

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरसिस्ट की पूर्ण स्वामित्व प्राप्त महायुक्त कंपनी)



उत्तरी क्षेत्रीय भार प्रेषण केंद्र

CIN: U40105DL2009GOI188682

Power Supply Position in Northern Region for 12.02.2015
Date of Reporting : 13.02.2015

I. Regional Availability/Demand:

| Evening Peak (19:00 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 |
| 37490 | 1789 | 39279 | 49.93 | 30489 | 1222 | 31711 | 50.13 | 819.6 | 51.30 |

* 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 | 46.23 | 10.14 | | 56.37 | 42.97 | 42.74 | -0.23 | 99.11 | 0.00 |
| Haryana | 66.74 | 0.36 | | 67.10 | 50.86 | 50.10 | -0.76 | 117.20 | 0.00 |
| Rajasthan | 136.97 | 6.12 | 2.47 | 145.56 | 67.81 | 68.43 | 0.61 | 213.99 | 0.00 |
| Delhi | 17.24 | | | 17.24 | 43.52 | 43.60 | 0.08 | 60.84 | 0.01 |
| UP | 128.60 | 4.20 | | 132.80 | 91.89 | 91.69 | -0.20 | 224.49 | 43.96 |
| Uttarakhand | | 9.56 | | 9.56 | 24.53 | 25.75 | 1.21 | 35.31 | 0.97 |
| HP | | 4.22 | | 4.22 | 19.78 | 19.67 | -0.11 | 23.89 | 0.00 |
| J & K | | 4.45 | 0.00 | 4.45 | 36.22 | 36.72 | 0.51 | 41.17 | 6.36 |
| Chandigarh | | | | 0.00 | 3.62 | 3.61 | 0.27 | 3.61 | 0.00 |
| Total | 395.78 | 39.05 | 2.47 | 437.30 | 381.20 | 382.30 | 1.38 | 819.60 | 51.30 |

* 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 (19:00 Hrs) MW | | | | Off Peak (03:00 Hrs) MW | | | | # Max(hourly) Demand Met of Day (MW) |
|--------------|-----------------------------|-------------|-------------|---------------------|-------------------------|-------------|------------|---------------------|---|
| | Demand Met | Shortage | UI | STOA/PX transaction | Demand Met | Shortage | UI | STOA/PX transaction | |
| Punjab | 5055 | 0 | -78 | -166 | 3052 | 0 | 7 | -177 | 5553 |
| Haryana | 5840 | 0 | -71 | -571 | 3848 | 0 | 72 | -548 | 6353 |
| Rajasthan | 9075 | 0 | -187 | 777 | 8490 | 0 | -83 | 886 | 9917 |
| Delhi | 2886 | 0 | -147 | -271 | 1443 | 0 | -66 | -771 | 3434 |
| UP | 9624 | 1420 | -278 | 83 | 9959 | 925 | 232 | 63 | 9959 |
| Uttarakhand | 1792 | 40 | -21 | 558 | 1188 | 0 | 53 | 396 | 1903 |
| HP | 1163 | 0 | -147 | 337 | 729 | 0 | -14 | 351 | 1288 |
| J&K | 1865 | 329 | 27 | 663 | 1685 | 297 | 99 | 647 | 1913 |
| Chandigarh | 190 | 0 | -17 | 0 | 95 | 0 | 1 | -31 | 206 |
| Total | 37490 | 1789 | -920 | 1410 | 30489 | 1222 | 302 | 816 | 38027 |

* STOA figures are at sellers boundary & PX figures are at regional boundary. # figures may not be at simultaneous hour.

Diversity is 1.07

III. Regional Entities :

| Entity | Station/ Constituent | Inst. Capacity | Declared | Peak MW | Off Peak MW | Energy | Average | Schedule | UI |
|---|----------------------------------|----------------|--------------|-------------|---------------|--------------|---------------|--------------|--------------|
| | | (Effective) MW | Capacity(MW) | (Gross) | (Gross) | (Net MU) | Sentout(MW) | Net MU | Net MU |
| A. NTPC | Singrauli STPS (5*200+2*500) | 2000 | 1574 | 2005 | 1561 | 40.75 | 1698 | 37.28 | 3.47 |
| | Rihand I STPS (2*500) | 1000 | 865 | 963 | 816 | 21.67 | 903 | 19.93 | 1.74 |
| | Rihand II STPS (2*500) | 1000 | 906 | 849 | 971 | 22.21 | 926 | 20.72 | 1.50 |
| | Rihand III STPS (2*500) | 1000 | 902 | 941 | 822 | 20.91 | 871 | 19.87 | 1.04 |
| | Dadri I STPS (4*210) | 840 | 815 | 626 | 530 | 16.04 | 668 | 15.20 | 0.84 |
| | Dadri II STPS (2*490) | 980 | 980 | 818 | 690 | 18.51 | 771 | 18.20 | 0.31 |
| | Unchahar I TPS (2*210) | 420 | 405 | 366 | 290 | 8.42 | 351 | 8.63 | -0.22 |
| | Unchahar II TPS (2*210) | 420 | 403 | 330 | 276 | 8.00 | 333 | 8.02 | -0.02 |
| | Unchahar III TPS (1*220) | 210 | 201 | 162 | 134 | 4.02 | 168 | 4.04 | -0.02 |
| | ISTPP (Jhajhar) (3*500) | 1500 | 1500 | 707 | 594 | 16.30 | 679 | 17.18 | -0.88 |
| | Dadri GPS (4*130.19+2*154.51) | 830 | 847 | 402 | 413 | 9.62 | 401 | 9.62 | 0.00 |
| | Anta GPS (3*88.71+1*1153.2) | 419 | 426 | 255 | 235 | 5.91 | 246 | 6.03 | -0.12 |
| | Auraiya GPS (4*111.19+2*109.30) | 663 | 510 | 166 | 171 | 3.99 | 166 | 3.92 | 0.07 |
| | Dadri Solar | 5 | 1 | 0 | 0 | 0.02 | 1 | 0.03 | 0.00 |
| | Unchahar Solar | 10 | 3 | 0 | 0 | 0.01 | 0 | 0.07 | -0.06 |
| | Singrauli Solar | 15 | 2 | 0 | 0 | 0.00 | 0 | 0 | -0.03 |
| | Sub Total (A) | 11312 | 10339 | 8590 | 7503 | 196 | 8182 | 189 | 8 |
| B. NPC | NAPS (2*220) | 440 | 394 | 431 | 438 | 9.44 | 393 | 9.46 | -0.02 |
| | RAPS- B (2*220) | 440 | 412 | 453 | 455 | 9.92 | 413 | 9.89 | 0.03 |
| | RAPS- C (2*220) | 440 | 214 | 232 | 233 | 4.93 | 205 | 5.14 | -0.21 |
| | Sub Total (B) | 1320 | 1020 | 1116 | 1126 | 24.29 | 1012 | 24.48 | -0.19 |
| C. NHPC | Chamera I HPS (3*180) | 540 | 534 | 138 | 0 | 1.69 | 70 | 1.60 | 0.09 |
| | Chamera II HPS (3*100) | 300 | 200 | 210 | 0 | 1.31 | 55 | 1.25 | 0.06 |
| | Chamera III HPS (3*77) | 231 | 231 | 224 | 0 | 0.55 | 23 | 0.50 | 0.05 |
| | Bairasuli HPS(3*60) | 180 | 179 | 180 | 0 | 0.68 | 28 | 0.65 | 0.04 |
| | Salal-HPS (6*115) | 690 | 95 | 240 | 0 | 2.44 | 102 | 2.28 | 0.16 |
| | Tanakpur-HPS (3*40) | 94 | 23 | 20 | 31 | 0.57 | 24 | 0.56 | 0.01 |
| | Uri-I HPS (4*120) | 480 | 144 | 205 | 126 | 3.65 | 152 | 3.47 | 0.18 |
| | Uri-II HPS (4*60) | 240 | 0 | 0 | 0 | 0.00 | 0 | 0.00 | 0.00 |
| | Dhauliganga-HPS (4*70) | 280 | 140 | 140 | 0 | 0.91 | 38 | 0.85 | 0.06 |
| | Dulhasti-HPS (3*130) | 390 | 258 | 272 | 0 | 2.57 | 107 | 2.50 | 0.07 |
| | Sewa-II HPS (3*40) | 120 | 10 | 0 | 0 | 0.26 | 11 | 0.24 | 0.02 |
| | Parbati 3 (4*130) | 520 | 282 | 135 | 0 | 0.42 | 17 | 0.39 | 0.03 |
| | Sub Total (C) | 4065 | 2096 | 1763 | 157 | 15 | 627 | 14 | 1 |
| | D. SJVNL | NJPC (6*250) | 1500 | 1605 | 0 | 0 | 0.00 | 0 | 5.89 |
| Rampur HEP (4*68.67) | | 275 | 370 | 372 | 0 | 1.62 | 68 | 1.58 | 0.04 |
| Sub Total (D) | | 1775 | 1975 | 372 | 0 | 1.62 | 68 | 7.47 | -5.85 |
| E. THDC | Tehri HPS (4*250) | 1000 | 888 | 894 | 0 | 7.97 | 332 | 7.90 | 0.07 |
| | Koteshwar HPS (4*100) | 400 | 133 | 299 | 94 | 3.20 | 134 | 3.20 | 0.00 |
| | Sub Total (E) | 1400 | 1021 | 1193 | 94 | 11.17 | 465 | 11.10 | 0.07 |
| F. BBMB | Bhakra HPS (3*108+2*126+6*157) | 1514 | 742 | 1130 | 474 | 17.86 | 744 | 17.81 | 0.05 |
| | Dehar HPS (6*165) | 990 | 138 | 330 | 0 | 3.24 | 135 | 3.32 | -0.08 |
| | Pong HPS (6*66) | 396 | 131 | 300 | 0 | 3.24 | 135 | 3.14 | 0.10 |
| | Sub Total (F) | 2900 | 1011 | 1760 | 474 | 24.34 | 1014 | 24.26 | 0.07 |
| G. IPP(s)/JV(s) | ALLAIN DUHANGAN HPS(IPP) (2*96) | 192 | 0 | 0 | 0 | 0.35 | 15 | 0.34 | 0.02 |
| | KARCHAM WANGTOO HPS(IPP) (4*250) | 1000 | 0 | 0 | 0 | 3.13 | 130 | 3.13 | 0.00 |
| | Malana Stg-II HPS (2*50) | 100 | 0 | 0 | 0 | 0.00 | 0 | 0.00 | 0.00 |
| | Shree Cement TPS (2*150) | 300 | 0 | 282 | 172 | 5.82 | 242 | 5.79 | 0.02 |
| | Budhil HPS(IPP) | 70 | 0 | 0 | 0 | 0.08 | 3 | 0.07 | 0.00 |
| Sub Total (G) | 1662 | 0 | 282 | 172 | 9.37 | 391 | 9.33 | 0.04 | |
| H. Total Regional Entities (A-G) | 24434 | 17462 | 15076 | 9526 | 282.20 | 11759 | 279.69 | 2.51 | |

| 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) (6*210) | 1260 | 530 | 370 | 11.32 | 472 |
| | Guru Nanak Dev TPS(Bhatinda) (4*110) | 440 | 100 | 100 | 2.28 | 95 |
| | Guru Hargobind Singh TPS(L.mbt) (2*210+2*250) | 920 | 574 | 534 | 13.85 | 577 |
| | Goindwal(GVK) | | 0 | 0 | 0.00 | 0 |
| | Rajpura (2*700) | 1400 | 557 | 348 | 10.37 | 432 |
| | Talwandi Saboo (1*660) | 660 | 374 | 330 | 8.41 | 350 |
| | Thermal (Total) | 4680 | 2135 | 1682 | 46.23 | 1926 |
| | Total Hydro | 1148 | 471 | 243 | 10.14 | 422 |
| Total Punjab | 5828 | 2606 | 1925 | 56.37 | 2349 | |
| Haryana | Panipat TPS (4*110+2*210+2*250) | 1367 | 433 | 445 | 10.27 | 428 |
| | DCRTPP (Yamuna nagar) (2*300) | 600 | 542 | 485 | 11.66 | 486 |
| | Faridabad GPS (NTPC) | 432 | 201 | 198 | 4.73 | 197 |
| | RGTPP (khedar) (IPP) (2*600) | 1200 | 728 | 726 | 17.94 | 748 |
| | Magnum Diesel (IPP) | 25 | 0 | 0 | 0.00 | 0 |
| | Jhajjar(CLP) (2*660) | 1320 | 1111 | 746 | 22.14 | 923 |
| | Thermal (Total) | 4944 | 3015 | 2600 | 66.74 | 2781 |
| | Total Hydro | 62 | 9 | 17 | 0.36 | 15 |
| | Total Haryana | 5006 | 3024 | 2617 | 67.10 | 2796 |
| | Rajasthan | kota TPS (2*110+2*195+3*210) | 1240 | 1078 | 1031 | 25.80 |
| suratgarh TPS (6*250) | | 1500 | 1216 | 1140 | 29.65 | 1235 |
| Chabra TPS (3*250) | | 750 | 684 | 768 | 16.83 | 701 |
| Dholpur GPS (3*110) | | 330 | 112 | 93 | 2.69 | 112 |
| Ramgarh GPS (1*3 + 1*35.5 +2*37.5 +1*110 +1*50) | | 271 | 142 | 153 | 3.97 | 166 |
| RAPS A (NPC) (1*100+1*200) | | 300 | 163 | 164 | 4.08 | 170 |
| Barsingar (NLC) (2*125) | | 250 | 184 | 183 | 3.94 | 164 |
| Giral LTPS (2*125) | | 250 | 69 | 45 | 1.48 | 62 |
| Rajwest LTPS (IPP) (8*135) | | 1080 | 830 | 967 | 21.21 | 884 |
| VS LIGNITE LTPS (IPP) (1*135) | | 135 | 0 | 0 | 0.00 | 0 |
| Kalisindh Thermal(1*600) | | 600 | 0 | 0 | 0.00 | 0 |
| Kawai(Adani) (2*660) | | 1320 | 1192 | 1095 | 27.31 | 1138 |
| Thermal (Total) | | 8026 | 5670 | 5639 | 137 | 5707 |
| Total Hydro | | 550 | 209 | 229 | 6.12 | 255 |
| Wind power | | 2798 | 75 | 131 | 1.91 | 80 |
| Biomass | | 99 | 16 | 16 | 0.38 | 16 |
| Solar | | 730 | 2 | 0 | 0.18 | 8 |
| Renewable/Others (Total) | | 3627 | 93 | 147 | 2.47 | 103 |
| Total Rajasthan | | 12203 | 5972 | 6015 | 145.56 | 6065 |
| UP | | Anpara TPS (3*210+2*500) | 1630 | 955 | 926 | 22.40 |
| | Obra TPS (2*50+2*94+5*200) | 1194 | 326 | 342 | 8.10 | 338 |
| | Paricha TPS (2*110+2*220+2*250) | 1140 | 653 | 679 | 15.70 | 654 |
| | Panki TPS (2*105) | 210 | 135 | 140 | 3.10 | 129 |
| | Harduaganj TPS (1*60+1*105+2*250) | 665 | 448 | 441 | 10.70 | 446 |
| | Tanda TPS (NTPC) (4*110) | 440 | 394 | 383 | 9.50 | 396 |
| | Roza TPS (IPP) (4*300) | 1200 | 612 | 824 | 18.80 | 783 |
| | Anpara-C (IPP) (2*600) | 1200 | 539 | 542 | 13.00 | 542 |
| | Bajaj Energy Pvt.Ltd(IPP) TPS (10*45) | 450 | 280 | 401 | 8.10 | 338 |
| | Thermal (Total) | 8129 | 4342 | 4678 | 109.40 | 4558 |
| | Vishnuparyag HPS (IPP) | 400 | 69 | 68 | 1.60 | 67 |
| | Other Hydro | 527 | 99 | 216 | 2.60 | 108 |
| | Cogeneration | 981 | 800 | 800 | 19.20 | 800 |
| | Total UP | 10037 | 5310 | 5762 | 132.80 | 5467 |
| | Uttarakhand | Total Hydro | 1398 | 590 | 326 | 9.56 |
| Total Uttarakhand | | 1398 | 590 | 326 | 9.56 | 398 |
| Delhi | Raighat TPS (2*67.5) | 135 | 32 | 35 | 0.73 | 30 |
| | Delhi Gas Turbine (6x30 + 3x34) | 282 | 76 | 78 | 1.87 | 78 |
| | Pragati Gas Turbine (2x104+ 1x122) | 330 | 159 | 162 | 3.81 | 159 |
| | Rithala GPS (3*36) | 95 | 0 | 0 | 0.00 | 0 |
| | Bawana GPS (6*250) | 1370 | 304 | 272 | 6.99 | 291 |
| | Badarpur TPS (NTPC) (3*95+2*210) | 705 | 163 | 158 | 3.84 | 160 |
| | Thermal (Total) | 2917 | 734 | 705 | 17.24 | 718 |
| Total Delhi | 2917 | 734 | 705 | 17.24 | 718 | |
| HP | Baspa HPS (IPP) (2*150) | 300 | 25 | 25 | 0.99 | 41 |
| | Malana HPS (IPP) (2*43) | 86 | 0 | 0 | 0.20 | 9 |
| | Other Hydro | 728 | 146 | 101 | 3.02 | 126 |
| | Total HP | 1114 | 171 | 126 | 4.22 | 176 |
| J & K | Baqilhar HPS (IPP) (3*150) | 450 | 150 | 120 | 3.06 | 128 |
| | Other Hydro/IPP | 436 | 68 | 41 | 1.39 | 58 |
| | Gas/Diesel/Others | 209 | 0 | 0 | 0.00 | 0 |
| | Total J & K | 1094 | 218 | 161 | 4.45 | 186 |
| Total State Control Area Generation | | 39597 | 18625 | 17637 | 437.30 | 18154 |
| J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)] | | | 4703 | 4341 | 121.15 | 5048 |
| Total Regional Availability(Gross) | | 64032 | 38404 | 31504 | 840.66 | 34961 |

IV. Total Hydro Generation:

| | | | | | |
|-----------------------------|--------------|-------------|-------------|--------------|-------------|
| Regional Entities Hydro | 11432 | 5088 | 725 | 55.65 | 2319 |
| State Control Area Hydro | 5684 | 1767 | 1318 | 39.05 | 1560 |
| Total Regional Hydro | 17116 | 6855 | 2043 | 94.70 | 3879 |

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

| Element | Peak(19:00 Hrs) | Off Peak(03:00 Hrs) | Maximum Interchange (MW) | | Energy (MU) | | Net Energy MU |
|----------------------------|-----------------|---------------------|--------------------------|--------|---------------|--------------|---------------|
| | MW | MW | Import | Export | Import | Export | |
| Vindhychal B/B | -200 | -50 | 250 | 200 | 1.79 | 1.21 | 0.59 |
| Gwalior-Agra (D/C) | 1636 | 1558 | 2160 | 0 | 40.97 | 0.00 | 40.97 |
| Zerda-Kankroli | -140 | -280 | 0 | 304 | 0.00 | 4.18 | -4.18 |
| Zerda-Bhinmal | -54 | -146 | 95 | 222 | 0.00 | 1.45 | -1.45 |
| Malanpur-Auraiya | -67 | -91 | 0 | 140 | 0.00 | 2.01 | -2.01 |
| Badod-Kota/Morak | -86 | -171 | 0 | 91 | 0.00 | 3.06 | -3.06 |
| Mundra-Mohindergarh(HVDC) | 2302 | 2301 | 2305 | 0 | 55.60 | 0.00 | 55.60 |
| Vindhychal - Rihand | 493 | 360 | 499 | 0 | 11.34 | 0.00 | 11.34 |
| Sub Total WR | 3884 | 3481 | | | 109.70 | 11.90 | 97.80 |
| Pusauli Bypass | 300 | 300 | 400 | 0 | 7.27 | 0.00 | 7.27 |
| MZP- GKP (D/C) | -74 | 39 | 148 | 163 | 0.00 | 0.32 | -0.32 |
| Patna-Balia(D/C) | 522 | 314 | 634 | 0 | 10.02 | 0.00 | 10.02 |
| B'Sharif-Balia (D/C) | -113 | 11 | 183 | 178 | 0.00 | 0.56 | -0.56 |
| Pusauli-Balia | 75 | 137 | 242 | 0 | 1.35 | 0.00 | 1.35 |
| Gaya-Fatehpur (765 Kv) | 161 | 93 | 289 | 0 | 4.69 | 0.00 | 4.69 |
| Pusauli-Sahupuri | 112 | 145 | 179 | 0 | 3.37 | 0.00 | 3.37 |
| K'nasa-Sahupuri | 0 | 0 | 0 | 0 | 0.00 | 0.00 | 0.00 |
| Son Ngr-Rihand | -40 | -34 | 0 | 51 | 0.00 | 0.88 | -0.88 |
| Garhwa-Rihand | 0 | 0 | 0 | 0 | 0.00 | 0.00 | 0.00 |
| Sasaram - Fatehpur(765 KV) | -124 | -145 | 48 | 168 | 0.00 | 1.58 | -1.58 |
| Sub Total ER | 819 | 860 | | | 26.69 | 3.34 | 23.35 |
| Total IR Exch | 4703 | 4341 | | | 136.39 | 15.24 | 121.15 |

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

| ER | ISGS/LT Schedule (MU) | | Bilateral Schedule (MU) | | Power Exchange Shdl (MU) | | Wheeling (MU) | |
|-------|-----------------------|-------|-------------------------|------------|--------------------------|------------|---------------|------------|
| | Bhutan | Total | Through ER | Through WR | Through ER | Through WR | Through ER | Through WR |
| 23.29 | 0.09 | 23.38 | 3.06 | -1.53 | 14.41 | 8.93 | 0.22 | -0.22 |

| 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 |
| 41.07 | 79.92 | 120.99 | 23.35 | 97.80 | 121.15 | -17.72 | 17.88 | 0.16 |

VI. Frequency Profile

| % of Time Frequency | | | | | | | | | |
|---------------------|-------|-------|-------|-------|------------|-------------|-------------|--------|--------|
| <49.2 | <49.7 | <49.8 | <49.9 | <50.0 | 49.9-50.05 | 50.05-50.10 | 50.10-50.20 | >50.20 | >50.50 |
| 0.00 | 0.02 | 1.92 | 12.45 | 53.40 | 64.53 | 16.46 | 5.54 | 1.10 | NA |

| 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 | | | | |
| 50.49 | 18.02 | 49.69 | 22.06 | 49.99 | 0.07 | 0.09 | 50.30 | 49.9 |

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 | 409 | 23:33 | 402 | 08:36 | 0.0 | 0.0 | 0.0 | 0.0 |
| Gorakhpur | 400 | 412 | 21:42 | 391 | 08:56 | 0.0 | 0.0 | 0.0 | 0.0 |
| Bareilly | 400 | 421 | 21:28 | 396 | 14:17 | 0.0 | 0.0 | 0.4 | 0.0 |
| Kanpur | 400 | 420 | 21:00 | 399 | 14:14 | 0.0 | 0.0 | 0.0 | 0.0 |
| Dadri | 400 | 416 | 03:12 | 397 | 14:17 | 6.4 | 6.4 | 0.0 | 0.0 |
| Ballabgarh | 400 | 425 | 03:26 | 401 | 14:14 | 0.0 | 0.0 | 24.6 | 0.0 |
| Bawana | 400 | 423 | 03:15 | 401 | 14:18 | 0.0 | 0.0 | 12.5 | 0.0 |
| Bassi | 400 | 426 | 20:57 | 399 | 11:38 | 0.0 | 0.0 | 6.5 | 0.0 |
| Hissar | 400 | 414 | 21:14 | 390 | 14:16 | 0.0 | 0.0 | 0.0 | 0.0 |
| Moga | 400 | 420 | 21:14 | 398 | 14:09 | 0.0 | 0.0 | 0.0 | 0.0 |
| Abdullapur | 400 | 421 | 03:15 | 396 | 14:16 | 0.0 | 0.0 | 2.0 | 0.0 |
| Nalagarh | 400 | 433 | 21:15 | 406 | 14:23 | 0.0 | 0.0 | 49.0 | 2.4 |
| Kishenpur | 400 | 418 | 04:02 | 393 | 18:47 | 0.0 | 0.0 | 0.0 | 0.0 |
| Wagoora | 400 | 404 | 09:58 | 359 | 18:48 | 35.9 | 73.9 | 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 | 787 | 21:30 | 731 | 08:55 | 0.0 | 14.8 | 0.0 | 0.0 |
| Balia | 765 | 783 | 21:55 | 741 | 08:53 | 0.0 | 0.4 | 0.0 | 0.0 |
| Moga | 765 | 796 | 21:21 | 753 | 14:18 | 0.0 | 0.0 | 0.0 | 0.0 |
| Agra | 765 | 790 | 21:30 | 747 | 14:16 | 0.0 | 0.0 | 0.0 | 0.0 |
| Bhiwani | 765 | 799 | 21:00 | 756 | 14:15 | 0.0 | 0.0 | 0.0 | 0.0 |
| Unnao | 765 | 773 | 21:50 | 734 | 14:15 | 0.0 | 11.4 | 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 (m³/s) | Usage (m³/s) |
| Bhakra | 513.59 | 445.62 | 488.00 | 671.08 | 493.67 | 858.11 | 92.43 | 604.65 |
| Pong | 426.72 | 384.05 | 399.97 | 216.87 | 407.19 | 407.15 | 47.12 | 233.22 |
| Tehri | 829.79 | 740.04 | 792.35 | 483.10 | 797.10 | 560.42 | 36.00 | 203.00 |
| Koteshwar | 612.50 | 598.50 | 610.24 | 4.69 | 610.33 | 4.69 | 203.00 | 212.00 |
| Chamera-I | 760.00 | 748.75 | 759.69 | 0.00 | 0.00 | 0.00 | 46.19 | 45.31 |
| Rihand | 268.22 | 252.98 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| RPS | 352.80 | 343.81 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Jawahar Sagar | 298.70 | 295.78 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| RSD | 527.91 | 487.91 | 501.64 | 2.73 | 508.57 | 2.77 | 70.79 | 133.37 |

* NA: Not Available

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

| State | Off- Peak Hours (03:00 Hrs) | | | Peak Hours (19:00 Hrs) | | | Day Energy (MU) | | |
|--------------|-----------------------------|------------|-----------|------------------------|-------------|-----------|-----------------|-----------------|--------------|
| | Bilateral (MW) | IEX (MW) | PXIL (MW) | Bilateral (MW) | IEX (MW) | PXIL (MW) | Bilateral (MU) | IEX / PXIL (MU) | Total (MU) |
| Punjab | -321 | 144 | 0 | -290 | 124 | 0 | -7.22 | 4.71 | -2.50 |
| Delhi | -687 | -63 | -20 | -475 | 215 | -10 | -10.88 | 1.77 | -9.11 |
| Haryana | -696 | 149 | 0 | -693 | 122 | 0 | -17.93 | 2.75 | -15.17 |
| HP | 413 | -62 | 0 | 383 | -46 | 0 | 11.22 | -2.39 | 8.83 |
| J&K | 647 | 0 | 0 | 468 | 196 | 0 | 13.13 | 1.97 | 15.10 |
| CHD | -31 | 0 | 0 | 0 | 0 | 0 | -0.24 | 0.22 | -0.03 |
| Rajasthan | 293 | 590 | 2 | 293 | 481 | 2 | 7.04 | 12.19 | 19.23 |
| UP | 63 | 0 | 0 | 83 | 0 | 0 | -0.03 | 0.00 | -0.03 |
| Uttarakhand | 268 | 80 | 48 | 268 | 288 | 1 | 6.34 | 6.33 | 12.67 |
| Total | -51 | 838 | 29 | 36 | 1380 | -7 | 1.43 | 27.56 | 28.99 |

X(B). Short-Term Open Access Details:

| State | Bilateral (MW) | | IEX (MW) | | PXIL (MW) | |
|-------------|----------------|---------|----------|---------|-----------|---------|
| | Maximum | Minimum | Maximum | Minimum | Maximum | Minimum |
| Punjab | -290 | -321 | 331 | 3 | 0 | 0 |
| Delhi | -169 | -687 | 337 | -67 | -10 | -20 |
| Haryana | -693 | -869 | 150 | -49 | 0 | 0 |
| HP | 541 | 383 | 10 | -563 | 0 | 0 |
| J&K | 647 | 468 | 269 | -76 | 0 | 0 |
| CHD | 0 | -31 | 34 | 0 | 0 | 0 |
| Rajasthan | 293 | 293 | 629 | 380 | 2 | -73 |
| UP | 115 | -150 | 0 | 0 | 0 | 0 |
| Uttarakhand | 268 | 252 | 352 | 77 | 73 | 1 |

XI. System Constraints:**XII. Grid Disturbance / Any Other Significant Event:****XIII. Weather Conditions For 12.02.2015 :**
Normal**XIV. Synchronisation of new generating units :****XV. Synchronisation of new 220 / 400 / 765 KV lines and energising of bus / /substation :****XVI. Tripping of lines in pooling stations :****XVII. Complete generation loss in a generating station :**