

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरग्रिड की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)



उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 20.05.2013
Date of Reporting : 21.05.2013

I. Regional Availability/Demand:

| Evening Peak (20:00 Hrs) MW | | | | Off Peak (03:00 Hrs) MW | | | | Day Energy (Net MU) | |
|-----------------------------|----------|-------------|------------|-------------------------|----------|-------------|------------|---------------------|----------|
| Demand Met | Shortage | Requirement | Freq* (Hz) | Demand Met | Shortage | Requirement | Freq* (Hz) | Demand Met | Shortage |
| 36740 | 1466 | 38206 | 50.01 | 35966 | 500 | 36466 | 50.11 | 891.0 | 39.60 |

* Half hourly (two 15 minutes block—one block each before and after the designated time) average frequency

II. A. State's Load Details (At States periphery) in MUs:

| State | State's Control Area Generation (Net MU) | | | | Drawal Schedule (Net MU) | Actual Drawal (Net MU) | UI (Net MU) | Consumption (Net MU) | Shortages* (MU) |
|--------------|--|--------------|---------------------|---------------|-----------------------------|---------------------------|----------------|-------------------------|--------------------|
| | Thermal | Hydro | Renewable/others \$ | Total | | | | | |
| Punjab | 42.02 | 8.62 | | 50.64 | 98.46 | 99.20 | 0.74 | 149.84 | 0.00 |
| Haryana | 60.74 | 0.64 | | 61.38 | 75.94 | 73.13 | -2.81 | 134.51 | 0.00 |
| Rajasthan | 83.49 | 0.85 | 22.20 | 106.54 | 60.23 | 59.97 | -0.26 | 166.51 | 0.81 |
| Delhi | 28.81 | | | 28.81 | 74.73 | 70.76 | -3.97 | 99.57 | 0.45 |
| UP | 116.29 | 13.59 | 8.40 | 138.27 | 108.47 | 107.50 | -0.97 | 245.78 | 36.41 |
| Uttarakhand | | 17.09 | | 17.09 | 19.59 | 18.69 | -0.89 | 35.78 | 0.23 |
| HP | | 21.36 | | 21.36 | 5.93 | 3.18 | -2.75 | 24.54 | 0.00 |
| J & K | | 13.41 | 0.00 | 13.41 | 20.51 | 15.36 | -5.16 | 28.77 | 1.70 |
| Chandigarh | | | | 0.00 | 5.33 | 5.68 | 0.34 | 5.68 | 0.00 |
| Total | 331.35 | 75.56 | 30.60 | 437.51 | 469.18 | 453.46 | -15.73 | 890.97 | 39.60 |

* Shortage furnished by the respective constituent.\$ Others include UP Co-generation and JK Diesel

II. B. State's Demand Met in MWs:

| State | Evening Peak (20:00 Hrs) MW | | | | Off Peak (03:00 Hrs) MW | | | | Day Energy MU |
|--------------|-----------------------------|-------------|--------------|---------------------|-------------------------|------------|--------------|---------------------|---------------|
| | Demand Met | Shortage | UI | STOA/PX transaction | Demand Met | Shortage | UI | STOA/PX transaction | |
| Punjab | 6289 | 0 | -19 | 947 | 5783 | 0 | 50 | 1108 | 31.74 |
| Haryana | 5821 | 0 | -259 | 290 | 5259 | 0 | -241 | 225 | 5.31 |
| Rajasthan | 6471 | 0 | -935 | 346 | 6748 | 0 | -331 | 161 | 5.43 |
| Delhi | 4167 | 6 | -188 | -24 | 3964 | 110 | -102 | -98 | 2.11 |
| UP | 9670 | 1360 | -256 | 107 | 10975 | 390 | 16 | 1521 | 12.76 |
| Uttarakhand | 1668 | 0 | -13 | 418 | 1373 | 0 | -92 | 396 | 7.77 |
| HP | 991 | 0 | -196 | -892 | 826 | 0 | -112 | -898 | -19.40 |
| J&K | 1415 | 100 | -75 | -140 | 832 | 0 | -418 | -295 | -5.23 |
| Chandigarh | 248 | 0 | -8 | 0 | 207 | 0 | 29 | 0 | 0.37 |
| Total | 36740 | 1466 | -1949 | 1052 | 35966 | 500 | -1201 | 2120 | 40.88 |

* STOA figures are at sellers boundary & PX figures are at regional boundary.

III. Regional Entities :

| Entity | Station/ Constituent | Inst. Capacity (Effective) MW | Declared Capacity(MW) | Peak MW (Gross) | Off Peak MW (Gross) | Energy (Net MU) | Average Sentout(MW) | Schedule Net MU | UI Net MU | |
|---|-------------------------|----------------------------------|--------------------------|--------------------|------------------------|--------------------|------------------------|--------------------|--------------|--------------------------|
| | | | | | | | | | | UI (OG:(+ve), UG: (-ve)) |
| A. NTPC | Singrauli STPS | 2000 | 1733 | 1873 | 1882 | 41.71 | 1738 | 41.26 | 0.45 | |
| | Rihand I STPS | 1000 | 915 | 975 | 957 | 20.87 | 870 | 20.50 | 0.37 | |
| | Rihand II STPS | 1000 | 965 | 922 | 1033 | 22.15 | 923 | 21.69 | 0.46 | |
| | Rihand III STPS | 500 | 172 | 500 | 0 | 4.15 | 173 | 3.78 | 0.37 | |
| | Dadri I STPS | 840 | 807 | 709 | 642 | 15.91 | 663 | 15.89 | 0.02 | |
| | Dadri II STPS | 980 | 969 | 909 | 740 | 19.75 | 823 | 20.00 | -0.24 | |
| | Unchahar I TPS | 420 | 398 | 426 | 367 | 8.74 | 364 | 8.82 | -0.08 | |
| | Unchahar II TPS | 420 | 401 | 439 | 324 | 8.35 | 348 | 8.19 | 0.16 | |
| | Unchahar III TPS | 210 | 199 | 210 | 159 | 4.16 | 174 | 4.10 | 0.06 | |
| | ISTPP (Jhajjar) | 1500 | 470 | 331 | 318 | 7.21 | 300 | 9.26 | -2.05 | |
| | Dadri GPS | 830 | 797 | 305 | 301 | 7.89 | 329 | 8.05 | -0.16 | |
| | Anta GPS | 419 | 390 | 208 | 260 | 5.67 | 236 | 5.71 | -0.04 | |
| | Auraiva GPS | 663 | 619 | 147 | 153 | 3.44 | 143 | 3.74 | -0.29 | |
| | Sub Total (A) | 10782 | 8834 | 7954 | 7136 | 170.01 | 7084 | 170.99 | -0.98 | |
| | B. NPC | NAPS | 440 | 303 | 325 | 332 | 6.99 | 291 | 7.27 | -0.28 |
| | | RAPS- B | 440 | 398 | 437 | 446 | 9.57 | 399 | 9.55 | 0.02 |
| RAPS- C | | 440 | 430 | 460 | 467 | 9.95 | 415 | 10.32 | -0.37 | |
| Sub Total (B) | | 1320 | 1131 | 1222 | 1245 | 26.51 | 1105 | 27.14 | -0.64 | |
| C. NHPC | Chamera I HPS | 540 | 540 | 540 | 0 | 9.67 | 403 | 9.61 | 0.07 | |
| | Chamera II HPS | 300 | 303 | 305 | 303 | 7.19 | 299 | 7.02 | 0.16 | |
| | Chamera III HPS | 231 | 231 | 241 | 232 | 5.52 | 230 | 5.10 | 0.42 | |
| | Bairasuil HPS | 180 | 182 | 180 | 120 | 2.95 | 123 | 2.72 | 0.23 | |
| | Salal-HPS | 690 | 676 | 672 | 675 | 16.11 | 671 | 16.23 | -0.12 | |
| | Tanakpur-HPS | 94 | 41 | 32 | 51 | 0.97 | 40 | 0.98 | -0.02 | |
| | Uri-HPS | 480 | 480 | 480 | 476 | 11.45 | 477 | 11.59 | -0.14 | |
| | Dhauliganga-HPS | 280 | 280 | 278 | 137 | 4.86 | 203 | 4.80 | 0.06 | |
| | Dulhasti-HPS | 390 | 387 | 407 | 403 | 9.48 | 395 | 9.37 | 0.11 | |
| | Sewa-II HPS | 120 | 119 | 125 | 59 | 2.63 | 109 | 2.58 | 0.05 | |
| | Sub Total (C) | 3305 | 3239 | 3260 | 2456 | 70.82 | 2951 | 69.99 | 0.83 | |
| | D.NJPC | Nathpa Jhakri | 1500 | 1605 | 1625 | 1620 | 38.69 | 1612 | 38.52 | 0.17 |
| Sub Total (D) | | 1500 | 1605 | 1625 | 1620 | 38.69 | 1612 | 38.52 | 0.17 | |
| E. THDC | Tehri HPS | 1000 | 480 | 479 | 165 | 9.98 | 416 | 10.00 | -0.02 | |
| | Koteshwar HPS | 400 | 266 | 270 | 82 | 4.31 | 180 | 4.30 | 0.01 | |
| | Sub Total (E) | 1400 | 746 | 749 | 247 | 14.28 | 595 | 14.30 | -0.02 | |
| F. BBMB | Bhakra HPS | 1480 | 713 | 1201 | 514 | 17.67 | 736 | 17.12 | 0.55 | |
| | Dehar HPS | 990 | 589 | 825 | 600 | 14.91 | 621 | 14.14 | 0.77 | |
| | Pong HPS | 396 | 144 | 296 | 180 | 3.77 | 157 | 0.25 | 3.52 | |
| | Sub Total (F) | 2866 | 1446 | 2322 | 1294 | 36.35 | 1515 | 31.51 | 4.84 | |
| G. IPP(s)/JV(s) | ADHPL HPS(IPP) | 192 | 0 | 0 | 206 | 2.70 | 113 | 3.17 | -0.47 | |
| | KWHEP HPS(IPP) | 1000 | 0 | 1196 | 1148 | 28.49 | 1187 | 28.80 | -0.31 | |
| | Malana Stg-II HPS | 100 | 0 | 0 | 0 | 0.14 | 6 | 0.34 | -0.20 | |
| | Shree Cement TPS | 300 | 0 | 254 | 263 | 5.85 | 244 | 5.93 | -0.09 | |
| | Budhil HPS(IPP) | 70 | 0 | 36 | 69 | 1.43 | 59 | 1.12 | 0.30 | |
| | Sub Total (G) | 1662 | 0 | 1486 | 1686 | 38.61 | 1609 | 39.37 | -0.76 | |
| H. Total Regional Entities (A-G) | 22836 | 17001 | 18618 | 15684 | 395.28 | 16470 | 391.82 | 3.46 | | |

| I. State Entities | Station | Effective Installed Capacity (MW) | Peak MW | Off Peak MW | Energy(MU) | Average(Sent out MW) | |
|---|---------------------------------|-----------------------------------|--------------|--------------|---------------|----------------------|-------------|
| Punjab | Guru Gobind Singh TPS (Ropar) | 1260 | 1157 | 890 | 23.73 | 989 | |
| | Guru Nanak Dev TPS(Bhatinda) | 440 | 225 | 200 | 4.45 | 186 | |
| | Guru Hargobind Singh TPS(L.mbt) | 920 | 673 | 541 | 13.83 | 576 | |
| | Thermal (Total) | 2620 | 2055 | 1631 | 42.02 | 1751 | |
| | Total Hydro | 1148 | 236 | 370 | 8.62 | 359 | |
| | Total Punjab | 3768 | 2291 | 2001 | 50.64 | 2110 | |
| Haryana | Panipat TPS | 1367 | 636 | 620 | 15.30 | 638 | |
| | DCRTPP (Yamuna nagar) | 600 | 275 | 261 | 6.45 | 269 | |
| | Faridabad GPS (NTPC) | 432 | 177 | 181 | 4.20 | 175 | |
| | RGTPP (khedar) (IPP) | 1200 | 1092 | 945 | 25.78 | 1074 | |
| | Magnum Diesel (IPP) | 25 | 0 | 0 | 0.00 | 0 | |
| | Jhajjar(CLP) | 1320 | 381 | 377 | 9.01 | 375 | |
| | Thermal (Total) | 4944 | 2561 | 2384 | 60.74 | 2531 | |
| | Total Hydro | 62 | 25 | 25 | 0.64 | 27 | |
| | | Total Haryana | 5006 | 2586 | 2409 | 61.38 | 2557 |
| | Rajasthan | kota TPS | 1240 | 1146 | 1073 | 26.89 | 1121 |
| suratgarh TPS | | 1500 | 1109 | 953 | 25.39 | 1058 | |
| Chabra TPS | | 500 | 198 | 205 | 5.17 | 215 | |
| Dholpur GPS | | 330 | 77 | 0 | 1.15 | 48 | |
| Ramgarh GPS | | 111 | 140 | 78 | 2.81 | 117 | |
| RAPS A (NPC) | | 300 | 180 | 180 | 4.30 | 179 | |
| Barsingsar (NLC) | | 250 | 183 | 167 | 4.36 | 182 | |
| Giral LTPS | | 250 | 125 | 114 | 1.96 | 82 | |
| Rajwest LTPS (IPP) | | 1080 | 504 | 765 | 11.47 | 478 | |
| VSLP LTPS (IPP) | | 135 | 0 | | 0.00 | 0 | |
| Thermal (Total) | | 5696 | 3662 | 3535 | 83.49 | 3479 | |
| Total Hydro | | 550 | 0 | 0 | 0.85 | 36 | |
| Wind power | | 2191 | 686 | 1394 | 20.10 | 837 | |
| Biomass | | 91 | 25 | 25 | 0.60 | 25 | |
| Solar | | 201 | 0 | 0 | 1.50 | 63 | |
| | | Renewable/Others (Total) | 2483 | 711 | 1419 | 22.20 | 925 |
| | | Total Rajasthan | 8729 | 4373 | 4954 | 106.54 | 4439 |
| UP | Anpara TPS | 1630 | 825 | 1037 | 20.80 | 867 | |
| | Obra TPS | 1288 | 497 | 488 | 10.90 | 454 | |
| | Paricha TPS | 1140 | 870 | 845 | 18.40 | 767 | |
| | Panki TPS | 210 | 145 | 155 | 3.10 | 129 | |
| | Harduaganj TPS | 665 | 187 | 245 | 4.60 | 192 | |
| | Tanda TPS (NTPC) | 440 | 711 | 710 | 9.74 | 406 | |
| | Roza TPS (IPP) | 1200 | 1026 | 995 | 24.29 | 1012 | |
| | Anpara-C (IPP) | 1200 | 711 | 710 | 16.99 | 708 | |
| | Bajaj Energy Pvt.Ltd(IPP) TPS | 450 | 324 | 313 | 7.47 | 311 | |
| | Thermal (Total) | 8223 | 5296 | 5498 | 116.29 | 4845 | |
| | Vishnuparyag HPS (IPP) | 400 | 436 | 406 | 9.23 | 384 | |
| | Other Hydro | 527 | 159 | 195 | 4.36 | 182 | |
| | Cogeneration | 981 | 350 | 350 | 8.40 | 350 | |
| | | Total UP | 10131 | 6241 | 6449 | 138.27 | 5377 |
| Uttarakhand | Total Hydro | 1303 | 739 | 624 | 17.09 | 712 | |
| | Total Uttarakhand | 1303 | 739 | 624 | 17.09 | 712 | |
| Delhi | Rajghat TPS | 135 | 52 | 50 | 1.20 | 50 | |
| | Delhi Gas Turbine | 282 | 111 | 111 | 2.52 | 105 | |
| | Pragati Gas Turbine | 330 | 278 | 261 | 6.62 | 276 | |
| | Rithala GPS | 95 | 0 | 0 | 0.00 | 0 | |
| | Bawana GPS | 686 | 220 | 218 | 5.36 | 223 | |
| | Badarpur TPS (NTPC) | 705 | 590 | 590 | 13.11 | 546 | |
| | Thermal (Total) | 2232 | 1251 | 1230 | 28.81 | 1201 | |
| | | Total Delhi | 2232 | 1251 | 1230 | 28.81 | 1201 |
| HP | Baspa HPS (IPP) | 330 | 330 | 330 | 7.72 | 322 | |
| | Malana HPS (IPP) | 86 | 15 | 77 | 1.11 | 46 | |
| | Other Hydro | 589 | 505 | 537 | 12.52 | 522 | |
| | Total HP | 1005 | 850 | 944 | 21.36 | 890 | |
| J & K | Baglihar HPS (IPP) | 450 | 434 | 436 | 10.46 | 436 | |
| | Other Hydro | 323 | 110 | 128 | 2.95 | 123 | |
| | Gas/Diesel/Others | 183 | 0 | 0 | 0.00 | 0 | |
| | Total J & K | 956 | 544 | 564 | 13.41 | 559 | |
| Total State Control Area Generation | | 33130 | 18875 | 19175 | 437.51 | 17845 | |
| J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)] | | | 3411 | 3909 | 88.00 | 3667 | |
| Total Regional Availability(Gross) | | 55966 | 40904 | 38768 | 920.79 | 37982 | |

IV. Total Hydro Generation:

| | | | | | |
|-----------------------------|--------------|--------------|-------------|---------------|--------------|
| Regional Entities Hydro | 10364 | 9152 | 6971 | 191.48 | 7979 |
| State Control Area Hydro | 5368 | 2553 | 2722 | 75.56 | 2764 |
| Total Regional Hydro | 15731 | 11705 | 9693 | 267.05 | 10743 |

V(A). Inter Regional Exchange [Import (+ve)/Export (-ve)] [Linkwise]

| Element | Peak(20:00 Hrs) | Off Peak(03:00 Hrs) | Maximum Interchange (MW) | | Energy (MU) | | Net Energy MU |
|---------------------------|-----------------|---------------------|--------------------------|--------|--------------|--------------|---------------|
| | MW | MW | Import | Export | Import | Export | |
| Vindhychal B/B | 100 | 300 | 300 | 200 | 5.68 | 0.09 | 5.58 |
| Gwalior-Agra (D/C) | 1000 | 1137 | 1234 | 0 | 23.66 | 0.00 | 23.66 |
| Zerda-Kankroli | -154 | -184 | 12 | 259 | 0.00 | 3.02 | -3.02 |
| Zerda-Bhinmal | -145 | -182 | 180 | 260 | 0.00 | 1.78 | -1.78 |
| Malanpur-Auraiya | 0 | 0 | 0 | 0 | 0.00 | 0.00 | 0.00 |
| Badod-Kota/Morak | -68 | -80 | 0 | 137 | 0.00 | 1.64 | -1.64 |
| Mundra-Mohindergarh(HVDC) | 1432 | 1436 | 1437 | 0 | 31.62 | 0.00 | 31.62 |
| Sub Total WR | 2165 | 2427 | | | 60.96 | 6.54 | 54.42 |
| Pusauli Bypass | -100 | -100 | 150 | 100 | 0.12 | 2.36 | -2.24 |
| MZP- GKP (D/C) | 448 | 560 | 692 | 0 | 12.82 | 0.00 | 12.82 |
| Patna-Balia(D/C) | 450 | 543 | 592 | 0 | 11.74 | 0.00 | 11.74 |
| B'Sharif-Balia (D/C) | 198 | 267 | 318 | 0 | 5.46 | 0.00 | 5.46 |
| Pusauli-Balia | -8 | 18 | 40 | 8 | 0.17 | 0.16 | 0.01 |
| Gaya-Fatehpur (765 Kv) | 154 | 68 | 264 | 0 | 2.99 | 0.00 | 2.99 |
| Pusauli-Sahupuri | 140 | 166 | 180 | 0 | 3.86 | 0.00 | 3.86 |
| K'nasa-Sahupuri | 0 | 0 | 0 | 0 | 0.00 | 0.00 | 0.00 |
| Son Ngr-Rihand | -36 | -40 | 0 | 44 | 0.00 | 1.07 | -1.07 |
| Garhwa-Rihand | 0 | 0 | 0 | 0 | 0.00 | 0.00 | 0.00 |
| Sub Total ER | 1246 | 1482 | | | 37.16 | 3.58 | 33.58 |
| Total IR Exch | 3411 | 3909 | | | 98.12 | 10.12 | 88.00 |

V(B). Inter Regional Schedule & Actual Exchanges [Import (+ve)/Export (-ve)] [Corridor wise]

| ER | ISGS/LT Schedule (MU) | | Bilateral Schedule (MU) | | Power Exchange Shdi (MU) | | Wheeling (MU) | |
|-------|-----------------------|-------|-------------------------|------------|--------------------------|------------|---------------|------------|
| | Bhutan | Total | Through ER | Through WR | Through ER | Through WR | Through ER | Through WR |
| 32.95 | 0.89 | 33.84 | -1.69 | 6.75 | 2.33 | -3.54 | -0.90 | 0.90 |

| Total IR Schedule (MU) | | | Total IR Actual (MU) | | | Net IR UI (MU) | | |
|------------------------|-------------------------|-------|----------------------|------------|-------|----------------|------------|-------|
| Through ER | Through WR Inclds Mndra | Total | Through ER | Through WR | Total | Through ER | Through WR | Total |
| 33.59 | 56.60 | 90.19 | 33.58 | 54.42 | 88.00 | -0.01 | -2.18 | -2.19 |

VI. Frequency Profile <----- % of Time Frequency ----->

| <48.80 | <49.0 | <49.20 | <49.50 | <49.7 | 49.5 - 50.2 | 49.7 - 50.2 | > 50.00 | > 50.2 |
|--------|-------|--------|--------|-------|-------------|-------------|---------|--------|
| 0.00 | 0.00 | 0.00 | 0.00 | 2.40 | 93.20 | 90.80 | 50.50 | 6.80 |

| Frequency (Hz) | | | | Average Frequency | Frequency Variation Index | Std. Dev. | Frequency in 15 Min Block | |
|----------------|------|---------|-------|-------------------|---------------------------|-----------|---------------------------|----------|
| Maximum | | Minimum | | | | | MAX (Hz) | MIN (Hz) |
| Freq | Time | Freq | Time | Hz | | | | |
| 50.46 | 6.04 | 49.52 | 19.37 | 49.99 | 0.21 | 0.14 | 50.45 | 49.74 |

VII. Voltage profile 400 kV

| Station | Voltage Level (kV) | Maximum | | Minimum | | Voltage (in % of Time) | | | |
|------------|--------------------|-------------|-------|--------------|-------|------------------------|---------|---------|---------|
| | | Voltage(KV) | Time | Voltage (KV) | Time | <380 kV | <390 kV | >420 kV | >430 kV |
| Rihand | 400 | 407 | 4:03 | 398 | 12:38 | 0.0 | 0.0 | 0.0 | 0.0 |
| Gorakhpur | 400 | 427 | 6:21 | 404 | 11:43 | 0.0 | 0.0 | 14.3 | 0.0 |
| Bareilly | 400 | 418 | 16:20 | 401 | 10:26 | 0.0 | 0.0 | 0.0 | 0.0 |
| Kanpur | 400 | 416 | 19:04 | 394 | 12:34 | 0.0 | 0.0 | 0.0 | 0.0 |
| Dadri | 400 | 413 | 6:02 | 390 | 12:46 | 0.0 | 0.0 | 0.0 | 0.0 |
| Ballabgarh | 400 | 418 | 4:02 | 394 | 12:42 | 0.0 | 0.0 | 0.0 | 0.0 |
| Bawana | 400 | 414 | 6:04 | 394 | 12:45 | 0.0 | 0.0 | 0.0 | 0.0 |
| Bassi | 400 | 419 | 4:02 | 394 | 12:40 | 0.0 | 0.0 | 0.0 | 0.0 |
| Hissar | 400 | 405 | 19:04 | 388 | 12:44 | 0.0 | 1.0 | 0.0 | 0.0 |
| Moga | 400 | 414 | 19:04 | 396 | 12:44 | 0.0 | 0.0 | 0.0 | 0.0 |
| Abdullapur | 400 | 407 | 6:04 | 284 | 3:50 | 0.0 | 0.0 | 0.0 | 0.0 |
| Nalagarh | 400 | 413 | 3:59 | 395 | 15:32 | 0.0 | 0.0 | 0.0 | 0.0 |
| Kishenpur | 400 | 408 | 4:01 | 398 | 16:14 | 0.0 | 0.0 | 0.0 | 0.0 |
| Wagoora | 400 | 410 | 3:28 | 392 | 20:29 | 0.0 | 0.0 | 0.0 | 0.0 |

VIII. Voltage profile 765 kV

| Station | Voltage Level (kV) | Maximum | | Minimum | | Voltage (in % of Time) | | | |
|----------|--------------------|-------------|-------|--------------|-------|------------------------|---------|---------|---------|
| | | Voltage(KV) | Time | Voltage (KV) | Time | <728 kV | <742 kV | >800 kV | >820 kV |
| Fatehpur | 765 | 759 | 18:01 | 729 | 9:29 | 0.0 | 0.0 | 100.0 | 100.0 |
| Balia | 765 | 810 | 18:01 | 725 | 9:06 | 0.0 | 0.0 | 100.0 | 100.0 |
| Moga | 765 | 786 | 19:04 | 744 | 10:32 | 0.0 | 0.0 | 100.0 | 100.0 |
| Agra | 765 | 781 | 18:02 | 745 | 5:42 | 0.0 | 0.0 | 0.0 | 0.0 |
| Bhiwani | 765 | 793 | 13:29 | 762 | 5:40 | 0.0 | 0.0 | 0.0 | 0.0 |
| Unnao | 765 | 758 | 18:17 | 730 | 5:42 | 0.0 | 37.1 | 0.0 | 0.0 |

IX. Reservoir Parameters:

| Name of Reservoir | Parameters | | Present Parameters | | Last Year | | Last day | |
|-------------------|------------|----------|--------------------|-------------|-----------|-------------|----------------------------|---------------------------|
| | FRL (m) | MDDL (m) | Level (m) | Energy (MU) | Level (m) | Energy (MU) | Inflow (m ³ /s) | Usage (m ³ /s) |
| Bhakra | 513.59 | 445.62 | 474.81 | 350.94 | 469.80 | 267.31 | 732.61 | 609.21 |
| Pong | 426.72 | 384.05 | 399.52 | 209.93 | 402.36 | 273.51 | 43.18 | 258.65 |
| Tehri | 829.79 | 740.04 | 754.70 | 80.00 | 818.65 | 982.26 | 176.57 | 191.00 |
| Koteshwar | 612.50 | 598.50 | NA | NA | NA | NA | NA | NA |
| Chamera-I | 760.00 | 748.75 | NA | NA | NA | NA | 270.13 | 205.92 |
| Rihand | 268.22 | 252.98 | 256.40 | 132.50 | 256.89 | 152.90 | NA | NA |
| RPS | 352.80 | 343.81 | 347.18 | NA | NA | NA | NA | NA |
| Jawahar Sagar | 298.70 | 295.78 | 298.03 | NA | NA | NA | NA | NA |
| RSD | 527.91 | 487.91 | 507.19 | NA | 499.87 | NA | 164.55 | 182.56 |

* NA: Not Available

X. System Constraints:

XI. Grid Disturbance / Any Other Significant Event:

XII. Weather Conditions For 20.05.2013 :

1. Hot weather

XIII. Synchronisation of new generating units :

0.00

XIV. Synchronisation of new 220 / 400 / 765 KV lines and energising of bus / substation :

XV. Tripping of lines in pooling stations :

XVI. Complete generation loss in a generating station :

Report for : 20.05.2013

पारी प्रभाती अजिंयता / SHIFT CHARGE ENGINEER