA GPS(2 * 253 + 4 * 216) | 1,370 | 209 | 139 | 0 | | 3.52 | 147 |
| DELHI GAS TURBINES(3 * 34 + 6 * 30) | 282 | 40 | 31 | 0 | | 1.24 | 52 |
| PRAGATI GAS TURBINES(1 * 121.2 + 2 * 104.6) | 331 | -2 | -2 | 0 | | -0.01 | 0 |
| RITHALA GPS(3*36) | 108 | 0 | 0 | 0 | | | |
| Total GAS/NAPTHA/DIESEL | 2,091 | 247 | 168 | | | 4.75 | 199 |
| WIND | 0 | 0 | 0 | 0 | | | |
| BIOMASS(1 * 16) | 16 | 29 | 39 | 0 | | 0.48 | 20 |
| SOLAR(1*2) | 2 | 0 | 0 | 0 | | | |
| Total DELHI | 2,949 | 276 | 207 | | | 5.21 | 218 |

| | Inst. Capacity | 19:00 | 03:00 | 03:00 Day Pea | | Day Energy | |
|--|----------------|---------|-------------|---------------|-------|------------|---------|
| Station/Constituents | (MW) | Peak MW | Off Peak MW | (MW) | Hrs | (MU) | AVG. MW |
| DCRTPP (YAMUNA NAGAR)(2 * 300) | 600 | 477 | 498 | 575 | 10:00 | 11.86 | 494 |
| JHAJJAR(CLP)(2 * 660) | 1,320 | 747 | 741 | 1,072 | 12:00 | 19.67 | 820 |
| MAGNUM DIESEL (IPP)(4 * 6.3) | 25 | 0 | 0 | 0 | | | |
| PANIPAT TPS(2 * 210 + 2 * 250) | 920 | 0 | 0 | 0 | | | |
| RGTPP(KHEDAR)(2 * 600) | 1,200 | 0 | 0 | 0 | | | |
| Total THERMAL | 4,065 | 1,224 | 1,239 | | | 31.53 | 1,314 |
| FARIDABAD GPS(1 * 156.07 + 2 * 137.75) | 432 | 199 | 165 | 199 | 12:00 | 4.08 | 170 |
| Total GAS/NAPTHA/DIESEL | 432 | 199 | 165 | | | 4.08 | 170 |
| TOTAL HYDRO HARYANA(1 * 62) | 62 | 21 | 27 | 27 | 02:00 | 0.74 | 31 |
| Total HYDEL | 62 | 21 | 27 | | | 0.74 | 31 |
| WIND | 0 | 0 | 0 | 0 | | | |
| BIOMASS(1 * 106) | 106 | 0 | 0 | 0 | | 1.1 | 46 |
| SOLAR(1*50) | 50 | 0 | 0 | 0 | | 0.18 | 8 |
| Total HARYANA | 4,715 | 1,444 | 1,431 | | | 37.63 | 1,569 |

| HIMACHAL PRADESH | | | | | | | |
|----------------------------|----------------|---------|-------------|----------|-------|------------|---------|
| | Inst. Capacity | 19:00 | 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 | 55 | 0 | 110 | 07:00 | 0.93 | 39 |
| MALANA (IPP) HPS(2 * 43) | 86 | 21 | 0 | 45 | 08:00 | 0.3 | 13 |
| OTHER HYDRO HP(1 * 372) | 372 | 139 | 100 | 140 | 19:00 | 2.66 | 111 |
| Total HYDEL | 758 | 215 | 100 | | | 3.89 | 163 |
| WIND | 0 | 0 | 0 | 0 | | | |
| BIOMASS | 0 | 0 | 0 | 0 | | | |
| SOLAR | 0 | 0 | 0 | 0 | | | |
| SMALL HYDRO(1 * 486) | 486 | 170 | 102 | 170 | 19:00 | 3.12 | 130 |
| Total SMALL HYDRO | 486 | 170 | 102 | | | 3.12 | 130 |
| Total HP | 1,244 | 385 | 202 | | | 7.01 | 293 |

| | Inst. Capacity | 19:00 | 03:00 | Day Po | eak | 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 | 148 | 295 | 0 | | 5.32 | 222 |
| OTHER HYDRO/IPP J&K(1 * 308) | 308 | 100 | 133 | 0 | | 2.6 | 108 |
| Total HYDEL | 1,208 | 248 | 428 | | | 7.92 | 330 |
| 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 | 248 | 428 | | | 7.92 | 330 |

| PUNJAB | | | | | | | |
|---|----------------|---------|-------------|----------|-----|------------|---------|
| | Inst. Capacity | 19:00 | 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 | 484 | 290 | 491 | | 9.67 | 403 |
| GURU GOBIND SINGH TPS (ROPAR)(6 * 210) | 1,260 | 0 | 0 | 0 | | -0.09 | -4 |
| GURU HARGOBIND SINGH TPS (LEHRA MOHABBAT)(2 * 210 + 2 * 250) | 920 | 0 | 0 | 0 | | -0.07 | -3 |
| GURU NANAK DEV TPS (BHATINDA)(4 * 110) | 460 | 0 | 0 | 0 | | -0.01 | 0 |
| RAJPURA(NPL) TPS(2 * 700) | 1,400 | 640 | 463 | 795 | | 13.93 | 580 |
| TALWANDI SABO TPS(3 * 660) | 1,980 | 1,135 | 616 | 1,610 | | 26.93 | 1,122 |
| Total THERMAL | 6,560 | 2,259 | 1,369 | | | 50.36 | 2,098 |
| TOTAL HYDRO PUNJAB(1 * 1000) | 1,000 | 458 | 453 | 481 | | 11.05 | 460 |
| Total HYDEL | 1,000 | 458 | 453 | | | 11.05 | 460 |
| WIND | 0 | 0 | 0 | 0 | | | |
| BIOMASS(1 * 303) | 303 | 0 | 0 | 0 | | 2.51 | 105 |
| SOLAR(1*859) | 859 | 0 | 0 | 560 | | 3.89 | 162 |
| Total PUNJAB | 8,722 | 2,717 | 1,822 | | | 67.81 | 2,825 |

| RAJASTHAN | | | | | | | |
|---|----------------|---------|-------------|--------|-----|------------|---------|
| | Inst. Capacity | 19:00 | 03:00 | Day Pe | ak | Day Energy | |
| Station/Constituents | (MW) | Peak MW | Off Peak MW | (MW) | Hrs | (MU) | AVG. MW |
| BARSINGSAR (IPP) LTPS(2 * 125) | 250 | 218 | 221 | 0 | | 5.29 | 220 |
| CHHABRA TPS(1 * 660 + 4 * 250) | 1,660 | 1,460 | 1,172 | 0 | | 31.57 | 1,315 |
| GIRAL (IPP) LTPS(2 * 125) | 250 | 0 | 0 | 0 | | | |
| KALISINDH TPS(2 * 600) | 1,200 | 1,072 | 813 | 0 | | 23.87 | 995 |
| KAWAI TPS(2 * 660) | 1,320 | 1,181 | 857 | 0 | | 25.15 | 1,048 |
| KOTA TPS(2 * 110 + 2 * 195 + 3 * 210) | 1,240 | 973 | 755 | 0 | | 20.58 | 858 |
| RAJWEST (IPP) LTPS(8 * 135) | 1,080 | 724 | 379 | 0 | | 13.85 | 577 |
| SURATGARH TPS (6 * 250) | 1,500 | 220 | 187 | 0 | | 4.9 | 204 |
| VSLPP (IPP)(1 * 135) | 135 | 0 | 0 | 0 | | | |
| Total THERMAL | 8,635 | 5,848 | 4,384 | | | 125.21 | 5,217 |
| DHOLPUR GPS(3 * 110) | 330 | 0 | 0 | 0 | | | |
| RAMGARH GPS(1 * 110 + 1 * 35.5 + 1 * 50 + 2 * 37.5) | 271 | 60 | 84 | 0 | | 1.85 | 77 |
| Total GAS/NAPTHA/DIESEL | 601 | 60 | 84 | | | 1.85 | 77 |
| RAPS-A(1*100+1*200) | 300 | 0 | 0 | 0 | | | |
| Total NUCLEAR | 300 | 0 | 0 | | | 0 | 0 |
| TOTAL HYDRO RAJASTHAN(1 * 550) | 550 | 288 | 132 | 0 | | 4.52 | 188 |
| Total HYDEL | 550 | 288 | 132 | | | 4.52 | 188 |
| WIND | 4,292 | 169 | 841 | 0 | | 18.21 | 759 |
| BIOMASS(1 * 102) | 102 | 21 | 21 | 0 | | 0.49 | 20 |
| SOLAR(1*1995) | 1,995 | 11 | 0 | 0 | | 13.39 | 558 |
| Total RAJASTHAN | 16,475 | 6,397 | 5,462 | | | 163.67 | 6,819 |

| | Inst. Capacity | 19:00 | 03:00 | Day Po | eak | Day Energy | |
|--|----------------|---------|-------------|--------|-----|------------|---------|
| Station/Constituents | (MW) | Peak MW | Off Peak MW | (MW) | Hrs | (MU) | AVG. MW |
| ANPARA TPS(2*500+3*210) | 1,630 | 1,249 | 1,119 | 0 | | 28.8 | 1,200 |
| ANPARA-C TPS(2 * 600) | 1,200 | 541 | 291 | 0 | | 9.65 | 402 |
| ANPARA-D TPS(2 * 500) | 1,000 | 940 | 940 | 0 | | 21.7 | 904 |
| BAJAJ ENERGY PVT LTD (IPP) TPS(10 * 45) | 450 | 0 | 0 | 0 | | | |
| BARA PPGCL TPS(3 * 660) | 1,980 | 835 | 683 | 0 | | 18.1 | 754 |
| HARDUAGANJ TPS(1 * 105 + 1 * 60 + 2 * 250) | 665 | 442 | 247 | 0 | | 7.1 | 296 |
| 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 | 494 | 323 | 0 | | 10.6 | 442 |
| PANKI TPS(2 * 105) | 210 | 0 | 0 | 0 | | | |
| PARICHA TPS(2 * 110 + 2 * 210 + 2 * 250) | 1,160 | 816 | 468 | 0 | | 14.2 | 592 |
| ROSA TPS(4*300) | 1,200 | 523 | 295 | 0 | | 8 | 333 |
| TANDA TPS(4 * 110) | 440 | 0 | 0 | 0 | | | |
| Total THERMAL | 13,763 | 5,840 | 4,366 | | | 118.15 | 4,923 |
| ALAKHANDA HEP(4 * 82.5) | 330 | 159 | 76 | 0 | | 1.6 | 67 |
| VISHNUPARYAG HPS(4*110) | 440 | 63 | 63 | 0 | | 1.5 | 63 |
| OTHER HYDRO UP(1 * 527) | 527 | 280 | 211 | 0 | | 4.72 | 197 |
| Total HYDEL | 1,297 | 502 | 350 | | | 7.82 | 327 |
| WIND | 0 | 0 | 0 | 0 | | | |
| BIOMASS(1 * 26) | 26 | 0 | 0 | 0 | | | |
| SOLAR(1*472) | 472 | 0 | 0 | 0 | | 3.4 | 142 |
| 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 | 7,242 | 5,616 | | | 150.97 | 6,292 |

| UTTARAKHAND | | | | | | | | | | |
|--|----------------|--|--------------|------------|--------------|----------------|-----------------|-----------------|---------------|---------|
| S4-4: (C4:44- | | Inst. Capacity | 19:00 | 0: | 3:00 | | Day Peak | (| Day Energy | ANC MIN |
| Station/Constituents | | (MW) | Peak MW | Off Po | eak MW | (MW |) | Hrs | (MU) | AVG. MW |
| TOTAL GAS UK(1 * 450) | | 450 | 180 | 1 | 179 | 180 | | 06:00 | 4.44 | 185 |
| Total GAS/NAPTHA/DIESEL | | 450 | 180 | 1 | 179 | | | | 4.44 | 185 |
| OTHER HYDRO UK(1 * 1250) | | 1,250 | 528 | : | 323 | 603 | | 20:00 | 9.1 | 379 |
| Total HYDEL | | 1,250 | 528 | ļ | 323 | | | | 9.1 | 379 |
| WIND | | 0 | 0 | | 0 | 0 | | | | |
| BIOMASS(1 * 127) | | 127 | 29 | | 28 | 29 | | 06:00 | 0.7 | 29 |
| SOLAR(1*100) | | 100 180 | 0 | | 0 | 103 | | 12:00 | 0.88 | 37 |
| SMALL HYDRO(1 * 180) Total SMALL HYDRO | | 180 | 0 | | 0 | 0 | | | 0 | 0 |
| Total UTTARAKHAND | | 2,107 | 737 | | 530 | | | | 15.12 | 630 |
| 3(B) Regional Entities Genera | tion | 2,107 | | | | | | | 10.12 | 000 |
| 5(b) Regional Entitles Genera | Inst. | Declared Capacity | 19:00 | 03:00 | Day | Peak | Da | y Energy | | |
| Station/Constituents | Capacity | | | Off Peak | | | SCHD | | AVG. MW | UI |
| | (MW) | (MW) | Peak MW | MW | (MW) | Hrs | (MU) | ACT (MU) | | |
| BBMB | | | | | | | | | | |
| BHAKRA HPS(2 * 108 + 3 * 126 + 5 * 157) | 1,379 | 650.98 | 1,110 | 436 | 1,110 | 19:00 | 15.62 | 15.63 | 651 | 0.01 |
| DEHAR HPS(6 * 165) | 990 | 221.67 | 495 | 0 | 495 | 19:00 | 5.32 | 5.38 | 224 | 0.06 |
| PONG HPS(6 * 66) | 396 | 227.6 | 258 | 192 | 258 | 19:00 | 5.46 | 5.45 | 227 | -0.01 |
| Sub-Total | 2,765 | 1,100.25 | 1,863 | 628 | - | - | 26.4 | 26.46 | 1,102 | 0.06 |
| NHPC | | | | | | | | | ' | |
| BAIRASIUL HPS(3 * 60) | 180 | 0 | 0 | 0 | 0 | - | 0 | - | - | 0 |
| CHAMERA HPS(3 * 180) | 540 | 361.25 | 360 | 361 | 372 | 06:45 | 8.54 | 8.65 | 360 | 0.11 |
| CHAMERA II HPS(3 * 100) | 300 | 279.66 | 302 | 20 | 302 | 19:00 | 1.77 | 1.82 | 76 | 0.05 |
| CHAMERA III HPS(3 * 77) | 231 | 232.12 | 208 | 0 | 233 | 07:00 | 0.92 | 0.91 | 38 | -0.01 |
| DHAULIGANGA HPS(4*70) | 280 | 211 | 201 | 0 | 219 | 07:00 | 1.04 | 1.06 | 44 | 0.02 |
| DULHASTI HPS(3 * 130) | 390 | 180 | 169 | 40 | 184 | 09:00 | 2.63 | 2.67 | 111 | 0.04 |
| KISHANGANGA(2*110) | 220 | 41.71 | 197 | 25 | 207 | 18:00 | 1 | 1.09 | 45 | 0.09 |
| PARBATI III HEP(4 * 130) | 520 | 0 | 0 | 0 | 0 | - | 0 | 0 | 0 | 0 |
| SALAL HPS(6 * 115) | 690 | 249.79 | 350 | 133 | 472 | 07:00 | 6 | 6.01 | 250 | 0.01 |
| SEWA-II HPS(3*40) TANAKPUR HPS(1*31.42+2* | 120 | 130 | 122 | 121 | 128 | 23:00 | 2.85 | 2.91 | 121 | 0.06 |
| 31.4) | 94 | 38.43 | 51 | 54 | 54 | 03:00 | 0.92 | 0.95 | 40 | 0.03 |
| URI HPS(4 * 120) | 480 | 472.71 | 479 | 476 | 484 | 16:00 | 11.34 | 11.4 | 475 | 0.06 |
| URI-II HPS(4 * 60) | 480 | 232.48 | 244 | 236 | 245 | 11:00 | 5.58 | 5.49 | 229 | -0.09 |
| Sub-Total | 4,525 | 2,429.15 | 2,683 | 1,466 | - | - | 42.59 | 42.96 | 1,789 | 0.37 |
| NPCL | | | | | | | | | | |
| NAPS(2 * 220) | 440 | 329 | 368 | 368 | 381 | 00:00 | 7.9 | 7.9 | 329 | 0 |
| RAPS-B(2 * 220) | 440 | 368 | 409 | 411 | 413 | 04:00 | 8.83 | 8.82 | 368 | -0.01 |
| RAPS-C(2 * 220) | 440 | 425 | 474 | 473 | 475 | 01:00 | 10.2 | 10.26 | 428 | 0.06 |
| Sub-Total | 1,320 | 1,122 | 1,251 | 1,252 | - | - | 26.93 | 26.98 | 1,125 | 0.05 |
| NTPC | | | | | | | | | | |
| ANTA GPS(1 * 153.2 + 3 * 88.71) AURAIYA GPS(2 * 109.3 + 4 * | | 408.81 | 0 | 0 | 0 | - | 0 | • | - | 0 |
| 111.19) | 663 | 649.06 | 0 | 0 | 0 | - | 0 | - | - | 0 |
| DADRI GPS(2 * 154.51 + 4 * 130.19) | 830 | 408.75 | 230 | 348 | 230 | 19:00 | 6.14 | 6.23 | 260 | 0.09 |
| DADRI SOLAR(1*5) | 5 | 0.97 | 0 | 0 | 0 | - | 0.02 | 0.02 | 1 | 0 |
| DADRI-I TPS(4 * 210) | 840 | 768.6 | 509 | 422 | 509 | 19:00 | 12.32 | 12.24 | 510 | -0.08 |
| DADRI-II TPS(2 * 490) | 980 | 387.86 | 388 | 260 | 388 | 19:00 | 6.53 | 5.94 | 248 | -0.59 |
| ISTPP (JHAJJAR)(3 * 500) | 1,500 | 1,421.25 | 1,294 | 850 | 1,505 | 09:00 | 23.99 | 23.85 | 994 | -0.14 |
| KOLDAM HPS(4 * 200) | 800 | 710.77 | 0 | 0 | 0 | 40.00 | 3.5 | 3.47 | 145 | -0.03 |
| RIHAND-I STPS(2 * 500) | 1,000 | 922.5 | 996 | 941 | 996 | 19:00 | 21.72 | 21.52 | 897 | -0.2 |
| RIHAND-II STPS(2 * 500) | 1,000 | 942.5 942.5 | 1,000 960 | 999 | 1,000 | 19:00 | 22.38 | 22.34 | 931 899 | -0.04 |
| RIHAND-III STPS(2 * 500) SINGRAULI STPS(2 * 500 + 5 * | 1,000 2,000 | 1,862.5 | 2,025 | 911 | 960 2,025 | 19:00 19:00 | 21.8 41.49 | 40.92 | 1,705 | -0.22 |
| 200) | 1 1 | , , , , , , , , , , , , , , , , , , , | , | 1 1 | | | | | 1 1 | |
| SINGRAULI SOLAR(1*15) | 15 | 3.21 | 0 | 0 | 0 | 10.00 | 0.08 | 0.08 | 3 | 0 |
| UNCHAHAR II TPS(2 * 210) | 420 | 382.2 | 338 | 229 | 338 193 | 19:00 | 6.14 | 3.38 | 279 141 | 0.55 |
| UNCHAHAR III TPS(1 * 210) UNCHAHAR IV TPS(1 * 500) | 210 500 | 191.1 291.9 | 193 0 | 114 285 | 285 | 19:00 03:00 | 3.08 | 3.53 | 141 | -0.41 |
| UNCHAHAR SOLAR(1*10) | 10 | 2.07 | 0 | 0 | 0 | - | 0.05 | 0.05 | 2 | 0 |
| UNCHAHAR TPS(2 * 210) | 420 | 382.2 | 337 | 232 | 337 | 19:00 | 5.85 | 6.5 | 271 | 0.65 |
| Sub-Total | 12,612 | 10,678.75 | 8,270 | 6,911 | - | - | 179.03 | 178.34 | 7,433 | -0.69 |
| SJVNL | , | . y | ., | -7 | <u> </u> | <u> </u> | | | , | |
| NATHPA-JHAKRI HPS(6 * 250 | 1,500 | 1,497.38 | 1,460 | 0 | 1,460 | 19:00 | 6.9 | 6.92 | 288 | 0.02 |
|) | 1,500 | , and the second | , | ! | | | | | | |
| RAMPUR HEP(6 * 68.67) | 412 | 412.25 | 395 | 0 | 431 | 07:00 | 1.93 | 1.94 | 81 | 0.01 |
| Sub-Total | 1,912 | 1,909.63 | 1,855 | 0 | - | - | 8.83 | 8.86 | 369 | 0.03 |
| THDC | | | | 1 | | | | | | |
| KOTESHWAR HPS(4 * 100) | 400 | 141.96 | 409 | 92 | 409 | 18:00 | 3.41 | 3.41 | 142 | 0 |
| TEHRI HPS(4 * 250) | 1,000 | 856 | 857 | 0 | 871 | 07:00 | 8.6 | 8.6 | 358 | 0 |
| Sub-Total | 1,400 | 997.96 | 1,266 | 92 | - | - | 12.01 295.79 | 12.01 295.61 | 500 12,318 | -0.18 |
| Total | 24,534 | 18,237.74 | 17,188 | 10,349 | | | | | / 41× | |

| IPP/J | V |
|-------|---|
|-------|---|

| IPP/JV | | Inst. | Darland Ca | | 10.00 | 02.00 | D | D1- | D | F | | |
|---|--|---|--|---|--|---|---|---|--------------|---|---|--|
| Station/Constit | tuents | Capacity | Declared Ca | | 19:00 | 03:00 Off Peak | Day | | SCHD | y Energy | AVG. MW | UI |
| | | (MW) | (MW) | | Peak MW | MW | (MW) | Hrs | (MU) | ACT (MU) | | |
| PP | | | | | | | | | | | | |
| ADHPL(IPP) HP | | 192 | 0 | | 82 | 0 | 90 | 20:00 | 0.29 | 0.3 | 13 | 0.01 |
| BUDHIL HPS (IP) KARCHAM WANG | | 70 1,000 | 0 | | 750 | 0 | 34 750 | 07:00 19:00 | 0.27 3.82 | 0.28 3.86 | 12 161 | 0.01 |
| * 250) MALANA2(2 | . | 100 | 0 | | 0 | 0 | 65 | 11:00 | 0.18 | 0.2 | 8 | 0.04 |
| SAINJ HEP(2 | · · | 50 | 0 | | 18 | 17 | 18 | 19:00 | 0.18 | 0.2 | 17 | 0.02 |
| SHREE CEMENT (I | · · · · · · · · · · · · · · · · · · · | 300 | 0 | | 104 | 101 | 140 | 21:00 | 2.27 | 2.21 | 92 | -0.06 |
| Sub-Total | | 1,712 | 0 | I | 954 | 118 | - | - | 7.23 | 7.25 | 303 | 0.02 |
| Total | | 1,712 | 0 | | 954 | 118 | | | 7.23 | 7.25 | 303 | 0.02 |
| Summary Section | | | | | | | | | | | | |
| , | | | Inst. Cap | acity | PEAK | | OFF-PEAK | | Da | y Energy | Day | y AVG. |
| Total State Control A | rea Generatio | n | 54,620 | 5 | 19,446 | | 15,698 | | | 455.34 | 1 | 8,973 |
| J. Net Inter Regional (+ve)/Export (-ve)] | Exchange [Im | port | | | 8,326 | | 5,436 | | | 179.63 | 9 | ,807 |
| Total Regional Availa | ability(Gross) | | 80,872 | 2 | 45,914 | | 31,601 | | | 937.83 | 4 | 1,399 |
| Total Hydra Canarat | ion | | | I | · | ļ | | | | | | |
| Total Hydro Generat | .10N | | Inst. Cap | acity | PEAK | | OFF-PEAK | | Da | y Energy | Dav | y AVG. |
| Regional Entities Hyo | dro | | 12,814 | | 8,517 | | 2,203 | | | 98.8 | | J,117 |
| State Control Area H | lydro | | 6,125 | | 2,260 | | 1,813 | | | 45.04 | 1 | ,877 |
| Total Regional Hydro | 0 | | 18,939 | | 10,777 | | 4,016 | | | 143.84 | | 5,994 |
| Total Renewable Gen | neration | | | | | | | | | | | |
| | | | Inst. Capa | acity | PEAK | | OFF-PEAK | | Da | ny Energy | Day | y AVG. |
| Regional Entities Ren | | | 30 | | 0 | | 0 | | | 0.15 | | 6 |
| State Control Area R | | | 9,214 | | 429 | | 1,031 | | | 48.35 | | 2,015 |
| Total Regional Renev | | | 9,244 | | 429 | <u> </u> | 1,031 | | | 48.5 | <u> </u> | 2,021 |
| 4(A) INTER-REGI | IONAL EXC | HANGES (| Import=(+ve) / | Export =(-ve)) 19:00 | 03:00 | \ \ \ \ \ | Maximum Inter | change (MW) | | | | |
| SL.No. | | Element | - | (MW) | MW | | rt (MW) | Export (I | MW) | Import in MU | Export in MU | NET |
| | I | | | | etween EAST REGIO | • | | | - | I . | IVIU | |
| 1 | 132K | V-Garhwa- | -Rihand | | - | | - | - | | - | - | - |
| 2 | | | -Sahupuri(U | | - | | - | - | | 0 | 0 | 0 |
| 3 | | | magar(PG) | - | - | | - | | | 0 | 0.56 | -0.56 |
| 4 | | | Sahupuri(UP) | 132 | 88 | | 32 | 0 | | 2.58 | 0 | 2.58 |
| <u>5</u> | | | G)-Balia(PG) | 376 130 | 204 | | 397 219 | 43 | | 7.42 2.54 | 0 | 7.42 2.54 |
| 7 | | | P)-Varanası(P P)-Sasaram | - | | | | - 43 | | 2.34 | - | 2.54 |
| 8 | | |)-Gorakhpur | 84 | 56 | 1 | 38 | 0 | | 2.63 | 0 | 2.63 |
| 9 | | | G)-Gorakhp | 476 | 242 | | 516 | 0 | | 8.99 | 0 | 8.99 |
| 10 | | Patna(PG)- | | 277 | 158 | | 155 | 0 | | 6.83 | 0 | 6.83 |
| 11 | | | ahabad(PG) | 32 | 31 | | 67 | 0 | | 0.99 | 0 | 0.99 |
| 12 | | | ranasi(PG) | 110 | 111 | | 23 | 0 | | 3.69 | 0 | 3.69 |
| 13 | | atehpur(PC Gaya(PG)- | G)-Sasaram. | 108 543 | 29 289 | | 33 43 | 29 | | 2.89 9.78 | 0 | 9.78 |
| 15 | | | aranasi(PG) | 358 | 122 | | 387 | 0 | | 6.64 | 0 | 6.64 |
| 16 | | OC PUSAU | | - | - | | - | - | | - | - | - |
| 17 | | | uar-Agra(PG) | - | - | | - | - | | - | - | - |
| Sub- | -Total EAST | | | 2,626 | 1,349 | 3, | 310 | 72 | | 54.98 | 0.56 | 54.42 |
| 1 | | | | | | ' | | | | | | |
| | HADCevor | V-Riewen- | thChariall: | Import/Export between | | | | | | Λ | 1672 | -16 70 |
| Sub-Tota | HVDC800K I NORTH_E | | | | -700 -700 | | ORTH REGIO | 700 700 | | 0 | 16.72 16.72 | -16.72 -16.72 |
| Sub-Tota | HVDC800K I NORTH_E | | | Import/Export between -700 -700 | -700 | | 0 | 700 | | | | |
| 1 | 220KV-Au | AST REGI | ON Malanpur(PG) | Import/Export between -700 -700 | -700 -700 etween WEST REGIO | ON and NOR | 0 | 700 700 89 | | | | |
| 1 2 | 220KV-Aur 220KV-B | AST REGI | ON Malanpur(PG) Modak(RJ) | Import/Export between -700 -700 -700 Import/Export be -4 - | -700 -700 etween WEST REGIO -5 | ON and NOR | O O ITH REGION | 700 700 89 | | 0 - | 0.38 | -16.72 -0.38 |
| 1 2 3 | 220KV-Au 220KV-B 220KV | aiya(NT)-Nadod(MP)- V-Ranpur-l | Malanpur(PG) Modak(RJ) Bhanpur | Import/Export between | -700 -700 etween WEST REGIO -5 - 50 | DN and NOR | 0 0 TH REGION - - - 89 | 700 700 89 - | | 0 - 0 | 0.38 - 0.14 | -0.38 -0.14 |
| 1 2 3 4 | 220KV-Aur 220KV-B 220KV-B 220KV | AST REGI raiya(NT)-M radod(MP)- V-Ranpur-I V-Ranpur- | Malanpur(PG) Modak(RJ) Bhanpur -Modak | Import/Export between | -700 -700 etween WEST REGIO -5 - 50 43 | ON and NOR | 0 0 TH REGION - - - 89 | 700 700 89 | | 0 - 0 1.62 | 0.38 - 0.14 0 | -0.38 - -0.14 1.62 |
| 1 2 3 | 220KV-Aui 220KV-B 220KV-B 220KV 220KV 400KV-I | AST REGI raiya(NT)-M radod(MP)- V-Ranpur-I V-Ranpur-RAPS C(NE | Malanpur(PG) Modak(RJ) Bhanpur -Modak P)-Sujalpur | Import/Export between | -700 -700 etween WEST REGIO -5 - 50 | ON and NOR | 0 0 TH REGION - - - 89 | 700 700 89 - - | | 0 - 0 | 0.38 - 0.14 | -0.38 -0.14 |
| 1 2 3 4 5 | 220KV-Aui 220KV-B 220KV-B 220KV 220KV 400KV-I | AST REGI raiya(NT)-N radod(MP)- V-Ranpur-I V-Ranpur- RAPS C(NF Ilhyachal(PC | Malanpur(PG) Modak(RJ) Bhanpur -Modak | Import/Export betwee -700 -700 Import/Export be -4 - 11 48 243 | -700 -700 etween WEST REGIO -5 - 50 43 80 | DN and NORT | 0 0 TH REGION - - - 89 04 | 700 700 89 - - - | | 0 - 0 1.62 3.85 | 0.38 - 0.14 0 | -16.72 -0.38 - -0.14 1.62 3.85 |
| 1 2 3 4 5 6 | 220KV-Aur 220KV-B 220KV-B 220KV 220KV 400KV-I 400KV-Vino 400KV-Z | raiya(NT)-N raiya(NT)-N radod(MP)- V-Ranpur-I V-Ranpur- RAPS C(NF dhyachal(PG)-B | Malanpur(PG) Modak(RJ) Bhanpur -Modak P)-Sujalpur G)-Rihand(N | Import/Export between -700 -700 -700 -700 -4 -4 | -700 -700 etween WEST REGIO -5 - 50 43 80 -813 | DN and NORT | 0 0 TH REGION - - - 89 04 270 | 700 700 89 - - - - 948 | | 0 - 0 1.62 3.85 | 0.38 - 0.14 0 0 21.58 | -16.72 -0.38 - -0.14 1.62 3.85 -21.58 |
| 1 2 3 4 5 6 7 8 | 220KV-Aui 220KV-B 220KV-B 220KV 220K 400KV-I 400KV-Vind 400KV-Zd 400KV-Zd 765KV | raiya(NT)-Nadod(MP)- V-Ranpur-I V-Ranpur-RAPS C(NF Ilhyachal(PG)-Berda(PG)-Berda(PG)-K | Malanpur(PG) Modak(RJ) Bhanpur -Modak P)-Sujalpur G)-Rihand(N Bhinmal(PG) Cankroli(RJ) | Import/Export between -700 -700 Import/Export between -4 - 11 48 -948 -948 -56 -518 | -700 -700 etween WEST REGIO -5 -5 -50 43 80 -813 -36 -122 -327 | DN and NORT | 0 0 0 TH REGION - - 889 04 270 - 63 0 | 700 700 89 948 108 132 | | 0 0 1.62 3.85 0 1.19 0 | 0.38 - 0.14 0 0 21.58 0 1.59 10.97 | -16.72 -0.380.14 1.62 3.85 -21.58 1.19 -1.59 |
| 1 2 3 4 5 6 7 8 9 | 220KV-Au 220KV-B 220KV-B 220KV 220K 400KV-I 400KV-Vinc 400KV-Z 400KV-Z 765KV | raiya(NT)-Nadod(MP)- V-Ranpur-IV-Ranpur-RAPS C(NF Ilhyachal(PG)-Berda(PG)-Berda(PG)-KV-0rai-Gwa | Malanpur(PG) Modak(RJ) Bhanpur -Modak P)-Sujalpur G)-Rihand(N Bhinmal(PG) Cankroli(RJ) dlior(PG) balpur | Import/Export between -700 -700 Import/Export between -4 -4 - 111 -48 -243 -948 -64 -56 -518 -998 | -700 -700 etween WEST REGIO -5 -5 -50 43 80 -813 -36 -122 -327 826 | DN and NOR7 | 0 0 TH REGION - - - 889 04 270 - - 63 0 | 700 700 89 948 108 132 590 | | 0 0 1.62 3.85 0 1.19 0 0 | 0.38 - 0.14 0 0 21.58 0 1.59 10.97 | -16.72 -0.380.14 1.62 3.85 -21.58 1.19 -1.59 -10.97 |
| 1 2 3 4 5 6 7 8 9 | 220KV-Aur 220KV-B 220KV-B 220KV 220K 400KV-I 400KV-Vind 400KV-Zd 400KV-Zd 765KV 765S | raiya(NT)-Nadod(MP)-V-Ranpur-RAPS C(NFdhyachal(PG)-Berda(PG)-KV-0rai-Gwa KV-0rai-Jai-SKV-0rai-S | Malanpur(PG) Modak(RJ) Bhanpur -Modak P)-Sujalpur G)-Rihand(N Bhinmal(PG) Cankroli(RJ) dlior(PG) balpur Satna | Import/Export between -700 -700 -700 -700 -700 -700 -4 -5 -5 -5 -5 -5 -5 -5 -5 -5 -5 -5 -5 -5 | -700 -700 etween WEST REGIO -5 - 50 43 80 -813 -36 -122 -327 826 1,001 | DN and NOR7 | 0 0 0 TH REGION - - 89 04 170 - 63 0 0 484 273 | 700 700 89 948 108 132 590 0 | | 0 0 1.62 3.85 0 1.19 0 0 27 27,61 | 0.38 - 0.14 0 0 21.58 0 1.59 10.97 0 0 | -16.72 -0.380.14 1.62 3.85 -21.58 1.19 -1.59 -10.97 27 27.61 |
| 1 2 3 4 5 6 7 8 9 10 | 220KV-Aun 220KV-B 220KV-B 220KV 220KV 400KV-I 400KV-Vino 400KV-Z 400KV-Z 765KV 7651 | raiya(NT)-N raiya(NT)-N radod(MP)- V-Ranpur-I V-Ranpur-I RAPS C(NF Ilhyachal(PG)-B erda(PG)-B erda(PG)-K V-0rai-Gwa KV-0rai-Jai 5KV-0rai-S ittorgarh-B | Malanpur(PG) Modak(RJ) Bhanpur -Modak P)-Sujalpur G)-Rihand(N Bhinmal(PG) Cankroli(RJ) dlior(PG) balpur Satna anaskata D/C | Import/Export between -700 -700 -700 -700 Import/Export between -4 | -700 -700 etween WEST REGIO -5 - 50 43 80 -813 -36 -122 -327 826 1,001 - | DN and NOR7 | 0 0 0 TH REGION - - - 89 04 270 - - 63 0 0 484 273 - | 700 700 89 948 108 132 590 0 | | 0 0 1.62 3.85 0 1.19 0 27 27.61 | 0.38 - 0.14 0 0 21.58 0 1.59 10.97 0 2.78 | -16.72 -0.380.14 1.62 3.85 -21.58 1.19 -1.59 -10.97 27 27.61 -2.78 |
| 1 2 3 4 5 6 7 8 9 10 11 12 | 220KV-Aun 220KV-B 220KV-B 220KV 220KV 400KV-Vind 400KV-Zd 400KV-Zd 765KV 765KV 765KV-Chi 765KV-Chi | raiya(NT)-Nadod(MP)- V-Ranpur-I V-Ranpur-I RAPS C(NF Ilhyachal(PC)-Berda(PG)-Berda(PG)-K V-Orai-Gwa KV-Orai-Jai 5KV-Orai-Sittorgarh-B | Malanpur(PG) Modak(RJ) Bhanpur Modak P)-Sujalpur G)-Rihand(N Bhinmal(PG) Kankroli(RJ) dior(PG) balpur Satna anaskata D/C)-Agra(PG) | Import/Export between -700 -700 -700 -700 -700 -700 -700 -4 -4 -5 -5 -518 -998 -1,110 -5 -2,385 | -700 -700 etween WEST REGIO -5 -5 -5 -50 -43 -80 -813 -36 -122 -327 -826 -1,001 - 1,604 | DN and NORT 1 2 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | 0 0 0 TH REGION - - - 889 .04 .270 - .663 0 0 0 484 273 - | 700 700 89 948 108 132 590 0 | | 0 0 1.62 3.85 0 1.19 0 27 27.61 0 45.76 | 0.38 - 0.14 0 0 21.58 0 1.59 10.97 0 2.78 | -16.72 -0.380.14 1.62 3.85 -21.58 1.19 -1.59 -10.97 27 27.61 -2.78 45.76 |
| 1 2 3 4 5 6 7 8 9 10 11 12 13 | 220KV-Aun 220KV-B 220KV-B 220KV- 220KV- 400KV-Vind 400KV-Zd 400KV-Zd 765KV 765KV- 765KV-Chi 765KV-Chi 765KV-Chi 765KV-Chi | raiya(NT)-Nadod(MP)- V-Ranpur-la V-Ranpur-la V-Ranpur-la RAPS C(NF Ilhyachal(PG)-Berda(PG)-Berda(PG)-K V-Orai-Gwa KV-Orai-Jai 5KV-Orai-Saitorgarh-B Gwalior(PG Chagi(RJ)-G | Malanpur(PG) Modak(RJ) Bhanpur Modak P)-Sujalpur G)-Rihand(N Bhinmal(PG) Cankroli(RJ) dior(PG) balpur Satna anaskata D/C)-Agra(PG) Gwalior(PG) | Import/Export between -700 -700 -700 -700 -700 -700 -700 -70 | -700 -700 etween WEST REGIO -5 -5 -5 -50 -43 -80 -813 -36 -122 -327 -826 -1,001 - 1,604 -538 | DN and NORT | 0 0 0 TH REGION - - - 889 04 270 - - 63 0 0 0 484 273 - - 385 | 700 700 89 948 108 132 590 0 | | 0 0 1.62 3.85 0 1.19 0 27 27.61 0 45.76 19.06 | 0.38 - 0.14 0 0 21.58 0 1.59 10.97 0 2.78 | -16.72 -0.380.14 1.62 3.85 -21.58 1.19 -1.59 -10.97 27 27.61 -2.78 45.76 19.06 |
| 1 2 3 4 5 6 7 8 9 10 11 12 13 14 | 220KV-Aun 220KV-B 220KV-B 220KV-B 220KV-B 400KV-V-Inc 400KV-Z-I 400KV-Z-I 765KV- 765KV-Chi 765KV-Chi 765KV-P HVDC500K | raiya(NT)-Nadod(MP)- V-Ranpur-I V-Ranpur-I V-Ranpur-I RAPS C(NF Ilhyachal(PG)-B erda(PG)-B erda(PG)-K V-0rai-Gwa KV-0rai-Jai 5KV-0rai-S ittorgarh-B Gwalior(PG Chagi(RJ)-G V-Mundra V-Vindhya | Malanpur(PG) Modak(RJ) Bhanpur Modak P)-Sujalpur G)-Rihand(N Bhinmal(PG) Kankroli(RJ) dior(PG) balpur Satna anaskata D/C)-Agra(PG) | Import/Export between -700 -700 Import/Export between -700 Import/Export between -4 -4 -5 -5 -5 -5 -5 -5 -5 -5 -5 -5 -5 -5 -5 | -700 -700 etween WEST REGIO -5 -5 -5 -43 -80 -813 -36 -122 -327 -826 -1,001 - 1,604 -538 -1,398 | DN and NORT 1 1 1, 1, 1, 1, 1, 1, 1, 1, | 0 0 0 TH REGION - - - 889 04 270 - - 63 0 0 484 273 - - 385 004 | 700 700 700 89 948 108 132 590 0 0 | | 0 0 1.62 3.85 0 1.19 0 27 27.61 0 45.76 19.06 40.79 | 16.72 0.38 - 0.14 0 0 21.58 0 1.59 10.97 0 2.78 0 0 | -16.72 -0.380.14 1.62 3.85 -21.58 1.19 -1.59 -10.97 27 27.61 -2.78 45.76 19.06 40.79 |
| 1 2 3 4 5 6 7 8 9 10 11 12 13 14 | 220KV-Aur 220KV-B 220KV-B 220KV-B 220KV-D 400KV-IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII | raiya(NT)-N raiya(NT)-N radod(MP)- V-Ranpur-I V-Ranpur-RAPS C(NF dhyachal(PG)-B erda(PG)-B erda(PG)-K V-Orai-Gwa KV-Orai-Jai 5KV-Orai-S ittorgarh-B Gwalior(PG Phagi(RJ)-G V-Mundra V-Vindhya B/B | Malanpur(PG) Modak(RJ) Bhanpur Modak P)-Sujalpur G)-Rihand(N Bhinmal(PG) Cankroli(RJ) dior(PG) balpur Satna anaskata D/C)-Agra(PG) Gwalior(PG) (JH)-Mohind cchal(PG)-Vind | Import/Export between -700 -700 -700 -700 -700 -700 -700 -70 | -700 -700 etween WEST REGIO -5 -5 -5 -50 -43 -80 -813 -36 -122 -327 -327 -326 -1,001 - 1,604 -538 1,398 -250 | DN and NORT 1 2 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | 0 0 0 TH REGION - - - - - - - - - - - - - - - - - - - | 700 700 700 89 948 108 132 590 0 0 0 250 | | 0 0 1.62 3.85 0 1.19 0 27 27.61 0 45.76 19.06 40.79 0 | 0.38 - 0.14 0 0 21.58 0 1.59 10.97 0 2.78 0 0 6.05 | -16.72 -0.380.14 1.62 3.85 -21.58 1.19 -1.59 -10.97 27 27.61 -2.78 45.76 19.06 40.79 -6.05 |
| 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 | 220KV-Aur 220KV-B 220KV-B 220KV-B 220KV-D 400KV-IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII | raiya(NT)-Nadod(MP)-V-Ranpur-I V-Ranpur-I V-Ranpur-I RAPS C(NF Ilhyachal(PG)-B erda(PG)-B erda(PG)-K V-0rai-Gwa KV-0rai-Jai 5KV-0rai-S ittorgarh-B Gwalior(PG Chagi(RJ)-G V-Mundra V-Vindhya B/B V-Champa | Malanpur(PG) Modak(RJ) Bhanpur Modak P)-Sujalpur G)-Rihand(N Bhinmal(PG) Kankroli(RJ) Idior(PG) balpur Satna anaskata D/C D-Agra(PG) Gwalior(PG) (JH)-Mohind | Import/Export between -700 -700 Import/Export between -700 Import/Export between -4 -4 -5 -5 -5 -5 -5 -5 -5 -5 -5 -5 -5 -5 -5 | -700 -700 etween WEST REGIO -5 -5 -5 -43 -80 -813 -36 -122 -327 -826 -1,001 - 1,604 -538 -1,398 | DN and NORT 1 2 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | 0 0 0 TH REGION - - - 889 04 270 - - 63 0 0 484 273 - - 385 004 | 700 700 700 89 948 108 132 590 0 0 | | 0 0 1.62 3.85 0 1.19 0 27 27.61 0 45.76 19.06 40.79 | 16.72 0.38 - 0.14 0 0 21.58 0 1.59 10.97 0 2.78 0 0 | -16.72 -0.380.14 1.62 3.85 -21.58 1.19 -1.59 -10.97 27 27.61 -2.78 45.76 19.06 40.79 |

| 4(B) Inter Regional | Schedule & Actual Ex | | t=(+ve) /Exp | ort =(-ve)) | in MU | | | 1 | | Total IR | F | |
|--|-----------------------|----------------|---------------|--|------------------|--------|---------------------|--------------------|----------------|------------------|----------------|---------------------|
| | ISGS/(LT+MT) | Schedule | | BILT Sch | iedule | PX Sc | chedule | Total IR S | chedule | Actual | NE | T IR UI |
| NR-ER | 54.86 | | | -33.7 | | | .19 | 23.3 | | 54.42 | | 31.08 |
| NR-WR | 167.95 | | | -1.90 | 5 | -15 | 5.59 | 150 | .4 | 141.93 | | -8.47 |
| Total | 222.81 | | | -35.6 | 7 | -1 | 3.4 | 173.74 | | 179.63 | | 5.89 |
| 5.Inter National Exc | change with Nepal [Im | port (+ve)/Exp | ort(-ve)] [Li | nkwise] | | | | | | | | |
| | Element | | Pe | ak W | Off-Peak MW | | aximum Inte port | erchange(MW Exp | - | Energy Import | (MU) Export | Net Energy (MU) |
| 132KV-Tanak | pur(NH)-Mahendrana | ngar(PG) | | 5.17 | -37.58 | 1111 | port | 40 | | Import | 0.8585 | -0.8585 |
| 5.Frequency Profile | | | | | | | | | | | | |
| | GE(Hz) | < 49.2 | < 49.7 | < 49.8 | < 49.9 | < 50.0 | >= 49.9 - <= | > 50.05 - | 50 1 | > 50.1 - <= | > 50.2 | > 50.05 |
| | // 0 | 0 | 0 | | 5.3 | 36.6 | 50.05 | 21. | | 50.2 | | 27.8 |
| <frequency< td=""><td></td><td>U</td><td>U</td><td>1</td><td>5.5</td><td>30.0</td><td>00.9</td><td>21.</td><td>3</td><td>5.0</td><td>.7</td><td>27.0</td></frequency<> | | U | U | 1 | 5.5 | 30.0 | 00.9 | 21. | 3 | 5.0 | .7 | 27.0 |
| Maxi | imum | | Mi | nimum | | Ave | erage | Freq Variation | Standard | Freq. in 15 | mnt blk | Freq Dev Ind |
| | | F | | | T: | _ | | | | _ | | |
| Frequency 50.3 | Time 04:34:40 | Freque | | - | Time 18:11:10 | | uency 0.01 | Index 0.05 | Deviation 0.07 | Max. 50.22 | Min. 49.84 | (% of Time) |
| | | 49.7 | | - | 10.11.10 | 30 | .01 | 0.03 | 0.07 | 30.22 | 42.04 | 33.1 |
| 6.Voltage Profile: 40 | | ıximum | | | Minim | um | | | Volta | ge (in %) | | Voltage |
| | 1412 | ixiiiiuiii | | | William | iuiii | | | v oita | ge (m /0) | | Deviation |
| STATION | VOLTAGE | TIM | E | v | OLTAGE | TI | ME | < 380 | < 390 | > 420 | > 430 | Index (% of time |
| Abdullapur(PG) - | 428 | 04:3 | | , | 411 | | :45 | 0 | 0 | 55.9 | 0 | 55.9 |
| 400KV Amritsar(PG) - | 429 | 03:0 | 0 | <u> </u> | 412 | 07 | ':15 | 0 | 0 | 55.21 | 0 | 55.21 |
| 400KV | | | | <u> </u> | | | | | | | | |
| Ballabgarh(PG) - 400KV | 425 | 04:3 | 5 | | 402 | 11 | :45 | 0 | 0 | 25 | 0 | 25 |
| Bareilly II(PG) - 400KV | 423 | 04:3 | 5 | | 404 | 11 | :45 | 0 | 0 | 15.63 | 0 | 15.63 |
| Bareilly(UP) - | 424 | 04:0 | 0 | | 405 | 11 | :45 | 0 | 0 | 18.4 | 0 | 18.4 |
| 400KV Baspa(HP) - | 431 | 04:0 | 0 | <u> </u> | 413 | 06 | 5:55 | 0 | 0 | 74.31 | 1.39 | 74.31 |
| 400KV | | | | <u> </u> | | | | | | | | |
| Bassi(PG) - 400KV Bawana(DTL) - | 422 | 04:0 04:3 | | | 390 427 | | :40 | 30.56 | 30.56 | 2.43 39.58 | 0 | 2.43 70.14 |
| 400KV | | 04:3 | ·5 | | 427 | 04 | :35 | 30.56 | 30.56 | 39.58 | 0 | 70.14 |
| Dadri HVDC(PG). - 400KV | 426 | 04:3 | 5 | | 406 | 11 | :45 | 0 | 0 | 34.03 | 0 | 34.03 |
| Gorakhpur(PG) - | 421 | 04:0 | 0 | | 398 | 19 | :20 | 0 | 0 | 5.21 | 0 | 5.21 |
| 400KV Hisar(PG) - | 425 | 04:3 | 5 | | 402 | 11 | :45 | 0 | 0 | 15.97 | 0 | 15.97 |
| 400KV Kanpur(PG) - | 424 | 04:3 | <i>E</i> | | 408 | 10 | 2:15 | 0 | 0 | 18.06 | 0 | 18.06 |
| 400KV | | | | | | | | 1 | | | | |
| Kashipur(UT) - 400KV | 402 | 00:0 | 0 | | 402 | 00 | 0:00 | 0 | 0 | 0 | 0 | 0 |
| Kishenpur(PG) - 400KV | 423 | 04:3 | 5 | | 411 | 11 | :45 | 0 | 0 | 19.44 | 0 | 19.44 |
| Moga(PG) - | 421 | 03:0 | 0 | | 402 | 11 | :35 | 0 | 0 | 1.39 | 0 | 1.39 |
| 400KV Nallagarh(PG) - | 431 | 04:0 | 0 | | 413 | 06 | 5:55 | 0 | 0 | 74.31 | 1.39 | 74.31 |
| 400KV | | | | | | | | | | | | |
| Rihand HVDC(PG) - | 408 | 04:3 | 55 | | 408 | 04 | :35 | 3.13 | 3.13 | 0 | 0 | 3.13 |
| 400KV Rihand(NT) - | 406 | 04:3 | 5 | l | 406 | 04 | :35 | 2.08 | 2.08 | 0 | 0 | 2.08 |
| 400KV | 400 | 04:3 | | | 700 | 104 | | 2.00 | 2.00 | U | | 2.00 |
| 6.1 Voltage Profile: | | | | | | | | | | | | |
| | Ma | nximum | | | Minim | ium | | | Volta | ge (in %) | | Voltage Deviation |
| STATION | VOLTACE | | T | *7- | OLTACE | 100 | ME | - 739 | < 742 | , onn | . 020 | Index |
| Anta RS(RJ) - | VOLTAGE 792 | TIM 04:0 | | V | OLTAGE 764 | | ME :10 | < 728 0 | < 742 0 | > 800 | > 820 | (% of time |
| 765KV | · | | | | - | | | | | - | | |
| Balia(PG) - 765KV | 776 | 00:0 | | | 776 | | :00 | 0 | 0 | 0 | 0 | 0 |
| Bareilly II(PG) - 765KV | 806 | 04:0 | 0 | | 770 | 11 | :45 | 0 | 0 | 15.28 | 0 | 15.28 |
| Bhiwani(PG) - 765KV | 799 | 03:0 | 0 | | 764 | 11 | :50 | 0 | 0 | 0 | 0 | 0 |
| Fatehpur(PG) - | 778 | 04:0 | 0 | | 748 | 18 | :40 | 0 | 0 | 0 | 0 | 0 |
| 765KV Jhatikara(PG) - | 803 | 04:3 | | <u>. </u> | 763 | | :45 | 0 | 0 | 5.21 | 0 | 5.21 |
| 765KV | | | | | | | | | | | | |
| Lucknow II(PG) - 765KV | 801 | 04:0 | 0 | | 764 | 19 | 2:15 | 0 | 0 | 1.04 | 0 | 1.04 |
| Meerut(PG) - 765KV | 801 | 04:0 | 0 | | 759 | 11 | :45 | 0 | 0 | 1.39 | 0 | 1.39 |
| Moga(PG) - | 787 | 04:3 | 5 | | 752 | 11 | :45 | 0 | 0 | 0 | 0 | 0 |
| 765KV Phagi(RJ) - 765KV | 800 | 04:0 | | <u> </u> | 757 | | :40 | 0 | <u> </u> | 0 | 0 | 0 |
| Unnao(UP) - | 777 | 04:0 | | | 745 | | :40 | 0 | 0 | 0 | 0 | 0 |
| 765KV | 111 | U4:0 | | | 170 | 19 | .20 | <u> </u> | U | U | | |

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

| | Off- Peak Hours (03:00) | | | | Peak Hours (19:00) | | | 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 | -1,191.41 | 0 | 0 | -1,191.41 | -402.86 | 0 | 72.53 | -31.97 | -0.71 | 39.85 | |
| HARYANA | -755.08 | 168.63 | 0 | -795.27 | 149.07 | 0 | 103.38 | -21.4 | 3.48 | 85.45 | |
| RAJASTHAN | -66.6 | -319.07 | 0 | -349.26 | -4.67 | 0 | 71.81 | -2.32 | -2.59 | 66.91 | |
| DELHI | -635.8 | -787.59 | 0 | -602.95 | -351.5 | 0 | 79.39 | -14.57 | -4.15 | 60.66 | |
| UTTAR PRADESH | 40.51 | -366.21 | 0 | 500.29 | -46.19 | 0 | 120.05 | 1.08 | -5.05 | 116.07 | |
| UTTARAKHAND | 527.46 | -221.61 | 0 | 395.15 | 50.88 | 0 | 11.7 | 10.67 | -0.46 | 21.91 | |
| HIMACHAL PRADESH | 407.53 | -52.77 | 0 | 252.8 | 302.49 | 0 | 13.37 | 10.58 | -1.42 | 22.53 | |
| JAMMU & KASHMIR | 460.15 | -75.73 | 0 | 459.65 | -13.33 | 0 | 33 | 11.04 | -1.06 | 42.97 | |
| CHANDIGARH | 0 | -30.21 | 0 | 0 | 0 | 0 | 4.22 | 0 | -0.5 | 3.71 | |
| TOTAL | -1,213.24 | -1,684.56 | 0 | -1,331 | -316.11 | 0 | 509.45 | -36.89 | -12.46 | 460.06 | |

7(B). Short-Term Open Access Details

| | ISGS/(LT+MT) Schedule | | Bilateral (l | IEX (MW) | | PXIL (MW) | | |
|---------------------|-----------------------|----------|--------------|-----------|---------|-----------|---------|---------|
| State | Maximum | Minimum | Maximum | Minimum | Maximum | Minimum | Maximum | Minimum |
| PUNJAB | 3,986.89 | 2,227.7 | -1,191.41 | -1,493.56 | 0 | -402.86 | 0 | 0 |
| HARYANA | 5,256.97 | 2,961.62 | -619.02 | -1,059.64 | 176.64 | 19.36 | 0 | 0 |
| RAJASTHAN | 3,911.04 | 1,974.46 | -66.6 | -349.26 | 349.47 | -887.92 | 0 | 0 |
| DELHI | 3,952.16 | 2,669.96 | -462.47 | -675.56 | 454.75 | -791.62 | 0 | 0 |
| UTTAR PRADESH | 7,044.78 | 3,756.78 | 510.07 | -409.6 | 149.39 | -816.14 | 0 | 0 |
| UTTARAKHAND | 844.22 | 173.56 | 527.46 | 395.15 | 361.04 | -271.18 | 0 | 0 |
| HIMACHAL PRADESH | 1,371 | 251.82 | 567.08 | 228.44 | 353.98 | -656.08 | 0 | 0 |
| JAMMU & KASHMIR | 1,793.01 | 1,016.23 | 460.15 | 459.65 | 0 | -252.42 | 0 | 0 |
| CHANDIGARH | 280.1 | 116.46 | 0 | 0 | 0 | -70.5 | 0 | 0 |

8.Major Reservoir Particulars

| | Parameters | | Present Pa | arameters | LAST YEAR | | LAST DAY | |
|---------------|------------|-----------|-------------|-------------|-------------|-------------|------------------|--------------|
| RESERVOIR | MDDL (Mts) | FRL (Mts) | Level (Mts) | Energy (MU) | Level (Mts) | Energy (MU) | Inflow (m3/s) | Usage (m3/s) |
| Bhakra | 445.62 | 513.59 | 496.92 | 972 | 483.84 | 553 | 237.92 | 438.71 |
| Chamera-I | 748.75 | 760 | 757.25 | - | - | - | 163.82 | 234.18 |
| Gandhisagar | 295.78 | 295.78 | - | - | - | - | - | 0 |
| Jawahar Sagar | 295.78 | 298.7 | - | - | - | - | - | 0 |
| Koteshwar | 598.5 | 612.5 | 611.29 | 5 | 610.42 | 5 | 226 | 225.33 |
| Pong | 384.05 | 426.72 | 409.7 | 484 | 400.71 | 238 | 111.12 | 357.47 |
| RPS | 343.81 | 352.8 | - | - | - | - | - | 0 |
| RSD | 487.91 | 527.91 | 521.74 | 3 | 495.81 | 2 | 229.18 | 139.2 |
| Rihand | 252.98 | 268.22 | 257.74 | 190 | 258.1 | 207 | - | 0 |
| Tehri | 740.04 | 829.79 | 788.69 | 435 | 782.45 | 352 | 48.4 | 226 |
| TOTAL | - | - | - | 2,089 | - | 1,357 | 1,016.44 | 1,620.89 |

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 | |
|--------------|---|--|
|--------------|---|--|

10. Zero Crossing Violations

| State | No. of violations(Maximum 15 in a day) | Maximum number of continuous blocks without sign change |
|------------------|--|---|
| CHANDIGARH | 8 | 27 |
| DELHI | 11 | 30 |
| HARYANA | 0 | 6 |
| HIMACHAL PRADESH | 0 | 6 |
| JAMMU & KASHMIR | 5 | 19 |
| PUNJAB | 0 | 6 |
| RAJASTHAN | 2 | 7 |
| UTTAR PRADESH | 0 | 6 |
| UTTARAKHAND | 8 | 24 |

11. Significant events (If any):

| 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 |

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

13. Weather Conditions :